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Commentaries

Economic conditions

Manufacturing

The orders situation in industry continued to improve in November 2002. In particular, the volume of foreign orders (adjusted for seasonal fluctuations) was up again substantially on the month, with brisk export business having already been reported in October. The orders intake, which included a whole series of larger-than-average contracts, benefited all the main sectors of industry. October and November together witnessed a seasonally adjusted increase in foreign business of just over 21/2% on the third quarter. This meant that it was possible largely to overcome the slowdown in orders which had occurred in summer and almost match the strong flow recorded in spring. The year-on-year figure, which had turned positive again in summer following a long negative period, went up to somewhat more than 5%. Retarding effects due to the appreciation of the euro, especially against the US dollar, were not discernible in October and November.

In November, seasonally adjusted domestic demand did not maintain its October level, although it remained satisfactory. Thus, orders in October and November together were just over 1% up on the average level for the summer quarter. There was also a slight year-on-year increase of 1½% whereas the figure for the third quarter had been -2½%.

Industrial output rose significantly in November having previously dropped to quite a low level not least owing to the prevailing pattern

Orders

Output

Economic conditions in Germany *

Seasonal	I	

Seasonally adj	usted			
	New order	s (volume);	1995 = 100	
	Industry 1			
		of which		Con-
Period	Total	Domestic	Foreign	struction
2002 Q1 Q2 Q3 Sep Oct	121.0 123.6 122.1 121.9 123.2	102.7 102.6 102.8 102.9 104.1	154.0 161.3 156.9 156.1 157.6	73.9 70.0 67.8 69.1 66.6
Nov	125.3	103.7 164.3		
	Output; 19	995 = 100		
	Industry 2			
		of which		
	Total	Inter- mediate goods	Capital goods ³	Con- struction
2002 Q1 Q2 Q3	117.7 118.1 119.0	115.3 116.0 116.9	130.0 130.4 132.2	78.4 72.9 72.7
Sep Oct	118.9 116.9	117.6 115.7	131.0 129.7	72.4 73.5
Nov	119.9	117.8	135.0	76.3
	Labour ma	rket		
	Em- ployed 4	Vacancies	Un- employed	Un- employ- ment rate
	Number in	thousands		in % 5
2002 Q2 Q3 Q4	38,765 38,600 	471 445 409	4,027 4,097 4,150	9.7 9.8 10.0
Oct Nov Dec	38,521 	413 403 394	4,130 4,169 4,197	9.9 10.0 10.1
	Prices; 199	5 = 100	,	
	Import prices	Producer prices of industrial prod- ucts 6	Overall construc- tion price level 7	Con- sumer price index
2002 Q2 Q3 Q4	109.6 108.8 	104.4 104.1 	99.5 99.5 99.4	111.0 111.0 111.3
Oct Nov Dec	109.4 108.3 	104.6 104.5 		111.4 111.2 111.2

^{*} Data in many cases provisional. — 1 Manufacturing sectors excluding, in particular, food products, beverages and tobacco, and refined petroleum products. - 2 Manufacturing industries not classified under energy plus mining and quarrying. — 3 Including manufacture of motor vehicles, trailers and semi-trailers. — 4 Workplace concept. — 5 Measured on the basis of all civilian members of the labour - 6 Domestic sales. — 7 Calculated by the Bundesbank. Mid-quarter level.

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of working days and public holidays. This was one major reason for the average level of output in the October-November period being a seasonally adjusted 1/2% down on the third quarter. Nevertheless, this still signified a year-on-year increase of somewhat more than 1%. Output thus showed a rise on the year again for the first time in quite a long while.

Construction

November 2002 still failed to bring a turn for the better in construction. Construction output did pick up somewhat, however – partly as a result of the comparatively mild weather. Seasonally adjusted output in November was considerably higher than in the previous month. The average figure for the third quarter is scarcely likely to have been matched in October and November, however. The figures currently available show too low a level of output for the summer months, as they do not yet include the usual upward revision resulting from this year's overall survey. A yearon-year comparison, which is not affected by the impending revisions, shows a fall of 51/2% for the October-November period.

In October (the last month for which figures are currently available), construction orders continued to fall in seasonally adjusted terms and were around 13/4% down on the thirdquarter level. This signifies a year-on-year decline of 8%. The decline in residential construction was even sharper, with the minus figure still in the double-digit range. The public sector also reduced its orders substantially compared with the previous year. The reducOutput

Orders received

tion in industrial construction orders was, however, relatively moderate.

Labour market

Employment

The labour market continued to be affected by the cyclical weakness of the German economy. There were further job cuts and unemployment increased significantly. According to the initial estimates of the Federal Statistical Office, the seasonally adjusted number of persons in work fell to 38.52 million in October, ie around 80,000 fewer than on an average of the third quarter and roughly 360,000 fewer than one year before. As hardly any new jobs were created in the services sector either, it was not possible to offset the persistent losses in industry and construction.

Unemployment

The number of persons officially registered as unemployed rose to a seasonally adjusted 4.2 million in December. This was almost 30,000 more than the comparable figure for November and represented a year-on-year increase of more than 260,000. The seasonally adjusted unemployment rate, as calculated by the Federal Labour Office, reached 10.1%. According to the EU's standardised method, the relevant figure was 8.5%. At the end of 2001, the figures had been 9.5% and 7.9% respectively.

Prices

Consumer prices

The price climate in Germany at the end of 2002 remained favourable. The rate of consumer price increase remained within narrow bounds in December 2002. The seasonally

adjusted general price level was no higher than in November. The year-on-year increase remained unchanged at 1.1%. The height-ened upward pressure on energy prices – including, in particular, for refined petroleum products – was offset by weakening pressure on industrial products and food.

The prices of heating oil and petrol followed internationally quoted oil prices, which stopped falling in November and began to accelerate upwards. At times, the price of North Sea Oil reached US\$30 per barrel on the spot markets. This was due, in particular, to shortfalls in Venezuelan oil production and a risk premium owing to the possibility of war in Iraq.

Import prices

Oil prices

German import prices for oil were still declining in November. Moreover, the appreciation of the euro had a price-dampening impact. On the whole, import prices fell somewhat in seasonally adjusted terms. The price level over 12 months which, in October, had shown an increase for the first time in quite a long while, was back down in the negative range (-0.6%).

Domestic producer prices were broadly constant in recent months. In November, industrial producer prices were only 0.4% higher than a year earlier and agricultural products were 5.7% cheaper. Construction prices were barely higher than during the same period of 2001.

Producer prices

Public finance

Indebtedness of central, state and local government

November

Indebtedness of central, state and local government rose very steeply again in November (+€10.8 billion). The Federal Government accounted for €5.9 billion, almost all of which was raised on the capital market. Federal bonds (Bunds) were the most preferred financing vehicle - the outstanding amount of Bunds went up by €8.9 billion owing to a new issue of €5.3 billion and market management operations. Despite new issues, the outstanding amount - after deducting redemptions - of five-year Federal notes (Bobls) increased by only €0.5 billion, while that of Treasury discount paper (Bubills) declined by €0.5 billion. Liabilities from loans against borrowers' notes, which in November recorded the highest monthly redemptions of 2002 (€4 billion in total), declined by €3.5 billion on balance.

In November state government expanded its indebtedness by \in 4.8 billion. The borrowed resources it required were made up mainly of Treasury notes (\in 2.5 billion), along with short-term cash advances from banks (\in 2.0 billion) and loans against borrowers' notes (\in 0.3 billion). Of the off-budget special funds, the "German Unity" Fund – which participated in the above-mentioned Bund issue to the amount of \in 0.6 billion – moderately lowered its indebtedness by \in 0.2 billion. Local government is likely to have drawn marginally on the credit markets in November.

Net borrowing in the market

			റ

€ DIIIION					
	2001		2002		
Borrower	Total	of which Jan- Nov	Jan- Nov pe	Nov pe	
Central govern- ment 1	3 – 14.8	3 – 7.0	+ 33.7	+ 5.9	
State government	+ 26.4	+ 26.4	+ 27.3	+ 4.8	
Local govern- ment 2, pe	+ 2.6	+ 1.8	+ 2.5	+ 0.3	
ERP Special Fund	+ 0.8	+ 0.8	+ 0.2	- 0.0	
"German Unity" Fund	- 0.8	- 0.5	- 0.1	- 0.2	
Central, state and local government, total	+ 14.2	+ 21.4	+ 63.6	+ 10.8	

1 Including the off-budget special funds not shown separately here. — 2 Including special-purpose associations. — 3 Including exceptional redemptions of equalisation claims out of UMTS sales proceeds in the amount of €33 billion.

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Federal Government borrowing

In December ...

In December the Federal Government reduced its indebtedness by €9.7 billion. Hence its gross monthly repayment obligation of €27.0 billion, which was far higher than in any other month in 2002, was only partly financed by recourse to the capital market (€13.8 billion) and an increase in money market liabilities (€3.5 billion). With the exception of Bobls (which rose by €0.9 billion), the outstanding amount of almost all other securities declined. This was particularly noticeable for ten-year bonds (-€12.3 billion), since both a Bund and a Treuhand agency bond were redeemed. These were only marginally offset by proceeds from market management operations amounting to €0.6 billion. After deducting redemptions, the outstanding volume of Federal Treasury notes (Schätze) declined by €0.3 billion, despite the quarterly new issue – which raised €7.3 billion gross. The monthly issue of Bubills was sold at an average yield of 2.77% and once again, therefore, was distinctly cheaper for the Federal Government than in the previous month. The Federal Government repaid loans against borrowers' notes to the net value of €1.1 billion.

... and in 2002

The Federal Government's cumulative indebtedness (excluding the ERP Special Fund and the "German Unity" Fund) at the end of 2002 amounted to €725 billion and was consequently almost €24 billion higher than at the end of 2001.1 Of this net increase in borrowing, just over €2 billion resulted from higher money market indebtedness and almost €22 billion from capital market operations. Gross borrowing by the Federal Government in the capital market amounted to €176 billion. Regarding the debt structure, the share of Bunds (with a maturity of 10 and 30 years) declined slightly in 2002 by 1 percentage point to just over 58% of the Federal Government's overall debt. By contrast, the share of five-year Bobls increased marginally to 171/2%, while the share of two-year Schätze went up markedly to just under 11%. At the short end of the maturity range, the outstanding amount of six-month Bubills increased by half. Consequently their share in overall debt increased to 4%. In terms of both the absolute and the relative amount. the significance of Federal savings notes and of bank loans declined considerably again; their shares in the Federal Government's indebtedness at the end of 2002 amounted to just 21/2% and 51/2% respectively.

Federal Government borrowing in the market

€ billion; 2002

	Decemb	er	January- December		
Item	Gross	Net	Gross	Net	
Change in money market debt	3.5	3.5	2.2	2.2	
Change in capital market debt, total 1	13.8	- 13.2	176.0	21.7	
Treasury discount paper (Bubills)	4.5	- 0.2	47.8	9.1	
Federal Treasury financing paper	0.0	- 0.0	1.3	- 0.1	
Treasury notes (Schätze)	7.6	- 0.3	2 43.0	18.9	
Five-year Federal notes (Bobls)	0.9	0.9	3 36.0	7.4	
Federal savings notes	0.0	0.0	1.7	- 8.5	
Federal bonds (Bunds)	0.6	- 12.3	4 41.4	6.1	
Bank loans	0.1	- 1.1	4.7	- 9.9	
Loans from non-banks	-	-	-	- 0.3	
Other debt	-	_	_	- 1.2	
Total borrowing	17.3	- 9.7	178.2	23.9	

1 Memo item: borrowing for 2002 as a whole according to the draft supplementary budget: €188 billion gross, €35 billion net. — 2 Including borrowing for the "German Unity" Fund: €43.1 billion. — 3 Including borrowing for the ERP Special Fund: €36.1 billion. — 4 Including borrowing for the "German Unity" Fund and the ERP Special Fund: €55.0 billion.

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The Federal Government has redemption obligations amounting to €185 billion in 2003. The Federal draft budget for 2003 envisages net borrowing of €19 billion. This will thus result in total gross borrowing of €204 billion according to the budget figures. This excludes new bond issues agreed as part of the supplementary budget for 2002. The rise in gross borrowing vis-à-vis 2002 is primarily due to the increase in the redemption requirement, which is around €30 billion higher this year. This particularly reflects the sizeable increase in the issue volumes of Bubills and Schätze during the past few years. Furthermore, the

Outlook for 2003

¹ The budgeted borrowing requirement, which amounted to €31.8 billion for 2002 according to the Federal Government's preliminary budget outturn, customarily differs from the net borrowing figure actually raised in the market which is shown here, partly owing to time lags in recording the transactions in the accounts.

bulk of the ten-year bonds raised by the former Treuhand agency will be redeemed in 2003. Lower repayments are scheduled for loans against borrowers' notes and Federal savings notes; this mirrors the continuing decline in the importance of these forms of financing.

Securities markets

Bond market

Bond sales

Sales activity in the German bond market made a clear recovery in November 2002. Domestic borrowers issued debt securities to a market value of €97.0 billion, compared with €82.7 billion in October. After deducting redemptions and adjusting for changes in issuers' holdings of their own bonds, net sales came to €25.8 billion, compared with only €2.9 billion in October. Sales of foreign bonds in the German market raised €9.3 billion net; most of those bonds were denominated in euro (€7.2 billion). Overall, net sales of domestic and foreign bonds yielded €35 billion in November, compared with €4.5 billion one month previously.

Public sector bonds

The public sector increased its indebtedness in the bond market by €15.3 billion in November, as opposed to €4.2 billion in the previous month. The Federal Government raised €12.5 billion net (October: €7.3 billion) from sales of its own bonds, with ten-year bonds accounting for most of this amount (€8.5 billion). However, the amount of Federal savings notes outstanding fell by €0.2 billion.² In November the *Land* governments issued €2.4

billion net of bonds and notes, somewhat less than in the previous month (\in 3.1 billion).

The credit institutions raised €9.9 billion net from the sale of their own bonds. Sales were mainly of other bank bonds (€8.0 billion), followed by debt securities issued by specialised credit institutions (€5.3 billion). However, mortgage Pfandbriefe were repurchased for €1.5 billion and public Pfandbriefe for €1.9 billion.

Bank bonds

Sales of corporate bonds amounted to $\in 0.6$ billion net in November and were thus well down on the previous month ($\in 3.0$ billion).

Corporate bonds

Credit institutions and non-banks were more or less equally active on the buyers' side of the bond market in November. The credit institutions added €17.4 billion to their bond portfolios, most of their purchases consisting of paper issued by domestic borrowers (€11.9 billion), while €5.5 billion comprised foreign bonds and notes. Domestic non-banks increased their investment in the bond market by €15.9 billion, purchasing €12.2 billion net of domestic debt securities, €7.5 billion of which were issued by private borrowers. They invested €3.7 billion net in foreign debt instruments. Foreign investors purchased €1.7 billion of debt securities in November.

Bond purchases

² The individual items for the Federal Government are shown at nominal values rather than at market values, and no account is taken of the changes in its holdings of Federal bonds. The sum total of these individual items therefore normally fails to tally with the aforementioned total net sales of Federal Government bonds.

Equity market

Share sales

Issuing activity in the German equity market remained subdued in November. Domestic enterprises placed new shares to a market value of \in 0.3 billion (October: \in 0.6 billion). The volume of foreign equities outstanding in Germany decreased by \in 0.3 billion, after \in 2.5 billion had been raised from share sales in the previous month.

Share purchases

Credit institutions reduced their equity holdings by \in 1.8 billion. Domestic shares were purchased by non-residents and domestic non-banks; these acquired equities worth \in 1.2 billion net and \in 0.5 billion net respectively.

Mutual fund shares

Sales of mutual fund shares

The resources raised by domestic mutual funds in November were, at €4.8 billion, down on the previous month (€6.1 billion). Half of this amount accrued to mutual funds open to the general public and half to specialised funds. After a period of six months, of the funds open to the general public, sharebased funds, which raised €1.5 billion of new capital, were again predominant. Sales of shares in open-end real estate funds raised €0.6 billion. Sales of bond-based fund shares raised €0.5 billion. Money market funds and mixed funds, however, experienced return flows (€0.1 billion each). Sales of foreign fund shares yielded €0.7 billion in Germany in November. The total amount raised from sales of domestic and foreign mutual fund shares thus came to €5.5 billion.

Sales and purchases of bonds and notes

€ billion

	2002		2001
Item	Oct	Nov	Nov
Sales of domestic bonds and notes ¹ of which	2.9	25.8	7.2
Bank bonds	- 4.3	9.9	11.0
Public sector bonds Foreign bonds and	4.2	15.3	- 1.6
notes 2	1.6	9.3	4.3
Purchases			
Residents	6.3	33.3	- 6.4
Credit institutions 3	- 9.7	17.4	- 6.8
Non-banks 4 of which	16.0	15.9	0.4
Domestic bonds			
and notes	13.2	12.2	- 6.2
Non-residents 2	- 1.9	1.7	17.9
Total sales/purchases	4.5	35.0	11.5

1 Net sales at market values plus/minus changes in issuers' holdings of their own bonds. — 2 Transaction values. — 3 Book values, statistically adjusted. — 4 Residual.

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Mutual fund shares were purchased mainly by credit institutions (€3.5 billion), which focused on buying domestic fund shares (€3.2 billion). Domestic non-banks raised €2.0 billion from the sale of fund shares. By contrast, foreign investors made no changes to their holdings of domestic mutual fund shares.

Purchases of mutual fund shares

Balance of payments

Germany's current account ran a surplus of €8.5 billion in November 2002, which was €3.5 billion more than in the previous month. The increase was due primarily to a smaller deficit on invisible current transactions with non-residents, which is that part of the current account comprising services, factor in-

Current account

Major items of the balance of payments

€ billion

Common	200)1	200)2	_	_
Item	No		Oct		No	
I Current account 1 Foreign trade 1 Exports (fob) Imports (cif)		54.9 47.5		58.6 47.5		58.7 46.7
Balance Memo item Seasonally adjusted figures Exports (fob)	+	7.4 50.9	+	11.1 54.3	+	12.0 56.0
Imports (cif) 2 Supplementary trade items 2	_	0.3	_	0.6	_	45.0
3 Services Receipts Expenditure		7.7 10.5		9.6 13.1		8.1 10.2
Balance	-	2.8	-	3.5	-	2.1
4 Factor income (net)	+	0.1	+	1.2	+	0.9
5 Current transfers from non-residents to non-residents		0.6 3.3		0.8 4.0		1.3 3.3
Balance	-	2.8	-	3.3	-	2.0
Balance on current account	+	1.6	+	4.9	+	8.5
II Capital transfers (net) 3	-	0.2	-	0.1	-	0.1
III Financial account (net capital exports: –) Direct investment German investment	+	2.6	-	0.8	+	3.4
abroad Foreign investment	+	0.0	-	3.3	+	1.1
in Germany Portfolio investment German investment	++	2.5 11.6	-	2.4 6.6	-	2.3 4.9
abroad of which	-	7.0	-	5.5	-	7.8
Shares Bonds and notes Foreign investment	- -	0.5 6.1	- -	2.8 1.1	+	2.2 8.2
in Germany of which	+	18.6	-	1.1	+	2.9
Shares Bonds and notes Financial derivatives Credit transactions Credit institutions	+ - - -	0.1 18.1 1.1 29.4 37.7	- - - -	0.9 0.9 1.3 13.5 10.0	+ + +	1.2 0.1 0.9 9.2 18.8
of which Short-term Enterprises and individuals General government Bundesbank Other investment	- + + -	19.6 0.6 1.0 6.7 0.1	- + + - -	10.5 1.8 0.6 5.8 0.1	- + - + -	14.2 4.5 0.1 5.1 0.1
Overall balance on financial account	-	16.4	-	22.3	-	9.8
IV Change in the foreign reserves at transaction values (increase: –) 4	+	0.2	+	0.6	_	0.8
V Balance of unclassifiable transactions		14.8		16.8		2.4

1 Special trade according to the official foreign trade statistics (source: Federal Statistical Office). — 2 Mainly warehouse transactions for account of residents and deduction of goods returned. — 3 Including the acquisition/disposal of non-produced non-financial assets. — 4 Excluding allocation of SDRs and excluding changes due to value adjustments.

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come and current transfers. The trade surplus was also larger than in October 2002.

According to figures from the Federal Statistical Office, the surplus on foreign trade amounted to €12.0 billion in November and was therefore €1.0 billion greater than in October. After the elimination of seasonal influences, too, the surplus, at €11 billion, was €1 billion more in November than in the previous month. This was due mainly to the fact that exports of goods rose in November by 3% above the low figure in October. If September, October and November are taken together, exports rose by approximately 2% compared with the period from June to August. The seasonally adjusted imports of goods also showed an increase in November, but, at 1%, the result was lower than on the export side. In the three-month period from September to November imports were 21/2% up on the previous period.

The remaining current account transactions with non-residents ran a deficit of €3.1 billion in November, which was €2.4 billion less than in October. This was due both to a smaller deficit on services (€2.1 billion compared with €3.5 billion in October) and to lower net current transfers to non-residents (€2.0 billion compared with €3.3 billion in the previous month). By contrast, net factor income from abroad (€0.9 billion) was €0.3 billion less than in October.

With respect to financial transactions, there were again net capital exports as a result of portfolio investment and non-securitised credit transactions in November while net

Foreign trade

Invisibles

Portfolio investment

capital imports were recorded in the case of direct investment. The outflow of funds through portfolio investment amounted to €4.9 billion net compared with €6.6 billion in October. German residents invested more heavily in foreign securities (November: €7.8 billion compared with €5.5 billion a month earlier). Interest-bearing paper issued by foreign borrowers was most in demand. For example, German residents acquired foreign bonds and notes (especially those denominated in euro) worth €8.2 billion and foreign money market paper worth €1.1 billion. However, they sold foreign shares worth €2.2 billion net. Non-resident investors, who had sold German securities in October, returned to the German securities markets in November. They invested a total of €2.9 billion in German paper, €1.2 billion in shares and €1.6 billion in money market paper. In the case of bonds and notes the value of their purchases of public-sector paper almost entirely offset the value of their sales of private issues (+€0.1 billion).

Direct investment

In contrast to events in portfolio investment, net capital imports (of $\in 3.4$ billion) arose as a result of direct investment. Foreign proprietors provided their subsidiaries and branches domiciled in Germany with financing funds amounting to $\in 2.3$ billion; these were mainly in the form of credits. German enterprises, by

contrast, repatriated funds (€1.1 billion); within the framework of intra-group credit operations the amounts paid by foreign subsidiaries to their parent companies were greater than those spent by parent companies on establishing and expanding participating interests abroad.

In the field of non-securitised credit transactions the financial transactions of enterprises and individuals with non-residents resulted in net inflows of €4.5 billion. In the case of enterprises they made slight reductions in the balances held with foreign banks. In the case of general government cross-border payments were almost completely in balance (-€0.1 billion net). The non-securitised external operations of the banking system were of greater significance. As in earlier months, German credit institutions exported large amounts of capital in November (€18.8 billion net) although this was partly offset by credits of €5.1 billion to the accounts of the Bundesbank (excluding foreign reserves); as usual, the latter development was due largely to balances in connection with the payment system TARGET.

The foreign reserves of the Bundesbank rose – at transaction values – by €0.8 billion in November.

Foreign reserves of the Bundesbank

Credit transactions

Reserve assets: their development and importance in monetary union

Global reserve assets have continued to grow strongly right up to the present. Despite the currency crises in Latin America and in Asia, they have more than doubled over the past ten years. In the brief period since the start of 1999, when European monetary union was established, there has been a worldwide increase of around 35%. However, the Eurosystem, one of the principal holders of reserve assets, has not contributed to this increase. In fact, it has slightly reduced its reserve assets overall (expressed in US dollars). There has actually been a distinct decrease in Germany's reserve assets in the past four years. Nonetheless, the importance and appropriate level of reserve assets under the special conditions of monetary union continues to be a subject of debate in Germany, too. This article takes up that issue and comes to the conclusion that, although Germany's reserve assets are quite substantial in absolute terms, they are on the low side by international comparison when measured in terms of Germany's economic size and high degree of openness. The article also examines the terms and conditions under which Germany's reserve policy operates within European monetary union.

Development and structure of the global reserve assets

Sharp increase in global reserves

After the Second World War the international holdings of reserve assets expanded fairly slowly at first. A rapid increase only began in the early 1970s and has continued ever since. The global reserves increased almost fivefold between 1970 and 1980 and doubled in each of the following two decades. At the end of September 20021 they amounted to US\$2,454 billion.^{2,3} The start of the expansion process coincided with the collapse of the Bretton Woods system of fixed exchange rates, which, in its final stages, entailed extensive interventions in the foreign exchange markets. An important factor was also the first "oil price explosion" and the concomitant marked expansion of reserve assets in the OPEC countries. Subsequently, large US current account deficits and shifts in exchange rate patterns contributed to a further swelling of the international reserves. Moreover, many countries continued to observe exchange rate agreements even after the end of the Bretton Woods system. It is that background which ultimately makes it possible to find an explanation for the surprising occurrence of a sharp increase in the global reserves after the system of fixed exchange rates had been officially abandoned.4

Share of emerging economies and developing countries increases

In recent years the increase in the reserve assets has been attributable primarily to the emerging economies and developing countries, which more than trebled their reserve holdings between the end of 1992 and the end of September 2002. Even if, in currency crises, some of these countries have tempor-

arily used large amounts of foreign exchange to protect their national currency, this has hardly had any effect on the longer-term trend. Since 1996 the emerging economies and developing countries, taken together, have held more reserve assets than the group of industrial countries. They currently hold some 60% of the global reserve assets although most of their holdings are concentrated on a few more developed countries, such as China, Taiwan or South Korea. Nevertheless, seven of the ten principal holders of reserve assets are emerging economies or developing countries (see table on page 18).

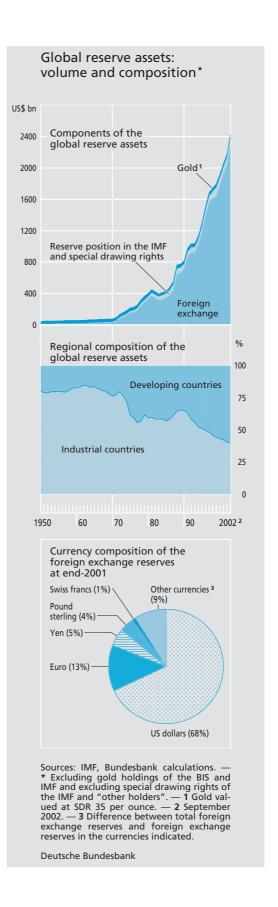
Of the industrial countries, Japan, in particular, has increased its reserve assets significantly since the end of the 1980s by means of interventions; in the short period of time

Japan and Eurosystem hold largest reserves

- 1 The data used in this article in order to make international comparisons are mainly those as at the end of September 2002 or, in the case of annual data, the end of 2001. In the case of Germany, data on the reserve assets are available up to the end of 2002 and are indicated separately in the appropriate places.
- 2 In the underlying data of the International Monetary Fund (IMF), gold reserves are consistently valued at the fixed gold price of SDR 35 per ounce of fine gold. At the end of September 2002 the gold reserves were therefore worth around SDR 33 billion or (converted) US\$43 billion. At that cut-off date the market price for gold in London was US\$323.70 per ounce of fine gold. Valued at market prices, the gold reserves therefore amounted to around US\$301 billion (SDR 228 billion) and the total reserve assets to US\$2,712 billion. In earlier publications US\$38 per ounce was taken as the gold price in 1971 and 1972 and US\$42.22 per ounce from 1973 onwards in order to eliminate the impact of exchange rate fluctuations on the value of the gold reserves.
- 3 Owing to the high percentage of US dollar holdings in the global foreign exchange reserves at the end of 2001 68% of the foreign exchange reserves were in US dollars it seems appropriate to show the reserve assets in US dollars. Otherwise, exchange rate fluctuations would distort the development patterns in which we are interested. As clarified below, this also applies to the euro area, in particular.
- **4** For the reasons for the increase in global reserves in the 1970s and 1980s, see also Deutsche Bundesbank, Longer-term trends in global reserve assets, *Monthly Report*, January 1990, pp 33-55.

since the start of 1999 its holdings have approximately doubled as a result. At the end of September 2002 it had more reserve assets - US\$454 billion - than any other country. The second place among the holders of reserves is occupied by the Eurosystem, whose balance sheet shows the combined reserve assets of the 12 participating national central banks and the European Central Bank (ECB). At the end of September 2002 the Eurosystem had reserve assets amounting to €381 billion. 5 In contrast to what has happened in Japan, however, the Eurosystem's reserve assets have actually decreased since the start of 1999 when monetary union came into being. This can be seen from the balance of payments statistics, which include only transaction-related changes (ie not valuation changes). The decrease up to the end of September 2002 is shown to have been around €45 billion (or 12%). By contrast, in the Eurosystem's financial statement, which is presented in euro and based on market prices, the large valuation gains have such an impact on the foreign exchange position and the gold reserves, in particular, that an increase from €338 billion to €381 billion was recorded.6

⁶ In each case, including Greece. From the start of 1999 to the end of September 2002 the price of gold went up from €246.37 per ounce to €326.98 per ounce and the dollar rate rose from €0.86 to €1.01 per US dollar. The dollar rate has since fallen considerably.



⁵ The Eurosystem's reserve assets are valued at market prices in this article, as in ECB publications. However, if a uniform gold price of SDR 35 per ounce is taken as a basis and converted into US dollars (as in the table on page 18), they amount to US\$264 billion. For the Eurosystem, which holds around 40% of the official gold reserves, the valuation of the gold stock is of greater importance than for most other countries.

The ten principal holders of reserve assets *

End of September 2002	End	of	Se	pter	nber	2002
-----------------------	-----	----	----	------	------	------

Country	US\$ billion
Japan	453.9
China	263.7
Taiwan	157.7
South Korea	116.6
Hong Kong	111.2
Singapore	80.5
USA	76.9
India	60.9
Germany	57.1
Mexico	46.6
Memo item	
Euro area	263.9

Sources: IMF, Bundesbank calculations. — \ast Gold holdings valued at SDR 35 per ounce.

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Components of reserve assets ...

Although gold continues to play an important role within the reserve assets as a relatively crisis-proof, non-government asset, at least since the Second Amendment of the IMF Articles of Agreement it no longer has a key function in the international monetary system.⁷ Its quantitative importance as part of the reserve assets has also declined significantly. Even when valued at market prices, the gold reserves at the end of September 2002 accounted for only 11% of the total reserve assets. At the same time, the reserve position in the IMF and special drawing rights accounted for 4%. In terms of volume, however, the foreign exchange reserves are predominant, with a share of 85%.8

The available data on the currency composition of the foreign exchange reserves indi-

cate that assets denominated in US dollars play the most important role. More than two-thirds of the total holdings of foreign exchange reserves are in US dollars. After an interim low in the early 1990s, the US dollar has increased its share by more than 10 percentage points. At the end of 2001 the euro accounted for 13% of the monetary authorities' foreign exchange holdings worldwide, thus somewhat strengthening its position as the second most important reserve currency. Around 5% of the foreign exchange reserves were denominated in Japanese yen and 4% in pounds sterling. At the end of 2001 the share of Swiss francs was less than 1%.9

... and currency composition of foreign exchange reserves

Development and structure of Germany's reserve assets

The volume and composition of Germany's reserve assets are not so much the result of an optimisation strategy as, primarily, a response to the Bundesbank's intervention obligations during the time of the Bretton Woods system and foreign exchange purchases at times when the dollar was weak. By contrast, the Bundesbank's participation in the European Monetary System (EMS) was not a significant factor in the longer-term in-

Reserve assets expanded after Second World War

⁷ Under the Second Amendment of the IMF Articles of Agreement, the gold definition of the special drawing rights and the function of gold as a reference variable for monetary parities and as a unit of account in the IMF, *inter alia*, ceased to be used. Moreover, no official gold payments have since been made between the IMF and its members. See also Deutsche Bundesbank, *Weltweite Organisationen und Gremien im Bereich von Währung und Wirtschaft*, Special Publication, April 1997, pp 52-53.

⁸ Valued at a gold price of SDR 35 per ounce, the percentages shift distinctly in favour of foreign exchange reserves (94%) and away from gold (2%).

⁹ See IMF Annual Report 2002, p 97, Table 1.2.

crease in the reserve assets. Although, in the context of the EMS, there were repeatedly very large foreign exchange inflows in the short term, with the result that the reserve assets peaked during the EMS crises at DM179 billion in 1992 and DM163 billion in 1993, the volume of foreign exchange purchased was generally quickly reduced again and therefore had no lasting impact on the level of the reserves. At the end of 1998, the Bundesbank had reserve assets which amounted to DM134 billion (€68½ billion) − calculated at the then balance sheet rates, which were largely geared to the historical acquisition rates.

Sharp rise in euro equivalent of reserve assets on accession to monetary union...

... followed by deliberate reduction of reserves At the start of monetary union, the reserve assets of all participants in the Eurosystem – ie including Germany's reserve assets – were redefined in accordance with standard criteria. ¹⁰ Furthermore, they have since been regularly revalued at market prices. ¹¹ Accordingly, at the start of January 1999 the Bundesbank had reserve assets which, when expressed in euro, amounted to €94 billion. They have decreased slightly since then, albeit with fluctuations; at the end of September 2002 their market value was still €89 billion. ¹² Much the same as in the case of the

¹² Data on Germany's reserve assets are available up to the end of December 2002. At that cut-off date the reserves amounted, at market prices, to a total of €85 billion.



¹⁰ Since then, in addition to gold, the reserve position in the IMF and the special drawing rights, only liquid foreign-currency-denominated claims of the Eurosystem on non-residents are taken to be reserve assets. This therefore excludes, for example, claims on euro-area residents that are denominated in euro (or the legacy currencies) and in foreign currency.

¹¹ Initially, revaluation at current market prices was carried out at the end of each quarter. Since January 2001 the Bundesbank has recorded all end-of-month positions at market prices.

Eurosystem's reserve assets as a whole, this decrease reflects two opposing movements: the deliberate reduction of the reserves, on the one hand, and holding gains, particularly in the case of foreign exchange and gold positions, on the other. Data from the balance of payments, in which only transactions involving reserve assets are reflected, show that, from the start of EMU up to the end of September 2002, Germany's reserves decreased by €25½ billion (or 27%) as a result of transactions. Roughly half of the decrease can be traced back to the transfer of gold and foreign exchange holdings to the ECB at the beginning of January 1999; in return, the Bundesbank received a claim for the equivalent amount in euro. The Bundesbank also reduced its holdings by injecting foreign exchange into the market in addition to the amounts that had arisen from the interest income accruing to it from its investment of the reserve assets. In this way it responded to the change in the need for reserves in monetary union.

Structural changes in reserve assets

The reduction of the foreign exchange holdings and the movements in market prices and foreign exchange rates have also led to major structural shifts within the reserve assets. Although, at the start of monetary union, foreign exchange reserves still accounted for 60% of Germany's reserve assets, their share has since fallen to 49½% (end of September 2002). Owing to the increase in the price of gold, by contrast, the share of the gold reserves expanded, in terms of value, by 10 percentage points to 41% in this same period even though the volume of gold holdings decreased. A slight increase (from 9% to 10%)

was also recorded in the reserve position in the IMF and the special drawing rights.

International comparison of Germany's reserve assets

Despite the decrease, the Bundesbank still has the most reserve assets, in terms of value, within the Eurosystem. If the different sizes of the individual economies are taken into account, however, Germany's reserve assets are not unusually large when compared with those of other participating countries. With reserve assets of €89 billion, the Bundesbank held about 261/2% of the total reserve assets of the national central banks in the Eurosystem at the end of September 2002. This is, for instance, far less than the German capital share in the ECB, which - when calculated for the current 12 euro-area member states is slightly more than 30%. Of the individual components of the reserve assets, Germany's gold reserves were slightly above average (29½%) but, relatively speaking, they were still less than its capital share; at 241/2%, Germany's share of the foreign exchange reserves of the national central banks in the Eurosystem was even smaller.

This discrepancy between the absolute and relative volume of Germany's reserve assets is also apparent if an international comparison is made. Although Germany is one of the principal holders of reserve assets, those assets account for only 3% of the international reserves if calculated at market prices. This is far less than, for example, Germany

Germany's reserve assets within the Eurosystem...

... and by international comparison many's share of global GDP (6%) or its share of world trade ($8\frac{1}{2}$ %).

Reserve assets in relation to GDP

In international comparisons of reserve assets, rather than reference being made to the share of global GDP or of world trade, the national reserves are often calculated, for example, in relation to GDP in the country in question or to (monthly) imports, and these figures are then compared. If the reserve assets of an economy or a currency area are compared with its economic strength, the 2001 figure for Germany is approximately 41/2%. Germany therefore ranks low on the list of leading industrial countries (along with France and Italy). Countries with even fewer reserve assets in relation to GDP are, for example, the United States with a ratio of just under 1½% and the United Kingdom (2½%) while, relatively speaking, the euro area as a whole has slightly more reserves (6%). The figures for Switzerland (21%), Japan (9½%) and some emerging economies and countries in transition are far higher (see the table on page 22).

Import cover of reserve assets...

Relating a country's reserve assets to its (average monthly) imports gives the import cover of the reserve assets (in months); for Germany it was 1.6 (months). Hypothetically, Germany's reserve assets would therefore be enough to finance the (total) imports of goods and services for about 1½ months. That figure is fairly low by international comparison. A similarly low import cover by reserve assets is recorded, for instance, by the United States and the United Kingdom, with slightly more than one month, or France and Italy, with around two months. In terms of

Germany's reserve assets within the Eurosystem							
End of September	2002						
			Reserve position in the IMF and	Foreign			
			special	ex-			
ltem	Total	Gold	drawing rights	change reserves			
Item	TO CO.	dola	rights	reserves			
	€ billion						
Eurosystem	380.9	131.3	31.2	218.3			
of which							
ECB	46.5	8.1	0.2	38.2			
Germany	88.9	36.2	8.8	44.0			
	in %						
Germany's share of the Euro- system's reserve							
assets 1	26.6	29.4	28.2	24.4			
Sources: ECB, Bundassets.	Sources: ECB, Bundesbank. — 1 Excluding the ECB's reserve						
Deutsche Bundesba	nk						

this indicator, the reserve assets of the Eurosystem as a whole (3½ months) and Switzerland (6½ months) are far higher. Of the major industrial countries, Japan has the largest import cover, almost one year. Some emerging economies and countries in transition – such as South Korea with 7½ months and Russia with six months – also have quite a large import cover.

The calculation of the months of import cover provided by reserve assets is ultimately based on the view that, except for performance-related reasons, reserve assets are held mainly for intervention and transaction purposes. It is assumed that an economy's external vulnerability increases with its degree of openness. In order to cushion external shocks, the monetary authorities will hold a growing amount

... an appropriate indicator only in certain circumstances

International comparison of reserve assets *

2001

Country	Reserve assets in relation to GDP	Imports covered by reserve assets (in months)	Reserve assets in relation to external liabilities ²	Reserve assets in relation to money stock ³
Selected industrial countries				
Canada	4.7%	1.5	4.8%	7.4%
France	4.5%	2.0	2.6%	-
Germany	4.5%	1.6	3.2%	6.4%
Italy	4.2%	1.9	4.4%	-
Japan	9.7%	11.8	26.3%	8.2%
Switzerland	20.9%	6.6	5.3%	15.7%
United Kingdom	2.6%	1.1	0.8%	2.7%
United States	1.3%	1.1	1.4%	1.6%
Selected emerging economies and countries in transition				
Czech Republic	25.5%	4.1	29.4%	32.6%
Hungary	20.7%	4.0	19.8%	43.0%
Mexico	7.2%	2.9	-	31.7%
Poland	15.0%	5.4	25.0%	31.2%
Russia	11.8%	5.9	22.2%	52.0%
South Korea	24.3%	7.2	-	28.9%
Memo item				
Euro area	5.8%	3.7	5.2%	7.2%

Sources: IMF, ECB, Bundesbank, Bundesbank calculations. — * Reserve assets as per the international investment position (where data available); as at end-2001. — 1 Imports of goods and services as per the national accounts; for the euro area, imports of goods and services as per the balance of payments; in both cases for the whole of 2001. — 2 External liabilities as per the inter-

national investment position; as at end-2001. — 3 The money stock is made up of the IFS aggregates "money" and "quasi-money"; it comprises cash, sight deposits, time deposits, savings deposits and foreign exchange deposits; for the United Kingdom, M4; for the United States and the euro area, M3; for Germany, the German contribution to M3; as at end-2001.

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of reserves the more the economy is exposed internationally. In this connection, however, the underlying institutional conditions of each monetary system are a decisive factor. Under the conditions of the Bretton Woods system, with fixed exchange rates, comparatively less developed capital markets and widespread restrictions on the movement of capital, external disruptions were transferred mainly via trade in goods and services. During the period in which the Bretton Woods system was in operation, there was therefore clearly a certain justification for using reference variables based on imports when evaluating the relative amounts of reserve assets. ¹³

Other indicators

Since the changeover to flexible exchange rates and the liberalisation of capital movements, countries with access to the international capital markets generally no longer need – for reasons related to the balance of payments – to hold extensive reserve assets. Market participants are normally able to raise the funds required for cross-border payments on the free foreign exchange market. Nonetheless, reserve assets are still likely to be a major factor underpinning international investors' confidence in a country's ability to meet its financial commitments, thus contributing to stabilising capital flows and, at times,

¹³ One criticism of this standard method for assessing the level of the reserve assets is that reserves do not generally serve to finance imports but (balance of payments) deficits; another criticism is that the approach is said to imply that the reserves have an import elasticity of 1 although there is no empirical evidence to support this. See J Frenkel, B Jovanovic, Optimal International Reserves: A Stochastic Framework, *Economic Journal* (91) 1981, pp 507-514 and H Badinger, *The Demand for International Reserves in the Eurosystem*, Research Institute for European Affairs, IEF Working Paper No 37, 2000, p 25.

the national currency. It is therefore appropriate to use financial variables in the analysis and to set a country's reserve assets against its external liabilities or money stock. While the former indicator shows the confidence factor more clearly in terms of the external balance of payments, the latter takes account of the sustainability of financial developments in the domestic market. ¹⁴

External liabilities

When comparing the relation between reserve assets and external liabilities for the major industrial countries and some countries in transition – for many emerging economies the corresponding data from the international investment position are not available there is also evidence of a broad spread of values, even if the countries are not always ranked in the same order as in the other previously analysed indicators. In 2001 the lowest ratios of reserve assets to external liabilities were those of the United Kingdom at just under 1% - which owes much to London's status as an international financial centre - and the United States at 11/2%. Germany was also in the bottom bracket at 3% (the euro area as a whole: 5%). This contrasts with other countries such as Japan (261/2%), Poland (25%) and the Czech Republic (291/2%) which, measured in terms of external assets, had comparatively large holdings of reserve assets. The problem with these figures is, however, the focus on the external liabilities - regardless of whether these were offset by external assets (and if so, to what extent). For instance, the USA's external position (net external liabilities of US\$2,309 billion or 23% of GDP at the end of 2001) differs fundamentally from the German external position (net external assets of €116 billion or 5½% of GDP).

If the reserve assets are measured against the money stock - normally using a broad aggregate such as M3 – the same familiar pattern generally tends to emerge: here, too, the United States (11/2%) and the United Kingdom (21/2%) show the smallest figures among the industrial countries. At 61/2% Germany's reserve assets are somewhat larger than its contribution to M3 (euro area 7%), whereas the figures for virtually all the countries in transition and emerging economies included in the analysis were several times higher. The reason for this probably has to do, inter alia, with the comparatively underdeveloped financial sector in these countries. However, this may also be attributable in part to distortions due to discrepancies in the statistical definitions or in the customary payment media; these distortions frequently play a major role in the monetary aggregates.

mand for reserve assets frequently draw on "buffer stock models". The approaches are based on the view that the greater the likelihood is of the reserves being fully depleted within a given period, the more monetary authorities seek to increase their reserve holdings. It is frequently assumed that this prob-

ability depends on the past volatility of the

reserve assets. In addition, higher adjustment

Econometric analyses of the central bank de-

Monetary reserve volatility

Money stock

¹⁴ The ratio of the reserve assets to the money stock has frequently proved to be an important determinant when modelling currency crises. See, for example, B Schnatz, *Macroeconomic determinants of currency turbulences in emerging markets,* Economic Research Centre of the Deutsche Bundesbank, Discussion paper 3/98.

costs in the real economy, which are incurred if the reserves are fully depleted, have a positive influence on the (optimal) stock of reserves, while higher opportunity costs have a negative influence. These correlations were again corroborated in recent panel studies, although the explanatory content of the models is still rather moderate. However, these studies are only of minor importance for the current analysis of Germany's reserve assets as, within the context of monetary union, Germany is not faced with undesirable outflows of reserves.

Interim statement

A different approach The results of the simple comparison of ratios and the econometric studies show that the reserve holdings of monetary authorities vary considerably from one country to another. If the actual reserve assets were interpreted as being the result of an optimisation strategy (which they generally are not), the demand for reserves would clearly be so different from one country to the next that they could not be captured using a single model. Some authors therefore take a different approach with regard to the euro-area countries. They assume that before accession to monetary union the size of reserve holdings was "optimal" in terms of the ability to absorb external economic shocks. The changeover to the euro is said, however, to have reduced the degree of openness of the participating countries, now defined as openness vis-à-vis countries outside the euro area. Correspondingly, the volume of reserve assets would also tend to decrease – if the national central banks maintained their assumed behaviour in the period before monetary union. If this line of argument is followed, Germany - possibly following a transition period – would maintain the level of its reserve assets in relation to its imports from (or vis-à-vis its external liabilities to) non-euro-area countries at the same level as the ratio that prevailed before monetary union in relation to total imports (or total external liabilities). ¹⁶

When Germany acceded to monetary union, its reserve assets amounted to 171/2% (or 2.1 months' worth of imports) in relation to (total) imports in 1998 and 5% in relation to (total) external liabilities. For 2001, the last year for which complete data are available, values of 23% (2.7 months' worth of imports) and somewhat over 5% can be calculated – measured against the imports from or liabilities to non-euro-area countries. As the reserve assets declined by around 9% in the course of 2002, the ratios (adjusted for the effect of the reduced degree of openness) are likely to have since moved closer to the levels recorded at the start of monetary union (imports) or to have fallen below them (external liabilities).

¹⁵ See, for example, R Flood, N Marion, Holding international reserves in an era of high capital mobility, IMF Working Paper 02/62, April 2002 and H Badinger, Adäquanz und Optimalität internationaler Reserven – theoretische Aspekte und Schätzung der Reservenachfrage Österreichs (1970-1998), Vienna University of Economics and Business Administration, 2000, which summarises more than 40 empirical studies of the demand for reserves.

¹⁶ The argument implicitly assumes that only the confidence of investors from third countries has to be protected. This is not necessarily the case, however; rather, with regard to Germany's ability to meet its international financial commitments, it would be possible to continue to measure its reserve assets against its total external liabilities. Another possibility would be to emphasise the currency aspect and to use external debt denominated in foreign currency as the measure.

Germany's reserve assets in the changed monetary policy setting

Profound changes due to monetary union

The belief described above that the new monetary policy environment in which the Bundesbank finds itself could be accounted for simply by disregarding cross-border transactions or financial relations within the euro area fails, however, to embrace in full the actual implications of monetary union. The Bundesbank is now integrated into the Eurosystem, which has assumed responsibility for both internal and external monetary policy for the euro area. This also calls for a fundamental rethink on the question of the importance of national reserve assets. The reasons normally given for holding reserve assets have at most an indirect relevance in the case of the national reserve assets. 17

Some "traditional" reasons for holding reserve assets...

... are no longer as important

Confidence in the euro is primarily based on the Eurosystem's independent monetary policy with its goal of maintaining price stability. The availability of reserve assets, especially the reserve assets of the national central banks in the Eurosystem, which are not readily available for intervention purposes, can at most act as an indirect support. Other reasons which were important in the past or which apply to less developed economies have lost importance owing to the development of the financial markets, the liberalisation of crossborder capital flows and the strong role of the euro as an international currency. In addition to the confidence function, three reasons essentially remain for holding national reserve assets.

 In accordance with secondary Community legislation, the ECB can ask the national central banks to transfer more reserves if necessary. 18

- Foreign exchange reserves enable the Federal Government to process payments (for example, in the context of international agreements) in foreign currency without a major impact on the market; as such, they are a means of fulfilling the fiscal agent function which the Bundesbank assumes for the Federal Government.
- Foreign exchange reserves yield appreciable interest income; this is an important part of the Bundesbank's profit, which accrues to the Federal Government in accordance with the statutory regulations since the Bundesbank is owned by the Federal Republic of Germany.

However, these factors provide no dear indication of what the appropriate level of the Bundesbank's reserve assets should be. It also ... but allow no concrete quantification

Other reasons are still valid ...

¹⁷ The literature gives, *inter alia*, the following reasons for holding reserve assets: reserve assets serve to maintain confidence in the currency in question; reserve assets are a monetary policy instrument; interventions on the foreign exchange market are used, where appropriate, to support the exchange rate, in order to avoid real adjustment burdens or at least to spread them out over time; reserve assets may be used to service a country's external liabilities denominated in a foreign currency; insofar as this is within the powers of the government, reserve assets may help to deal with cross-border public expenditure; reserve assets may be drawn on during natural disasters or other emergency situations; reserve assets serve to earn income. See, for example, J Nugée, Foreign exchange reserve management, Handbooks in Central Banking No 19, Centre for Central Banking Studies, Bank of England, 2000.

¹⁸ Pursuant to Council Regulation (EC) No 1010/2000 of 8 May 2000, the ECB may effect further calls for reserve assets from the national central banks up to an amount equivalent to €50 billion if such reserve assets are needed.

needs to be borne in mind that the present volume and composition of the reserve assets constitute the starting point for any changes. Moreover, decisions on any adjustments can be made only in the overall monetary policy context. Besides the current market situation, further constraints apply within the framework of the Eurosystem or in the light of other contractual obligations of the Bundesbank. For example, a portion (albeit relatively small) of the reserve assets – the reserve positions in the IMF and the special drawing rights – are governed by international agreements and cannot therefore be mobilised. In addition, the Bundesbank may not sell gold at present because major European central banks - including the Bundesbank - have agreed, until September 2004, to refrain from making any sales of gold other than those already scheduled by individual central banks; 19 the Bundesbank has announced no such sales for the duration of this period.

Restrictions on the use of reserve assets In addition, the Bundesbank, like the other national central banks in the Eurosystem, is bound by certain restrictions on the use of its reserve assets.²⁰ Article 31 of the Statute of the ESCB stipulates that, apart from transactions which allow the national central banks to fulfil their obligations towards international organisations, all of their reserve assets transactions above a certain limit established by the Governing Council of the ECB are subject to the approval of the ECB.21 This rule does not apply to investment transactions in foreign currency. These restrictions are necessary to ensure the consistency of the Eurosystem's monetary and exchange rate policy and to avoid disruptions to the market. However,

they do not preclude specific changes in the volume of reserve assets made over longer periods of time, as is shown by the reduction in the foreign exchange reserves made by the Bundesbank and other national central banks.

Possible "alternative uses" for Germany's reserve assets are a frequent topic of public debate - for example, in connection with last summer's flooding disaster or to finance the planned bank for SMEs. The proposals are not always in keeping with the provisions of the EC Treaty. Pursuant to Article 105 (2) of the EC Treaty, the Bundesbank holds and manages the official German foreign reserves. Any attempt by government to influence the Bundesbank in the performance of these functions would constitute a breach of the Treaty and undermine the Bundesbank's independence. Apart from these serious legal objections, however, the reserve assets cannot, for accounting reasons, simply be transferred from the Bundesbank's accounts to other agencies. The equivalent value of the reserve assets has been largely injected into the economy in the form of central bank money (see box on page 27). A sale of foreign exchange reserves would withdraw liquidity from the banking system, which Possible "alternative" uses

would then have to be made good by means

of more refinancing loans, for example. The

¹⁹ The Central Bank Gold Agreement of 1999 was signed by the ECB, the then 11 national central banks in the Eurosystem, Sveriges Riksbank, the Swiss National Bank and the Bank of England.

²⁰ See European Central Bank, Foreign exchange reserves and operations of the Eurosystem, *Monthly Bulletin*, January 2000, pp 51-57.

²¹ This rule also applies to member states' transactions with their foreign exchange working balances.

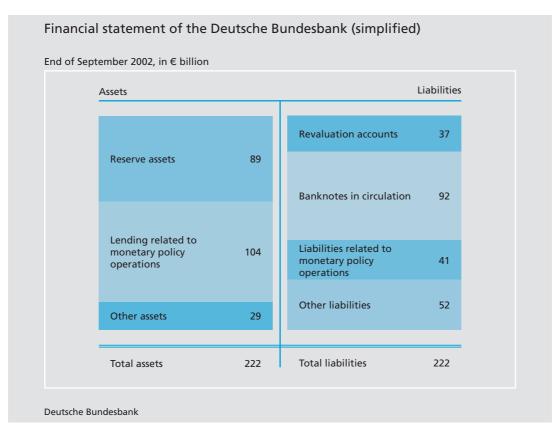
Germany's reserve assets as part of the balance sheet

Viewed in isolation, the building-up of reserve assets by a central bank amounts to an extension of the balance sheet. An increase in its assets is matched by a corresponding increase in its liabilities. This interaction can be seen most clearly if one considers what happens when foreign currency is purchased from a domestic credit institution. In such a situation, there is an initial increase both in the central bank's foreign currency reserves and in the credit institution's central bank deposits (as a result of the equivalent value of the foreign currency purchased being credited to the credit institution's account). Even if the banking system then responds (by increasing its lending, for example) or the central bank does so (by granting fewer refinancing loans, for example), the fundamental balance sheet connection between the building-up of reserve assets, on the one hand, and the creation of central bank money, on the other, remains intact: the equivalent value of accumulated reserve assets has been made available to the financial system as central bank money.

This interaction is disrupted - but not entirely eliminated - by valuation changes in existing reserve stocks. If market prices are rising, unrealised holding gains ensue, which, in line with the Eurosystem's accounting principles, are not distributed but transferred to a revaluation account. With the changeover to marking to market at the start of monetary union, large unrealised holding gains accrued to the Bundesbank from the previous lower valuation of stocks of gold, SDRs, US dollars and securities. These amounted to €25½ billion. Particularly as a result of the increase in the price of gold and the higher US dollar exchange rate, further (unrealised) holding gains followed, with the result that there was around €37½ billion on the revaluation accounts at the end of September 2002. First and foremost, these liability items form a kind of buffer which shields the Bundesbank's profit and loss account against losses incurred by its holding reserve assets in times of falling market prices and exchange rates. The fluctuations in the revaluation account can be seen from the Bundesbank's financial statement. Its highest value to date – €45 billion – was recorded at the end of June 2001.

The revaluation account "bridges" the discrepancy between the market value of the reserve assets and the supply of central bank money derived from the earlier acquisition of the reserves. Apart from the other restrictions which the Bundesbank is obliged to observe in the management of its reserve assets, the discussion of alternative uses of reserve assets (in the sense of making resources available to the public sector) can only be about this partial amount. As Article 101 of the EC Treaty prohibits the central banks in the Eurosystem from providing public sector financing, reserve assets cannot be transferred to a public sector body and a corresponding asset shown on the Bundesbank's balance sheet. When reserve assets are sold at market prices which are higher than the prices originally paid for them, the ensuing holding gains can, where appropriate, be realised, corresponding revaluation reserves being liquidated with an effect on the profit and loss account and paid over to the Federal Government. However, it needs to be borne in mind that the balance on the revaluation account is primarily attributable to the currently higher price of gold and that, as far as the use of its gold reserves is concerned, the Bundesbank is currently bound by the Central Bank Gold Agreement.

Deutsche Bundesbank



gross proceeds from any sale cannot therefore be disbursed in full but are tied up in the balance sheet. Only the unrealised holding gains recorded in an additional revaluation account on the liabilities side of the Bundesbank's balance sheet are released in part whenever assets are sold and would thus be available for alternative use. The Bundesbank has sold a limited amount of foreign exchange reserves in recent years and distributed the realised holding gains with the Bundesbank profit. Another point to remember is that the (national) reserve assets continue to serve a certain function even in the context of monetary union. A sizeable volume of reserves will therefore continue to be needed. Furthermore, the Bundesbank's revaluation reserves relate mainly to its gold holdings which - even after the expiry of the Gold

Agreement - can only be reduced very gradually to ensure that the price of gold does not collapse. The unrealised gains relating to the foreign exchange reserves totalled less than €10 billion at the end of September 2002 and have since fallen further owing to the euro's appreciation on the foreign exchange markets, with the result that the resources which arise from the sale of foreign exchange reserves and which can be drawn on for special purposes would be less than is frequently assumed. Moreover, any reduction in the foreign exchange reserves, by releasing revaluation reserves, would lead to a contraction of the balance sheet total and would thus also entail a loss of income for the Bundesbank.

Conclusion

The Bundesbank is one of the world's principal holders of reserve assets; but compared with the size of the German economy and its high degree of international economic integration, Germany's reserve asset holdings do not appear excessive by international standards. However, the question arises as to whether the ratios normally used to value such reserves are also an appropriate measure for countries in a monetary union. Yet even if this is not the case, the reserve assets still held at the Bundesbank are also of special sig-

nificance within European monetary union: they are a kind of "standby fund" should the ECB need additional reserve assets and they also enable the Bundesbank to carry out its fiscal agent function. In addition, the interest income on foreign exchange reserves contributes substantially to the Bundesbank's profit. Moreover, any adjustments to the reserve holdings can only be made by the Bundesbank itself within the framework of the legally stipulated or agreed limits. To sum up, the bulk of Germany's reserve assets are not available for "alternative" uses.

Role and importance of interest rate derivatives

Since being introduced in the late 1970s, interest rate derivatives have become indispensable instruments of risk management on the financial markets. This has not been without consequences for the structure, price formation and liquidity of the relevant cash markets. Derivatives take away transactions from the cash market while also creating new trading opportunities. Thanks to lower trading costs, information is reflected in prices on the futures markets sooner than on the cash market. Liquid derivative markets thus have a tendency to raise the efficiency of the financial markets. Under certain conditions, however, the major leverage effect of derivative financial instruments may also have a destabilising impact. The following report first explains the development and structure of the markets for interest rate derivatives and then the impact of the increasing use of derivatives on the stability of the financial system and the monetary policy transmission process.

Introduction

"Interest rate derivatives" is the general term for instruments whose value is derived from the market price of a debt security or a reference interest rate. These include bond futures, their related options as well as interest rate swaps. In April 2001, daily turnover in interest rate contracts on the derivatives exchanges was in the order of US\$2.2 trillion,

Sharp growth in the market for interest rate derivatives ...

almost double its value in the mid-1990s. The rates of growth in over-the-counter (OTC) trading have been even greater, with its turn-over of interest rate derivatives more than tripling during the same period to US\$0.8 trillion. At the end of June 2001, the nominal value of all open interest rate contracts – traded on exchanges and OTC – was, at US\$93 trillion, several times higher than the nominal value of all bonds outstanding (US\$36 trillion). 1,2

... raises questions about the implications for monetary policy The Bundesbank investigated the monetary policy implications of derivatives as early as November 1994.3 Back then, the article came to the provisional conclusion that monetary policymakers could take a relaxed view of the increasing use of derivative financial instruments. At the same time, however, a careful analysis of these markets was urged. Now that extensive statistical central bank surveys of the banks' derivative business are conducted every three years, with their results published by the Bank for International Settlements (BIS), the available database - which also covers the OTC derivatives market - is much better than in 1994. Additionally, since 1998, there have been supplementary semiannual derivatives statistics, which are likewise collected by the national central banks and coordinated by the BIS.

Characteristics of derivatives

The key characteristic of derivatives is that their use makes it easier and more costeffective to split off the risks associated with the underlying financing instruments and to trade them separately. Some types of derivatives, such as futures contracts and swaps, may, in principle, be replicated by a combination of their underlying securities or interest rate contracts. In practice, however, this entails considerable transaction costs and is therefore uneconomic for the individual investor. For that reason, derivatives are often the only possibility of trading a given combination of risks. This is all the more true of derivatives with option characteristics, the risk profile of which cannot practically be reproduced by a combination of underlyings.

According to a 1997 survey, more than threequarters of the surveyed German enterprises use - mainly currency and interest rate - derivatives. 4 The popularity of derivatives is due to the fact that they tie up much less capital than do positions in the underlying assets. This results in these instruments having a major leverage effect. They may be used to reduce risks (hedging) or to take on risks intentionally. The derivatives markets allow enterprises, for example, to separate the operational policy risks of an investment from the interest rate risk so as to make operating performance less dependent on factors outside their sphere of influence. They allow banks – whose interest rates on their assets are typically locked in for a longer period than those

Significance of derivatives from a microeconomic ...

¹ Owing to the strong leverage effect of derivatives, these figures do overstate the importance of the futures market, however.

² Source: central bank survey. See Bank for International Settlements (BIS), Triennial Bank Survey: Foreign Exchange and Derivatives Market Activity, March 2002 and various issues of BIS, *Quarterly Review*.

³ Deutsche Bundesbank, The monetary policy implications of the increasing use of derivative financial instruments, *Monthly Report*, November 1994.

⁴ The survey covered 368 large and medium-sized enterprises outside the financial sector. The response ratio was around one-third. See G M Bodnar and G Gebhardt, Derivatives Usage in Risk Management by U. S. and German Non-Financial Firms: A Comparative Survey, Centre for Financial Studies, Working Paper, 98/17, Frankfurt 1998

on their liabilities – to hedge against interest rate risks. Portfolio managers can manage their portfolios' dependency on individual risk factors more quickly, more precisely and more cost-effectively than would be possible by means of adjusting their securities portfolios.

duced. With rare exceptions, the majority of the early derivatives involved commodities contracts. Financial derivatives, which nowadays account for most of all forward transactions, did not make a breakthrough until the 1970s.

... and a macroeconomic perspective Derivatives complete the financial markets by making risk factors tradeable. From a macroeconomic perspective, tradeability, in turn, is a precondition for the efficient allocation of risks. For that reason, derivatives are likely, in principle, to contribute to a higher rate of growth, even though the importance of that fact is difficult to quantify. This fundamentally positive impact, however, should not obscure our view of the risks that may arise from the use of derivatives. This point will be dealt with in greater depth towards the end of this article.

The market for interest rate derivatives

Early derivatives markets

The existence of derivatives markets has been recorded since early modern times. ⁵ As early as the 17th century, shares were sold and bought at a forward date and even share options were traded. ⁶ Trading of forward contracts on rice is also recorded in Japan in the 17th and 18th centuries. The basic features of modern derivatives exchanges emerged during the second half of the 19th century on the Chicago commodities exchanges. That was where quantities and prices were standardised for the first time, margin calls were regulated and the possibility of fulfilling contracts by means of offsetting trades rather than delivering the underlying was intro-

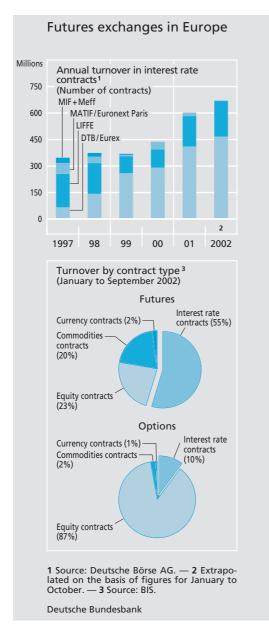
Although the first currency swaps appeared as early as the 1960s, they were used mainly to circumvent British capital controls and were thus of minor importance at first, especially as a world monetary system in which exchange rates were fixed meant that there was a limited need to hedge against exchange rate fluctuations. This situation only changed when the Bretton Woods system was replaced by free exchange rates in the early 1970s, leading to a sudden sharp increase in the demand for hedging instruments. That is the background to the success of the first exchange-traded currency future, which was introduced on the International Money Market of the Chicago Mercantile Exchange (CME) in 1972. Interest rate futures were first traded on the Chicago Board of Trade (CBoT) trading floor in October 1975 and were based on US mortgage bonds. In the end, these contracts gained no more than minor importance, mainly on account of the low level of standardisation in the potential underlyings. The futures (which were introduced shortly afterwards) on three-month CME Treasury Bills and long-term CBoT Treas-

Following tentative beginnings in the 1960s ...

... breakthrough of financial derivatives in the 1970s

⁵ There may have been futures contracts as long ago as antiquity. On the history of derivatives, see D Duffie, Futures Markets, Prentice-Hall, 1989 and F Allen and D Gale, Financial Innovation and Risk Sharing, MIT Press, 1994.

⁶ See Joseph de la Vega, Confusion des Confusiones, 1688, translated by H. Kellenbenz, No 12 (1987), The Kress Library Series of Publications, Harvard University.



ury Bonds enjoyed greater success, benefiting from the dramatically increased interest rate volatility towards the end of the decade. It was in this setting that, in the early 1980s, the basic idea of currency swaps (which had now clearly gained in significance) was also transferred to the field of interest rates. Instead of payments in different currencies, the counterparties swapped interest payments on a given principal amount – mainly fixed pay-

ments for payments linked to a short-term interest rate.

Even though options had been known for centuries, the role they played was a marginal one until the 1970s. This was due, in particular, to difficulties in terms of valuation which made trading with options a risky undertaking. A crucial boost was given to the option markets by the development of the Black-Scholes model, which – despite its restrictive assumptions – is nowadays still the basis for the valuation of options. In 1973, the year in which the groundbreaking article by Black and Scholes was published, options on individual shares were introduced on the Chicago Board Option Exchange (CBOE). Index and interest rate options followed ten years later.

In Europe, it was only in the 1980s that the market for derivatives gained a firm foothold. Milestones in this respect were the establishment of the British derivatives exchange LIFFE in 1982, the French futures exchange MATIF in 1986 and the German Financial Futures Exchange DTB in 1989. In Germany, the establishment of a liquid futures market had been impeded, among other things, by existing legislation – a situation that was remedied only as part of the 1989 amendment of the Stock Exchange Act. 8 The comparatively late start of the DTB was one reason for interest rate

Options

European futures exchanges

⁷ F Black and M Scholes, The Pricing of Options and Corporate Liabilities, *Journal of Political Economy*, Vol 81, 1973, pp 637-654.

⁸ The amendment of the Stock Exchange Act (Börsenge-setz) included new provisions concerning the capacity to enter into forward contracts. Before 1989, forward contracts by private investors had been classified as gambling or betting, which meant that liabilities arising from them were void. The amended version of the Stock Exchange Act removed the legal basis for related difference pleas.

derivatives denominated in Deutsche Mark being traded, initially, mainly on the LIFFE in London. It was only during the 1990s that a large part of trading shifted to Frankfurt. This mostly concerned the long-term segment of the market, especially the future on ten-year Federal bonds (Bund future). By contrast, the LIFFE has been able to maintain its market position in money market contracts.

LIFFE has been able to mainta position in money market contr

Exchange concentration in the euro area

European monetary union has brought a fundamental change to the European derivatives landscape. This has affected not only the foreign exchange field but also, in particular, interest rate derivatives. Following the elimination of the foreign exchange risk, the differences in yields among the individual participating countries have been reduced to a minimum.9 A position in, say, Spanish bonds can now be hedged by a matching position in the Euro-Bund future, even though the latter is actually based on German Federal bonds. Although this hedging strategy is not entirely without risk - the price of the future and the price of the Spanish bond may still drift apart – that risk is generally offset by the higher liquidity of the Bund contract. European monetary union has thus been accompanied by a concentration of trading in euro-denominated bond contracts on the Eurex (the successor to DTB), while the LIFFE has strengthened its dominant position in the money market. Among the other national futures markets, only the French MATIF was initially able to defend its market share, while interest rate business activity on the Italian and Spanish derivatives exchanges (MIF and Meff, respectively) has virtually come to a standstill. 10

Between January and September 2002, 1.6 billion futures contracts and 1.7 billion options were traded worldwide on the futures exchanges. In the case of futures, 55% of turnover was accounted for by interest rate derivatives, 11 followed by equity and commodities contracts at 23% and 20%, respectively. By contrast, foreign exchange futures were of very minor importance at 2 % of overall turnover. In the case of options, equity options were clearly to the fore at 87 % of turnover. Interest rate options were of no more than secondary importance with a market share of 10%. At the end of September 2002, the nominal value of all open interest rate futures amounted to US\$10 trillion, while that of interest rate options was as much as US\$16 trillion. 12

The growing popularity of futures exchanges when compared with the cash market may also be explained by the lower capital required. Price gains and losses are first offset on an internal exchange account. It is possible to sell the contracts short without – as on the

of exchangetraded derivatives

Turnover and nominal values

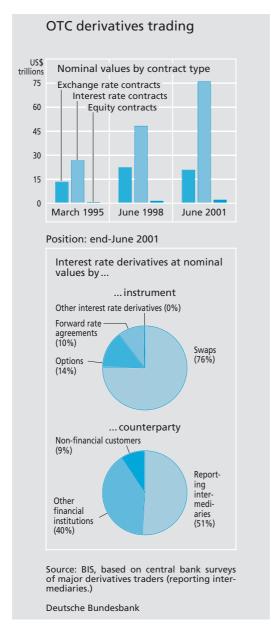
Organisation of futures exchanges

⁹ In the case of integrated markets, differing nominal rates of interest on government bonds denominated in the same currency can be explained mainly by differences in financial standing and liquidity from one country to another. See Deutsche Bundesbank, International integration of German securities markets, *Monthly Report*, December 2001

¹⁰ For an analysis of the impact of European monetary union on the derivatives exchanges, see W Schulze and R Violi, Interactions between Cash and Derivatives Bond Markets: Some Evidence for the Euro Area, BIS Paper No. 12

¹¹ Measured by the number of contracts traded.

¹² Source: BIS Quarterly Review, December 2002. It is not possible to make a direct comparison between the nominal values of interest rate derivatives and the nominal values of other contracts. At the end of September 2002, for example, the nominal value of all equity options and share index options was no more than US\$1.8 trillion, despite the fact that turnover was much higher.



cash market – first having to borrow the matching paper. As a rule, open positions are closed by offsetting trades shortly prior to maturity and the account is squared; fulfilment of futures contracts by delivery of the underlying is the exception. Since interest rate futures are mostly based on a notional bond, ¹³ the delivered paper is converted into the underlying in accordance with a specified key. The conversion factor depends on the

maturity and interest rate of the paper that is actually delivered and the extent to which they differ from the notional bond on which the contract is based. 14

In contrast to the traditional cash exchanges, the market players on the futures exchanges conclude contracts with a central counterparty and not among themselves. ¹⁵ This has the advantage that transactions do not have to be unwound if one party does not fulfil its obligations. In order to hedge against that eventuality, the exchange demands a margin, which is adjusted to the market situation on a daily basis. If market players are unable to meet their resulting margin call, their positions are liquidated by offsetting trades.

The high degree of liquidity of listed derivatives is made possible by a large measure of standardisation of the contracts. Tailor-made instruments, on the other hand, are traded over the counter, as are those for which the margin system (for a variety of reasons) is impracticable. This last-named category includes swaps, for example, for which regularly recurring interest payments – but not principal amounts – are exchanged. In the past few years, the OTC market has witnessed even faster rates of growth than the futures exchanges. At the end of June 2001, the nom-

Strong growth in OTC derivatives trading

¹³ Futures on money market rates, which are based on a reference interest rate, such as the three-month Euribor, are an exception. These contracts are fulfilled exclusively by cash settlement.

¹⁴ The calculation of the conversion factor is described, for example, in M Steiner and C Bruns, *Wertpapiermanagement*, Schäffel Poeschel, 2000.

¹⁵ The Eurex-type model with a central counterparty and regulated margin calls is to be extended to the XETRA trading system this March. This means that the structure of the cash and futures markets will move into line with each other in this respect.

inal value of all open OTC interest rate contracts, at US\$76 trillion, was more than four times higher than that of listed interest rate derivatives (US\$17 trillion). ¹⁶ Interest rate swaps accounted for three-quarters of that amount, with 14% being options and 10% forward rate agreements.

dom (35%) and the United States (17%). Taking into account solely derivatives denominated in euro (just under half of the turnover in all interest rate contracts), German institutions have a market share of 22%.

Key role of investment banks as intermediaries

The vast majority of OTC derivatives transactions take place between internationally operating banks or other financial institutions. The market is very concentrated: just over half of all transactions in OTC interest rate derivatives takes place among some 60 institutions, of which seven are in Germany. In some areas, there are only a handful of players that account for the majority of turnover. Less than 10% of OTC transactions in derivatives is conducted with end customers outside the financial sector. This stands in sharp contrast to conditions in the early 1980s, when swap transactions were conducted mainly between non-financial enterprises. At that time, the banks largely confined themselves to acting as brokers and did not themselves contract open positions. Under such circumstances, the users of derivatives often found it difficult to make a correct assessment of their counterparties' financial soundness. The market for OTC derivatives was therefore able to develop properly only when the banks increasingly began to act as intermediaries conducting transactions for their own account with the end customers.

Impact on price formation and liquidity

Owing to the low capital input and the possibility of selling short without major expenditure, derivatives are suitable not only as instruments for hedging against interest rate risks but also as a way of deliberately contracting speculative positions. A recently published Bundesbank research paper 17 on the price relationship between German Federal bonds and the Bund future shows that the vast majority of information is "priced in" on the futures market. In turbulent times, the processing of information takes place entirely on the futures market, in fact, and the prices for ten-year Federal bonds follow the future without contributing to price discovery. The highly liquid futures contracts, in particular, thus have a kind of price leadership over the underlying, the prices of which adjust to the prices on the futures market.

Information leadership of the futures market

The impact of derivatives on the liquidity of the cash market is ambiguous. As a rule, market players can hedge more cost-effectively or contract speculative positions more easily by using derivatives than by investing in debt Derivatives and market liquidity

Germany in third place With 14% of the overall transaction volume, Germany occupies third place in interest rate derivatives trading behind the United King**16** See Bank for International Settlements, Triennial Central Bank Survey, Foreign Exchange and Derivatives Market Activity in 2001, March 2002, Table E.39.

17 C Upper and T Werner, Tail Wags Dog? Time-Varying Information Shares in the Bund Market, Discussion paper 24/02, Economic Research Centre of the Deutsche Bundesbank, October 2002.

Liquid derivatives market is a precondition for benchmark function transactions from the cash market. The same applies to investors using futures for the purpose of acquiring bonds. Neither case necessarily results in the underlyings having a reduced market liquidity, however. This is because a futures market not only attracts transactions - it also creates new trading opportunities in the underlying securities. For example, traders in derivatives use the cash market to hedge against the risks arising from derivative transactions. Moreover, a category of securities may become more attractive overall if a liquid derivatives market is available for hedging. Thus, Federal securities owe their benchmark status on the euro-area bond market not least to the matching futures contracts having the function of major hedging instruments for long-term interest rate risks in the euro zone. According to one study, the market rewards the status of a bond as "cheapest to deliver", 18 ie as the actual underlying, in the case of the Bund future with a yield discount of just under three basis points. 19

securities. The futures market thus withdraws

Futures markets and price volatility Operations that might otherwise be unprofitable may be conducted on the futures market since the transaction costs are lower. The effect of such transactions on price formation depends on the level of information of the players involved. Poorly informed investors who use capital investments like a lottery increase uncertainty and thus have a destabilising impact. However, investors of this type tend to make a loss in the long run and can therefore be displaced from the market. ²⁰ Arbitrageurs can systematically generate a profit only if they buy at low prices and sell at

high prices. Rational speculation therefore has a stabilising effect on the markets and thus tends to reduce volatility.

In addition to these basic considerations, derivatives have certain properties which may have a destabilising impact. It has been repeatedly observed, for example, that, shortly before a future matures, market players systematically buy up the underlying bond in order then to throw the hoarded paper on to the market at a profit. Unfortunately, it is not known whether this strategy met with success. What is certain, however, is that the resulting shortage of the underlying was only temporary and that there were no delivery problems upon the maturity of the futures contracts.²¹

In contrast to futures, the payout structure of options is asymmetrical. Options thus provide investors with more extensive hedging opportunities than do pure forward contracts. For example, the holder of a call option on a bond cannot only hedge against price losses – ie an interest rate rise – but also benefit

Delta hedging and the impact of options

¹⁸ Although several bonds are deliverable in the case of the Bund future, the fulfilment of the contractual obligations by means of a specific bond is generally cheaper than using the other paper. This bond is frequently described as "cheapest to deliver" or "ctd".

¹⁹ R Blanco, Euro Area Government Securities Markets: Recent Developments and Implications for Market Functioning, Bank for International Settlements, BIS Paper No 12, 2002.

²⁰ However, there are some counter-examples in which uninformed players survive rational investors. See J B De Long, A Schleifer, L A Summes and R J Waldmann, Noise Trader Risk in Financial Markets, *Journal of Political Economy*, 98 (4), pp 703-738, 1990 and The Survival of Noise Traders in Financial Markets, Journal of Business, 64 (1), pp 1-19, 1991.

²¹ See W Schulte and R Violi, Interactions between Cash and Derivatives Bond Markets: Some Evidence for the Euro Area, BIS Paper No 12, 2002.

Derivative prices and delta hedging

In order to gain a better understanding of the price relationship between cash and futures markets and of delta hedging, it is useful first to recall some basic features of price formation in interest rate contracts and the valuation of interest rate options. Market players' arbitrage operations ensure a close parallel movement of prices in the cash and futures markets. Ignoring transaction costs, the price of a bond future F corresponds to the price of the underlying B plus the financing costs up to the maturity of the future: 1

$$F = B (1 + r).$$
 (1)

If this condition is not met, arbitrage opportunities open up, the use of which drives prices towards their equilibrium values. If futures prices are too high, ie F > B (1 + r), an investor might sell a future for, say, €F and buy a bond for €B. The investor first lends this as part of a repo at an interest rate r and then delivers it when the future matures. Futures prices which are too high (or bond prices which are too low) thus lead to selling on the futures market and to buying on the cash market. The opposite case of futures prices which are too low, ie F < B (1 + r), also provides arbitrage opportunities, the use of which ultimately drives prices towards their equilibrium values. In this instance, the arbitrageur has to borrow bonds on the repo market and sell them immediately. At the same time, the arbitrageur buys futures and fulfils his obligations arising from the repo with the debt securities delivered when the futures contract matures. 2

The valuation of interest rate options and the associated delta hedging are much more complicated than the replication of futures. We shall therefore describe them briefly using a simplified example. Let us assume that the price of a bond is currently €100 and may, in the next period, either rise to P_H = €110 or fall to P_L = €90. Let us now look at the case of a purchase option on the bond with a price of S=100. The buyer of this derivative acquires the right to purchase the bond in the next period at a price of €100 − irrespective of how prices develop

1 In practice, r is a rate for repo transactions. — 2 The arbitrage relationship between futures and bonds described here is a simplification. In practice, transaction costs are incurred and different bonds can be delivered which are converted using a conversion factor. For details, see H Diwald, Zinsfutures und Zinsoptionen, Munich, 1999. — 3 The hedge portfolio, consisting of a long position in a bond and a short position in the option, guarantees a secure

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on the cash market. If the price of the bond rises to $P_H = \in 110$, the purchaser of the option makes a profit of $\in 10$. If bond prices fall, the option is worthless, however, and is not exercised.

For the option writer, a price rise on the cash market represents a risk which he can hedge against by purchasing bonds. The number of bonds needed for this is usually denoted by the Greek letter Δ , which is where the term "delta hedging" comes from. In the above example, the option writer therefore first buys bonds to the value of ∆x€100. If there is a rise in price on the bond market, the value of the bond portfolio increases to ∆x€110. This is matched by a payment obligation, arising from the sale of the option, amounting to $OP_H= \in 10$. Although, if the price falls, the option writer receives only ∆x€90 from the sale of the bonds, he does not have to pay anything to the buyer of the option, ie OP_L=0. The option writer can thus select Δ so that the value of the hedge portfolio, less the payments from the option, is independent of the future price of the bond. In the example, this would be the case if $\Delta x P_H$ - $OP_H = \Delta x P_L$ - OP_L . This implies a

$$\Delta = (OP_H - OP_L)/(P_H - P_L) = 10/20 = \frac{1}{2}$$
.

The commonly used option price models are based on delta hedging. ³

In practice, the hedge portfolio has to be adjusted continuously to current price developments. This can be explained by extending the above example. Let us assume that the price of the bond rises in the second period to \in 110 and, in the third period, can then either go up by another \in 10 to \in 120 or go back down to \in 100. The option payout would then amount to \in 20 or \in 0, which would correspond to Δ =1. The adjustment of the hedging portfolio over time is also called "dynamic hedging". The example shows that this involves a positive feedback between the price change of the underlying (bond) and the hedging operations. ⁴

payment in the next period. Its current price should therefore correspond to the price of a risk-free bond with an identical payoff. This means that the price of the option can then be determined. — 4 For a more detailed description of delta hedging in continuous time and the corresponding Black-Scholes model, see John C Hull: Options, Futures, and other Derivatives, Prentice-Hall, 1997.

Derivatives and interest rate uncertainty on the bond market

The potential impact of derivatives on interest rate uncertainty on the bond market is studied below using the example of the Bund future. To do this, the yields of underlying Federal bonds are modelled using a GARCH(1.1) approach. A dummy variable in the regression for volatility provides information on the extent to which the introduction of the future contract on Federal bonds has affected interest rate uncertainty.

In the model regression, the yield outstanding on Federal bonds deliverable on the Eurex i_t is modelled as a first-order autoregressive process AR(1):

$$i_t = \beta_0 + \beta_1 i_{t-1} + \varepsilon_t.$$

The conditional variance of the disturbance item ϵ_t corresponds to the interest rate uncertainty. This is denoted as h_t and is modelled by the following variance equation:

$$h_t = \alpha_0 + \alpha_1 \, \epsilon^2_{t-1} + \alpha_2 \, h_{t-1} + \gamma_1 t + \gamma_2 d_t.$$

The introduction of the Bund future on the German Futures Exchange on 23 November 1990 1 is characterised by a dummy variable $d_{\rm t}$, which assumes the value of zero before that date and the value of one thereafter. A positive and statistically significant coefficient γ_2 then indicates an increase in volatility brought about by the future and a negative coefficient shows a reduction in interest rate uncertainty by the future. A time trend t was included in order to separate the impact of the derivatives market from other long-term effects on interest rate uncertainty. The GARCH model was estimated using daily data over the period from the start of 1978 to the end of 2001. The results are shown in the table below:

Parameter	Estimate	Significance level		
Level equation β_0 β_1	- 8.2 * 10 ⁻⁴	0.74 0.00		
Variance equation α_0 α_1	3.18 * 10 ⁻⁵ 0.06	0.00 0.00		
α ₂ Υ1 Υ2	0.93 1.61 * 10 ⁻⁶ -7.30 * 10 ⁻¹⁰	0.00 0.73 0.54		

The estimation results show a high degree of persistency of the yield outstanding in both the level (β_1 = 1) and the volatility (α_1 + α_2 = 0.99). The parameters γ_1 and γ_2 are both extremely small and statistically insignificant. Thus, neither a trend movement in interest rate uncertainty nor an influence of the introduction of the Bund Future can be demonstrated. ²

1 The results remain largely unchanged if the estimates are based on the introduction of the Bund Future on the LIFFE on 29 September 1988. — 2 It has been possible to show comparable results for the US market for Treasury bonds and the related futures contracts. See S P Hedge, The Impact of Futures Trading on the Spot Market for Treasury Bonds, *The Financial Review*, 29, pp 441-471, 1994.

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from price gains. On the other hand, in order not to enter into an incalculable risk, the issuer of the option has to adjust his portfolio continuously. This is referred to as "dynamic" or "delta" hedging (see explanatory notes on page 39). Such hedging operations can amplify price movements since underlyings are sold if prices are falling and purchased when prices are rising. They have a particularly destabilising impact if the exercise prices of options are concentrated on certain threshold values. The overshooting of such a threshold may then lead to a chain reaction, resulting in extreme price fluctuations. For the United States, it has been possible to show that such hedging operations may also distort the term structure of interest rates.²²

The question as to whether futures markets increase or reduce volatility is therefore an empirical one. An econometric study of the yield development of ten-year Federal bonds based on daily data for the period from 1978 to 2001 shows that the introduction of the Bund future had no demonstrable effect whatsoever on the volatility of German bond yields (see the adjacent explanatory notes). Independently of this, however, each investor has the possibility of using interest rate derivatives to change his individual interest rate risk.

Bund future and interest rate uncertainty

²² See J Kambhu and P Mosser, The Effect of Interest Rate Options Hedging on Term-Structure Dynamics, *Economic Policy Review*, Federal Reserve Bank of New York, 2001.

Effects of the increasing use of derivatives

Monetary policy implications

1994 assessment largely confirmed The above-mentioned Monthly Report article on the monetary policy implications of interest rate derivatives, which was published in 1994, came to the conclusion that the existence of derivatives does not affect the central bank's ability to influence interest rates on the money market. Changes in the scale and speed with which monetary policy measures impact on the real economy were conceivable, however. On the whole, however, monetary policymakers could, if anything, take a relaxed view of the increasing use of derivative instruments. From the current perspective, this assessment has been confirmed. It is only on isolated points that the conclusions drawn in 1994 have to be modified somewhat.

Changes in the monetary policy transmission process

Although the existence of interest rate derivatives does not reduce the central bank's ability to control short-term interest rates, the use of such instruments can lead to changes in the monetary transmission process. In this context, it is not possible, however, to separate the impact of derivatives from that of other changes in the structure of the financial system. For instance, the securitisation of large parts of the banks' balance sheets means that credit institutions are more dependent on interest rates - something which banks can, in turn, contain by the use of derivatives. In the final analysis, however, derivatives can only spread risks - not eliminate them. In every transaction, there is a counterparty which accepts the traded risk. This does not necessarily have to be a domestic bank. Risks may also be transferred to other institutions, say, to insurance companies, or to another country, which means that the transmission of monetary policy stimuli through the domestic banking sector will tend to become weaker.

Of the various monetary policy transmission channels, the credit channel – which is based on frictions in lending to enterprises – is likely to be especially affected by the use of derivatives. That is because derivatives enable firms to hedge against rising interest rates (and thus also against price losses in their loan collateral). For the transmission process, this means that the credit channel is becoming less effective. ²³ However, in Germany and the euro area as a whole, the credit channel plays a secondary role to the interest rate channel in any case. A further weakening is therefore likely to be of very little relevance to monetary policy.

With the exception of currency swap arrangements, no major central bank at present uses derivatives as an instrument of monetary policy. Nevertheless, the central bank could, in theory, use derivative contracts (such as forward rate agreements or options) to influence longer-term interest rates. However tempting it might seem to use derivatives for that purpose, such operations would be fraught with enormous risks. It would mean the central

Credit channel less important

Derivatives as monetary policy instruments ...

bank tying its own hands and committing it-

²³ See I Fender, Corporate Hedging: The Impact of Financial Derivatives on the Broad Credit Channel of Monetary Policy, BIS Working Paper No 94, November 2000.

self over an extended period to a given interest rate path, which would be very costly to leave. In particular, adopting such a strategy would make it all but impossible to respond appropriately to future shocks. For that reason, interest rate derivatives have no place in the set of monetary policy instruments. It is only in extreme situations – such as in a persistent deflation – that a central bank might find it useful to be able to commit itself to a specific interest rate path by using derivatives.²⁴

... and indicators

Even though derivatives are hardly suited to be monetary policy instruments, the heightened information efficiency of the market associated with them can be used for monetary policy purposes. Derivatives prices provide many different kinds of data about market players' expectations. This information enables the central bank to form a more nuanced judgement of the impact of monetary policy measures.²⁵ As information is "priced in" mainly on the futures market, futures are fundamentally better indicators than are bonds. The close arbitrage relationship between the cash and futures markets ensures that identical information can be observed in both market segments after only a few minutes.²⁶ In monetary policy practice, it is therefore irrelevant which market is being analysed.

Stability of the financial system

Concentration of OTC derivatives trading

Potential risks to the stability of the financial system are primarily associated with OTC derivatives trading since it is concentrated on a comparatively small number of intermediaries with a diverse presence in the various market segments. As things stand at present, there are no empirically corroborated findings on the impact that the sudden collapse of a major market maker can have on financial system stability. There are indications, however, that the derivatives markets are sufficiently liquid to allow the unwinding of sizeable positions without causing major dislocations. More problematical than the collapse of individual institutions, however, is a critical situation that affects several institutions at once. The events of September and October 1998 show that, under such circumstances, the limits of the markets' resilience may soon be reached.²⁷

In addition to its high degree of concentration, the lack of transparency on the OTC derivatives market gives cause for concern. The accounting of many market players has not kept pace with innovation on the financial markets. In Germany, derivatives, as a rule, are shown on the balance sheet only upon their maturity. Before that they are deemed to be uncompleted transactions, which do not appear on the balance sheet and are mentioned, if at all, only in the notes on the annual accounts. In other countries, banks

Lack of transparency in OTC activity ...

²⁴ See P A Tinsley, Short Rate Expectations, Term Premiums, and the Central Bank Use of Derivatives to Reduce Policy Uncertainty, Finance and Economics Discussion Paper 1999-14, Federal Reserve Board, Washington DC, 1999.

²⁵ See Deutsche Bundesbank, The information content of derivatives for monetary policy, *Monthly Report*, November 1995.

²⁶ See C Upper and T Werner, How Resilient Are Financial Markets to Stress? Bund Futures and Bonds During the 1998 Turbulence, Bank for International Settlements, BIS Papers No 12, 2002.

²⁷ See Deutsche Bundesbank, The impact of financial market crises on the German securities markets, *Monthly Report*, April 2000.

... and complicated valuation ...

... make it difficult to assess counterparty risks

Considerable demands on market players

Consequences for banking

supervision

balance sheet, but the associated information value is limited by the considerable scope for discretion that is available and by rights to opt for an alternative procedure. ²⁸ A further difficulty in the accounting of OTC derivatives is the lack of an observable market price at which open positions can be valued. While there are recognised pricing models for "plain vanilla" products, such as simple swaps or options, the valuation of complex derivatives is often hard to follow. For the reasons cited, it is difficult for outsiders to assess the financial situation of the major players in the derivatives markets.

can show their derivatives activities on the

The sometimes very high degree of complexity of OTC derivatives makes considerable demands on the market players. With newly introduced instruments, in particular, there is no guarantee that their risk profiles are really always properly understood. For example, owing to errors, a number of major multinational companies have suffered significant losses when using derivatives.²⁹

The German banking supervisors reacted at an early stage to the increasing use of derivatives. Credit institutions have had to include derivatives in their reports to the Bundesbank since as long ago as 1986. Since October 1990, open positions in derivatives have had to be backed by capital.³⁰ Derivatives are not treated fundamentally differently from other financial assets. In the case of interest rate derivatives, this is of particular relevance to the capital requirements for market risks, which, since 1996, have applied to the bank's portfolio as a whole. This means

that the market price risks of derivatives positions and the price risks of securities can be offset against each other if they run in different directions. The use of derivatives for hedging purposes thus lowers the prudential capital requirements, while the incurrence of additional risks through derivatives increases them.

Closing remarks

The financial system has become far more complex over the past few decades. The growing number of financial instruments means that it is possible to split up risks into ever finer individual factors and trade them. The increased use of derivatives is a key feature of this development. This may produce changes in the monetary policy transmission process, although such changes have thus far stayed within narrow and manageable bounds. Overall, from the perspective of the monetary policymakers, this is likely to be outweighed by the information advantages. Less easy to predict, by contrast, are the risks to the stability of the financial system resulting from transactions being concentrated on a small number of banks, insurance companies and securities firms active in OTC de-

²⁸ See L Schirmer, *Die Rechnungslegung von Finanzderivaten bei Banken in Deutschland, Japan und USA*, Deutscher Universitätsverlag, 2000; regulations on the accounting and valuation of financial derivatives may be found in, for example, IAS 39 of the International Accounting Standards Board and in the US Financial Accounting Standard (FAS) 133.

²⁹ A short list of these may be found in G J Schinasi, R S Craig, B Drees and C Kramer, Modern Banking and OTC Derivatives Markets, International Monetary Fund, Occasional Paper 203, 2000, p 28.

³⁰ See Deutsche Bundesbank, Off-balance-sheet activities of German banks, *Monthly Report*, October 1993.

rivatives trading. Much the same applies to the lack of transparency in such trading. Clear, internationally harmonised accounting standards are needed so that the players can make a better assessment of their counterparty risks. The accounting of derivatives at their "fair value" in accordance with IAS 39 is a step in that direction. In the interests of greater transparency and valuation certainty, the available scope for discretion and rights to opt for an alternative procedure in the accounting of derivatives should be reduced to an absolute minimum.

The new "Minimum requirements for the credit business of credit institutions" and Basel II

In September 2000 the Basel Committee on Banking Supervision published its "Principles for the Management of Credit Risk", which identified concentrations of risk and weaknesses in lending and loan monitoring processes in credit institutions as the most frequent causes of problems in credit business. This is confirmed by the recent difficulties being faced by individual credit institutions.

On 20 December 2002 the Federal Financial Supervisory Authority, or FFSA (Bundesanstalt für Finanzdienstleistungsaufsicht, BaFin), published a set of "Minimum requirements for the credit business of credit institutions", 1 which define qualitative standards for organising credit business.

The new international capital adequacy requirements (Basel II), which will probably enter into effect at the end of 2006, likewise contain qualitative rules for the credit business of those institutions which use internal rating methods for measuring credit risk. The "Minimum requirements" and the lending rules under Basel II are largely congruent with one another.

Both sets of rules are ultimately designed to contribute to the soundness of credit institutions and thus also to promoting the functional ability and the stability of the German banking system.

¹ In German: *Mindestanforderungen an das Kreditgeschäft der Kreditinstitute,* or *MaK;* hereinafter referred to as "Minimum requirements".

Scope of application and main features of the "Minimum requirements"

Regulatory motives

The "Minimum requirements" represent a step towards qualitative banking supervision since supervisors are now paying greater attention to credit risk management besides other factors such as the institutions' capital base and their compliance with the rules governing the disclosure of the borrower's financial situation, rules governing loans to managers and the like, and large exposure limits. In this regard the "Minimum requirements" complement the "Minimum requirements for the trading activities of credit institutions"² which were published back in October 1995 and the "Minimum requirements for the internal audit function of credit institutions"3 published in January 2000.

The "Minimum requirements" mirror the best practices of well-managed credit institutions regarding the organisation of credit business. A key aim was to create a set of practical minimum requirements that are also compatible with the limited resources available to smaller banks.

Entry into force and transitional arrangements The new "Minimum requirements" entered into force with the publication of circular 34/2002 (BA). At the same time, credit institutions have been given until 30 June 2004 to implement these requirements (first stage of implementation). Necessary adjustments in the IT area have to be implemented in a second step by 31 December 2005.

With its circular on the "Minimum requirements", the FFSA has given concrete shape in

respect of credit business to the provisions of section 25a (1) of the Banking Act, according to which credit institutions are subject to special requirements regarding a proper business organisation, risk controlling and the monitoring of their banking business.

The "Minimum requirements" apply to all credit institutions in Germany, including branches located abroad. They do not apply to branches of enterprises domiciled in another country of the European Economic Area pursuant to section 53b of the Banking Act. In principle, all exposures within the meaning of section 19 (1) of the Banking Act (asset items and off-balance-sheet transactions entailing a counterparty risk) and all transactions with country risk fall within the scope of application of this circular. The requirements of this circular apply by analogy to trading activities, in accordance with the "Minimum requirements for the trading activities of credit institutions", as well as to participating interests. By selecting the extended credit definition of section 19 (1), the "Minimum requirements" are consistent with the definition of credit risk usually applied

Banking supervisors place special emphasis on creating a proper credit risk environment within which credit business activities can develop. Credit institutions are therefore required to impose their own framework conditions for ensuring a proper and suitable or-

internationally for regulatory purposes.

Legal basis and scope of application of the "Minimum requirements"

Framework conditions for credit business

² In German: Mindestanforderungen an das Betreiben von Handelsgeschäften der Kreditinstitute, or MaH.
3 In German: Mindestanforderungen an die Ausgestaltung der Internen Revision der Kreditinstitute, or MaIR.

ganisation of credit business and for creating procedures to identify, manage and monitor credit risk as well as to implement them internally. The framework conditions are to be defined for each specific institution and should take account of each institution's individual situation such as size, complexity, the focus of its operations and its ability to sustain risk.

One example of such framework conditions is the formulation of a credit risk strategy which defines lending activities over an adequate planning period. This strategy should be formulated taking into account the institution's ability to bear risk, an analysis of the business policy status quo and an estimate of the risks associated with the credit business. Internal organisational guidelines are another part of this framework. The "Minimum requirements" list areas which expressly need to be regulated by the institution, such as

- the allocation of tasks, the assignment of competencies and monitoring;
- the procedure for the timely risk assessment of the exposures, also in respect of any risk provisioning measures that might be necessary;
- risk classification procedures for assessing counterparty risk and, as appropriate, object/project risk;
- procedures for the early identification, management and monitoring of risks arising from credit business; and

Scope of application of the Minimum requirements for the credit business of credit institutions

Credit institutions

- within the meaning of section 1 (1) of the Banking Act (including branches of German credit institutions domiciled abroad)
- within the meaning of section 53 (1) of the Banking Act

Exposures

- within the meaning of section 19 (1) of the Banking Act (asset items and off-balance-sheet transactions entailing a counterparty risk)
- all transactions with country risk

Credit decisions:

All decisions on

- new loans
- overdrafts
- loan increases
- extensions
- changes in risk-relevant circumstances on which the lending decision was based
- definition of borrower-specific limits (including counterparty and issuer-related limits)
- participating interests

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 a procedure for the introduction of new types of products and the commencement of business activities on new markets.

The framework conditions have to be reviewed annually and amended as appropriate; they have to be documented logically and communicated within the credit institution.

By emphasising the overall responsibility of management, the "Minimum requirements" make it clear that, despite the division of managerial responsibilities prevalent in today's business world, all managers, regardless of the internal assignment of competencies, are collectively responsible for ensuring the orderly organisation of credit business and the proper management and monitoring

responsibility of management

of risks. Here the "Minimum requirements" pick up where the "Minimum requirements for the trading activities of credit institutions" and the "Minimum requirements for the internal audit function of credit institutions" left off.

Staff qualifications

The requirements concerning sufficient qualification of the staff who perform credit business relate not only to the staff active in lending decisions but to all staff involved in the various processes of the credit business chain. Adequate professional qualifications of the persons incurring, managing and monitoring the risks are of key importance. These requirements should be met by the careful selection of staff and by means of employee training measures.

Separation of functions

The rules governing the separation of functions in credit business are a core element of the "Minimum requirements". The key principle for organising the processes in credit business is the clear separation of the "front office" and "back office" functions, with the former defined as the area which initiates transactions. The separation of the two functions is to be observed all the way up to and including management level and also at deputy level (for exceptions see the section "Simplified rules" below).

The credit risk controlling function, which is responsible for independently monitoring portfolio risks and filing reports, is to be exercised by a unit not affiliated with the front office. The same applies to the units responsible for the development and quality of credit business processes and for the development,

quality and monitoring of the implementation of risk classification procedures.

The involvement in the credit decision of a unit independent of the initiators of the transaction is a key element of the rules governing the separation of functions. The establishment of a credit risk controlling unit not affiliated with the front office is designed to increase the transparency of credit decisions and their effects and thereby to eliminate weaknesses in the identification of credit risk and in credit risk management which in some cases still exist.

Another key requirement, in keeping with the separation of the front office and back office functions, is that each credit decision necessitates a vote by a unit independent of the front office as well as by the front office. The vote of the back office is the deciding factor. This should also be reflected in the assignment of competencies and, in the case of a split vote, the subsequent escalation procedure (referral of the decision to the next higher level). The thinking behind the introduction of a two-vote rule was again to enhance the transparency of the credit transaction processes.

A different situation applies where one manager of an institution takes a credit decision within the defined scope of his individual decision-making authority. In that case the votes of the front office and back office may deviate from the manager's credit decision. These decisions, however, should be made transparent in the risk report.

Votes in a lending decision Simplified rules for low-risk business

For lending decisions relating to certain types of business or for lending transactions below certain thresholds which are to be defined under risk aspects (low-risk transactions), management may decide that only one vote is necessary. To that extent the organisational separation between front office and back office is only relevant to credit transactions in which the risk involved makes two votes necessary.

Risk classification procedures and early warning procedures Banks need to develop internal procedures for classifying their credit positions by riskiness. It is up to the banks to determine the precise design of their risk classification procedures. Meaningful and logical risk classification procedures for the initial, regular or ad hoc assessment of counterparty risk and, as appropriate, object/project risk must be established.

In addition, credit institutions have to set up early warning procedures which detect any deterioration in a borrower's creditworthiness at an early stage and enable the credit institution to take timely suitable measures to deal with the exposures in question. Such early warning procedures might include, for instance, the ongoing monitoring of current accounts. If, for example, a borrower's incoming payments deviate sharply from the usual chronological pattern, this would be an early warning indicator. Early warning procedures and risk classification procedures may be integrated in an overall risk system.

Identifying, managing and monitoring credit risk

On the basis of the risk classification procedure, banks need to implement procedures to identify, manage and monitor credit risk. As

part of the requested procedures, the "Minimum requirements" additionally prescribe a regular (at least quarterly) risk report. Management must then forward the report to the supervisory board. Regulators attach great importance to this report because, without a meaningful internal reporting procedure, management cannot assume its overall responsibility for the institution, especially for assessing the risk situation. The risk report should *inter alia* comment on the development of the loan portfolio, the volume and trend of new business, the development of risk provisioning or important credit decisions which deviate from the credit risk strategy.

Minimum requirements for internal rating systems under Basel II

The new Basel Capital Accord introduces qualitative and quantitative minimum requirements for banks' internal rating systems where these are required for measuring regulatory capital. Two internal ratings-based approaches (IRB approaches) exist, each of which requires approval. In addition, there is a regulatory Basel standardised approach for measuring the necessary regulatory capital for those credit institutions which do not use internal rating systems or whose internal rating systems have not been approved by regulators.

If the IRB approaches are used, the probability of default (PD), loss given default (LGD) and exposure at default (EAD), as well as the maturity, are estimated for every loan on the basis of the ratings. The regulatory capital reInternal rating methods recognised by regulators

Credit risk measurement approaches under Basel II

Method	Revised standardised approach	Foundation IRB approach	Advanced IRB approach
Rating	external	internal	internal
PD estimate 1	none	own estimate	own estimate
EAD estimate 2	none	defined by the supervisor	own estimate
LGD estimate 3	none	defined by the supervisor	own estimate
Maturity	not recognised	not explicitly recognised	defined by the supervisor
Application of risk-mitigating techniques for collateral and product characteristics	defined by the supervisor	defined by the supervisor (via LGD and EAD)	own estimate (via LGD and EAD)

1 PD: Probability of Default. — 2 EAD: Exposure at Default. — 3 LGD: Loss Given Default.

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quirement is calculated from these risk parameters and on the basis of a regulatory risk weighting function. The above table illustrates the evolutionary character of the new Basel approaches to measuring credit risk.

To be approved by regulators, internal rating systems need to meet the following basic criteria. These criteria, like the "Minimum requirements", are geared closely to current best practices for rating systems in the banking industry.

Structure of rating systems

The goal of internal rating systems is to achieve a meaningful differentiation of risks within the institution's loan portfolio. Internal rating systems should also provide clues regarding major risk drivers. Internal rating systems must therefore analyse, in two separate

dimensions, borrowers' creditworthiness and any collateral (two-dimensional rating system). In addition, internal rating systems should contain at least seven rating classes for non-defaulted loans and at least one rating class for defaulted borrowers. Rating systems should assess all important credit risks, but specific risk factors are not prescribed in detail. This therefore gives credit institutions extensive methodological leeway.

The rating process should ensure the objectivity and independence of the processes of assigning credit ratings and monitoring the rating system. In practice, this can be achieved either by assigning the rating process to a unit independent of the initiators of transactions, or by fully automated and objective rating systems which leave the customer ac-

Rating process

count staff no discretion to influence the rating result. The rating classification prescribed by the system can be changed at any time; however, changes must always be documented.

For methodological reasons it is additionally necessary for every borrower in an IRB portfolio to have a rating, and thus a PD, which is needed to calculate the required amount of regulatory capital. A further key requirement is that all borrowers be re-rated at least once a year to capture the current risk situation.

Corporate governance

The corporate governance rules encompass *inter alia* management's overall responsibility for the adequacy of rating systems and their correct use in internal borrower evaluation and risk management. Banks are also required to allow internal and external auditors to regularly audit the quality of rating systems and the adequacy of their use.

Banks' internal use of rating systems

If a bank has its own ratings, they must form an integral part of its internal management. Examples range from ratings-based lending decisions, assignments of competencies, limit systems and risk provisioning measures to credit risk-dependent remuneration systems. Rating systems conceived merely for regulatory purposes which are not simultaneously being used for internal risk management will not be approved.

The internal use of ratings is of key importance from a regulatory perspective. For one thing, it helps to improve internal risk management, thus promoting the stability of the banking industry. For another, credit institu-

tions, by using these ratings in their lending decisions, have a vested interest in the rating assessments being adequate and in the attendant intensive internal monitoring. The internal use of ratings for credit risk management thus also contributes to ensuring the adequacy of PD, LGD and EAD as risk parameters.

To obtain a comprehensive picture of the risk situation in credit business, internal stress tests based on ratings must be performed. The idea is to use these stress tests to help banks better understand the impact of negative conjunctural influences on their loan portfolios and to take the relevant precautionary measures on that basis.

Banks are required to use the uniform regulatory definition of default shown in the box on page 52 for quantifying the risk parameters PD, LGD and EAD. The uniformity of the definition of default is intended to ensure the comparability of the internally measured risk parameters. This uniformity is significant both for regulatory and for competitive reasons.

The forecast PD, LGD and EAD should, in addition, be calculated based on each banks' own internal loss history to ensure the adequacy of the risk parameters for that credit institution's specific portfolio and the rating system being used. If the bank's own loss history is not sufficient to estimate statistically

Stress tests

Risk quantification

Basel definition of default

A default is considered to have occurred with regard to a particular obligor when either or both of the two following events has taken place.

- The bank considers that the obligor is unlikely to pay its credit obligations to the banking group in full, without recourse by the bank to actions such as realising security (if held).
- The obligor is past due more than 90 days on any material credit obligation to the banking group. Overdrafts will be considered as being past due once the customer has breached an advised limit or been advised of a limit smaller than current outstandings.

The elements to be taken as indications of unlikeliness to pay include:

- The bank puts the credit obligation on non-accrued status.
- The bank makes a charge-off or accountspecific provision resulting from a significant perceived decline in credit quality subsequent to the bank taking on the exposure.
- The bank sells the credit obligation at a material credit-related economic loss.
- The bank consents to a distressed restructuring of the credit obligation where this is likely to result in a diminished financial obligation caused by the material forgiveness, or postponement, of principal, interest or (where relevant) fees.
- The bank has filed for the obligor's bankruptcy or a similar order in respect of the obligor's credit obligation to the banking group.
- The obligor has sought or been placed in bankruptcy or similar protection where this would avoid or delay repayment of the credit obligation to the banking group.

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valid risk parameters, 4 external or pooled data may also be used. 5

In order to allow the risk-mitigating effect of the financial and physical collateral recognised in the IRB foundation approach to be included in the calculation of the capital charge via regulatory LGD, banks must demonstrate that the collateral they have collected is of lasting value (eg by producing expert opinions to that effect). In addition, the bank's internal collateral management system must ensure the legal enforceability and a regular realistic valuation of the collateral.

Recognition of eligible collateral by regulators

Credit institutions which wish to use one of the IRB approaches must review the adequacy of their rating systems and risk parameters at least once a year. The banks will test the ability of rating systems to discriminate between high-quality and low-quality borrowers – if only out of self-interest. From a regulatory perspective, however, the absolute level of PD, LGD and EAD is even more important since they determine the amount of regulatory capital.

Validation of rating systems

Only one empirical default rate can be calculated per rating class per year – as the quo-

⁴ This may be the case, for instance, if no defaults exist in the very good rating classes or even in entire portfolios, or if smaller banks generally do not have enough defaults per year and rating class for statistical analyses.

⁵ In this connection, pooled data refer to the estimation of PD by pooling the loss histories of several credit institutions which use comparable internal rating systems. The internal data form at least part of the data pool used for the estimates. By contrast, external data denote a default data pool containing no data from the credit institution whatsoever. A textbook example of the latter is the mapping of internal ratings to the rating scales of external rating agencies such as Standard & Poor's or Moody's and the use of their default rates.

tient of the number of borrowers defaulting in the year in question divided by all borrowers in the rating class. Statistical tests which compare the forecast PDs to the actually observed annual default rates will probably have only limited informative value owing to the short empirical time series. Notwithstanding this, the Basel Committee is still working on the development of further prudential validation methods. However, even under the already proposed rules banks should still review their forecast PDs using annual default rates and adjust their forecasts for the future as appropriate.

Disclosure of rating information

Under Basel II, credit institutions seeking to qualify for one of the IRB approaches must disclose aggregated risk information (eg forecast and actual PD, LGD and EAD per rating class) in their annual accounts. These data can be used by market participants to obtain a clearer picture of the institutions' risk structure. However, information which would make it possible to infer information about individual borrowers and would therefore be problematic in terms of data protection may not be published.

The prudential character of the "Minimum requirements" and the IRB approaches under Basel II

The implementation of both the "Minimum requirements" and Basel II will improve credit institutions' credit risk management. Nevertheless, the "Minimum requirements" and the IRB approaches are fundamentally different in terms of their prudential character.

Whereas the "Minimum requirements" prescribe qualitative minimum requirements for the credit business of all credit institutions, the qualitative and quantitative minimum requirements of the IRB approaches are mandatory only for those institutions which have chosen to apply IRB approaches. The IRB approaches represent a further-reaching complement to a selected aspect of the "Minimum requirements" – the risk classification procedure.

For a bank to be able to use one of the two IRB approaches to calculate its regulatory capital, it has to submit an application for supervisory review followed by an explicit approval by supervisors. In contrast, the "Minimum requirements", as best practices, are regularly monitored at all credit institutions in the course of ongoing banking supervision. The relationship between the "Minimum requirements" and the IRB approaches is in many respects similar to the relationship between the "Minimum requirements for the trading activities of credit institutions" and banks' internal models for calculating the capital charge for market risk in line with the Basel Market Risk Paper of 1997. Both the "Minimum requirements for the trading activities of credit institutions" and the "Minimum requirements for the credit business of credit institutions" provide the necessary organisational basis for the correct use of internal models and procedures.

The monitoring of the "Minimum requirements for the trading activities of credit institutions" and the "Minimum requirements for the credit business of credit institutions", as

Parallels to trading book regulations

Supervisory Review Process (SRP)

Regulatory character of general minimum requirements and of minimum requirements for internal models

Regulatory requirements	Market risk	Credit risk	Scope of application
General qualitative process and organisational require- ments	Minimum requirements for the trading activities of credit institutions	Minimum requirements for the credit business of credit institutions	To be observed by all credit institutions Audited as part of the Supervisory Review Process (SRP)
Specific requirements for internal risk quantification models	Internal Value-at-Risk models for calculating market risk pursuant to Principle I	Internal rating systems for calculating credit risk pursuant to Basel II	Only upon application by the credit institution Only after supervisory examination and approval as part of the SRP Only for the calculation of regulatory capital

well as the audits of internal market risk models and rating systems, will all merge into the Supervisory Review Process (SRP) from the end of 2006. However, the initial review of a market risk model or an internal rating system within the SRP will continue to be tantamount to an eligibility test, a test that is conducted only at the request of the credit institution.

Granting or refusal of supervisory approval The standardised approach is to be applied until approval to use internal rating systems for determining regulatory capital is granted or if approval is refused. This means that parallels between the respective standardised approaches for market and credit risk, on the one hand, and alternative internal methods, on the other, can also be seen in respect of the supervisory procedure.

Common features shared by the "Minimum requirements" and IRB approaches

The "Minimum requirements" concentrate on principles of the functional and organisational structure and the shaping of credit business processes. The IRB approaches of Basel II, by contrast, exclusively address the issue of risk quantification and the attendant calculation of regulatory capital. They thus focus primarily on a specific sub-sector of the "Minimum requirements" – the risk classification procedure.

However, some aspects of the "Minimum requirements" play a role in ensuring that ratings obtained using IRB approaches are correct. Certain general minimum requirements

The "Minimum requirements" as a "side condition" of the IRB approaches

Standardised approaches versus internal models

Method	Market risk	Credit risk	Scope of application
Standardised method of risk measurement prescribed by the supervisor	Standardised method for calculating the capital requirements for market risk (interest rate risk, foreign exchange risk, stock market risk and commodity risk) pursuant to Principle I	Standardised method for calculating the capital requirements for credit risk pursuant to Basel II	To be observed by all credit institutions, in principle Exemption where an internal method has been recognised
Individual methods of risk measurement developed internally	Internal Value-at-Risk models for calculating market risk	Internal rating systems for calculating credit risk	Use for calculating regula- tory capital only after super- visory examination and approval

may be interpreted as a "side condition" of the IRB approaches.

The separation of functions required by the "Minimum requirements" is rather similar to the independence of the rating assignment in the IRB approaches. Parallels similarly exist between the independent monitoring of rating systems under Basel II and the fact that responsibility for the development, quality and monitoring of the application of risk classification procedures is to be independent of the front office according to the "Minimum requirements".

There is a notable link between the Basel requirement that ratings be used for internal credit risk management and the provisions of the "Minimum requirements" with respect to

the identification and management of risk, the assignment of competencies, credit risk strategy, risk provisioning and the structure of the terms and conditions. All these provisions of the "Minimum requirements" should be based on the risk information provided by internal rating systems in the case of banks using IRB approaches.

The exemptions for low-risk credit business expressed in the "Minimum requirements" are contained in a different form in the IRB approaches. For retail banking, a typical example of low-risk business, banks are permitted to use rating methods which are simpler, standardised, more automated and thus more cost-effective. They are often called "scorings" or "score cards" in practice. It is nevertheless necessary to assess the risk

Exemptions for low-risk credit business

for the individual borrowers in a standardised manner since less risky business, too, needs to be backed by capital. For this, within the IRB approaches it is necessary to differentiate by risk and to estimate PD, LGD and EAD.

Congruence between the "Minimum requirements" and Basel II General process, organisation and monitoring requirements, such as the overall responsibility of management, regular reviews by the internal audit function and external auditors, and requirements for staff qualifications are nearly identical in both sets of rules. In each case the rules require the responsible units to be familiar with the internally defined framework conditions and risk measurement methods, to be able to adequately implement and monitor them, and to have the necessary qualifications.

Specific requirements for internal rating systems

In the area of risk classification, the minimum requirements for IRB systems are far more extensive than those contained in the "Minimum requirements". Unlike the IRB approaches, the "Minimum requirements" do not require the quantification of risk by estimating PD and, as appropriate, LGD and EAD. There is neither a prudential definition of default nor a minimum number of rating classes. The risk classification procedure, which complies with the "Minimum requirements", does not have to be quantitatively validated, either.

An internal rating conforming to Basel II is to be considered a special case in respect of the risk classification procedures stipulated in the "Minimum requirements"; all Basel II ratings will comply with the "Minimum requirements" in respect of risk classification procedures. The reverse does not apply, though; the "Minimum requirements" can be met using much simpler procedures than for ratings conforming to Basel II. The bar must be set higher for internal rating systems than for the "Minimum requirements" because the former apply only to selected banks which voluntarily choose to pursue one of the IRB approaches whereas the "Minimum requirements" apply to all banks.

However, for those banks which choose to use one of the IRB approaches, practical considerations make it appear wise to implement the risk classification procedures of the "Minimum requirements" in such a manner as to already meet the key Basel II requirements.

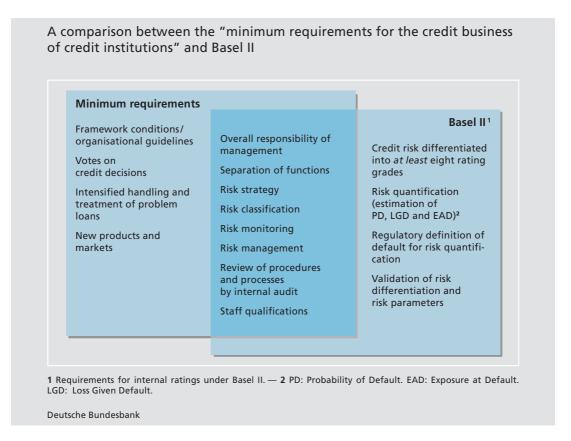
"Minimum requirements" not directly related to Basel II

Unlike the "Minimum requirements", the new Basel Capital Accord does not primarily contain specific requirements for certain internal processes such as the following.

Internal definition of the credit risk strategy and organisational guidelines for the conduct of credit business. Parts of the organisational guidelines refer to the allocation of tasks and the assignment of competencies, the structure of the processes and risk classification procedures and to the reporting procedure.

Rules peculiar to the "Minimum requirements"

Basel II as a special case of risk classification



- Voting, in the sense that credit decisions require separate votes of consent from the front office and back office.
- Rules governing the intensified handling of loans and problem loans, particularly those governing which loans are transferred to intensified handling and which are transferred to winding up or restructuring.
- The initiation of credit business in new types of products or on new markets, which must be based on the development of a strategy and, as appropriate, the subsequent conducting of a test phase.

These specific rules in the "Minimum requirements" are not essential for risk quantifica-

tion and the calculation of regulatory capital. In these areas the "Minimum requirements" exceed the minimum requirements for internal ratings (for an illustration of all interdependencies between the "Minimum requirements" and the IRB approaches see the chart on this page).

In addition, the "Minimum requirements" are more differentiated than the Basel standardised approach in the area of risk classification. The standardised approach does not require any classification of loans using a risk classification method; only externally rated loans need to be backed by capital in a differentiated manner commensurate with the external rating. Credit institutions using the standardised approach cannot, within the context of the "Minimum requirements", rely solely

"Minimum requirements" more differentiated than the Basel II standardised approach

on determining a differentiated level of regulatory capital by means of external ratings. An internal risk classification method which incorporates loans that are not rated externally is still necessary.

Reports from the Economic Research Centre

On 5 and 6 December 2002 the Monetary Stability Foundation (Stiftung "Geld und Währung") staged its first conference in collaboration with the Bundesbank and the Federal Ministry of Finance. The Foundation's aim is to promote basic research in the fields of economics and law with a view to securing monetary stability and stable financial systems. To this end research facilities affiliated to a university are to be set up. A total of €51 million is available for this purpose in the form of the Foundation's endowment capital, which was raised by the issue of a commemorative DM 1 gold coin from the Bundesbank's monetary reserves. The subject of the conference was "An institutional framework for monetary stability" (see also the conference programme on page 61). The choice of this subject was intended to underscore the importance of defining the right institutional framework. This has been demonstrated very clearly in recent years by economic theory, particularly in the field of monetary policy. Prominent representatives of international organisations, central banks, commercial banks, regulatory bodies and the academic world took part in the discussion.

An institutional framework for monetary stability

Monetary stability and stable financial systems as goals of economic policy The first session of the conference established the framework for the subsequent discussion. The defined objective was to answer the following questions. What do we mean by price stability and a stable financial system? Why are these goals important in an economy? How do these goals relate to one another? There is now a general consensus that monetary stability is a key basis for the welfare of a country or currency area. There was also broad agreement that an inflation rate of under 2% is compatible with monetary stability. Monetary stability relates to the overall price level, not to individual prices. Relative prices must be able to change if they are to fulfil their steering function. By contrast, economic theorists still find it hard to come up with a simple and concise definition for the stability of the financial system. It is clear, however, that stability should not be confused with rigidity. On the contrary, the ability to adjust to new circumstances is a key feature of any system that promises lasting stability. In this context the conference participants also considered the interrelationship between efficiency, competition and stability.

In recent years financial systems worldwide have been confronted with crises more than in the first few decades after the Second World War – despite the marked progress that has been made in combating inflation. Nevertheless, the dominant view at the conference was that safeguarding monetary stability is the best contribution that central banks can make to avoiding financial crises.

This is the most direct way in which monetary policy can help ensure transparency and efficiency in the financial system. This does not rule out short-term disruptions and exaggerations in the financial markets, however. In this context the participants also discussed to what extent central banks can integrate early warning systems into their strategies to detect such dangers. In particular, it was pointed out that the growth of monetary aggregates and bank lending may serve as an indicator of unhealthy developments. Financial market bubbles are often accompanied by a steep rise in bank liabilities and bank claims. This opens up an additional perspective which may also be of interest in the discussion on the first pillar of the ECB's monetary policy strategy.

After initially defining the goals in detail, the conference then addressed the question of what institutional framework is best suited to realising these aims. The debate focused at first on monetary stability. In this respect the precise formulation of central banking legislation is of key importance. Germany's positive experience of an independent central bank, which had a particularly successful track record in the field of stability policy, and the academic debate going back more than a decade jointly paved the way to today's situation in which central banks the world over enjoy greater autonomy than used to be the case. This went hand in hand with two other developments: the commitment of central banks to enhanced transparency and their greater public accountability.

Central bank laws important for lastingly safeguarding price stability First conference of the Monetary Stability Foundation: An institutional framework for monetary stability *

Programme of the conference held on 5 and 6 December 2002

Welcoming address by Ernst Welteke (Deutsche Bundesbank) and Hermann Remsperger (Deutsche Bundesbank and Chairman of the Foundation's Supervisory Board)

Session I

Chair: Hermann Remsperger

(Deutsche Bundesbank and Chairman of the Foundation's Supervisory Board)

Why stable prices and stable markets are important and how they fit together

Stanley Fischer (Citigroup Inc)
Otmar Issing (European Central Bank)
Allan Meltzer (Carnegie Mellon University)

Institutions for stable prices: How to design an optimal central bank law

Jean-Victor Louis (University Paris I)
William Poole (Federal Reserve Bank of St Louis)
Nout Wellink (De Nederlandsche Bank)

Session II

Chair: Reiner König (Deutsche Bundesbank

and Chairman of the Foundation's

Executive Board)

How relevant are institutional arrangements in labour markets and fiscal policy for a stabilityoriented monetary policy?

Alberto Alesina (Harvard University)
Wolfgang Franz (Centre for European Economic
Research, Mannheim)
Pedro Solbes (European Commission)

* The conference proceedings can be viewed on the Foundation's website (http://www.stiftung-geld-und-waehrung.de)

or that of the Bundesbank (http://www.bundesbank.de).

Which institutions and regulations for a stable financial system?

Arnoud Boot (University of Amsterdam)
Charles Goodhart (London School of Economics)
Jochen Sanio (Federal Financial Supervisory
Authority)

Session III

Chair: Wolfgang Bühler (University of Mannheim)

Law, finance and stability

Gerd Häusler (International Monetary Fund)
Friedrich Kübler (Johann Wolfgang Goethe University, Frankfurt and Clifford Chance Pünder)
Colin Mayer (University of Oxford)

Panel discussion Institutions for stability: Current and past experience

Facilitator: Axel Weber (University of Cologne)

Alan Blinder (Princeton University)
Andrew Crockett (Bank for International
Settlements)

Barry Eichengreen (University of California, Berkeley)

Deutsche Bundesbank

Although it appears uncontested that the amendments to central bank statutes played an important role in the stability policy success of the recent past, speakers at the conference underscored that this was not an automatic process. Not least the history of the Federal Reserve System and the Deutsche Bundesbank clearly shows that public support, as well as skill and resilience on the part of the policy makers at the central banks, have been major factors in their success.

The importance of the institutional setting on the labour markets ...

Central bank laws define the available scope of monetary policy action in the narrower sense. But other institutional conditions, too, need to be examined. Two further areas were discussed during the conference, namely labour markets and fiscal policy. The relationship between monetary policy and the institutional setting on the labour markets appears complex. In the run-up to European monetary union, for example, some people speculated that the single monetary policy in Europe might change the way labour markets in the euro area are organised and function. On balance, however, such influences seem to have been very limited so far. On the other hand, labour market rigidities that often stem from institutional factors may increase the costs of a stability policy. In some cases this may lead to greater political pressure on central banks.

... and in fiscal policy

The discussion on the interrelationship between monetary and fiscal policy focused on the pros and cons of the European Stability and Growth Pact. EC Commissioner Pedro Solbes and Federal Finance Minister Hans Eichel stressed the Pact's importance for the smooth functioning of EMU. This does not

preclude improvements in the Pact's implementation. Mr Solbes specifically called for greater attention to be paid in future to ensuring that the principles of a responsible medium-term fiscal policy are also taken to heart during economic upswings. This demands greater fiscal policy restraint whenever the level of business activity is above average. Critics of the Pact, by contrast, cited two principal dangers. They argued, firstly, that the Pact prevents due account from being taken of the different requirements in the individual euro-area economies and, secondly, that it diverts attention from the real challenges that Europe's countries will face in the future. In particular, the Pact's critics claim, it is more urgent to lower the general government spending ratios than just to reduce the general government deficits.

Whereas price stability was at the centre of discussion during the first part of the conference, the focus later turned to the question of what precautionary measures are most conducive to minimising the danger of financial market crises. The intellectual challenges in this field now appear just as great as in the discussion on safeguarding price stability. Besides the difficulty of defining financial market stability, there is at the moment no generally agreed and closed model for determining what instruments and approaches are best suited to predicting or preventing crises. The ongoing development of the financial systems and the intensified competition which, though important for efficiency, can also pose risks to stability, are additional challenges which call for new approaches to prudential

Unresolved issues concerning financial market stability

supervision. Nonetheless, there is evidently agreement about some basic principles.

Key importance of transparency

For example, various speakers emphasised that transparency plays a key role in modern systems of financial market supervision by promoting responsibility and facilitating, for instance, functioning early warning systems. The concrete design of accounting standards could force firms inter alia to adopt a more open disclosure practice, which in turn would help to safeguard the stability of a given financial system. Most participants took the view that attempts to regulate the market directly are only of limited usefulness in a constantly changing world. This is often associated with a tendency towards harmonisation which fails to address the differing individual needs and hence may impair efficiency. These misgivings about overregulation were highlighted by examples from the financial system.

Organisation of financial market supervision

Another issue examined during the conference was how the supervision of financial systems can best be organised. The discussion focused on conditions in Europe. There was a broad consensus that even in a monetary union supervision should remain a national responsibility, although a close exchange of information is necessary between these national authorities. There was likewise a large measure of agreement that central banks should be integrated into the supervision of

financial systems; for a number of reasons central banks are especially suited to contributing to the stability of the overall system. In this context the German solution, under which the Federal Financial Supervisory Authority collaborates with the Bundesbank in the field of prudential supervision in an efficient and economical partnership, was also discussed extensively.

Finally, the conference also considered the best way of tackling international financial crises. Resolving this issue has acquired major significance given the huge growth in international capital flows of private-sector creditors. For example, the IMF has proposed a "Sovereign Debt Restructuring Mechanism". It was also pointed out, however, that all such approaches require broad support if they are to be successfully implemented.

The conference showed that a number of questions remain unresolved, particularly in respect of creating an efficient and stable financial system. In other areas, such as gaining acceptance for the goal of monetary stability, a greater degree of unity and certainty prevails today. But in this field, too, it is already apparent that the future will bring new challenges. Against this background the new

Foundation's objective of studying and pro-

moting the conditions for stable prices and a

sound financial system seems well chosen.

Approaches to solving international financial crises

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Abbreviations and symbols

- e estimated
- **p** provisional
- pe partly estimated
- **r** revised
- ... Data available at a later date
- . Data unknown, not to be published or not meaningful
- 0 Less than 0.5 but more than nil
- ni

Discrepancies in the totals are due to rounding.

I. Key economic data for European monetary union

1. Monetary developments and interest rates

	Money stock in	various definiti	ons 1 2		Determinants of	of the money sto	ock 1	Interest rates			
			M 3 3			MFI lending to				Yield on Euro-	
				3-month		enterprises	Monetary			pean govern-	
				moving average	MFI lending,	and	capital		3-month	ment bonds	
	M1	M2		(centred)	total	individuals	formation 4	EONIA 5, 7	EURIBOR 6, 7	outstanding 8	
Period	Change from p	revious year,in	%					% p. a. as a mo	nthly average		
2001 May	2.9	3.6	4.3	4.6	5.3	8.5	3.5	4.65	4.64	5.3	
June	4.0	4.3	5.5	5.1	5.7	8.4	3.4	4.54	4.45	5.2	
July	3.4	4.4	5.6	5.7	5.8	8.2	2.7	4.51	4.47	5.2	
Aug.	3.6	4.4	5.9	6.1	5.5	7.7	2.3	4.49	4.35	5.0	
Sep.	5.0	5.1	6.8	6.7	5.2	7.1	2.5	3.99	3.98	5.0	
Oct.	5.2	5.5	7.3	7.3	5.1	6.9	2.6	3.97	3.60	4.8	
Nov.	5.9	6.0	7.8	7.7	5.4	7.0	3.6	3.51	3.39	4.6	
Dec.	5.5	6.4	8.0	7.8	5.2	6.7	4.7	3.34	3.34	4.9	
2002 Jan.	6.6	6.7	7.8	7.7	5.2	6.2	4.8	3.29	3.34	5.0	
Feb.	6.2	6.3	7.4	7.5	5.1	6.0	4.8	3.28	3.36	5.1	
Mar.	6.0	6.3	7.2	7.3	4.8	5.4	4.7	3.26	3.39	5.3	
Apr.	6.6	6.3	7.3	7.4	4.4	5.1	4.6	3.32	3.41	5.3	
May	6.7	6.7	7.6	7.3	4.5	5.3	5.2	3.31	3.47	5.3	
June	6.8	6.4	7.1	7.3	4.4	5.3	4.3	3.35	3.46	5.2	
July	7.6	6.5	7.1	7.1	4.0	4.8	4.9	3.30	3.41	5.0	
Aug.	7.6	6.4	7.0	7.1	4.2	5.1	5.2	3.29	3.35	4.7	
Sep.	8.2	6.6	7.3	7.1	4.3	5.0	5.1	3.32	3.31	4.5	
Oct.	8.2	6.8	7.0	7.1	4.3	4.9	4.9	3.30	3.26	4.6	
Nov.	9.1	6.9	7.1		4.0	4.6	5.0	3.30	3.12	4.6	
Dec.							l	3.09	2.94	4.4	

1 Source: ECB. — 2 Saisonally adjusted. — 3 Excluding holdings of money market fund shares/units by non-residents of the euro area. — 4 Longerterm liabilities to euro area non-MFIs. — 5 Euro OverNight Index

Average. — 6 Euro InterBank Offered Rate. — 7 See also footnotes to table VI.5., p. 44* — 8 GDP-weighted yield on ten-year government bonds; from 2001 Euro12.

2. Foreign trade and payments *

	Selected items of the EMU balance of payments													Euro exchange rates 1			
	Currer	nt accoun	ıt		Capita	al accoun	t									Effective excha	nge rate 3
	of which: Balance Trade balance				Direct Balance investment				Credit transactions		Monetary reserves		Dollar rate	nominal	real 4		
Period	€ milli	on												Euro/US-\$		1st q 1999=100	
2001 May June	-	4,581 3,008	++	4,160 7,994	- -	3,060 6,072	- -	46,522 6,037	++	31,473 26,021	+	15,569 25,208	- -	3,581 849	0.8742 0.8532	85.9 84.7	87.6 86.3
July Aug. Sep.	- + +	790 5,257 743	+ + +	10,548 7,428 6,019	- - -	25,607 6,123 21,326	- - -	2,803 5,910 15,612	- + +	4,527 204 46,607	- - -	18,313 4,485 50,706	+ + -	36 4,068 1,615	0.8607 0.9005 0.9111	85.4 87.7 88.0	87.1 89.3 89.7
Oct. Nov. Dec.	+ + +	4,122 2,668 2,295	+ + +	11,397 8,846 10,439		22,033 6,834 3,197	+ + +	4,005 11,690 831	- + -	1,535 17,096 17,117	- - +	21,843 35,681 7,232	- + +	2,661 60 5,856	0.9059 0.8883 0.8924	88.0 86.8 87.7	90.0 88.8 89.9
2002 Jan. Feb. Mar.	- + +	94 4,399 7,444	+ + +	3,109 9,999 13,222	- + +	49,540 6,741 16,327	+ - -	9 8,915 6,091	- - -	38,477 11,195 569	- + +	5,759 24,396 23,192	- + -	5,313 2,455 205	0.8833 0.8700 0.8758	87.6 86.8 86.8	90.3 89.4 89.6
Apr. May June	- + +	4,550 2,368 7,335	+ + +	8,355 10,708 13,647	+ + -	16,794 2,126 41,261	+ + -	8,027 3,748 16,147	+ + +	19,279 29,888 15,168	- - -	18,882 33,329 36,836	+ + -	8,369 1,818 3,446	0.8858 0.9170 0.9554	87.2 88.6 90.6	90.1 91.5 93.6
July Aug. Sep.	+ + +	2,587 9,720 8,019	+ + +	14,178 11,691 11,290	-	11,188 11,763 20,287	- + -	3,617 1,694 3,417	+ + +	7,230 2,546 16,709	- - -	12,273 17,784 29,814	- + -	2,528 1,780 3,765	0.9922 0.9778 0.9808	91.7 91.1 91.2	94.7 94.0 94.2
Oct. Nov. Dec.	+	3,718 	+	11,698 	-	21,469 	-	5,019 	+	19,391 	-	37,977 	+	2,136 	0.9811 1.0014 1.0183	91.7 92.5 93.6	94.8 95.5 96.6

^{*} Source: ECB. — 1 See also tables X.12 and 13, p. 74–75. — 2 Including financial derivatives. — 3 Vis-a-vis a narrow group of countries. — 4 Based

on consumer prices.

I. Key economic data for European monetary union

3. General economic indicators

Davia d	Dalaissa	C	Finland	F	C	In a la sa al	IA-I.	I	NI - 4 le - ul - u - d -	A	Do atura al	Ci	ENALL 6
Period	Belgium Real gro	Germany ss domes	Finland tic produ	France	Greece	Ireland	Italy	Luxembourg	Netherlands	Austria	Portugal	Spain	EMU 6
1999	3.2	2.0	-	3.2	3.6	11.1	1.6	6.0	4.0	2.7	3.8	4.2	2.8
2000	3.7	2.9	6.1	3.8	4.2	10.0	2.9	8.9	3.3	3.5	3.7	4.2	3.5 1.4
2001 2001 2nd gtr	0.8 1.3	0.6	0.7 0.4	1.8 2.0	4.1 4.0	5.7 6.7	1.8 2.3	1.0	1.3 1.7	0.7 0.5	1.6 3.0	2.7	1.4 1.6
3rd qtr 4th qtr	0.8 - 0.5	0.4 - 0.1	0.1	1.9 0.7	3.5 3.7	4.3 1.1	1.9 0.4		1.1 0.6	0.3 - 0.4	1.0 0.7	2.5 2.6	1.3
2002 1st qtr	- 0.5	- 1.2	- 1.5	0.3	4.3	4.4	- 0.2		- 0.1	0.4	1.2	1.9	- 0.2 0.7
2nd qtr 3rd qtr	0.5	0.4 0.9	3.1 2.3	1.0 1.4	4.0 3.6	6.5	0.1 0.3		0.0 0.3	1.0 0.9	0.9	2.1 1.7	0.7 1.0
	Industrial production 1, 2												
1999	0.9	1.5	5.5	2.0	3.9	14.8	- 0.1	11.5	1.3	6.0	l	2.6	1.9
2000 2001	5.3 - 1.0	6.2 0.5	11.2 - 1.0	3.5 0.9	0.5 1.4	15.4 10.2	4.8 - 1.2	4.3 1.8	4.0 1.4	8.9 0.8	- 1.9 3.1	4.0 - 1.1	5.5 0.4
2001 2nd qtr	- 1.0 - 0.9	1.4	- 2.2 - 3.3	1.7 2.4	0.5 2.5	12.4 3.6	- 0.8 - 1.3	0.2 2.5	2.5 1.2	0.0 0.2	5.1 0.8	- 1.3 - 0.4	1.1
3rd qtr 4th qtr	- 0.9 - 5.2	- 1.1 - 3.7	- 3.3 - 4.7	- 2.1	0.1	- 2.6	- 1.3 - 5.6	1.3	- 1.5	- 2.4	1.8	- 0.4 - 2.0	- 0.2 - 3.6
2002 1st qtr 2nd qtr	- 0.8 2.9	- 4.0 - 1.8		- 2.2 - 0.1	- 1.1 2.4	3.0 11.3	- 3.4 - 2.3	- 2.7 5.9	- 2.9 - 2.9	- 2.1 2.4	- 1.6 1.7	- 3.9 1.0	- 2.7 - 0.6
3rd qtr	Capacity		 	- 1.3	- 1.2	10.6	- 2.9	- 0.5	- 1.4	0.3	0.2	1.4	- 0.6
2000	84.0	utilisatio	86.8	87.5	70.1	78.6	78.8	l 07.0	047	84.5	81.2	80.6	943
2000 2001 2002	82.3 79.6	85.1 82.0	85.7 82.7	87.4 85.3	78.1 77.6 77.0	78.4 75.9	78.9 77.3	87.8 88.7 85.1	84.7 84.6 82.9	83.1 80.6	81.7 79.4	79.6 77.2	84.2 83.6 81.2
2001 3rd qtr 4th gtr	81.4 80.2	84.3 83.3	85.1 84.5	87.7 86.3	76.1 76.8	78.0 75.2	78.7 77.9	88.9 87.8	84.6 83.8	82.7 81.4	82.4 79.7	80.1 78.3	83.4 82.2
2002 1st qtr	79.2	82.4	82.0	85.5	75.4	77.5	76.9	86.9	83.5	80.9	77.9	76.3	81.1
2nd qtr 3rd qtr	79.6 80.1	81.5 82.0	82.7 83.0	85.8 85.3	76.7 79.0	76.3 72.8	77.3 76.9	84.3 83.8	82.9 82.5	80.6 80.5	79.4 79.1	77.0 76.3	81.2 81.0
4th qtr	79.6	82.1 Syment r	83.1 ate ⁴	84.7	76.8	76.9	78.0	85.3	82.8	80.4	81.2	79.3	81.5
2000	6.9	7.8	9.8	9.3	11.1	4.3	10.4	2.3	2.9	3.7	4.1	11.3	8.5
2001 2002	6.7 7.3	7.7 8.2	9.1	8.5	10.5	3.9 4.4	9.4	2.0	2.5	3.6 4.1	4.1	10.6 11.4	8.0
2002 June	7.3	8.3	9.3	 8.7		4.4	9.0	2.3	2.8	4.1	4.5	11.3	8.3
July Aug.	7.4 7.3	8.3 8.3	9.2 9.2	8.8 8.8		4.4 4.4	9.0 9.0	2.4 2.5	2.8 2.8	4.1 4.1	4.6 4.7	11.4 11.5	8.3 8.3
Sep.	7.3	8.3	9.1	8.8		4.4	9.0	2.5	2.8	4.2	4.8	11.6	8.3
Oct. Nov.	7.4 7.5	8.4 8.4	9.0 8.9	8.8 8.8		4.4 4.4	8.9	2.5 2.6	2.9	4.1 4.1	5.0 5.1	11.8 11.9	8.4 8.4
Dec.	7.6	8.5 isad inda	l x of cons	 umar pri	cos 1	4.4				4.2	l	12.0	
2000	2.7	2.1	3.0			5.3	2.6	3.8	2.3	2.0	2.8	3.5	22
2000 2001 2002	2.4 1.6	2.4 1.3	2.7 2.0	1.8 1.8 1.9	2.9 3.7 3.9	4.0	2.3 2.6	2.4 2.1	5.1 3.9	2.3	4.4 3.7	2.8 3.6	2.3 2.5
2002 June	0.8	0.7	1.5	1.5	3.6	4.5	2.2	1.3	3.9	1.5	3.5	3.4	1.8
July Aug.	1.1 1.3	1.0 1.0	2.0 1.8	1.6 1.8	3.6 3.8	4.2 4.5	2.4 2.6	1.9 2.0	3.8 3.8	1.5 2.1	3.6 3.9	3.5 3.7	1.9 2.1 2.1
Sep.	1.2	1.0	1.4	1.8	3.8	4.5	2.8	2.2	3.7	1.6	3.8	3.5	
Oct. Nov.	1.3 1.1	1.3 1.0	1.7 1.7	1.9 2.1	3.9 3.9	4.4 4.7	2.8 2.9	2.5 2.7	3.6 3.4	1.7 1.7	4.1	4.0 3.9	2.3 2.2
Dec.	1.3 General		l 1.7 l nent finar	2.2 ncial hala			3.0	2.8	3.5		4.0	4.0	
1999	- 0.5	- 1.5		- 1.6	- 1.9	2.2	- 1.8	3.6	0.7	- 2.3	- 2.4	- 1.1	- 1.3
2000	0.1	1.1	7.0	- 1.3	- 1.8	4.4	- 0.5	5.6	2.2	- 1.5	- 2.9	- 0.6	0.2
2001	0.4 General		4.9 nent debt		- 1.2	1.5	- 2.2	6.1	0.1	0.2	- 4.1	- 0.1	- 1.5
1999	114.9			_	105.1	49.7	114.5	6.0	63.1	64.9	54.4	63.1	71.9
2000	109.2	60.2		57.3	106.2	39.1	110.5	5.6	55.8	63.6	53.3	60.5	69.4
2001	107.6	59.5	43.4	57.3	107.0	36.4	109.8	5.6	52.8	63.2	55.5	57.1	69.2

Sources: National data, European Commission, Eurostat, European Central Bank. Latest data are partly based on press reports and are provisional. — 1 Annual percentage changes; GDP of Greece and Portugal is calculated from seasonally adjusted data. — 2 Manufacturing, mining, gas and electricity; adjusted for working-day variations (except France and Spain). — 3 Manufacturing, in %; seasonally adjusted; data are collected

in January, April, July and October. — **4** Standardised, as a percentage of persons in civilian employment; seasonally adjusted. — **5** As a percentage of GDP; Maastricht Treaty definition, ESA95; including proceeds from sales of UMTS licenses in 2000 and 2001. — **6** Including Greece (Harmonised index of consumer prices, General government financial balance and General government debt only from 2001).

II. Overall monetary survey in the European monetary union

1. The money stock and its counterparts*)

	I. Lending to	II. Net claim	s on ea residents		III. Monetary capital formation at monetary financial institutions (MFIs) in the euro area								
Period	Total	Enterprises and individ	uals Securities	Public authorities Total	Securities	Total	Claims on non- euro-area residents	Liabil- ities to non-euro- area residents	Total	Deposits with an agreed maturity of over 2 years	Deposits at agreed notice of over 3 months	Debt securities with maturities of over 2 years (net) 3	Capital and reserves 4
	Europea	n monet	ary unior	ı (€ billic	n) ¹								
2001 Aug. Sep. Oct. Nov. Dec.	- 20.0 42.2 24.5 72.5 39.4	36.8 48.6	3.2 - 2.0 8.4 - 1.1 24.2	- 8.0 - 3.3 - 12.3 23.8 - 6.7	- 4.3 - 9.6 7.9	27.0 31.2 25.2 27.5 – 8.6	49.1 43.7 66.0	30.1 18.0 18.4 38.5 – 17.8	2.7 26.4 18.6 18.9 28.6	- 2.1 0.8 - 0.3 - 1.6 7.3	- 1.2 - 0.9 - 1.7 - 1.1 0.1	- 1.2 17.5 12.7 18.7 7.6	7.3 9.0 7.9 2.9 13.6
2002 Jan. Feb. Mar. Apr. May June	36.2 28.8 70.7 26.2 39.1 32.5	24.9 48.6 44.7 32.2	4.9 8.7 - 10.4 3.0 3.9 - 6.9	18.7 3.9 22.2 – 18.5 6.9 0.1	1.2 16.9 1.5 9.7	- 14.0 - 10.5 - 5.7 - 2.6 38.9 40.7	0.3 19.9 18.0 73.9	13.8 10.7 25.6 20.6 35.0 – 67.4	25.2 9.1 23.7 - 6.2 25.8 - 5.5	3.6 1.6 3.7 – 0.2 3.5 3.3	- 3.6 - 1.0 - 1.3 - 1.9 - 1.2 - 0.2	11.0 9.3 18.7 1.0 19.7 8.6	14.3 - 0.8 2.6 - 5.1 3.8 - 17.1
July Aug. Sep. Oct. Nov.	- 18.8 - 7.0 57.3 27.0 40.2	- 15.0 7.0 43.1 30.1	- 12.2 6.7 5.6 12.0 6.7	- 3.8 - 14.0 14.2 - 3.1 15.4	- 2.0 - 3.1 11.0 - 2.7	- 1.6 14.3 23.7 28.4	- 2.4 - 10.6 68.4 53.7	- 0.7 - 24.9 44.8 25.3	19.8 13.9 24.4 9.7 22.7	1.3 2.2 1.0 1.3 4.0	- 0.0 0.2 0.4 - 1.0 - 0.5	8.8 2.7 12.8 9.5 15.8	9.8 8.7 10.1 – 0.0
	German contribution (€ billion) ²										1 3.51		
2001 Aug. Sep. Oct. Nov. Dec.	- 5.2 - 6.2 - 0.2 15.7 18.9		- 3.1 - 4.6 3.3 - 0.4 10.8	- 3.9 - 14.0 - 4.8 9.5 - 3.1	- 10.9 - 6.0 - 0.9	7.7 25.4 9.6 30.5 19.1	23.8 7.6 15.3	25.4 - 1.6 - 2.0 - 15.2 - 37.1	5.8 - 0.0 2.4 7.6 - 0.8	- 0.2 0.6 - 0.8 - 1.6 1.4	- 1.3 - 0.8 - 1.8 - 1.0 0.1	2.7 2.5 1.6 8.9 – 4.7	4.6 - 2.3 3.4 1.3 2.5
2002 Jan. Feb. Mar. Apr. May	- 7.3 1.8 - 1.0 11.0 6.6	- 8.7	1.5 - 3.2 - 9.5 - 5.8 - 0.2	1.3 1.7 1.4 1.1 2.9	1.0 4.2 3.0 5.2	- 21.5 1.8 7.6 - 20.2 10.7	- 5.2 - 0.3 10.6 - 3.0	16.3 - 2.1 3.0 17.2 13.9	2.8 5.0 13.3 - 7.7 0.4	1.9 1.2 3.5 - 1.3 - 0.4	- 3.6 - 1.0 - 1.1 - 1.9 - 1.1	2.7 3.2 10.1 - 2.1 2.2	1.9 1.6 0.9 - 2.4 - 0.4
June July Aug. Sep. Oct.	- 19.8 7.2 - 1.7 12.0 4.6	- 7.4 5.8 10.8 5.8	- 11.1 - 2.8 6.4 - 0.7 7.4	- 7.2 14.6 - 7.5 1.2 - 1.2	6.1 2.2 4.1 - 4.6	25.7 - 16.5 11.0 15.4 17.8	0.1 - 5.7 6.4 31.0	- 25.6 10.8 - 4.5 15.6 - 6.1	- 0.5 11.2 8.9 1.5	- 0.7 0.5 - 0.2 - 0.5	- 0.2 0.1 0.1 - 0.5 - 0.8	2.3 8.2 5.2 2.0 - 0.3	- 1.9 2.4 3.7 0.5 - 0.7
Nov.	9.4 German	contribu	l 4.3 tion (DM	l 4.8 billion)		19.1	32.0	12.8	5.8	4.1	- 0.6	0.4	1.9
2001 Aug. Sep. Oct.	- 10.2 - 12.0 - 0.4	- 2.5 15.4 9.0	- 6.0 - 8.9 6.4	- 7.7 - 27.4 - 9.4	- 6.7 - 21.4 - 11.7	15.0 49.6 18.8	46.5 14.9	49.7 - 3.1 - 3.8	11.3 - 0.1 4.7	- 0.4 1.1 - 1.5	- 2.5 - 1.5 - 3.6	5.2 4.8 3.1	- 4.5 6.7
Nov. Dec. 2002 Jan. Feb. Mar.	30.7 37.0 - 14.4 3.5 - 2.0	43.2 - 16.9 0.2	- 0.7 21.2 2.9 - 6.3 - 18.6	18.6 - 6.1 2.6 3.3 2.7	8.2 2.0 8.3	59.7 37.3 - 42.0 3.5 14.9	- 35.2 - 10.1 - 0.6	- 29.8 - 72.5 31.9 - 4.1 5.9	14.9 - 1.5 5.6 9.8 26.1	- 3.1 2.7 3.7 2.4 6.8	- 1.9 0.1 - 7.1 - 2.0 - 2.2	17.3 - 9.2 5.3 6.3 19.8	3.7 3.1
Apr. May June July	21.4 13.0 – 38.7 14.0	19.3 7.2 – 24.7	11.4 - 0.4 - 21.6 - 5.5	2.2 5.8 - 14.0 28.5	10.3 16.3 - 4.3	- 39.5 21.0 50.2 - 32.3	- 5.8 48.1 0.1	33.7 27.1 – 50.1 21.1	- 15.0 0.7 - 1.0 21.9	- 2.5 - 0.7 - 1.4	- 3.8 - 2.2 - 0.4	- 4.1 4.3 4.5	- 4.6 - 0.7 - 3.7
Aug. Sep. Oct. Nov.	- 3.4 23.5 9.1 18.3	11.3 21.1 11.4	12.5 - 1.4 14.6	- 14.7 2.4 - 2.3	4.3 8.0 - 9.0	21.5 30.1 34.7	12.6 60.6 22.8	- 8.9 30.5 - 12.0	17.4 3.0 0.2	- 0.3 - 1.0 3.8	0.3 - 0.9 - 1.6	10.2 3.9 – 0.7	7.3 1.0 - 1.3

^{*} The data in this table are based on the consolidated balance sheet of monetary financial institutions (MFIs) (table II.2); statistical breaks have been eliminated from the flow figures. — 1 Source: ECB. — 2 Owing to changes in the definitions of the items and differences in the range of reporting institutions, the figures are not comparable with those published for Germany up to end of 1998. — 3 Excluding MFIs portfolios; for the German contribution: excluding German MFIs portfolios of securities issued by MFIs in the euro area. — 4 After deduction of inter-MFI participations. — 5 For the European monetary union: including the counterparts of monetary

liabilities of central governments. — 6 The German contributions to the Eurosystem's monetary aggregates should on no account be interpreted as national monetary aggregates, and are therefore not comparable to the erstwhile German money stocks M1, M2 or M3. — 7 In Germany, bank debt securities with maturities of up to one year are classed as money market paper; up to the January 2002 Monthly Report they were published in this table together with money market fund certificates. — 8 From 2002 euro currency in circulation plus outstanding national banknotes and coins. Excluding euro-area MFIs' cash in hand denominated in euro or in

II. Overall monetary survey in the European monetary union

			V. Ot	her fa	actors		VI. Mo	oney s	tock N	//3 (ba	lance I	l plus I	l less III less	IV les	(V) 6,7,°	11]
									Mone	ey Stoo	k M2												Money		1
					Intra-						Mone	ey Stoc	k M1										market and del	ot	
					Eurosy liabilit											Depo with		Deposits			Mon	ev	securiti with	es	
	V. De				claim related	.							Curronau			agre	ed	at agreed notice of	Popo		mark fund	œt	maturit of up to		
ď	entra	l gov-		_	bankn	ote					L .		Currency in circu-		night	mati of u	o to	up to 3	Repo trans	ac-	certi	ficates	2 years		
E	rnme	ents	Total	5	issue 1	2	Total		Total		Total		lation 8	depo	sits 9	2 yea		months 9,10	tions		, ,		(net) 3,		Period
																	Eui	ropean M	onet	ary	unic	on (€	billio	n) ¹	
	_	3.3 5.4		2.2 8.4		-		5.4 44.0	-	15.4 46.3	-	39.7 57.7	- 8.8 - 9.6	-	30.9 67.4	-	18.4 18.2	5.9 6.8		7.5 5.1		10.5 3.7	_	2.8 0.9	2001 Aug. Sep.
	-	5.2 2.9 11.5	_	1.7 29.6 86.2		-		24.2 54.4 99.9		2.6 48.7 116.4	-	12.6 32.0 63.8	- 14.2 - 15.7 - 40.0		1.6 47.8 103.8		3.3 1.9 11.1	11.8 14.8 41.5	-	9.5 9.2 7.4	_	11.6 9.8 1.1	_	0.5 5.0 8.0	Oct. Nov. Dec.
		10.3	-	4.1 1.8		-	-	9.1 1.2	 - -	26.2 10.7	 -	40.6 10.8	6.8	 -	47.3 4.6	-	6.7 4.0	21.1	1	2.3 4.9		19.8 10.8	<u>-</u>	0.4 3.9	2002 Jan. Feb.
		1.1 0.5	_	1.1 13.8		-		39.1 43.1		27.2 39.8		11.5 40.2	14.0 7.4	-	2.6 32.8		12.3 5.4	3.4 – 5.8	1	8.4 1.5		3.2 8.0	_	0.3	Mar. Apr.
	-	8.6 5.9		12.5 47.0		-		48.2 25.8		27.5 46.3		14.3 60.6	12.2 12.0		2.1 48.6	-	10.9 20.6	2.3 6.3		6.7 6.1	-	4.0 7.4	-	10.0 7.0	May June
	-	2.9 10.8 3.9	-	24.5 9.1 4.4		=	-	12.8 13.2 48.2	- -	15.9 8.0 41.8	-	22.9 27.5 62.4	11.0 4.4 5.6	-	33.8 31.8 56.9	_	4.2 13.5 22.8	2.8 6.0 2.1		0.7 7.7 3.5	_	12.7 12.4 1.6	-	8.9 1.2 4.5	July Aug. Sep.
	_	5.2 3.4	_	20.4 13.9		-		20.1 70.6		18.3 64.7	-	8.8 60.4	7.2 7.5	-	16.0 52.9	_	20.5 6.8	6.7	-	2.8 6.5		2.1 14.9	_	2.5 2.4	Oct. Nov.
																		German	n con	trib	utio	n (€	billior	ı) ²	
	_	0.1 2.9	-	11.2 6.9		-		7.8 15.3		2.8 14.4	-	1.0 14.5	- 3.3 - 4.6		2.3 19.1	_	3.7 1.2	0.1		2.9 1.7		1.5 1.5		0.6 1.1	2001 Aug. Sep.
	-	1.6 1.1		4.1 18.8		-		4.5 18.7		0.4 19.3	-	3.3 20.3	- 6.0 - 7.5		2.6 27.8	-	0.9 3.8	2.8 2.8	-	6.5 5.3		1.6 1.1	-	4.1 3.7	Oct. Nov.
	_	7.4 1.0 0.7	_	27.1 6.3 4.9	_	11.6 3.4	-	19.2 26.4 4.2	 - -	13.2 25.7 0.1	- -	9.5 18.0 3.9	- 24.4 13 - 4.1 4.5	<u>-</u>	14.9 13.8 0.6	-	6.3 10.2 3.5	16.5 2.4 – 0.5	-	0.9 2.4 1.0		1.9 2.0 0.8	-	3.2 0.2 2.4	Dec. 2002 Jan. Feb.
	-	0.0	-	8.6		3.4		1.9		1.5	-	0.0	2.6	-	2.6 9.3	_	1.6	- 0.1 - 7.3		0.2	-	0.1		0.4	Mar. Apr.
		0.7 0.5	- -	0.6 5.1		2.9		16.9 11.0		12.6 15.7		8.7 16.4	2.5 3.3		6.2 13.1		4.5 0.3	- 0.6 - 1.0		1.3 0.6	-	0.0	-	3.0 3.7	May June
	-	1.1 1.3 1.0	- -	13.7 4.3 10.7		2.0 3.2 2.2	-	5.8 3.3 14.2	- -	3.2 0.4 8.4	-	1.5 4.3 16.5	3.7 0.9 1.6	-	5.1 5.2 14.9	-	0.2 3.7 9.0	- 1.5 0.1 1.0		1.0 1.2 6.4		0.6 1.2 0.1	- _	2.2 1.4 0.8	July Aug. Sep.
	_	1.6 0.6	_	8.5 6.1		2.0		15.5 29.5		11.7 32.1		2.7 34.3	1.5 2.5		1.2 31.8	_	6.8 5.6	2.2	-	1.0	_	0.7 0.2		4.1 0.8	Oct. Nov.
																	(German c	ontri	buti	on (DM	billior	n) ²	
	_	0.2 5.7	-	21.9 13.5		-		15.3 29.9		5.4 28.1	-	1.9 28.4	- 6.4 - 9.0		4.5 37.4	-	7.2 2.3	0.1 2.0		5.7 3.4		2.9 3.0		1.3 2.2	2001 Aug. Sep.
	-	3.1 2.2		8.1 36.8		-		8.7 36.6		0.8 37.7	-	6.5 39.8	- 11.6 - 14.6		5.2 54.4	-	1.7 7.5	5.5 5.5 32.2	-	12.7 10.4		3.1 2.2	-	7.9 7.2	Oct. Nov.
	_	14.5 1.9 1.3	_	52.9 12.3 9.7	_	22.7 6.6	-	37.5 51.6 8.1	 - -	25.9 50.3 0.2	-	18.6 35.1 7.5	- 47.8 13 - 8.1 8.8	 - -	29.2 27.0 1.2	_	12.3 19.9 6.8	32.2 4.7 – 0.9	-	1.8 4.7 1.9		3.7 3.9 1.6	-	6.2 0.4 4.8	Dec. 2002 Jan. Feb.
	-	0.1	_ _ _	16.8		6.6 2.5		3.8		2.9 0.4	-	0.1	5.0 6.1	-	5.1	_	3.1 9.4	- 0.5 - 0.1 - 14.4		0.3	-	0.3		0.9	Mar. Apr.
		1.4 0.9	- -	1.2 10.0		5.6 2.0		33.1 21.6		24.6 30.6		16.9 32.0	4.8 6.5		12.1 25.6		8.8 0.6	- 1.2 - 2.0	-	2.6 1.2	-	0.0 0.7	_	5.9 7.2	May June
	-	2.1 2.6 2.0	_	26.8 8.4 21.0		4.0 6.2 4.2	-	11.3 6.5 27.7	-	6.3 0.8 16.5	-	2.9 8.4 32.2	7.2 1.8 3.1	-	10.1 10.1 29.1	-	0.4 7.3 17.5	– 2.9 0.2 1.9		2.0 2.3 12.5		1.2 2.4 0.2	- _	4.3 2.6 1.5	July Aug. Sep.
	_	3.2 1.3	_	16.6 12.0		4.0 2.8		30.2 57.6		22.8 62.7		5.3 67.1	2.9		2.4 62.2		13.2 10.9	4.3	-	2.0 6.4	_	1.3 0.4		8.1 1.6	Oct.

currencies of the euro area. From 2002 the German contribution contains the euro banknote volume put into circulation by the Bundesbank according to the accounting regime chosen by the Eurosystem (see footnote 4 on banknote circulation in Table III.2). The volume of currency actually put into circulation by the Bundesbank can be calculated by adding to this total the item "Intra-Eurosystem liability/claim related to banknote issue". — 9 For the European monetary union: including the monetary liabilities of central governments (Post Office, Treasury). — 10 In Germany, only savings

deposits. — 11 Paper held by residents outside the euro area has been eliminated. — 12 For the German contribution: the difference between the volume of euro banknotes actually issued by the Bundesbank and the amount disclosed according to the accounting regime chosen by the Eurosystem (see also footnote 4 on banknote circulation in Table III.2). — 13 Includes statistically non-eliminated decrease of €11.6 billion (DM22.7 billion) owing to the changed method of recording banknote circulation (see also footnotes 8 and 12).

- II. Overall monetary survey in the European monetary union
- 2. Consolidated balance sheet of monetary financial institutions (MFIs) *

		Assets									
		Lending to no	on-banks (non-	MFIs) in the eu	ro area						
			Enterprises ar	nd individuals			Public authori	ities			
Period	Total assets or liabilities	Total	Total	Advances	Debt securities ³	Shares and other equities	Total	Advances	Debt securities 4	Claims on non- euro-area residents	Other assets
			union (€ k			1 - 4					
2001 Aug. Sep.	13,144.3 13,318.6	9,260.1 9,309.1		6,369.6 6,421.9	323.7 327.4	545.1 534.7	2,021.6 2,025.0	828.8 829.8	1,192.9 1,195.2	2,624.7 2,697.8	1,259.5 1,311.7
Oct. Nov. Dec.	13,424.2 13,574.5 13,576.6	9,339.1 9,413.9 9,451.5	7,325.2 7,379.6 7,424.5	6,451.6 6,501.9 6,519.3	329.9 333.1 336.9	543.7 544.6 568.3	2,014.0 2,034.3 2,026.9	827.2 843.3 847.7	1,186.8 1,191.0 1,179.2	2,742.5 2,827.6 2,807.6	1,342.5 1,333.0 1,317.6
2002 Jan. Feb.	13,667.3 13,657.3	9,495.6 9,520.7	7,444.5 7,465.5	6,534.4 6,548.7	341.9 349.9	568.2 566.8	2,051.1 2,055.2	844.8 847.5	1,206.3 1,207.7	2,829.4 2,833.0	1,342.3 1,303.5
Mar.	13,694.3	9,595.0	7,513.3	6,606.1	346.6	560.6	2,081.7	852.6	1,229.1	2,845.1	1,254.2
Apr. May June	13,680.1 13,711.5 13,642.2	9,612.6 9,645.1 9,667.2	7,551.0 7,573.7 7,598.1	6,641.2 6,659.7 6,691.1	342.9 345.0 343.0	566.9 569.0 563.9	2,061.7 2,071.4 2,069.1	832.4 829.2 830.1	1,229.2 1,242.3 1,239.0	2,826.3 2,845.7 2,731.1	1,241.2 1,220.7 1,243.9
July Aug. Sep.	13,679.7 13,649.1 13,817.8	9,653.0 9,645.6 9,702.6	7,587.1 7,592.6 7,628.9	6,692.6 6,692.3 6,728.4	345.3 341.0 349.2	549.2 559.2 551.3	2,065.9 2,053.0 2,073.7	828.5 818.0 821.1	1,237.4 1,235.0 1,252.6	2,756.5 2,745.1 2,816.1	1,270.3 1,258.4 1,299.0
Oct. Nov.	13,858.5 14,009.1	9,727.7	7,659.1	6,743.9	351.7	563.4	2,068.6	820.7	1,247.9	2,866.4	1,264.5 1,304.0
	German c	ontributio	n (€ billion) ²							
2001 Aug. Sep.	4,298.5 4,323.3	3,293.6 3,288.4	2,566.3 2,575.0	2,256.4 2,269.7	62.8 63.7	247.0 241.6	727.3 713.3	498.1 495.0	229.3 218.3	780.0 808.1	224.9 226.8
Oct. Nov.	4,334.4 4,336.2	3,288.4 3,303.9	2,579.9 2,587.2	2,271.3 2,279.0	64.4 64.8	244.2 243.4	708.6 716.6	496.2 506.6	212.4 210.0	818.3 837.9	227.6 194.5
Dec. 2002 Jan.	4,328.2 4,321.4	3,321.6 3,315.2	2,608.3 2,600.6	2,289.4 2,280.2	66.0 66.9	252.9 253.4	713.3 714.6	499.3 499.7	213.9 215.0	821.2 820.0	185.4 186.2
Feb. Mar.	4,321.4 4,322.9 4,334.0	3,316.3 3,315.0	2,600.0 2,600.1 2,597.6	2,280.2 2,283.4 2,290.4	65.1 67.2	251.6 240.1	714.0 716.2 717.4	495.7 497.1 495.4	219.1 219.1 221.9	822.1 829.6	184.4 189.3
Apr. May June	4,330.7 4,341.9 4,291.6	3,324.0 3,327.7 3,309.3	2,605.7 2,606.9 2,596.0	2,293.1 2,294.6 2,294.8	69.0 69.2 69.7	243.7 243.2 231.6	718.3 720.8 713.3	491.2 485.6 480.4	227.1 235.2 232.8	816.6 827.5 800.0	190.1 186.7 182.3
July Aug.	4,303.6 4,307.0	3,317.5 3,315.3	2,589.5 2,594.9	2,291.3 2,289.8	69.8 67.1	228.4 238.0 237.3	728.0 720.4 722.2	489.0 479.8	239.0 240.6 245.2	801.2 810.2 841.9	184.9 181.5 186.1
Sep. Oct.	4,355.6 4,370.5	3,327.5 3,332.3	2,605.3 2,611.3	2,301.6 2,299.8	66.5 69.8	241.7	721.0	477.0 480.4	240.6	850.3	188.0
Nov.	4,413.9 German c	3,341.0 contributio	l 2,615.3 n (DM billi	on) ²	69.6	246.2	725.8	481.7	244.1	879.3	193.5
2001 Aug. Sep.	8,407.1 8,455.7	6,441.7 6,431.5	5,019.2 5,036.3	, 4,413.2 4,439.2	122.9 124.5	483.1 472.6	1,422.5 1,395.2	974.1 968.1	448.4 427.0	1,525.5 1,580.6	439.9 443.6
Oct. Nov.	8,477.3 8,481.0	6,431.6 6,461.8	5,045.8 5,060.2	4,442.3 4,457.3	126.0 126.7	477.5 476.1	1,385.8 1,401.6	970.5 990.9	415.3 410.7	1,600.5 1,638.7	445.1 380.5
Dec.	8,465.3 8,451.0	6,496.5	5,101.4	4,477.7	129.1	494.7	1,395.0	976.6	418.4 420.4	1,606.2	362.6
2002 Jan. Feb. Mar.	8,451.9 8,454.8 8,476.5	6,484.0 6,486.2 6,483.6	5,086.3 5,085.4 5,080.5	4,459.7 4,465.9 4,479.6	130.9 127.4 131.4	495.7 492.1 469.5	1,397.7 1,400.8 1,403.1	977.3 972.2 969.0	420.4 428.6 434.1	1,603.7 1,607.8 1,622.6	364.2 360.7 370.3
Apr. May June	8,470.2 8,492.0 8,393.6	6,501.2 6,508.4 6,472.4	5,096.3 5,098.7 5,077.4	4,484.9 4,487.8 4,488.2	134.9 135.3 136.2	476.6 475.6 452.9	1,404.8 1,409.8 1,395.0	960.6 949.7 939.6	444.2 460.0 455.4	1,597.2 1,618.4 1,564.7	371.8 365.2 356.6
July Aug.	8,417.2 8,423.8	6,488.5 6,484.3	5,064.7 5,075.2	4,481.5 4,478.5	136.6 131.2	446.6 465.5	1,423.8 1,409.0	956.4 938.4	467.4 470.6	1,567.0 1,584.5	361.7 355.0
Sep. Oct.	8,518.8 8,548.0	6,508.1 6,517.3		4,501.5 4,497.9	130.0 136.5	464.1 472.7	1,412.5 1,410.1	932.9 939.5	479.7 470.6	1,646.6 1,663.0	364.0 367.6
Nov.	8,632.8	6,534.5	5,115.0	4,497.3	136.2	481.5	1,419.5	942.1	477.4	1,719.7	378.5

^{*} Monetary financial institutions (MFIs) comprise banks (including building and loan associations), money market funds, and the European Central Bank and central banks (the Eurosystem). — 1 Source: ECB. — 2 Owing to changes in the definitions of the items and differences in the range of reporting institutions, the figures are not comparable with those published for

Germany up to the end of 1998. — 3 Including money market paper of enterprises. — 4 Including Treasury bills and other money market paper of public authorities. — 5 From 2002 euro currency in circulation plus outstanding national banknotes and coins. Excluding MFIs' cash in hand (in euro). From 2002 the German contribution contains the euro banknote

II. Overall monetary survey in the European monetary union

iabilities										
	Deposits of nor	n-banks (non-MF	Ī							
			Enterprises and	d individuals	laga I			I ,		
					With agreed maturities of			At agreed notice of 7		
Currency n circulation 5	Total	in euro 6	Total	Overnight	up to 1 year	over 1 year up to 2 years	over 2 years	up to 3 months	over 3 months	Perio
irculation 3	Tiotai	III euro v	Total	Overnight	i yeai			tary union (renoc
319.2	5,424.1	5,070.7	l 5.117.3	1,617.5	l 949.6	81.4	1,134.7	1,215.3	118.9	2001
309.6		5,132.4	5,170.9	1,680.4	933.4	81.5	1,134.7	1,213.3	118.0	2001
295.5 279.7 239.7	5,554.1	5,144.7 5,200.8	5,183.4 5,249.5 5,403.1	1,678.9 1,728.6 1,826.5	938.6 944.2 952.3	81.1 79.9 80.0	1,136.1 1,134.9	1,232.4 1,246.6 1,286.5	116.4 115.3 115.3]
246.5	1	5,360.0 5,318.9	5,363.4	1,773.6	948.3	79.5	1,142.4 1,146.2	1,304.0	111.8	2002
240.3 254.3	5,671.9	5,311.3 5,327.3	5,359.8 5,376.5	1,768.1 1,769.8	946.9 954.6	78.7 80.4	1,148.1 1,151.5	1,307.2 1,310.6	110.8 109.5	F
261.7 273.9	5,711.7 5,714.0	5,355.4 5,366.7	5,401.0 5,409.7	1,797.8 1,801.1	959.7 961.3	81.0 81.5	1,150.8 1,153.0	1,304.2 1,306.4	107.5 106.4	ĺ
285.8	1	5,407.9	5,438.3	1,844.4	938.5	81.5	1,155.0	1,312.7	106.2]
296.8 301.2 306.7	5,688.8	5,384.9 5,358.6 5,398.5	5,422.5 5,396.2 5,434.8		948.3 959.7 941.2	82.6 83.3 82.6	1,154.1 1,142.5 1,143.6	1,315.4 1,320.6 1,323.1	106.2 106.4 106.8	,
313.9 321.4		5,409.9 5,466.4	5,445.8 5,504.8	1,818.9 1,870.8	964.4 957.6	82.6 82.1	1,144.8 1,148.6	1,329.3 1,340.4	105.8 105.3	(
							German co	ntribution ((€ billion) ²	
110.5 105.8		1,960.9 1,979.0	1,922.0 1,939.6		240.7 240.0	18.1 18.3	649.7 650.5	440.9 441.9	117.0 116.2	2001 /
99.9 92.4	2,077.6	1,982.9 2,006.3	1,945.0 1,973.0	475.5 504.0	241.8 240.7	18.6 18.7	650.0 648.7	444.8 447.5	114.4 113.5	0
68.0	2,135.1	2,048.0	2,010.0	519.0	244.7	18.6	650.2	463.9	113.6	[
8 63.8 68.3 70.9	2,108.1	2,024.0 2,019.4 2,021.9	1,989.9 1,986.2 1,989.1	506.4 505.6 504.1	236.6 235.1 237.3	18.5 17.1 17.1	652.0 653.5 656.8	466.4 465.9 465.9	110.0 109.0 107.8	2002 J F I
74.0	2,100.4	2,015.8	1,984.7	513.9	234.0	17.1	655.2	458.6	105.9	,
76.5 79.8		2,023.6 2,035.6	1,987.3 1,997.1	519.1 530.9	234.2 234.4	17.1 17.3	654.1 653.0	457.9 457.0	104.8 104.6	
83.4		2,030.5	1,993.2	525.8	235.8	17.6	653.9	455.5	104.6	یا
84.3 85.9		2,018.1 2,023.7	1,979.2 1,987.6	521.5 536.6	239.6 233.0	17.6 17.5	640.1 639.6	455.6 456.5	104.8 104.3	9
87.4 89.9		2,035.2 2,066.9	2,003.0 2,035.6	538.0 569.5	243.7 237.6	17.5 17.9	641.5 645.7	458.8 462.0	103.5 102.9	1
						G	erman cont	ribution (D l	M billion) ²	
216.0 207.0		3,835.2 3,870.7	3,759.1 3,793.6	891.1 924.5	470.8 469.4	35.4 35.9	1,270.7 1,272.2	862.3 864.3	228.8 227.3	2001 /
195.4		3,878.2	3,804.2		472.9	36.3	1,271.3	869.9	223.8	
180.7 132.9	4,175.9	3,924.1 4,005.5	3,858.9 3,931.2	1,015.2	470.7 478.6	36.5 36.4	1,268.7 1,271.6	875.2 907.4	222.0 222.1	
8 124.8 133.6		3,958.6 3,949.5	3,891.8 3,884.6	990.5 988.8	462.7 459.9	36.2 33.5	1,275.2 1,278.1	912.2 911.3	215.1 213.1	2002 J
138.7	4,125.0	3,954.6	3,890.3	986.0	464.2	33.5	1,284.6	911.3	210.9	'
144.7 149.6		3,942.5 3,957.8	3,881.8 3,886.7	1,005.1 1,015.2	457.6 458.1	33.5 33.5	1,281.5 1,279.4	897.0 895.7	207.1 204.9	
156.0	4,145.0	3,981.3	3,906.0	1,038.3	458.5	33.8	1,277.2	893.8	204.5	
163.2 165.0		3,971.2 3,947.1	3,898.4 3,871.0	1,028.4 1,020.0	461.2 468.6	34.4 34.5	1,279.0 1,252.0	890.9 891.0	204.6 204.9	
168.1	4,118.3	3,958.0	3,887.3	1,049.4	455.7	34.3	1,251.0	892.9	204.0	:
170.9 175.8		3,980.5 4,042.5	3,917.6 3,981.3		476.7 464.7	34.3 35.1	1,254.7 1,262.9	897.2 903.6	202.4 201.3	

volume put into circulation by the Bundesbank according to the accounting regime chosen by the Eurosystem (see footnote 4 on banknote circulation in Table III.2). The volume of currency actually put into circulation by the Bundesbank can be calculated by adding to this total the item "Intra-Eurosystem liability/claim related to banknote issue" (see "Other

liability items"). — **6** Excluding central governments deposits. — **7** In Germany, only saving deposits. — **8** Includes decrease of ε 11.6 billion (DM22.7 billion) owing to the changed method of recording banknote circulation (see also footnote 5).

- II. Overall monetary survey in the European monetary union
- 2. Consolidated balance sheet of monetary financial institutions (MFIs) (cont'd)*

	Liabilities (d	cont'd)											
	Deposits of	non-banks (non-MFIs) in	the euro are	ea (cont'd)								
	Public auth	orities							Repo transa			Debt securi	ties
		Other publi	c authorities						with counte in the euro				
				With agreed maturities of			At agreed notice of 3				Money		
Period	Central govern- ments	Total	Overnight	up to 1 year	over 1 year up to 2 years	over 2 years	up to 3 months	over 3 months	Total	Enterprises and individuals	market	Total	denom- inated in euro
renou		an monet				2 years	3 months	3 months	iotai	muividuais	(net) 17	iotai	iii edio
2001 Aug.	154.8	152.0	63.8 69.5	56.1	1.8	27.3	2.5	0.6	230.8	225.3	380.7	1,728.7 1,752.3	1,383.1
Sep.	149.4	155.5	69.5	54.4	1.6	27.0	2.5	0.6	225.7	220.2	384.7	1,752.3	1,396.0
Oct.	154.7	156.3	71.4	53.4	1.6	26.8	2.5	0.5	235.1	227.2	395.9	1,766.5	1,399.2
Nov.	151.8	152.8	69.5	51.9	1.6	26.7	2.6	0.5	225.9	218.3	404.5	1,758.8	1,372.7
Dec.	140.3	156.0	69.7	54.9	1.7	26.7	2.6	0.5	218.5	214.6	402.0	1,760.1	1,376.4
2002 Jan.	150.0	157.3	74.1	51.4	1.7	27.0	2.5	0.5	216.2	211.4	420.8	1,775.4	1,375.2
Feb.	156.3	155.7	75.1	49.4	1.7	26.6	2.5	0.5	221.1	215.8	431.6	1,778.3	1,380.2
Mar.	157.5	152.3	69.3	51.8	1.6	26.7	2.5	0.5	229.6	224.9	435.9	1,793.8	1,389.4
Apr.	158.0	152.7	71.9	50.0	1.4	26.6	2.5	0.4	228.1	223.8	442.2	1,785.7	1,382.9
May	149.4	154.8	68.8	55.2	1.4	26.6	2.4	0.4	234.8	230.7	447.3	1,805.2	1,392.3
June	155.3	156.0	71.6	53.3	1.5	26.7	2.4	0.4	229.6	225.9	443.7	1,788.7	1,392.4
July	152.4	151.3	69.3	51.4	1.5	26.3	2.4	0.4	228.8	224.9	455.5	1,796.2	1,398.4
Aug.	141.7	150.8	67.8	52.4	1.5	26.3	2.4	0.4	236.5	231.9	468.7	1,814.2	1,415.6
Sep.	149.3	149.2	70.7	48.5	1.3	25.9	2.4	0.4	240.0	236.0	461.7	1,814.3	1,418.0
Oct.	154.6	147.4	72.2	45.3	1.3	25.6	2.5	0.4	237.2	233.7	464.0	1,824.3	1,416.2
Nov.	151.1	147.6	72.0	45.7	1.3	25.6	2.5	0.4	230.7	226.8	478.6	1,832.2	1,423.2
	German	contribu	ıtion (€ b	illion) ²									
2001 Aug.	60.0	77.2	13.3	37.6	1.0	23.1	1.7	0.6	4.6	4.6	26.5	811.4	705.5
Sep.	57.0	78.5	15.4	36.9	1.0	23.0	1.7	0.6	2.8	2.8	28.0	815.5	709.0
Oct.	55.4	77.1	15.3	35.8	1.0	22.8	1.7	0.5	9.4	9.4	29.6	813.4	707.5
Nov.	56.6	73.6	14.7	33.0	1.0	22.7	1.7	0.5	4.0	4.0	30.7	792.9	678.1
Dec.	49.1	75.9	14.6	35.2	1.2	22.7	1.7	0.5	4.9	4.9	32.6	791.9	676.0
2002 Jan.	50.1	73.3	13.6	33.3	1.2	23.0	1.7	0.5	2.5	2.5	34.5	795.7	672.2
Feb.	49.4	72.5	13.8	32.6	1.2	22.7	1.7	0.5	3.5	3.5	35.4	801.2	678.8
Mar.	49.4	70.6	12.6	32.0	1.2	22.8	1.6	0.5	3.7	3.7	35.8	811.6	687.2
Apr.	47.5	68.2	11.8	30.6	1.0	22.7	1.6	0.4	3.4	3.4	35.9	808.5	685.1
May	48.2	72.3	12.4	34.2	1.0	22.7	1.6	0.4	4.7	4.7	35.4	810.5	683.8
June	48.7	73.5	13.8	34.1	1.1	22.6	1.6	0.4	4.1	4.1	35.0	805.1	684.0
July	47.6	71.7	13.9	32.3	1.0	22.5	1.5	0.4	3.1	3.1	35.6	813.3	687.2
Aug.	48.9	70.7	13.0	32.2	1.0	22.6	1.6	0.4	4.3	4.3	37.1	836.1	702.8
Sep.	49.9	68.2	13.1	30.0	0.9	22.2	1.6	0.4	10.7	10.7	37.0	837.1	702.4
Oct. Nov.	48.3 47.7	63.7	12.8	26.0	0.9 0.9	22.0 21.9	1.6	0.4 0.4	9.6	9.6 6.4	37.6 37.5	840.5 841.3	695.4 691.9
1404.	1	contribu				21.3	1.0	0.4	0.4	0.1	37.3	041.5	051.51
2001 Aug.	117.3	151.0	26.0	73.5	2.0	45.1	3.3	1.1	8.9	8.9	51.8	1,586.9	1,379.9
Sep.	111.5	153.6	30.1	72.1	2.0	45.0	3.3	1.1	5.6	5.6	54.7	1,595.1	1,386.7
Oct.	108.4	150.8	30.0	70.0	2.0	44.5	3.3	1.0	18.3	18.3	57.8	1,590.9	1,383.8
Nov.	110.6	144.0	28.7	64.5	2.0	44.4	3.4	1.0	7.9	7.9	60.0	1,550.7	1,326.2
Dec.	96.1	148.5	28.6	68.9	2.3	44.4	3.4	1.0	9.7	9.6	63.7	1,548.9	1,322.2
2002 Jan.	98.0	143.3	26.6	65.1	2.4	45.0	3.3	0.9	5.0	5.0	67.6	1,556.3	1,314.8
Feb.	96.7	141.8	27.0	63.8	2.4	44.4	3.3	0.9	6.9	6.9	69.2	1,567.0	1,327.7
Mar.	96.6	138.1	24.6	62.6	2.4	44.5	3.2	0.9	7.2	7.2	70.0	1,587.3	1,344.1
Apr.	92.9	133.3	23.1	59.9	2.0	44.4	3.1	0.9	6.6	6.6	70.2	1,581.3	1,339.9
May	94.3	141.4	24.2	66.8	2.0	44.4	3.1	0.9	9.2	9.2	69.3	1,585.2	1,337.4
June	95.2	143.8	26.9	66.7	2.1	44.2	3.0	0.9	8.1	8.1	68.5	1,574.7	1,337.8
July	93.1	140.3	27.2	63.2	2.0	44.1	3.0	0.8	6.1	6.1	69.7	1,590.6	1,344.1
Aug.	95.7	138.3	25.3	62.9	2.0	44.1	3.1	0.8	8.3	8.3	72.5	1,635.3	1,374.5
Sep.	97.7	133.3	25.5	58.7	1.8	43.4	3.1	0.8	20.8	20.8	72.3	1,637.3	1,373.7
Oct.	94.5	124.6	25.1	50.9	1.7	43.0	3.0		18.9	18.9	73.6	1,643.9	1,360.2
Nov.	93.2							0.8		18.9 12.5	73.3		

^{*} Monetary financial institutions (MFIs) comprise banks (including building and loan associations), money market funds, and the European Central Bank and central banks (the Eurosystem). — 1 Source: ECB. — 2 Owing to changes in the definitions of the items and differences in the range of reporting institutions, the figures are not comparable with those published for Germany up to the end of 1998. — 3 In Germany: only savings deposits. — 4 Excluding holdings of MFIs; for the German contribution: excluding German MFIs portfolios of securities issued by MFIs in the euro area. — 5 In Germany, bank debt securities with maturities of up to one year are classed as money market paper; up to the January 2002 Monthly Report they were

published in this table together with money market fund certificates. — 6 Paper held by residents outside the euro area has been eliminated. — 7 Excluding liabilities arising from securities issued. — 8 After deduction of Inter-MFI participations. — 9 The German contributions to the Eurosystem's monetary aggregates should on no account be interpreted as national monetary aggregates, and are therefore not comparable to the erstwhile German money stocks M1, M2 or M3. — 10 Currency in circulation (from 2002 euro currency in circulation plus outstanding national banknotes and coins), overnight deposits (excluding central governments' deposits), and (for EMU) central governments' overnight monetary liabilities,

II. Overall monetary survey in the European monetary union

								Memo item	ı				
						Other liabi	ity items	Monetary a	ggregates 9				
issued (net)	4												
With matur up to 1 year 5,6	over 1 year up to 2 years 6	over 2 years	Liabilities to non- euro-area residents 7	Capital and reseves 8	Excess of inter-MFI liabilities	Total	Intra- Eurosystem- liability/ claim related to banknote issue 15	M1 10	M2 11	M3 6,12	Monetary capital formation 13	Monetary liabilities of central govern- ments (Post, Office, Treasury) 14	Period
								Eur	opean m	onetary ı	union (€ l	oillion) ¹	
91.2 94.9	51.3 52.7	1,586.2 1,604.7	2,620.1 2,639.9	959.9 970.4	- 8.6 18.7		-	2,066.7 2,124.7	4,448.4 4,495.3	5,202.4 5,253.4		141.3 140.8	2001 Aug. Sep.
98.3 97.4 89.0	51.1 54.9 57.6	1,617.0 1,606.6 1,613.6	2,661.6 2,726.2 2,719.1	981.1 982.6 995.2		1,632.4	=	2,111.6 2,144.3 2,207.9	4,497.9 4,548.2 4,664.6	5,278.4 5,330.8 5,430.9		142.5 143.7 150.7	Oct. Nov. Dec.
96.6 90.2 89.4	45.9 49.3 48.6	1,632.9 1,638.8 1,655.8	2,755.2 2,763.3 2,786.6	1,007.6 1,011.5 1,010.6	1.1	1,538.9	=	2,168.3 2,157.4 2,168.5	4,639.7 4,628.6 4,654.8	5,418.6 5,420.1 5,457.6	3,936.2	158.0 158.7 159.8	2002 Jan. Feb. Mar.
84.5 93.8 84.8	51.0 50.8 48.8	1,650.2 1,660.5 1,655.2	2,769.2 2,750.3 2,615.4	1,004.5 1,008.7 985.7	- 8.9 - 7.3 10.7	1,485.2	=	2,207.2 2,219.3 2,277.9	4,691.2 4,712.8 4,752.8	5,496.2 5,539.0 5,558.9		161.0 160.8 161.0	Apr. May June
77.5 80.1 84.8	48.6 47.0 48.0	1,670.1 1,687.0 1,681.6	2,642.9 2,610.9 2,672.4	993.3 1,004.2 1,016.0	- 2.9 - 0.2 - 5.7	1,525.4	=	2,256.1 2,228.4 2,290.9	4,742.8 4,734.2 4,775.6	5,552.7 5,566.0 5,609.4		159.2 161.6 161.5	July Aug. Sep.
86.4 84.1	48.3 48.3		2,695.4 2,734.7	1,014.1 1,017.4	3.4		_		4,793.3 4,857.4	5,628.6 5,698.4		162.7 163.5	Oct. Nov.
									Germa	n contrib	ution (€ l	oillion) ²	
19.3 19.4	41.6 42.6	750.5 753.5	745.8 746.5	260.9 259.6			:	579.4 593.9	1,319.4 1,333.8	1,411.2 1,426.6		-	2001 Aug. Sep.
19.1 16.9 17.9	39.6 42.4 44.5	754.6 733.6 729.5	747.4 736.7 702.1	263.0 264.4 265.3	- 37.5	331.6 333.7	- -	590.7 611.1 601.6	1,334.3 1,353.7 1,367.0	1,432.0 1,447.7 1,466.9	1,805.4 1,783.4	- - -	Oct. Nov. Dec.
22.4 22.3 22.7	35.1 37.6 37.7	738.2 741.2 751.2	724.3 721.4 721.6	267.2 272.1 272.4	- 0.1 - 0.6 - 2.7	313.4	11.6 8.2 11.6	587.7	1,341.5 1,341.4 1,342.8	1,436.1 1,440.2 1,442.6		- -	2002 Jan. Feb. Mar.
22.9 25.2 23.1	38.7 39.4 38.1	746.9 745.9 743.9	728.3 730.3 687.4	270.0 269.8 265.5	- 8.2	315.1	12.9 15.7 16.7	607.9	1,342.7 1,354.0 1,369.8	1,441.9 1,458.7 1,470.1	1,801.1 1,797.8 1,790.1	- -	Apr. May June
21.9 24.5 24.4	38.7 37.5 36.8	752.7 774.2 775.9	705.4 698.5 713.6	267.7 272.4 274.4		326.0	18.8 22.0 24.1	618.8	1,366.9 1,366.4 1,375.1	1,466.2 1,469.6 1,483.9	1,814.5	- - -	July Aug. Sep.
28.2 29.7	37.1 36.9	775.2 774.7	706.9 716.9	272.8 274.2			26.2 27.6	638.2 672.5	1,386.7 1,418.7	1,499.3 1,529.2		_	Oct. Nov.
								(German d	ontribut	ion (DM l	oillion) ²	
37.7 37.9	81.3 83.4	1,467.9 1,473.8	1,458.6 1,460.1	510.3 507.8			:	1,133.2 1,161.6	2,580.5 2,608.7	2,760.2 2,790.2		-	2001 Aug. Sep.
37.4 33.0 35.1	77.5 82.9 87.0	1,475.9 1,434.8 1,426.8	1,461.8 1,440.8 1,373.1	514.5 517.2 518.9	- 42.6	652.7	- -	1 4405 0	2,609.6 2,647.6 2,673.6	2,800.7 2,831.4 2,869.1	3,488.0	- -	Oct. Nov. Dec.
43.9 43.7 44.5	68.6 73.6 73.6	1,443.8 1,449.7	1,416.6 1,411.0 1,411.4	522.6 532.1 532.8	- 0.3 - 1.1	626.3 613.0	22.7 16.1 22.7	1,141.9 1,149.4	2,623.7 2,623.5 2,626.3	2,808.8 2,816.9 2,821.6	3,502.5 3,518.3	- -	2002 Jan. Feb. Mar.
44.8 49.3 45.1	75.7 77.0 74.6		1,424.5 1,428.3 1,344.4	528.0 527.7 519.3	_ 16. ⁻	616.4	25.2 30.7 32.8		2,626.0 2,648.2 2,679.1	2,820.1 2,853.0 2,875.4		- - -	Apr. May June
42.9 47.8 47.7	75.6 73.3 71.9		1,379.6 1,366.1 1,395.7	523.6 532.8 536.6	- 98.8	637.6	36.7 43.0 47.2		2,673.3 2,672.4 2,689.4	2,867.6 2,874.3 2,902.2	3,524.2 3,548.9	- -	July Aug. Sep.
55.2 58.1			1,382.6 1,402.0						2,712.1 2,774.6	2,932.4 2,990.8			Oct. Nov.

which are not included in the consolidated balance sheet. From 2002 the German contribution contains the euro banknote volume put into circulation by the Bundesbank according to the accounting regime chosen by the Eurosystem (see footnote 4 on banknote circulation in Table III.2). The volume of currency actually put into circulation by the Bundesbank can be calculated by adding to this total the item "Intra-Eurosystem liability/claim related to banknote issue". — 11 M1 plus deposits with agreed maturities of up to 2 years and at agreed notice of up to 3 months (excluding central governments' deposits) and (for EMU) central

governments' monetary liabilities with such maturities. — 12 M2 plus repo transactions, money market fund certificates, money market paper and debt securities up to 2 years. — 13 Deposits with agreed maturities of over 2 years and at agreed notice of over 3 months, debt securities with maturities of over 2 years, capital and reserves. — 14 Non-existent in Germany. — 15 For the German contibution: the difference between the volume of euro banknotes actually issued by the Bundesbank and the amount disclosed according to the accounting regime chosen by the Eurosystem (see also footnote 4 on banknote circulation in Table III.2).

II. Overall monetary survey in the European monetary union

3. Banking system's liquidity position * Stocks

€ billion; period averages of daily positions

		riod averages		tions								
	Liquidity-pro	viding factor				Liquidity-ak	sorbing facto	rs 				
		Monetary po	olicy operatio	ns of the Eu	rosystem				I			
Maintenance period ending in 1	Net assets in gold and foreign currency	Main refinancing operations	Longer- term refinancing operations	Marginal lending facility	Other liquidity- providing operations	Deposit facility	Other liquidity- absorbing operations	Banknotes in circulation ³		Other factors (net) 4	Credit institutions' current accounts (including minimum reserves) 5	Base money 6
	Eurosyst	em 2										
2000 July Aug. Sep.	380.8 382.0 381.6	157.9 163.1 173.1	59.9 55.4 51.1	0.4 0.1 0.3	_ _ _	0.5 0.3 0.2	=	357.0 359.2 354.8	50.4 48.8 56.6	76.8 80.0 81.2	114.2 112.4 113.3	471.7 471.9 468.3
Oct. Nov. Dec.	396.3 398.6 394.4	176.5 183.7 210.4	45.7 45.0 45.0	0.5 0.2 0.4	- - -	0.2 0.2 0.2	- -	354.5 352.7 360.4	47.4 49.8 61.1	102.5 109.2 111.1	114.4 115.7 117.4	469.1 468.6 478.0
2001 Jan. ⁷ Feb. Mar.	383.7 377.9 375.6	205.3 188.9 185.2	45.0 49.8 54.1	0.5 2.6 0.4	- - -	0.6 0.4 0.5	- -	368.3 354.8 353.0	52.2 57.0 53.0	94.2 86.3 87.7	119.1 120.7 121.0	488.0 476.0 474.5
Apr. May June	382.1 384.4 385.0	172.4 144.0 161.7	58.4 59.1 59.1	2.2 0.4 0.2	17.0 -	0.5 0.6 0.4	- - -	354.6 352.7 351.1	49.5 39.4 41.3	89.1 87.5 87.5	121.4 124.8 125.7	476.4 478.1 477.3
July Aug. Sep.	397.6 402.1 401.3	161.9 164.0 147.1	59.9 60.0 60.0	0.2 0.1 0.5	- 3.5	0.4 0.2 0.4	- -	350.8 347.6 335.4	42.5 48.8 45.2	98.8 101.8 105.4	127.1 127.8 126.1	478.3 475.6 461.9
Oct. Nov. Dec.	389.9 385.0 383.7	136.7 132.3 122.5	60.0 60.0 60.0	1.1 0.2 0.5	- 12.4	0.1 0.3 0.8	- - -	325.2 311.3 298.0	43.6 46.1 43.5	93.6 93.1 109.3	125.1 126.7 127.4	450.4 438.3 426.2
2002 Jan. Feb. Mar.	385.2 386.0 386.7	118.5 127.3 114.6	60.0 60.0 60.0	0.4 0.2 0.2	3.7 - -	0.6 0.1 0.1	- - -	344.3 306.2 283.3	38.3 49.6 54.2	54.2 85.2 91.8	130.4 132.6 132.1	475.2 438.8 415.6
Apr. May June	395.4 397.7 396.2	112.7 110.6 112.6	60.0 60.0 60.0	0.4 0.1 0.5	- - -	0.2 0.3 0.4	- - -	285.9 293.7 300.8	55.9 49.2 45.1	95.3 93.5 91.2	131.2 131.7 131.8	417.3 425.6 433.0
July Aug. Sep.	369.1 360.0 362.3	130.4 139.2 140.9	60.0 55.2 50.8	0.2 0.1 0.1	- - -	0.2 0.1 0.2	- - -	313.4 322.7 323.6	54.4 50.9 49.1	60.3 50.8 51.7	131.4 129.9 129.6	445.0 452.8 453.4
Oct. Nov. Dec.	370.0 372.1 371.5	146.1 147.5 168.1	45.3 45.0 45.0	0.1 0.1 1.1	- 2.0	0.1 0.1 0.2	- - -	329.2 334.0 350.7	45.6 42.8 51.7	58.2 58.6 55.5	128.3 129.3 129.5	457.6 463.4 480.5
	Deutsch	e Bundesk	oank									
2000 July Aug. Sep.	93.4 93.0 92.6	67.9 71.6 81.9	33.3 34.9 33.8	0.2 0.1 0.3	- - -	0.4 0.1 0.1	- - -	131.8 131.9 131.4	0.1 0.1 0.1	27.6 33.1 42.6	35.1 34.5 34.4	167.2 166.5 165.9
Oct. Nov. Dec.	97.0 98.2 97.6	87.2 99.1 103.5	30.7 30.7 31.1	0.3 0.2 0.2	- - -	0.1 0.1 0.1	- - -	131.1 130.1 132.0	0.1 0.1 0.1	49.5 63.0 65.0	34.5 34.9 35.2	165.7 165.1 167.4
2001 Jan. Feb. Mar.	93.0 90.3 89.1	103.1 93.2 87.6	28.4 28.3 33.2	0.3 1.3 0.2	- - -	0.3 0.2 0.4	- -	131.2 126.7 126.2	0.1 0.1 0.1	57.7 50.0 47.6	35.6 36.2 35.9	167.1 163.1 162.4
Apr. May June	90.1 90.0 89.7	84.5 67.4 79.9	37.4 37.8 37.5	1.5 0.2 0.1	7.5 -	0.2 0.5 0.3	- -	126.2 124.8 123.6	0.1 0.1 0.1	50.7 47.6 45.7	36.4 37.4 37.5	162.8 162.7 161.4
July Aug. Sep.	92.8 94.2 93.7	85.4 77.0 73.3	37.0 38.2 38.9	0.1 0.1 0.1	- 1.3	0.3 0.2 0.1	- - -	121.8 119.3 115.4	0.1 0.1 0.1	55.5 52.0 54.6	37.7 37.8 37.1	159.7 157.3 152.7
Oct. Nov. Dec.	91.3 89.8 89.4	66.3 68.2 62.4	40.2 38.5 40.1	0.5 0.2 0.2	- 5.0	0.1 0.2 0.5	- - -	110.8 104.6 96.6	0.1 0.1 0.1	50.1 53.8 67.1	37.3 38.0 37.8	148.2 142.9 134.9
2002 Jan. Feb. Mar.	89.9 89.9 90.0	63.3 63.3 58.5	41.1 42.4 40.7	0.3 0.1 0.2	1.4 - -	0.3 0.0 0.1	- -	91.7 78.5 79.7	0.1 0.1 0.1	64.9 78.6 71.2	39.0 38.6 38.3	131.0 117.2 118.1
Apr. May June	92.3 92.3 91.6	57.6 53.1 60.6	40.4 39.7 38.8	0.3 0.1 0.1	- - -	0.2 0.3 0.3	- - -	80.8 83.8 85.4	0.1 0.1 0.1	71.8 63.1 67.3	37.9 38.0 38.1	118.8 122.0 123.8
July Aug. Sep.	84.7 82.5 82.4	67.6 63.1 64.4	37.1 36.4 32.7	0.2 0.0 0.1	- - -	0.2 0.1 0.1	- - -	89.2 92.2 92.4	0.1 0.1 0.0	62.0 51.8 49.1	38.1 37.9 37.9	127.5 130.2 130.4
Oct. Nov. Dec.	84.0 84.3 84.4	69.0 73.2 91.1	31.7 31.6 33.8	0.1 0.1 0.9	- 0.7	0.1 0.1 0.2	- -	94.0 94.6 99.3	0.1 0.1 0.1	53.0 56.5 73.5	37.6 37.9 37.8	131.6 132.6 137.3

Discrepancies may arise from rounding. — * The banking system's liquidity position is defined as the current account holdings in euro of credit institutions in the euro area with the Eurosystem. Amounts are derived from the consolidated financial statement of the Eurosystem and the statement of the Bundesbank. — 1 The reserve maintenance period of the ESCB minimum reserve system starts on the 24th of each month and ends on the 23rd of the following month. — 2 Source: ECB. — 3 From 2002, euro banknotes and

other banknotes which have been issued by the national central banks of the Eurosystem and which are still in circulation. In accordance with the accounting procedure chosen by the Eurosystem for the issue of euro banknotes, 8% of the total value of the euro banknotes in circulation are allocated on a monthly basis to the ECB. The counterpart of this adjustment is shown under "Other factors". The remaining 92% of the value of the euro banknotes in circulation are allocated, likewise on a monthly basis, to the

II. Overall monetary survey in the European monetary union

Flows

Liquid	lity-pro	oviding facto	ors			Liquidity-a	absorbing facto	rs					
'		Monetary p	olicy operation	ons of the Eu	ırosystem]					
Net a in gol and fo curre	d oreign	Main refinancing operations	Longer- term refinancing operations	Marginal lending facility	Other liquidity- providing operations	Deposit facility	Other liquidity- absorbing operations	Banknotes in circulation ³	Central government deposits	Other factors (net) 4	Credit institutions' current accounts (including minimum reserves) 5	Base money 6 ystem 2	Maintenance period ending in 1
+	2.7	+ 17.0	0.0	+ 0.1	- 0.2	- 0.3	3 -	+ 2.9 + 2.2	+ 12.1	+ 4.7	- 0.0	-	2000 July
+	1.2 0.4	+ 5.2 + 10.0	! – 4.5	- 0.3	_	- 0.3 - 0.2 - 0.1		+ 2.2 - 4.4	- 1.6 + 7.8	+ 3.2	- 1.8 + 0.9	+ 0.2 - 3.6	Aug. Sep.
+ + -	14.7 2.3 4.2	+ 3.4 + 7.2 + 26.7	! – 0.7	- 0.3	=	+ 0.0 + 0.0 + 0.0) -	- 0.3 - 1.8 + 7.7	- 9.2 + 2.4 + 11.3		+ 1.1 + 1.3 + 1.7	+ 0.8 - 0.5 + 9.4	Oct. Nov. Dec.
=	10.7 5.8 2.3	- 5.1 - 16.4 - 3.7	4 + 4.8	+ 2.1	=	+ 0.4 - 0.2 + 0.1	2 -	+ 7.9 - 13.5 - 1.8	- 8.9 + 4.8 - 4.0		+ 1.7 + 1.6 + 0.3	+ 10.0 - 12.0 - 1.5	2001 Jan. 7 Feb. Mar.
+ +	6.5 2.3 0.6	- 12.8 - 28.4 + 17.7	+ 4.3 + 0.7	+ 1.8 - 1.8	+ 17.0 - 17.0	- 0.0 + 0.1 - 0.2	- -	+ 1.6 - 1.9 - 1.6	- 3.5 - 10.1 + 1.9	+ 1.4 - 1.6 ± 0.0	+ 0.4 + 3.4 + 0.9	+ 1.9 + 1.7 - 0.8	Apr. May June
++	12.6 4.5 0.8	+ 0.2 + 2.1 - 16.9	+ 0.8	+ 0.0 - 0.1	+ 3.5	+ 0.0 - 0.2 + 0.2	2 -	- 0.3 - 3.2 - 12.2	+ 1.2 + 6.3	+ 11.3 + 3.0	+ 1.4 + 0.7 - 1.7	+ 1.0 - 2.7 - 13.7	July Aug. Sep.
=	11.4 4.9	- 10.4 - 4.4	+ 0.0 - 0.0	+ 0.6 - 0.9	- 3.5	- 0.3 + 0.2	<u> </u>	- 10.2 - 13.9	- 1.6 + 2.5	- 11.8 - 0.5	- 1.0 + 1.6	- 11.5 - 12.1	Oct. Nov.
++	1.3 1.5 0.8	- 9.8 - 4.0 + 8.8	- 0.0 + 0.0	- 0.1 - 0.2	+ 12.4 - 8.7 - 3.7	- 0.2 - 0.5	2 -	+ 46.3 - 38.1	- 5.2 + 11.3	- 55.1 + 31.0	+ 3.0 + 2.2	+ 49.0 - 36.4	Dec. 2002 Jan. Feb.
+ + +	0.7 8.7 2.3	- 12.7 - 1.9 - 2.1	- 0.0 - 0.0	+ 0.2 - 0.3	=	+ 0.0 + 0.1 + 0.1	: -	- 22.9 + 2.6 + 7.8	+ 4.6 + 1.7 - 6.7	+ 3.5 - 1.8	- 0.5 - 0.9 + 0.5	+ 1.7 + 8.3	Mar. Apr. May
-	1.5 27.1	+ 2.0 + 17.8	1	1	_	+ 0.1	1	+ 7.1 + 12.6		- 2.3 - 30.9	+ 0.1 - 0.4	+ 7.4 + 12.0	June July
-	9.1 2.3	+ 8.8 + 1.7	' – 4.4	+ 0.0	_	- 0.1 + 0.1	-	+ 9.3 + 0.9	- 3.5 - 1.8	1	- 1.5 - 0.3	+ 7.8 + 0.6	Aug. Sep.
+ + -	7.7 2.1 0.6	+ 5.2 + 1.4 + 20.6	- 0.3	+ 0.0	+ 2.0	- 0.1 - 0.0 + 0.1) –	+ 5.6 + 4.8 + 16.7	- 2.8	+ 0.4	- 1.3 + 1.0 + 0.2	+ 4.2 + 5.8 + 17.1	Oct. Nov. Dec.
										Deut	sche Bund	esbank	
+	0.2 0.4 0.5	+ 8.3 + 3.7 + 10.3	' + 1.6	- 0.2		+ 0.1 - 0.3 - 0.0	3 -	- 0.1 + 0.1 - 0.5	- 0.0 - 0.0 + 0.0	+ 5.6	- 0.0 - 0.6 - 0.1	- 0.1 - 0.8 - 0.6	2000 July Aug. Sep.
+ +	4.5 1.2	+ 5.3 + 11.8	8 – 0.0		_	+ 0.0 ± 0.0		- 0.3 - 1.0	+ 0.0 + 0.0	+ 13.4	+ 0.1 + 0.4	- 0.2 - 0.6	Oct. Nov.
-	0.6 4.6	+ 4.5	. – 2.7	+ 0.1	-	+ 0.0	2 -	+ 1.9 - 0.8	+ 0.0	- 7.4	+ 0.4 + 0.3	+ 2.3	Dec. 2001 Jan.
-	2.7 1.2	- 9.8 - 5.6	+ 4.8	- 1.2	_	- 0.1 + 0.1	-	- 4.6 - 0.5	- 0.0	- 2.4	+ 0.6 - 0.4	- 0.7	Feb. Mar.
-	1.0 0.1 0.3	- 3.1 - 17.2 + 12.5	! + 0.3	- 1.2	+ 7.5 - 7.5	- 0.2 + 0.3 - 0.2	3 -	- 0.0 - 1.4 - 1.2	+ 0.0 + 0.0 + 0.0	- 3.1	+ 0.5 + 1.1 + 0.1	+ 0.4 - 0.1 - 1.3	Apr. May June
+ +	3.2 1.3 0.4	+ 5.5 - 8.4 - 3.7			+ 1.3	+ 0.0 - 0.2 - 0.0	2 -	- 1.9 - 2.4 - 3.9	- 0.0 - 0.0 + 0.0		+ 0.2 + 0.2 - 0.7	- 1.7 - 2.4 - 4.7	July Aug. Sep.
=	2.4 1.5 0.4	- 7.0 + 2.0 - 5.8	- 1.7	- 0.3		- 0.0 + 0.2 + 0.3	2 -	- 4.7 - 6.1 - 8.1	- 0.0 + 0.0 + 0.0		+ 0.2 + 0.7 - 0.1	- 4.5 - 5.3 - 7.9	Oct. Nov. Dec.
+ + + +	0.4 0.0 0.1	+ 0.9 + 0.1 - 4.9	+ 1.0 + 1.3	+ 0.1 - 0.2	- 3.6	- 0.2	<u> </u>	- 4.8 - 13.2 + 1.2	- 0.0 - 0.0	- 2.2 + 13.6	+ 1.1 - 0.4 - 0.3	- 3.9 - 13.8 + 0.9	2002 Jan. Feb. Mar.
+	2.4 0.0 0.7	- 0.9 - 4.5 + 7.5	0.7	+ 0.1 - 0.2	-	+ 0.1 + 0.1 - 0.0	-	+ 1.0 + 3.0 + 1.6	+ 0.0 + 0.0	+ 0.6 - 8.7	- 0.4 + 0.1 + 0.2	+ 0.7 + 3.3 + 1.8	Apr. May June
-	6.9 2.2 0.1	+ 7.0 - 4.5	– 1.7 – 0.7	+ 0.0 - 0.1	-	- 0.1 - 0.1	-	+ 3.8 + 3.0	+ 0.0 - 0.0	- 5.3 - 10.2	- 0.1 - 0.2 - 0.0	+ 3.7 + 2.7	July Aug.
+	1.6 0.4	+ 4.6	5 - 1.0	+ 0.0	_	+ 0.1 - 0.0 - 0.0	-	+ 0.2 + 1.5 + 0.7	+ 0.0	+ 3.9	- 0.3	+ 1.2	Sep. Oct. Nov.
+	0.4				+ 0.7			+ 4.7					

NCBs, with each NCB showing in its balance sheet the percentage of the euro banknotes in circulation that corresponds to its paid-up share in the ECB's capital. The difference between the value of the euro banknotes allocated to an NCB and the value of the euro banknotes which that NCB has put into circulation is likewise shown under "Other factors". — 4 Remaining items in the consolidated financial statement of the Euro-

system and the statement of the Bundesbank. — **5** Equal to the difference between the sum of liquidity-providing factors and the sum of liquidity-absorbing factors. — **6** Calculated as the sum of the "deposit facility", "banknotes in circulation" and "credit institutions' current account holdings". — **7** Entry of Greece into the euro area on January 1, 2001.

III. Consolidated financial statement of the Eurosystem

1. Assets *

	llıo	

			Claims on non-e in foreign currer	uro area resident ncy	s denominated		Claims on non-eur residents denomin		
On reporting date/ End of month 1	Total assets	Gold and gold receivables	Total	Receivables from the IMF	Balances with banks, security investments, external loans and other external assets	Claims on euro area residents denominated in foreign currency	Total	Balances with banks, security investments and loans	Claims arising from the credit facility under ERM II
	Eurosystem	1 2							
2002 Apr. 19 26	778.8 788.8	139.8 139.5	268.0 264.4	33.1 33.0	234.9 231.4	21.5 23.3	5.1 4.9	5.1 4.9	-
May 3 10 17 24 31	783.8 791.6 785.5 788.8 793.3	139.5 139.5 139.5 139.5 139.4	260.6 261.6 262.2 261.1 259.4	31.1 30.7 30.9 30.9 30.9	229.5 230.9 231.2 230.2 228.5	24.0 23.9 22.9 23.1 24.1	5.2 5.0 5.0 5.0 5.1	5.2 5.0 5.0 5.0 5.1	- - - -
June 7 14 21 28	788.4 783.6 793.7 3 780.8	139.4 139.4 139.4 3 128.3	260.1 261.8 263.2 3 238.0	30.9 30.8 34.5 3 32.6	229.3 231.1 228.7 3 205.3	23.6 22.9 22.0 3 19.7	5.1 5.1 5.0 4.5	5.1 5.1 5.0 4.5	- - -
July 5 12 19 26	764.7 765.6 776.0 783.5	128.3 128.3 128.3 128.3	237.9 239.4 240.1 240.9	32.5 32.5 32.4 32.3	205.4 206.9 207.7 208.6	19.3 19.5 20.2 20.4	4.6 4.8 4.9 4.9	4.6 4.8 4.9 4.9	- - - -
Aug. 2 9 16 23 30	771.6 768.6 763.5 764.1 770.8	128.3 128.3 128.3 128.3 128.3	240.1 239.4 237.4 240.0 238.5	32.3 32.1 32.4 32.4 32.4	207.8 207.3 205.0 207.6 206.0	20.0 19.3 19.4 17.9 17.0	4.9 4.8 4.9 4.8 5.3	4.9 4.8 4.9 4.8 5.3	- - - -
Sep. 6 13 20 27	765.6 762.1 772.6 772.8	128.3 128.3 128.3 128.3	239.7 241.4 243.0 242.5	32.5 32.4 32.4 32.4	207.2 209.0 210.6 210.1	18.5 18.2 18.5 18.3	4.8 4.6 4.8 5.0	4.8 4.6 4.8 5.0	- - - -
Oct. 4 11 18 25	3 778.3 778.7 774.3 798.0	3 131.2 131.2 131.2 131.2	3 248.3 247.2 246.4 246.6	32.6 32.6 32.5 32.4	3 215.7 214.6 213.9 214.2	18.5 19.4 19.6 21.0	4.5 4.2 4.2 4.6	4.5 4.2 4.2 4.6	- - -
Nov. 1 8 15 22 29	779.7 777.5 773.3 788.7 796.5	131.2 131.2 131.1 131.1 131.1	244.9 246.4 246.9 246.9 245.6	32.3 32.1 32.0 32.0 32.0	212.6 214.3 214.9 214.9 213.6	21.0 19.8 20.4 21.0 20.0	4.3 3.8 3.9 3.8 3.5	4.3 3.8 3.9 3.8 3.5	- - - -
Dec. 6 13 20 27	812.7 818.7 820.4 832.6	131.1 131.0 131.0 130.9	248.4 250.7 248.6 248.6	32.0 31.9 31.9 32.5	216.4 218.8 216.6 216.1	20.1 20.2 20.2 19.9	3.7 3.7 3.7 4.0	3.7 3.7 3.7 4.0	- - -
2003 Jan. 3	3 795.0	130.7	3 236.8	31.3	3 205.5	19.9	4.0	4.0	-
2004 5 1	Deutsche B						0.2	0.2	
2001 Feb. Mar.	255.2 3 245.3	32.7 3 32.7	58.7 3 60.5	7.6 3 7.8	51.1 3 52.7	_	0.3 0.3	0.3 0.3	-
Apr. May June	239.1 229.8 3 247.3	32.7 32.7 3 35.5	59.4 58.8 3 60.3	7.7 7.7 3 8.2	51.7 51.1 3 52.2	- - -	0.3 0.3 0.3	0.3 0.3 0.3	=
July Aug. Sep. Oct.	241.0 238.4 3 233.4 226.6	35.4 35.4 35.4 35.4	60.4 60.0 3 59.1 59.5	8.2 8.1 3 9.0 8.8	52.3 51.9 3 50.2 50.7	- - - -	0.3 0.3 0.3	0.3 0.3 0.3 0.3	=
Nov. Dec.	225.6 3 239.9	35.4 3 35.0	59.9 3 58.2	8.7 3 8.7	51.3 3 49.5	-	0.3 0.3	0.3 0.3	- - -
2002 Jan. Feb. Mar.	230.6 221.4 3 227.4	35.0 35.0 35.0 3 38.5	60.0 59.9 3 59.6	8.8 8.8 3 8.8	51.2 51.1 3 50.8	- - -	0.3 0.3 0.3	0.3 0.3 0.3	- - -
Apr. May June	205.3 218.3 3 217.9	38.5 38.5 3 35.4	58.0 56.6 3 51.2	8.3 8.4 8.8	49.6 48.2 3 42.4	- - -	0.3 0.3 0.3	0.3 0.3 0.3	-
July Aug. Sep.	211.3 218.3 3 221.9	35.4 35.4 3 36.2	51.8 50.9 3 52.7	8.8 8.7 8.8	43.0 42.2 3 44.0	- - -	0.3 0.3 0.3	0.3 0.3 0.3	- -
Oct. Nov. Dec.	226.4 229.9 3 240.0	36.2 36.2 36.2	52.1 53.0 3 48.8	8.6 8.6 8.3	43.5 44.4 3 40.5	- - -	0.3 0.3 0.3	0.3 0.3 0.3	- - -

^{*} The consolidated financial statement of the Eurosystem comprises the statement of the European Central Bank (ECB) and the statements of the national central banks of the EU member countries (NCBs) of the euro

area.— The balance sheet items for foreign currency, securities, gold and financial instruments are valued at market rates at the end of the quarter.—

1 For the Eurosystem: financial statement for specific weekly dates;

III. Consolidated financial statement of the Eurosystem

	ig to eu ninated		institutions re	elated to mon	etary policy o	perations						
Total		Main refinancing operations	Longer-term refinancing operations	Fine-tuning reverse operations	Structural reverse operations	Marginal lending facility	Credits related to margin calls	Other claims on euro area credit institutions denominated in euro	Securities of euro area residents denominated in euro	General government debt denominated in euro	Other assets	On reporting date/ End of month 1
										Euro	system ²	
	157.0 169.0	97.0 109.0	60.0 60.0	=	=	0.0		0.2 0.2	30.3 30.5	67.7 67.7	89.2 89.3	2002 Apr. 19 26
	169.0 174.9 169.0 173.0 178.4	109.0 114.9 109.0 113.0 118.0	60.0 60.0 60.0 60.0 60.0	- - - -	- - - -	0.0 0.0 0.0 0.0 0.0 0.4	0.0 0.0 0.0	0.3 0.3 0.3 0.2 0.2	30.1 30.3 29.9 30.2 29.9	67.7 67.7 67.7 67.7 67.7	87.4 88.4 88.9 89.0 89.1	May 3 10 17 24 31
	173.3 167.0 175.9 201.0	113.0 107.0 112.0 140.0	60.0 60.0 60.0 60.0	- - -	- - -	0.3 0.0 3.9 0.9	0.0 0.0	0.2 0.2 0.2 0.5	29.9 30.1 30.2 30.5	67.7 67.7 67.7 67.7	89.1 89.2 90.1 90.7	June 7 14 21 28
	187.0 186.0 194.4 204.7	127.0 126.0 134.0 149.0	60.0 60.0 60.0 55.0	- - -	= = = = = = = = = = = = = = = = = = = =	0.0 0.0 0.4 0.7	0.0 0.0	0.4 0.4 0.2 0.4	30.6 30.5 30.7 30.7	67.7 67.7 67.7 67.7	88.8 89.1 89.5 85.5	July 5 12 19 26
	194.0 192.1 189.1 189.0 197.0	139.0 137.0 134.0 134.0 147.0	55.0 55.0 55.0 55.0 50.0	- - - -	- - - -	0.0 0.0 0.1 0.0 0.0	0.0 0.0 0.0	0.4 0.4 0.2 0.1 0.4	30.5 30.6 30.7 30.9 31.4	67.7 67.6 67.2 67.2 67.2	85.6 86.0 86.3 85.7 85.8	Aug. 2 9 16 23 30
	191.0 186.1 194.0 194.1	141.0 136.0 144.0 149.0	50.0 50.0 50.0 45.0	- - -	- - -	0.0 0.0 0.0 0.1	0.0	0.2 0.2 0.2 0.3	31.5 31.5 31.5 31.5	67.2 67.2 67.2 67.2	84.2 84.7 85.1 85.6	Sep. 6 13 20 27
	190.4 191.0 187.1 209.1	145.0 146.0 142.0 164.0	45.0 45.0 45.0 45.0	- - -	- - -	0.4 0.0 0.0 0.0	0.0 0.1 0.1	0.6 0.6 0.4 0.2	32.3 32.3 32.1	67.2 67.2 67.2 67.2	85.5 85.5 85.8 86.0	Oct. 4 11 18 25
	190.1 189.0 183.1 196.3 206.1	145.0 144.0 138.0 150.0 161.0	45.0 45.0 45.0 45.0 45.0	- - - -	- - - -	0.1 0.0 0.1 1.2 0.1	0.0	0.4 0.4 0.4 0.2 0.3	32.3 32.6 32.7 33.1 33.2	67.2 67.2 67.2 67.2 67.2	88.4 87.1 87.6 89.1 89.4	Nov. 1 8 15 22 29
	219.7 221.8 223.8 236.6	173.8 176.8 168.5 191.5	45.0 45.0 45.0 45.0	10.0 -	-	0.9 0.0 0.3 0.0	0.0 0.0 0.0	0.2 0.2 0.2 0.1	33.2 33.2 33.3 33.1	67.2 67.1 67.1 66.3	89.1 90.7 92.7 93.1	Dec. 6 13 20 27
ı	225.1	180.0	45.0	-	-	0.0	0.1	0.1	27.8	44.5	1	2003 Jan. 3
1	140.0 119.3	109.9 81.2	28.3	-	-	1.8		0.0	 -	eutsche Bund 4.4 4.4	19.1 28.0	2001 Feb. Mar.
	124.0 115.1 128.2	86.3 77.3 91.2	37.7 37.7 36.9	=		0.0 0.1 0.1	=	0.0 0.0 0.0 0.0	<u>-</u>	4.4 4.4 4.4 4.4	18.2 18.4 18.6	Apr. May June
	121.8 114.0 111.7	83.5 74.5 70.2	38.3 39.1 40.3	=		1.2	=	0.0 0.0 0.0	=	4.4 4.4 4.4	18.7 24.2 22.4	July Aug. Sep.
	108.2 106.8 123.0 112.3	69.8 45.0 80.5 69.5	38.4 40.4 41.1 42.8	=	-	0.1 0.2 1.4 0.0	=	0.0 0.0 0.0 0.0	=	4.4 4.4 4.4 4.4	18.7 18.7 18.9 18.6	Oct. Nov. Dec. 2002 Jan.
	103.7 106.8	61.7 65.7	40.4 40.4	=	-	1.6 0.7	=	0.0 0.0	_	4.4 4.4	18.1 17.7	Feb. Mar.
	86.6 101.0 109.1	46.7 62.3 71.2	39.6 38.6 36.9	=	-	0.3 0.1 0.9	=	0.0 0.0 0.0	_	4.4 4.4 4.4	1	Apr. May June
	98.2 100.3 104.2	61.8 68.3 72.4	36.4 32.0 31.7	=	-	0.0 0.0 0.1	=	0.0 0.0 0.0	=	4.4 4.4 4.4	1	July Aug. Sep.
	103.9 111.1 125.5	72.4 77.0 87.1	31.6 34.0 36.1			0.0 0.1 2.2	-	0.0 0.0 0.0	-	4.4 4.4 4.4		Oct. Nov. Dec.

for the Bundesbank: up to the end of 2001 financial statement for the last Friday of each month, from 2002 end-of-month financial statement. $-\!\!\!\!-$

 ${\bf 2}$ Source: ECB. — ${\bf 3}$ Changes are due mainly to revalutions at the end of the quarter.

III. Consolidated financial statement of the Eurosystem

2. Liabilities *

€.			

	€ billion												
				ilities to euro area credit institutions related to letary policy operations denominated in euro							Liabilities to other euro denominat	area resident	ts
On reporting date/ End of month 1	Total liabilities	Banknotes in circu- lation 2 3	Total	Current accounts (covering the minimum reserve system)	Deposit facility	Fixed- term deposits	Fine- tuning reverse opera- tions	Deposits related to margin calls	Other liabilities to euro area credit institutions deno- minated in euro	Debt certifi- cates issued	Total	General govern- ment	Other liabilities
	Eurosyst	em ⁴											
2002 Apr. 19 26	778.8 788.8	284.9 286.5	134.3 132.2	134.3 132.1	0.0	_	-	0.0	2.2 2.3	2.9	51.0	45.1 57.7	5.9 5.9
May 3 10 17 24 31	783.8 791.6 785.5 788.8 793.3	294.5 297.3 297.2 295.2 299.0	129.9 134.3 133.3 128.6 130.2	128.8 134.1 133.2 128.5 130.1	1.1 0.2 0.0 0.0 0.1	- - - - -	- - - - -	0.0 0.0 0.0 - 0.0	2.2 2.3 2.2 2.2 2.4	2.9 2.9 2.9 2.9 2.9	53.3 53.6 47.3 60.7 59.9	47.3 47.8 41.2 54.8 54.0	5.9 5.8 6.0 5.9 5.9
June 7 14 21 28	788.4 783.6 793.7 5 780.8	302.9 303.6 304.5 308.8	132.9 128.2 135.0 134.9	132.9 128.2 132.3 134.8	0.1 0.0 2.7 0.1	- - - -	- - -	0.0 0.0 0.0 0.0	2.5 2.4 2.2 2.0	2.9 2.9 2.9 2.9	46.0 48.3 70.9	42.1 40.3 42.5 65.2	5.8 5.7 5.9 5.7
July 5 12 19 26	764.7 765.6 776.0 783.5	315.1 316.7 317.2 317.6	129.1 129.4 128.6 132.4	128.7 129.4 128.0 132.3	0.0 0.0 0.6 0.0	- - -	- - -	0.4 0.0 0.0 0.0	0.2 0.1 0.0 0.1	2.9 2.9 2.9 2.9	62.7 69.6	52.7 49.9 58.0 65.0	4.8 4.6 4.7 4.5
Aug. 2 9 16 23 30	771.6 768.6 763.5 764.1 770.8	324.0 326.0 325.8 321.2 321.8	129.3 127.6 129.4 131.3 126.1	129.2 127.6 129.4 128.7 125.9	0.0 0.0 0.0 2.6 0.1	- - - - -	- - - -	0.0 0.0 0.0 0.0 0.0	0.0 0.3 0.2 0.1 0.1	2.9 2.9 2.9 2.9 2.9	9 47.5 9 49.8	50.6 47.6 42.7 45.1 59.0	4.7 4.7 4.8 4.7 4.8
Sep. 6 13 20 27	765.6 762.1 772.6 772.8	325.8 325.7 324.5 325.4	129.9 126.8 130.0 126.9	129.8 126.8 129.9 126.9	0.0 0.0 0.1 0.0	- - - -	= = =	0.0 0.0 0.0 -	0.3 0.1 0.1 0.2	2.5 2.5 2.5 2.5	50.1 55.8 58.8	47.0 45.4 51.0 53.7	4.7 4.7 4.8 5.0
Oct. 4 11 18 25	5 778.3 778.7 774.3 798.0	331.7 331.6 330.8 329.6	127.3 132.3 128.9 136.8	127.3 132.3 128.8 136.8	0.1 0.0 0.0 0.0	- - -	- - -	0.0 - 0.0 0.0	0.2 0.4 0.2 0.1	2.9 2.9 2.9	9 43.8 9 59.1	42.9 39.1 39.1 54.4	4.9 4.8 4.7 4.6
Nov. 1 8 15 22 29	779.7 777.5 773.3 788.7 796.5	334.8 336.7 335.7 334.6 340.0	122.7 130.7 129.7 126.8 121.9	122.6 130.6 129.6 126.3 121.9	0.0 0.1 0.1 0.5 0.0	- - - -	- - - -	0.0 - - - -	0.1 0.3 0.2 0.2 0.2	2.9 2.0 2.1 2.1 2.1) 36.8	45.8 35.9 32.0 50.2 59.6	4.8 5.3 4.8 4.9 5.3
Dec. 6 13 20 27	812.7 818.7 820.4 832.6	351.3 355.7 367.9 374.6	127.1 130.0 127.9 129.3	127.0 129.9 126.7 129.1	0.1 0.1 1.2 0.2	- - -	- - -	- - - -	0.3 0.0 0.0 0.0	2.0 2.0 2.0 2.0	58.5 50.0 55.1	56.6 53.6 44.9 49.8	5.6 4.9 5.0 5.2
2003 Jan. 3	5 795.0	354.5	130.0	129.9	0.1	-	-	-	0.0	2.0	0 47.4	42.4	5.0
2001 Feb.	Deutsche 255.2	Bundesk	oank 46.1	45.8	0.3						- 0.5	0.1	0.4
Mar. Apr.	5 245.3 239.1	126.2 125.3 125.0	45.1 40.8	45.0 40.8	0.1 0.0	_ 	- -	- -			0.6	0.1	0.5
May June	229.8 5 247.3	124.1 121.9	32.6 42.7	32.5 42.5	0.1 0.2	=	=	-	=		- 0.6	0.1 0.1	0.4 0.5
July Aug. Sep.	241.0 238.4 5 233.4	119.9 116.5 112.0	33.6 48.0 48.3	33.6 48.0 48.2	0.0 0.0 0.0	_ 	=	- -	=			0.1 0.1 0.1	0.5 0.4 0.5
Oct. Nov. Dec.	226.6 225.6 5 239.9	106.7 99.0 76.5	34.0 49.9 57.5	34.0 49.8 57.4	0.0 0.1 0.1	- - -	- - -	- - -	- -	- -	0.6 1.0	0.1 0.1 0.1	0.4 0.5 1.0
2002 Jan. Feb. Mar.	230.6 221.4 5 227.4	82.5 79.8 80.5	46.1 41.6 42.0	46.1 41.5 42.0	0.0 0.0 0.1	- -	=	- -	=		1.0 - 0.6 - 0.6	0.1 0.1 0.1	0.9 0.6 0.5
Apr. May June	205.3 218.3 5 217.9	81.7 84.1 86.9	40.1 44.9 41.4	38.9 44.9 41.3	1.2 0.0 0.1	- - -	- - -	- - -	- -	- -	0.6	0.1 0.0 0.1	0.5 0.6 0.5
July Aug. Sep.	211.3 218.3 5 221.9	90.0 90.7 92.0	40.7 44.3 41.0	40.6 44.2 41.0	0.0 0.1 0.0	- -	=	- -	- - -		- 0.5 - 0.6	0.1 0.0 0.0	0.5 0.5 0.5
Oct. Nov. Dec.	226.4 229.9 5 240.0	94.2 95.7 104.5	41.3 41.0 44.8	41.3 40.9 44.8	0.0 0.0 0.0	- - -	=	- -	- -	-	- 0.8	0.1 0.1 0.0	0.5 0.7 0.6

^{*} The consolidated financial statement of the Eurosystem comprises the statement of the European Central Bank (ECB) and the statements of the national central banks of the EU member countries (NCBs) of the euro area.— The balance sheet items for foreign currency, securities, gold and financial instruments are valued at market rates at the end of the quarter.— 1 For the Eurosystem: financial statement for specific weekly dates;

for the Bundesbank: up to the end of 2001 financial statement for the last Friday of each month, from 2002 end-of-month financial statement. — 2 From 2002 euro banknotes and up to end of 2002 banknotes still in circulation issued by the national central banks of the Eurosystem. — 3 According to the accounting regime chosen by the Eurosystem on the issue of euro banknotes, a share of 8% of the total value of the euro

III. Consolidated financial statement of the Eurosystem

			Liabilities to i residents den foreign curre								
	Liabilities to non-euro area residents denominated in euro	Liabilities to euro area residents denominated in foreign currency	Total	Deposits, balances and other liabilities		Counterpart of special drawing rights allocated by the IMF	Other liabilities	Intra- Eurosystem liability related to banknote issue 3	Revaluation accounts	Capital and reserves	On reporting date/ End of month 1
									Е	urosystem ⁴	
	8.3 8.4	1.4 1.4	21.0 19.1	21.0 19.1	=	7.0 7.0	65.2 64.8	_ =	136.9 136.9	63.7 63.7	2002 Apr. 19 26
	9.6 8.5 8.6 8.4 8.5	1.4 1.4 1.5 1.4 1.4	17.8 18.9 19.4 18.8 18.2	18.9 19.4 18.8	- - - -	7.0 7.0 7.0 7.0 7.0	64.6 64.6 65.4 62.6 62.9	- - - -	136.9 136.9 136.9 136.9 136.9	63.8 63.8 63.8 64.1 64.1	May 3 10 17 24 31
	8.6 8.3 8.9 8.4	1.4 1.4 1.4 1.6	18.6 20.0 19.1 5 16.9	20.0 19.1 5 16.9	- - -	7.0 7.0 7.0 6.5	62.5 62.4 62.9 5 64.4	- - -	136.9 136.9 136.9 5 99.1	64.3 64.3 64.3 64.3	June 7 14 21 28
	8.5 8.6 8.6 9.0	1.2 1.2 1.5 1.3	16.9 18.8 20.0 21.5	18.8 20.0	- - -	6.5 6.5 6.5 6.5	63.3 63.3 64.5 59.3	- - - -	99.1 99.1 99.1 99.1	64.3 64.3 64.3 64.3	July 5 12 19 26
	9.4 8.6 8.6 9.1 9.0	1.4 1.3 1.3 1.3 1.3	20.4 19.7 17.3 18.4 16.1	19.7 17.3	- - -	6.5 6.5 6.5 6.5 6.5	59.1 59.9 60.5 60.0 59.8	- - - -	99.1 99.1 99.1 99.1 99.1	64.3 64.3 64.3 64.3 64.3	Aug. 2 9 16 23 30
	8.7 8.6 9.0 8.9	1.3 1.3 1.5 1.4	15.1 16.6 18.1 17.9	15.1 16.6 18.1	- - - -	6.5 6.5 6.5 6.5	60.0 60.0 60.7 60.5	- - - -	99.1 99.1 99.1 99.1	64.3 64.3 64.3 64.3	Sep. 6 13 20 27
	9.2 8.5 8.3 8.4	1.3 1.3 1.4 1.6	18.1 18.0 17.3 18.8	17.3	- - -	6.6 6.6 6.6 6.6	5 62.5 62.6 63.5 63.6	- - - -	5 106.3 106.3 106.3 106.3	64.3 64.3 64.3 64.3	Oct. 4 11 18 25
	8.4 8.5 8.4 8.3 8.6	1.4 1.4 1.6 1.7 1.3	17.3 17.0 17.1 19.3 17.3	17.3 17.0 17.1 19.3 17.3	- - - -	6.6 6.6 6.6 6.6 6.6	64.3 62.7 64.7 63.4 62.9	- - - - -	106.3 106.3 106.3 106.3 106.3	64.2 64.2 64.2 64.4 64.4	Nov. 1 8 15 22 29
	8.5 8.4 9.5 8.8	1.3 1.3 1.4 1.2	20.0 22.4 20.7 20.1	20.0 22.4 20.7	- - -	6.6 6.6 6.6 6.6	62.6 63.0 63.7 64.1	- - -	106.3 106.3 106.3 106.3	64.4 64.5 64.4 64.4	Dec. 6 13 20 27
	11.6	1.1	5 21.0	5 21.0	-	6.3	5 73.8	-	'	'	2003 Jan. 3
ı	6.9	0.0	0.0		ı -	1.7	29.5		l 39.2	Sundesbank	2001 Feb.
	6.7 6.8 7.2 6.8	0.0 0.0 0.0 0.0	0.0	0.0	- - -	1.7 1.7 1.7 1.8	19.2 17.8 17.1 23.2		5 41.4 41.4 41.4 5 45.2	5.1 5.1	Mar. Apr. May June
	6.8 6.8 6.8 6.9	0.0 0.0 0.0	1.8	1	- -	1.8 1.8 1.7	28.0 14.4 15.3 26.8		45.2 45.2 5 41.8 41.8	5.1 5.1 5.1	July Aug. Sep.
	6.9 6.9 7.3	0.0 0.0 0.0	3.0 4.1 1.4	4.1 1.4	=	1.7 1.7 1.7	16.4 47.8		41.6 41.8 5 41.6	5.1	Oct. Nov. Dec.
	7.1 7.0 7.0	0.0 0.0 0.0	3.3 3.2 5 3.0	5 3.0	=	1.7 1.7 1.7	30.6 32.6 30.9	11.6 8.2 11.6	41.6 41.6 5 44.8	5.1 5.1	2002 Jan. Feb. Mar.
	7.0 7.0 6.9	0.0 0.0 0.0	2.4 1.6 2.3	1.6 2.3	=	1.7 1.7 1.6	9.1 12.7 20.9	12.9 15.7 16.7	44.8 44.8 5 35.5	5.1 5.1	Apr. May June
	7.1 7.1 7.2	0.0 0.0 0.0	3.0 2.3 2.8	2.3 2.8	- - -	1.6 1.6 1.6	8.9 9.2 10.2	18.8 22.0 24.1	35.5 35.5 5 37.3	5.1 5.1	July Aug. Sep.
	7.1 7.1 7.1	0.0 0.0 0.0	2.4 3.1 1.8	3.1	=	1.6 1.6 1.6	10.6 10.5 11.1	26.2 27.6 29.1	37.3 37.3 5 34.2	5.1 5.1 5.0	Oct. Nov. Dec.

banknotes in circulation is allocated to the ECB on a monthly basis. The counterpart of this adjustment is disclosed as an "Intra-Eurosystem liability related to banknote issue." The remaining 92% of the value of the euro banknotes in circulation are allocated to the NCBs on a monthly basis too, whereby each NCB shows in its balance sheet a share of the euro banknotes issued corresponding to its paid-up share in the ECB's capital. The difference

between the value of the euro banknotes allocated to the NCB according to the aforementioned accounting regime, and the value of euro banknotes put into circulation, is also disclosed as an "Intra-Eurosystem claim/ liability related to banknote issue." — 4 Source: ECB. — 5 Changes are due mainly to revaluations at the end of the quarter.

Assets and liabilities of monetary financial institutions (excluding the Bundesbank) in Germany *
Assets

Until the end of 1998 DM billion, from 1999 € billion

			Lending to	banks (MFIs) in the euro	area 3				Lending to	non-banks (non-MFIs) in	the
			_ · · · · · · ·		the home co		to banks in	other member	countries			ks in the hor	
										1		Enterprises	and indi-
						Secur-			Secur-			viduals	
	Balance- sheet	Cash			Ad-	ities issued		Ad-	ities issued				Ad-
Period	total 2	in hand	Total	Total	vances 3	by banks	Total	vances 3	by banks	Total	Total	Total	vances 3
											End c	of year or	month
1993 1994	6,799.5 7,205.7	27.8 26.2	1,940.4 2,030.1	1,757.5 1,854.1	1,212.6 1,285.1	544.9 569.1	182.9 175.9	151.9 145.0	31.0 30.9	4,085.0 4,411.4	4,005.8 4,333.2	3,156.8 3,391.3	2,980.3 3,143.2
1995	7,203.7	27.3	2,030.1	2,019.0	1,265.1	619.3	175.9	158.0	33.2	4,723.3	4,333.2	3,548.8	3,143.2
1996 1997	8,540.5 9,368.2	30.3 30.7	2,523.0 2,836.0	2,301.1 2,580.7	1,585.7 1,758.6	715.4 822.1	221.9 255.3	181.2 208.8	40.7 46.5	5,084.7 5,408.8	4,981.9 5,269.5	3,812.8 4,041.3	3,543.0 3,740.8
1998 1999	10,355.5 5,678.5	29.9 17.2	3,267.4 1,836.9	2,939.4 1,635.0	1,977.4 1,081.4	962.0 553.6	328.1 201.9	264.9 161.8	63.1 40.1	5,833.9 3,127.4	5,615.9 2,958.6	4,361.0	3,966.5 2,093.4
2000	6,083.9	16.1	1,830.9	1,724.2	1,1081.4	615.3	253.2	184.5	68.6	3,127.4	3,062.6	2,326.4 2,445.7	2,093.4
2001	6,303.1	14.6	2,069.7	1,775.5	1,140.6	634.9	294.2	219.8	74.4	3,317.1	3,084.9	2,497.1	2,235.7
2001 Feb. Mar.	6,141.3 6,259.3	13.6 13.1	1,985.8 2,037.0	1,728.3 1,749.6	1,097.6 1,111.2	630.8 638.4	257.4 287.4	187.1 215.0	70.3 72.3	3,281.4 3,309.4	3,072.2 3,095.3	2,468.1 2,487.6	2,198.0 2,204.2
Apr. May	6,283.6 6,312.3	13.7 13.9	2,036.3 2.038.9	1,750.8 1,756.7	1,101.7 1,106.2	649.1 650.5	285.5 282.2	211.3 206.5	74.2 75.7	3,311.9 3,323.1	3,092.6 3,095.6	2,492.9 2.497.6	2,202.3 2,210.5
June	6,283.8	13.8	2,050.4	1,753.5	1,112.4	641.1	296.9	221.0	75.9	3,295.9	3,070.6	2,473.6	2,212.8
July Aug.	6,225.8 6,236.5	13.8 13.5	2,036.5 2,037.6	1,748.3 1,751.9	1,100.6 1,113.0	647.7 638.9	288.2 285.7	213.2 210.6	75.0 75.1	3,298.4 3,289.2	3,073.9 3,061.6	2,466.3 2,464.3	2,206.8 2,207.2
Sep. Oct.	6,295.9 6,300.0	13.7	2,070.9 2,064.4	1,778.2	1,142.2	635.9 638.7	292.7 295.0	216.8 218.2	75.9 76.8	3,283.9 3,284.0	3,056.0 3,058.5	2,471.5 2,474.7	2,218.7 2,219.6
Nov.	6,320.2	14.2 13.7	2,082.6	1,769.4 1,779.3	1,130.7 1,144.1	635.3	303.2	227.1	76.1	3,299.4	3,073.7	2,479.4	2,226.6
Dec. 2002 Jan.	6,303.1 6,255.1	14.6 27.7	2,069.7 2,019.8	1,775.5 1,728.4	1,140.6 1,094.0	634.9 634.4	294.2 291.4	219.8 216.2	74.4 75.2	3,317.1 3,310.8	3,084.9 3,075.1	2,497.1 2,487.1	2,235.7 2,225.5
Feb. Mar.	6,230.4 6,269.8	19.5 16.9	2,004.6 2,033.3	1,725.2 1,744.1	1,084.2 1,096.1	641.0 647.9	279.4 289.3	202.9 213.2	76.5 76.1	3,311.9 3,310.6	3,074.7 3,065.5	2,485.5 2,478.9	2,227.3 2,230.3
Apr.	6,267.7	14.9	2,032.8	1,736.5	1,085.8	650.7	296.3	220.2	76.1	3,319.5	3,072.8	2,485.6	2,231.6
May June	6,304.5 6,277.4	14.7 14.3	2,055.5 2,073.9	1,749.0 1,758.9	1,096.7 1,111.2	652.2 647.6	306.6 315.1	230.7 238.1	75.8 77.0	3,323.3 3,304.8	3,074.2 3,059.5	2,485.6 2,477.9	2,232.0 2,233.2
July Aug.	6,265.6 6,290.6	13.8 13.6	2,051.7 2,073.4	1,731.9 1,746.9	1,094.9 1,113.0	637.1 634.0	319.7 326.5	242.3 249.2	77.4 77.3	3,313.1 3,310.9	3,063.8 3,064.3	2,471.5 2,480.6	2,231.6 2,231.5
Sep.	6,341.1	13.3	2,077.4	1,745.3	1,113.3	632.1	332.0	253.8	78.3	3,323.1	3,074.8	2,490.6	2,242.3
Oct. Nov.	6,359.1 6,453.5	14.2 13.2	2,078.3 2,130.3	1,741.3 1,780.8	1,117.9 1,150.6	623.5 630.2	336.9 349.5	257.2 267.3	79.7 82.2	3,327.8 3,336.6	3,080.9 3,088.4	2,494.9 2,496.7	2,240.6 2,238.4
												Ch	anges ¹
1994	406.2	1	89.7	96.6	72.4	24.2	- 6.9	- 6.9	- 0.1	326.5	327.4	257.5	185.9
1995 1996	587.7 761.8	1.1	184.6 312.8	169.3 282.1	114.7 186.0	54.6 96.1	15.2 30.7	13.0 23.2	2.3 7.5	322.1 361.5	312.1 346.9	201.2 264.0	188.1 244.3
1997 1998	825.6 1,001.0	0.5 - 0.8	313.1 422.2	279.6 355.7	172.9 215.1	106.7 140.6	33.5 66.4	27.6 56.2	5.9 10.2	324.0 440.4	287.5 363.3	228.4 337.5	197.6 245.2
1999	452.6	1.8	179.8	140.1	81.4	58.6	39.8	26.3	13.5	206.6	158.1	156.8	126.4
2000 2001	401.5 244.9	- 1.2 - 1.4	143.0 91.0	91.7 50.7	28.1 30.3	63.6 20.5	51.4 40.3	22.8 34.5	28.6 5.8	123.2 55.1	105.4 23.9	116.8 50.4	89.5 48.1
2001 Mar.	105.7	- 0.5	51.3	21.3	13.6	7.7	30.0	28.0	2.0	26.0	21.8	18.2	4.9
Apr. May	24.1 12.3	0.6 0.1	- 2.0 2.4	- 0.1 5.9	- 10.9 4.6	10.7 1.3	- 1.9 - 3.5	- 3.7 - 4.8	1.8 1.3	2.7 7.5	- 2.5 0.6	5.5 2.3	- 1.7 5.9
June	- 26.6	1	11.6	- 3.2	6.2	- 9.4	14.8	14.5	0.3	- 26.5	- 24.4	- 23.6	2.7
July Aug.	- 47.6 25.5	- 0.0 - 0.3	- 13.8 1.3	- 5.2 3.6	- 11.8 12.4	6.7 - 8.8	- 8.7 - 2.3	- 7.8 - 2.6	- 0.8 0.2	4.5 - 5.2	4.5 - 8.9	- 6.1 - 0.5	- 4.8 1.9
Sep. Oct.	56.7 1.6	0.3	33.2 - 6.6	26.3 – 8.9	29.2 – 11.7	- 3.0 2.8	6.9 2.3	6.2 1.4	0.8	- 6.2 - 0.2	- 6.5 2.3	6.4 3.0	10.6 0.8
Nov. Dec.	51.1 - 16.8	- 0.5	18.2 - 12.3	10.0 - 3.4	13.4 - 3.5	- 3.3 0.1	8.2 - 8.9	8.9 - 7.3	- 0.7 - 1.7	15.7 18.9	14.4 12.4	3.7 18.7	6.0 10.1
2002 Jan.	- 51.6	13.0	- 49.6	- 46.7	- 46.6	- 0.1	- 2.9	- 3.7	0.8	- 7.3	- 10.4	- 10.7	- 11.0
Feb. Mar.	- 23.2 42.2	- 8.2 - 2.5	- 15.1 28.9	- 3.1 19.0	- 9.8 11.9	6.7 7.1	- 12.0 9.9	- 13.3 10.3	1.2 - 0.4	1.8 - 1.0	0.1 - 8.9	- 1.0 - 6.5	2.0 3.0
Apr.	7.7 52.5	- 2.0 - 0.2	- 0.9 23.2	- 8.0 12.8	- 10.3 11.1	2.3 1.8	7.1 10.4	7.0 10.5	0.1 - 0.2	11.0 6.6	8.7 3.6	8.1 2.1	2.3 2.4
May June	- 5.7	- 0.4	18.4	9.7	14.3	- 4.5	8.6	7.4	1.3	- 19.8	- 17.1	- 10.1	- 1.1
July Aug.	- 19.6 23.8	- 0.5 - 0.2	- 22.6 21.8	- 27.2 15.0	- 16.3 18.1	- 10.9 - 3.1	4.6 6.8	4.2 6.8	0.3 - 0.0	7.2 - 1.7	3.6 0.9	- 7.1 8.8	- 2.6 0.3
Sep. Oct.	51.3 20.4	- 0.2	4.0 0.9	- 1.6 - 4.0	0.3 4.6	- 1.9 - 8.6	5.6 4.9	4.6 3.5	0.9 1.4	12.0 4.6	10.2 6.2	10.3 4.4	10.4 - 1.5
Nov.	97.2		52.0			6.7		10.1				2.2	- 1.8

^{*} This table serves to supplement the Overall monetary survey of section II; it is planned to compare the figures for MFIs in the euro area with the data for Germany. Notwithstanding the other tables in section IV, this table

includes – in addition to the figures reported by banks (including building and loan associations) – the data of money market funds. — 1 Statistical breaks have been eliminated from the flow figures. — 2 Up to December

euro area ³	ı			l. ,						Claims on non-euro-a	rea		
	Public			το non-ban	ks in other m Enterprises		Public			residents	Ι		
	authorities				individuals	anu	authorities						
Secur- ities	Total	Ad- vances 3	Secur- ities 4	Total	Total	of which: Ad- vances ³	Total	Ad- vances 3	Secur- ities	Total	of which: Ad- vances 3	Other assets	Period
End of y	ear or mo	onth											
176.5		599.6	249.4	79.1	44.5	44.5	34.6	8.4	26.3	565.2	504.8	181.1	1993
248.1		650.1	291.8	78.2	39.6	39.6	38.6	8.3	30.3	548.8	479.6	189.2	1994
250.0	1,086.3	792.2	294.1	88.2	39.4	39.2	48.8	11.3	37.6	608.5	526.0	209.4	1995
269.7		857.8	311.4	102.8	36.8	36.8	66.0	17.2	48.8	678.1	575.3	224.4	1996
300.6		911.0	317.2	139.2	41.9	41.2	97.3	23.4	73.9	839.6	710.2	253.1	1997
394.5		939.1	315.8	218.0	62.5	56.0	155.5	35.6	119.9	922.0	758.0	302.2	1998
233.0		488.4	143.7	168.8	65.3	35.9	103.6	20.7	82.8	511.2	404.2	185.8	1999
259.1	616.9	478.5	138.4	187.3	83.8	44.2	103.5	20.0	83.5	622.4	481.7	218.1	2000
261.3	587.8	468.7	119.1	232.3	111.3	53.7	121.0	26.2	94.8	727.3	572.0	174.3	2001
270.1	604.1	482.3	121.7	209.2	89.6	46.5	119.6	23.7	95.8	642.0	500.1	218.6	2001 Feb.
283.4		482.5	125.2	214.1	95.1	49.0	119.0	24.1	94.9	670.6	522.6	229.3	Mar.
290.7	599.6	477.1	122.5	219.3	99.5	48.3	119.9	24.0	95.9	689.7	536.9	231.9	Apr.
287.1	598.0	475.5	122.5	227.5	103.5	48.4	123.9	24.3	99.7	698.1	541.1	238.4	May
260.7	597.1	469.2	127.8	225.2	104.4	50.8	120.8	24.5	96.3	693.2	535.9	230.4	June
259.5	607.6	470.3	137.3	224.5	103.2	49.7	121.4	24.0	97.3	663.1	510.4	214.1	July
257.0	597.3	469.5	127.8	227.5	102.0	49.2	125.6	24.1	101.5	683.8	531.3	212.6	Aug.
252.9	584.5	466.8	117.7	228.0	103.5	51.1	124.5	23.8	100.7	712.8	558.0	214.6	Sep.
255.1	583.8	467.7	116.1	225.5	105.2	51.7	120.3	24.1	96.2	722.0	563.7	215.5	Oct.
252.8	594.3	477.4	116.9	225.7	107.8	52.4	117.9	24.8	93.1	741.7	584.8	182.8	Nov.
261.3	587.8	468.7	119.1	232.3	111.3	53.7	121.0	26.2	94.8	727.3	572.0	174.3	Dec.
261.6		469.5	118.5	235.6	113.5	54.7	122.1	25.7	96.4	723.8	569.9	173.1	2002 Jan.
258.2	589.2	466.9	122.3	237.2	114.6	56.1	122.6	25.8	96.8	721.8	566.7	172.6	Feb.
248.6	586.6	464.3	122.3	245.0	118.7	60.1	126.3	26.7	99.6	730.8	574.6	178.3	Mar.
254.0		460.4	126.9	246.7	120.1	61.5	126.6	26.4	100.2	721.2	568.3	179.3	Apr.
253.6		455.2	133.4	249.0	121.3	62.6	127.7	26.0	101.8	734.8	580.6	176.1	May
244.6		450.0	131.6	245.4	118.1	61.5	127.2	26.0	101.2	712.6	559.4	171.7	June
239.9	592.3	458.1	134.2	249.3	118.1	59.8	131.2	26.5	104.7	712.9	557.9	174.2	July
249.1	583.7	448.5	135.2	246.6	114.3	58.3	132.3	26.9	105.4	722.0	566.9	170.7	Aug
248.3	584.2	445.3	138.9	248.3	114.7	59.3	133.6	27.2	106.3	752.3	597.5	174.9	Sep.
254.2	586.0	448.3	137.7	246.9	116.4	59.1	130.5	27.6	102.9	762.2	608.7	176.7	Oct.
258.2	591.7	449.2	142.5	248.2	118.6	61.0	129.6	28.0	101.6	791.0	634.2	182.4	Nov.
Changes		1 413.2	142.5	240.2	110.0	01.0	125.0	20.0	101.0	, ,,,,,	054.2	102.4	1101.
71.6		27.5	42.4	- 0.9	- 4.9	- 4.9	4.0	- 0.0	4.0	- 16.4	- 25.1	8.1	1994
13.1	110.9	113.1	- 2.1	10.0	- 0.2	- 0.4	10.2	3.0	7.3	59.7	46.3	20.2	1995
19.7	82.9	65.5	17.3	14.6	- 2.6	- 2.5	17.2	6.0	11.2	69.5	49.3	15.1	1996
30.8 92.3 30.4	59.1 25.8	53.3 28.1 7.7	5.8 - 2.3 - 6.4	36.5 77.1 48.4	5.1 18.9 12.2	4.4 13.0 6.4	31.4 58.3 36.2	6.1 12.5 2.0	25.3 45.7 34.2	159.4 83.9 33.1	132.9 52.0 13.8	28.6 55.3 31.3	1997 1998 1999
27.3	- 11.4	- 6.7	- 4.6	17.8	16.8	7.2	1.0	- 0.3	1.2	103.9	71.9	32.5	2000
2.4	- 26.5	- 9.8	- 16.7	31.3	24.3	7.7	7.0	2.2	4.8	110.1	86.6	- 9.9	2001
13.3	3.6	0.1	3.5	4.2	5.0	2.0	- 0.8	0.2	- 1.0	18.2	13.3	10.7	2001 Mar.
7.2	- 8.1	- 5.4	- 2.7	5.3	4.4	- 0.6	0.9	- 0.1	1.0	20.1	15.2	2.6	Apr.
- 3.6	- 1.7	- 1.6	- 0.1	6.9	3.5	- 0.4	3.5	0.1	3.4	- 4.1	- 6.5	6.4	May
- 26.3	- 0.9	- 6.2	5.4	– 2.0	1.0	2.4	- 3.0	0.2	– 3.2	- 3.7	- 4.2	– 8.0	June
- 1.3	10.6	1.0	9.6	- 0.0	- 0.9	- 0.8	0.9	- 0.3	1.2	- 21.9	- 18.4	- 16.4	July
- 2.4		- 0.7	- 7.7	3.7	- 0.8	- 0.1	4.5	0.2	4.3	31.3	30.2	- 1.6	Aug.
- 4.2	- 0.7	- 2.8	- 10.1	0.3	1.5	1.9	- 1.1	- 0.3	- 0.8	27.3	25.1	2.1	Sep.
2.2		0.9	- 1.5	- 2.5	1.6	0.5	- 4.1	0.3	- 4.4	7.1	3.9	0.8	Oct.
- 2.3		9.8	0.9	1.3	2.5	0.6	- 1.2	0.6	- 1.8	16.3	18.0	1.3	Nov.
8.6	- 6.3	- 8.8	2.4	6.6	3.4	1.2	3.2	1.4	1.8	- 15.9	- 14.6	- 8.5	Dec.
0.3	0.3	0.8	- 0.5	3.0	2.1	0.9	1.0	- 0.6	1.5	- 6.4	- 6.4	- 1.2	2002 Jan.
- 3.0		- 2.6	3.8	1.6	1.1	1.3	0.5	0.1	0.4	- 1.2	- 2.7	- 0.4	Feb.
- 9.6		- 2.6	0.2	7.9	4.1	4.1	3.8	1.0	2.8	11.3	11.5	5.6	Mar.
5.7		- 3.9	4.5	2.2	1.8	1.7	0.5	– 0.2	0.7	- 1.2	1.1	0.8	Apr.
- 0.3	1.6	- 5.1	6.7	3.0	1.6	1.5	1.4	- 0.3	1.6	25.8	23.0	- 3.0	May
- 9.0	- 7.0	- 5.1	– 1.9	- 2.7	– 2.6	– 0.5	- 0.2	0.2	- 0.4	0.6	- 0.3	- 4.5	June
- 4.5 8.5 - 0.1	- 7.9 - 0.1	8.1 - 9.6 - 3.2	2.6 1.7 3.1	3.5 - 2.6 1.8	- 0.3 - 3.0 0.5	- 2.0 - 0.9 1.1	3.8 0.4 1.3	0.4 - 0.1 0.4	3.4 0.5 0.9	- 6.1 7.4 31.2	- 7.1 7.1 31.4		July Aug Sep.
5.9 4.0		3.1 0.9	- 1.2 4.8	- 1.6 1.4	1.4 2.3	- 0.2 2.0	- 3.0 - 0.9	0.4 0.4	- 3.4 - 1.3	12.2 31.1	11.8 27.5		Oct. Nov.

1998, volume of business (balance-sheet total plus endorsement liabilities and bills sent for collection from the banks' portfolios prior to maturity) and trust funds. — 3 Up to December 1998, including loans an a trust basis and

bill-based lending instead of bill holdings. — 4 Including debt securities arising from the exchange of equalisations claims.

1. Assets and liabilities of monetary financial institutions (excluding the Bundesbank) in Germany * Liabilities

Until the end of 1998 DM billion, from 1999 € billion

	Onth the er	L 01 1996 D			I		> 1						
		Deposits of in the euro	banks (MFIs) area 3)	Deposits of	non-banks (non-MFIs) in	the euro are	ea 4			1	
					1	Deposits of	non-banks i	n the home	country			Deposits of	non-banks
			of banks					With agreed maturities 5		At agreed notice 6			
Period	Balance- sheet total ²	Total	in the home country	in other member countries	Total	Total	Over- night	Total 4	of which: up to 2 years 7	Total	of which: up to 3 months	Total	Over- night
											End o	of year or	month
1993	6,799.5	1,556.3	1,438.2	118.1	2,982.1	2,810.6	489.6	1,312.6	628.5	1,008.4	587.7	70.6	3.5
1994	7,205.7	1,650.9	1,483.5	167.4	3,082.7	2,894.4	510.4	1,288.3	549.2	1,095.8	654.6	80.1	4.1
1995	7,778.7	1,761.5	1,582.0	179.6	3,260.0	3,038.9	549.8	1,289.0	472.0	1,200.1	749.5	110.1	4.5
1996	8,540.5	1,975.3	1,780.2	195.1	3,515.9	3,264.0	638.1	1,318.5	430.6	1,307.4	865.7	137.3	7.5
1997	9,368.2	2,195.6	1,959.1	236.5	3,647.1	3,376.2	654.5	1,364.9	426.8	1,356.9	929.2	162.5	7.3
1998	10,355.5	2,480.3	2,148.9	331.4	3,850.8	3,552.2	751.6	1,411.1	461.6	1,389.6	971.9	187.4	9.4
1999	5,678.5	1,288.1	1,121.8	166.3	2,012.4	1,854.7	419.5	820.6	247.0	614.7	504.4	111.1	6.5
2000	6,083.9	1,379.4	1,188.9	190.5	2,051.4	1,873.6	441.4	858.8	274.3	573.5	450.5	107.9	6.9
2001	6,303.1	1,418.0	1,202.1	215.9	2,134.0	1,979.7	525.0	880.2	290.6	574.5	461.9	105.2	7.6
2001 Feb.	6,141.3	1,377.4	1,159.8	217.5	2,036.3	1,872.7	442.1	863.3	278.2	567.2	444.2	105.6	6.2
Mar.	6,259.3	1,396.1	1,179.9	216.2	2,040.4	1,874.4	440.7	868.1	281.8	565.6	443.0	108.4	7.6
Apr.	6,283.6	1,399.2	1,170.1	229.1	2,044.2	1,878.0	450.8	864.5	279.0	562.7	442.1	108.0	7.5
May	6,312.3	1,397.2	1,169.6	227.7	2,053.8	1,883.9	453.9	870.1	282.1	559.9	440.4	110.9	8.8
June	6,283.8	1,390.9	1,183.6	207.3	2,061.5	1,893.3	462.1	872.4	283.7	558.7	440.1	109.2	8.2
July	6,225.8	1,374.9	1,168.1	206.8	2,055.1	1,888.4	458.8	873.2	285.8	556.4	439.0	106.9	7.6
Aug.	6,236.5	1,367.7	1,168.2	199.4	2,058.6	1,893.2	461.9	876.2	289.0	555.1	439.0	105.5	6.6
Sep.	6,295.9	1,398.9	1,196.0	203.0	2,074.6	1,912.0	479.2	877.4	289.0	555.4	440.0	105.6	8.3
Oct.	6,300.0	1,386.9	1,176.9	210.0	2,077.0	1,914.5	482.5	875.6	287.3	556.4	442.8	107.1	7.7
Nov.	6,320.2	1,418.2	1,198.8	219.4	2,102.7	1,938.6	509.6	870.9	284.1	558.2	445.6	107.5	8.6
Dec.	6,303.1	1,418.0	1,202.1	215.9	2,134.0	1,979.7	525.0	880.2	290.6	574.5	461.9	105.2	7.6
2002 Jan.	6,255.1	1,375.4	1,153.3	222.2	2,112.2	1,957.1	511.0	872.8	281.4	573.4	464.3	105.0	8.1
Feb.	6,230.4	1,346.3	1,141.7	204.6	2,107.5	1,955.2	510.5	872.7	278.8	572.0	463.9	102.9	8.2
Mar.	6,269.8	1,371.2	1,157.9	213.3	2,108.5	1,954.0	508.0	875.2	278.4	570.8	463.8	105.1	8.1
Apr.	6,267.7	1,362.1	1,129.9	232.1	2,099.9	1,948.3	515.1	871.3	274.5	561.8	456.7	104.1	10.1
May	6,304.5	1,382.7	1,150.7	232.0	2,107.1	1,957.8	523.5	874.3	277.0	560.1	456.1	101.1	7.4
June	6,277.4	1,392.3	1,174.8	217.4	2,118.7	1,970.2	535.6	875.7	278.3	558.9	455.1	99.9	8.5
July	6,265.6	1,371.7	1,149.6	222.1	2,111.9	1,964.9	531.2	876.2	278.0	557.5	453.6	99.5	8.0
Aug.	6,290.6	1,389.2	1,165.7	223.5	2,098.3	1,962.0	526.7	877.6	280.7	557.8	453.8	87.4	7.3
Sep.	6,341.1	1,400.2	1,172.1	228.1	2,105.1	1,967.6	540.3	869.1	272.6	558.3	454.7	87.5	8.8
Oct. Nov.	6,359.1 6,453.5	1,419.4 1,460.0	1,177.2 1,214.3	242.2 245.7	2,114.5 2,146.5	1,979.6 2,008.8	542.0 571.8	877.8 874.6	279.0 273.2	559.7 562.4	456.9 460.2		
1004	406.2		45.2	40.2	100.5			242	. 70.2				anges ¹
1994 1995 1996 1997 1998	406.2 587.7 761.8 825.6 1,001.0	94.6 110.7 213.7 223.7 277.0	45.3 98.5 198.2 185.5 182.8	49.3 12.2 15.5 38.3 94.2	189.3 256.0 130.8 205.9	83.8 156.5 225.2 112.1 176.8	20.8 47.2 88.3 16.3 97.8	- 24.3 4.9 29.5 46.4 46.3	- 79.3 - 76.5 - 41.4 - 3.8 34.8	87.4 104.3 107.3 49.4 32.7	99.1 116.2 60.3 42.0	9.4 30.0 27.2 25.0 26.2	0.4 3.0 - 0.3 2.0
1999	452.6	70.2	66.4	3.7	75.0	65.6	34.2	36.7	13.5	- 5.3	7.4	7.5	1.7
2000	401.5	87.5	66.0	21.5	38.7	19.8	22.5	37.8	27.0	- 40.5	- 53.6	- 4.2	0.3
2001	244.9	32.4	8.4	24.0	80.6	105.2	83.0	21.2	16.2	1.1	11.4	- 4.0	0.4
2001 Mar.	105.7	15.3	16.6	- 1.3	2.9	1.2	- 1.8	4.6	3.5	- 1.6	- 1.2	2.1	1.4
Apr.	24.1	2.1	- 10.7	12.8	3.6	3.6	10.0	- 3.5	- 2.8	- 2.9	- 0.9	- 0.4	- 0.3
May	12.3	- 2.2	- 0.5	- 1.7	8.4	5.2	2.7	5.3	3.0	- 2.8	- 1.7	2.2	1.3
June	– 26.6	- 6.3	14.0	- 20.3	7.8	9.4	8.3	2.4	1.6	- 1.2	- 0.3	- 1.5	- 0.6
July	- 47.6	- 16.0	- 15.5	- 0.6	- 5.4	- 4.4	- 3.1	1.0	2.2	- 2.4	- 1.1	- 1.9	- 0.5
Aug.	25.5	- 7.2	0.1	- 7.4	4.7	5.3	3.4	3.2	3.3	- 1.2	0.0	- 0.7	- 1.1
Sep.	56.7	31.3	27.8	3.5	15.7	18.7	17.3	1.2	– 0.0	0.2	1.0	- 0.1	1.7
Oct.	1.6	- 12.0	- 19.1	7.1	2.1	2.4	3.2	- 1.8	- 1.7	1.0	2.8	1.4	- 0.6
Nov.	51.1	30.8	21.4	9.4	25.4	24.0	26.9	- 4.7	- 3.3	1.8	2.8	0.2	1.0
Dec.	– 16.8	- 0.3	3.3	– 3.6	31.2	41.0	15.4	9.2	6.5	16.4	16.3	– 2.3	- 1.0
2002 Jan.	- 51.6	- 42.6	- 48.9	6.3	- 22.3	- 22.8	- 14.2	- 7.5	- 9.2	- 1.2	2.4	- 0.4	0.4
Feb.	- 23.2	- 29.1	- 11.5	- 17.6	- 4.7	- 1.9	- 0.4	- 0.0	- 2.6	- 1.4	- 0.4	- 2.2	0.1
Mar.	42.2	24.9	16.2	8.7	1.2	- 1.1	- 2.5	2.5	- 0.5	- 1.2	- 0.1	2.4	- 0.1
Apr.	7.7	- 9.2	- 28.0	18.8	- 7.9	- 5.4	7.4	- 3.8	- 3.8	- 9.0	- 7.1	- 0.6	1.9
May	52.5	20.9	21.1	- 0.1	9.2	11.0	8.8	3.9	3.2	- 1.7	- 0.6	- 2.5	- 2.6
June	– 5.7	6.9	22.2	- 15.3	11.9	12.1	12.0	1.3	1.3	- 1.2	- 1.0	- 0.6	1.2
July	- 19.6	- 20.5	- 25.2	4.6	- 7.4	- 5.6	- 4.6	0.4	- 0.4	- 1.4	- 1.5	- 0.7	- 0.6
Aug.	23.8	17.5	16.1	1.5	0.0	- 2.8	- 4.5	1.4	2.7	0.3	0.1	1.5	- 0.7
Sep.	51.3	10.9	6.4	4.6	6.9	5.2	13.3	– 8.6	- 8.5	0.5	1.0	0.6	1.5
Oct.	20.4	19.2	5.1	14.1	9.6	12.2	1.8	9.0	6.4	1.4	2.2	- 0.9	- 0.6
Nov.	97.2	40.6	37.1	3.5	32.3	29.4	29.8	- 3.2	- 5.8	2.7	3.3	3.5	1.8

^{*} This table serves to supplement the Overall monetary survey of section II; it is planned to compare the figures for MFIs in the euro area with the data for Germany. Notwithstanding the other tables in section IV, this table includes – in addition to the figures reported by banks (including building and loan associations) – the data of money market funds. — 1 Statistical breaks have been eliminated from the flow figures. — 2 Up to December

1998, volume of business (balance-sheet total plus endorsement liabilities and bills sent for collection from the banks' portfolios prior to maturity) and liabilities incurred in the banks' own name but on behalf of third parties.—
3 Up to December 1998, including liabilities arising from loans on a trust basis and liabilities arising from rediscounted bills (endorsement liabilities).—
4 Up to December 1998, including liabilities arising from

								Debt securi	ties				
in other me	ember counti	ries 8		Deposits of			1	issued 10	I	ł			
With agree	ed	At agreed		central gov	ernments 4	-							
maturities	of which:	notice	of which:		of which: domestic central govern-	Liabilities arising from	Money market fund certificates		of which: with maturities of up to	Liabilities to non- euro- area	Capital and	Other	
Total 4	up to 2 years 7	Total	3 months	Total	ments	repos 9	issued 10	Total	2 years 10	residents	reserves	Liabilities	Period
End of y	ear or mo	onth											
60.3 68.7	6.8	6.8	6.8 7.3	100.8 108.2	100.8 108.2	-	31.3	1,327.6 1,441.2	85.5 81.9	302.2 336.8	278.3	353.0 357.8	1993 1994
97.3	11.4	8.3	8.3	111.0	111.0	_	39.1	1,608.1	70.3	393.9	305.2 325.0	391.0	1995
120.6 145.8	9.2	9.2 9.4	9.2 9.4	114.6 108.3	114.6 108.3	_	34.0 28.6	1,804.3 1,998.3	54.4 62.5	422.1 599.2	350.0 388.1	438.8 511.3	1996 1997
168.3 99.7	13.8 8.9	9.7 4.8	9.7 3.7	111.2 46.6	111.2 45.9	2.0	34.8 20.8	2,248.1 1,323.6	80.2 97.4	739.8 487.9	426.8 262.6	574.8 281.1	1998 1999
96.3 92.4	6.7 9.0	4.7 5.2	3.3 3.8	69.9 49.1	67.6 46.9	0.4 4.9	19.3 33.2	1,417.1 1,445.4	113.3 129.3	599.8 647.6	298.1 319.2	318.4 300.8	2000 2001
94.4 95.8	7.7	5.0 5.0	3.5 3.5	58.0 57.6	55.5 56.1	1.6 0.9	21.5 22.7	1,450.2 1,457.8	112.4 113.8	640.7 720.4	299.6 302.5	314.1 318.5	2001 Feb. Mar.
95.6 97.1 96.1	8.4	5.0 5.0 5.0	3.5 3.5 3.5	58.1 59.0 58.9	55.5 55.1 55.2	1.4 1.8 1.1	23.3 23.4 24.2	1,460.3 1,466.2 1,468.0	116.3 117.4 118.0	725.9 744.6 717.9	301.8 304.7 307.2	327.6 320.5 313.0	Apr. May June
94.2 94.0	8.0 8.4	5.0 5.0	3.5 3.6	59.8 59.9	55.3 54.5	1.7 4.6	25.0 26.5	1,473.1 1,468.1	123.7 123.5	682.5 693.7	310.3 312.6	303.3 304.9	July Aug.
92.3 94.4	9.8	5.0 5.0	3.6 3.6	57.0 55.4	54.0 53.4	2.8 9.4	28.0 29.6	1,471.1 1,473.1	125.6 126.7	692.2 690.0	314.2 318.2		Sep. Oct.
93.8 92.4		5.1 5.2	3.7 3.8	56.5 49.1	53.6 46.9	4.0 4.9	30.7 33.2	1,448.5 1,445.4	123.8 129.3	677.1 647.6	321.3 319.2	317.6 300.8	Nov. Dec.
91.8 89.6	7.3	5.1 5.1	3.8 3.8	50.1 49.4	47.4 47.3	2.5 3.5	35.0 35.9	1,450.5 1,462.8	122.2 125.4	668.3 664.8	320.1 322.2	291.1 287.3	2002 Jan. Feb.
92.0 89.4	8.3	5.0 4.7	3.7 3.5	49.4 47.5	46.9 45.8	3.7 3.4	35.8 35.9	1,479.4 1,478.2	129.0 133.1	666.4 673.4	323.3 325.3	281.6 289.7	Mar. Apr.
89.1 86.7	8.5	4.7 4.6	3.4 3.4	48.2 48.7	45.6 45.9	4.7 4.1	35.4 35.0	1,480.6 1,472.6	134.6 133.1	673.3 628.9	329.0 331.1	291.6 294.7	May June
87.0 75.5 74.2	9.7	4.6 4.6 4.5	3.4 3.4 3.4	47.6 48.9 49.9	45.8 45.8 46.7	3.1 4.3 10.7	35.6 37.1 37.0	1,471.6 1,489.4 1,490.2	133.7 135.9 137.0	640.9 636.3 647.7	336.8 341.2 344.8	293.9 294.8 305.5	July Aug. Sep.
73.9 75.6	9.1 9.4	4.5 4.5	3.4 3.4	48.3 47.6	46.8 46.3	9.6 6.4	37.6 37.5	1,485.9 1,497.3	137.5 148.7	642.5 653.5	343.7 342.5	306.0 309.8	Oct. Nov.
Change	s ¹												
8.3	1	1	1	1	1	-	31.3	1	- 3.6	34.5	26.9		1994
28.6 23.3	- 2.4	1.0 0.9	1.0 0.9	2.8 3.6	2.8 3.6	-	7.8 - 5.1	166.9 196.3	- 11.5 - 15.9	57.2 28.1	19.8 25.0	47.8	1995 1996
25.1 24.0 5.9	4.6	0.2 0.3 - 0.2	0.2 0.3 - 1.3	- 6.2 2.9 1.9	- 6.2 2.9 1.2	- - 0.6	- 4.5 6.2 3.5	194.8 263.3 168.0	8.1 28.1 65.1	172.3 151.4 89.7	37.1 28.8 38.0		1997 1998 1999
- 4.5	- 0.5	- 0.1	- 0.3	23.1	21.6	- 1.6	- 1.5	90.6	15.9	97.8	35.3	54.6	2000
- 4.6 0.7	1	0.2	0.4	- 20.5 - 0.4	- 20.4 0.6	4.6 - 0.6	13.3 1.1	59.5 5.1	18.6 2.1	34.8 66.2	20.9	- 1.1 13.4	2001 2001 Mar.
- 0.2	0.0	0.0	0.0	0.5	- 0.7	0.5	0.7	2.6	2.5	6.7	- 0.7	8.6	Apr. May
- 1.0 - 0.9		- 0.0 0.0	0.0 0.0	- 0.9 - 0.1	- 0.4 0.1	- 0.4 - 0.7	0.0 0.9	1.3 2.8	1.0 0.5	2.2 - 25.2	2.1 2.6	- 8.3	June
- 1.4 0.3		0.0 0.0	0.0 0.0	0.9 0.1	0.1 - 0.8	0.6 2.9	0.8 1.5	7.7 – 2.9	5.8 - 0.5	- 25.0 24.7	3.6 2.9	- 13.8 - 1.1	July Aug.
- 1.8	- 1.1	0.0	0.0	- 2.9	- 0.5	- 1.7	1.5	2.5	2.0	- 3.7	1.5	9.6	Sep.
1.9 - 0.8 - 1.5	- 0.6	0.0 0.0	0.0	- 1.6 1.1	- 0.6 0.1	6.5 - 5.3	1.6 1.1	1.6 8.5	0.2 0.3	- 4.9 - 17.1	4.0 2.8	4.9	Oct. Nov.
- 0.8 - 2.2	- 0.9	0.1 - 0.1 - 0.1	- 0.0 - 0.0	- 7.4 1.0 - 0.7	- 6.6 0.5 - 0.2	0.9 - 2.4 1.0	1.9 2.0 0.8	- 3.2 4.0 12.7	5.5 - 2.4 3.2	- 32.0 15.1 - 2.8	- 1.6 0.7 2.3	- 13.8 - 6.0 - 3.3	Dec. 2002 Jan. Feb.
2.5	2.0	- 0.1 - 0.3	- 0.0 - 0.0 - 0.3	- 0.7 - 0.0 - 1.9	- 0.2 - 0.3 - 1.2	0.2	- 0.1 0.2	16.9	3.6 4.1	3.7 15.9	1.2		Mar. Apr.
0.2	1.3	- 0.3 - 0.1 - 0.0	- 0.0 - 0.0	0.7	- 0.1 - 0.3	1.3	- 0.0 - 0.3	6.2	1.7	12.6 - 28.2	4.1 2.5	- 1.8	May June
- 0.1	0.2	- 0.1	- 0.0	- 1.1	- 0.1	- 1.0	0.6	- 3.4	- 1.2	5.4	5.2	1.6	July
- 0.9	- 0.4	- 0.0 - 0.0	- 0.0 - 0.0	1.4	0.0	1.2 6.4	1.2 0.1	1.5 1.0	2.3 1.0	- 2.6 11.9	4.7 3.5		Aug. Sep.
- 0.3 1.8		- 0.0 - 0.0	- 0.0 - 0.0	- 1.7 - 0.6	0.1 - 0.5	- 1.0 - 3.2	- 0.7 - 0.2	- 3.9 11.9	0.6 10.7	- 4.6 13.2	- 1.1 - 0.5	1.5 3.2	Oct. Nov.

loans on a trust basis. — **5** For the German contribution: from 1999 including deposits under savings and loan contracts (see table IV.12). — **6** For the German contribution: up to the end of 1998 including deposits under savings and loan contracts (see also footnote 5). — **7** Up to December 1998, with maturities of less than 4 years. — **8** Excluding central

governments' deposits. — 9 Data collected separately only from 1999; up to December 1998, included in the deposits with agreed maturities of up to 2 years. — 10 In Germany, debt securities with maturities of up to one year are classed as money market paper; up to January 2002 monthly report they were published together with money market fund certificates.

2. Principal assets and liabilities of banks (MFIs) in Germany, by category of banks *

€.			

	€ DIIIIOII												
				Lending to	banks (MFIs)	Lending to	non-banks (non-MFIs)				
					of which			of which					
			Cash in hand and					Loans and a not evidence by certificat	ed				
End of month	Number of reporting institu-tions	Balance sheet total	balances with central banks	Total	Balances and advances	Securities issued by banks	Total	up to and including 1 year	more than	Bills	Securities issued by non-banks	Partici- pating interests	Other assets
		ories of l						, , ,	,				
2002 June	2,466	6,319.7	58.5	2,278.0	1,595.8	674.7	3,565.9	465.7	2,560.6	4.9	520.4	142.5	274.7
July	2,437	6,308.1	55.1	2,258.0	1,585.9	662.9	3,574.8	462.7	2,568.1	4.9	526.1	142.3	274.7
Aug. Sep.	2,424 2,394	6,331.8 6,381.8	59.6 55.6	2,281.4 2,312.2	1,614.9 1,646.9	657.2 654.8	3,563.4 3,580.4	446.1 468.0	2,573.3 2,568.3	4.9 4.8	523.3 522.9	152.9 154.8	274.6 278.7
Oct.	2,373	6,399.9	57.1	2,321.2	1,663.3	648.0	3,583.0	464.4	2,575.3	4.8	522.0	157.2	281.4
Nov.	2,365		55.0	2,400.9	1,732.2	649.8	3,592.4	468.5	2,572.5	4.8	530.2	159.1	288.0
2002 0 .	Ι.	cial bank									4540		
2002 Oct. Nov.	274 273	1,793.5 1,862.5	22.8 22.4				952.6 959.5	242.8 245.0	542.0 540.3	2.2 2.2	154.8 161.1		118.8 123.3
	Big baı	nks ⁶											
2002 Oct. Nov.	4 4		13.4 14.1		283.8 320.4	54.8 55.6	532.7 536.3	143.1 142.5		1.4 1.3	92.5 99.1	83.6 84.5	72.9 76.0
	Region	al banks	and othe	er comme	ercial ban	ks							
2002 Oct. Nov.	187 186		8.9 7.8	213.5 228.5	149.7 155.7	61.7 62.6	377.6 380.9	80.4 83.3	237.3 237.4	0.8 0.8	56.2 56.1	9.4 9.6	33.4 34.1
	Branch	es of for	eign ban	ks									
2002 Oct. Nov.	83 83	108.0 112.0	0.4 0.6			7.2 7.1		19.3 19.2	16.6 16.7	0.1 0.1			12.5 13.3
	Land bar	nks											
2002 Oct. Nov.	14 14		2.8 3.1		537.5 546.4		569.6 574.9		408.4 409.5	0.4 0.4	89.1 90.7		48.0 48.7
	Savings I	oanks											
2002 Oct. Nov.	522 520	976.2 983.6	18.3 17.1	229.2 236.6	74.7 80.8	153.8 155.0	691.6 692.3	78.0 76.7	521.7 522.9	1.4 1.4	90.0 90.7	12.6 13.1	24.5 24.6
	Regional	l instituti	ons of cr	edit coop	eratives								
2002 Oct. Nov.	2 2	195.2 200.8	0.7 0.5							0.1 0.1			5.7 6.2
	Credit co	operativ	es										
2002 Oct. Nov.	1,494 1,489	551.3 556.7	11.5 11.1	140.5 147.2	63.2 69.5		377.6 376.6	50.0 48.6		0.7 0.7		4.1 4.2	17.5 17.6
	Mortgag	je banks											
2002 Oct. Nov.	25 25		0.9 0.5		150.1 144.6		636.1 632.1			_			
	Building	and loar		ions									
2002 Oct. Nov.	28 28	160.5 161.4	0.0	35.6 36.2	24.1 24.7	11.5 11.6	116.3 116.5	1.6 1.5	104.9 105.1	:	9.8 9.9	0.4	8.1 8.2
	Banks wi	ith specia	l functio	ns									
2002 Oct. Nov.	14 14	514.8 517.3	0.0	289.9 290.9					155.3 155.4	_	23.8 23.3	1.8 1.8	38.0 38.4
	Memo it	em: Fore	ign bank	s ⁷									
2002 Oct. Nov.	132 131	384.2 387.5	2.9 2.9	151.1 156.8		41.4 41.6	201.6 197.8		119.7 118.0	0.1 0.2	42.3 39.5	1.7 1.7	26.9 28.4
	of whic			owned b	y foreigr	n banks ⁸							
2002 Oct. Nov.	49 48	276.2 275.5	2.5 2.4	99.2 101.7		34.1 34.4	159.3 155.5	19.7 20.3			36.2 33.5	0.8 0.9	14.4 15.1

^{*} For the period up to December 1998, section IV (except for table IV.1) shows the assets and liabilities of banks (excluding building and loan associations) in Germany, from January 1999, the assets and liabilities of monetary financial institutions (MFIs) in Germany. The assets and liabilities of foreign branches, of money market funds (which are likewise classified as

MFIs) and of the Bundesbank are not included. For the definitions of the respective items, see the footnotes to table IV.3. — 1 For building and loan associations: Including deposits under savings and loan contracts (see table IV. 12). — 2 Included in time deposits. — 3 Excluding deposits under savings and loan contracts (see also footnote 2). — 4 Including subordinated

	Deposits of	f banks (MF	is)	Deposits o	f non-banks	(non-MFIs)							Capital		
		of which			of which]	(including published		
						Time depo	sits for 1		Savings de	posits 3			reserves, partici- pation		
	Total	Sight deposits	Time deposits	Total	Sight deposits	up to and including 1 year	more than 1 year 1	Memo item: Liabilities arising from repos 2	Total	of which: At three months' notice	Bank savings bonds	Bearer debt securities out- standing 4	rights capital, funds for general banking	Other liabilities	End of month
ı	Total	асроль	исролю	Total	асроль	i yeui	1 yeur	Героз	Total	Hotice	Bonus		egories o		monar
ı	1,790.7	266.0	1,524.4	2,365.6	574.5	341.5	767.3	30.2	569.8	463.1	112.5	1,506.6	283.4	_	2002 June
	1,775.9 1,788.7 1,805.6	239.5 207.1 265.8	1,536.2 1,581.3 1,539.6	2,364.1 2,351.1 2,369.7	570.2 561.9 582.0	344.1 352.3 353.1	768.5 755.5 753.2	30.9 35.9 45.0	568.3 568.6 569.1	461.5 461.6 462.6	113.0 112.9 112.3	1,510.7 1,527.7 1,530.9	284.1 290.0 290.5	373.3 374.4 385.2	July Aug. Sep.
	1,817.5 1,869.8	246.1 282.6	1,571.1 1,586.9	2,380.0 2,408.9	581.3 615.0	355.6 347.1	760.7 762.0	43.9 46.5	570.4 573.1	464.8 468.1	111.9 111.7	1,525.7 1,534.5	290.3 291.0	386.4 391.1	Oct. Nov.
	1,005.0	202.0	1,300.3	2,400.5	015.0	347.1	702.0	10.5	373.1	1 400.1			nmercial		1101.
١	662.8	129.7 159.6	532.9 554.1	650.4 667.0	253.0 270.7	174.5 170.9	127.6 127.6	37.1 42.0	86.1 88.8			230.8	105.1	144.4	2002 Oct.
١	713.9	159.6	554.1	067.0	270.7	170.9	127.6	1 42.0	88.8	/3.5	9.1	230.0		146.5 anks ⁶	Nov.
ı	404.5	91.6			115.3		74.5				0.8		67.0	77.3	2002 Oct.
١	441.7	104.2	337.5	339.1	125.4	117.7	74.4	38.8				l 164.2 ner comm		_	Nov.
ı	180.2	27.2	152.7	308.1	132.3	51.1	50.4	0.9	66.0	52.6	8.4	67.0		52.4	2002 Oct.
١	191.9	45.5	146.1	314.8	139.7	48.3	50.5	1.0	67.9	54.8	8.3			53.1	Nov.
ı	78.1	10.9	67.3	12.2	5.4	4.0	2.7	1.6	0.0	0.0		ches of fo	_		2002 Oct.
١	80.3			13.1									2.9		Nov.
	479.3	63.6	I 414 E	306.0	1 40.1	l 43.0	1 209.0	I F0	l 143	I 13.0		l 412.71		d banks	2002 Oct.
	478.2 480.5	63.6 66.9	414.5 413.6		40.1 41.9		208.0 208.4		14.3 14.3				62.3 62.3		Nov.
														gs banks	
	216.6 215.1	5.9 6.6	210.7 208.5	618.3 627.1	173.1 182.1		10.2 10.2	_	297.4 297.3		72.9 73.0	46.5 46.3	44.5 44.5	50.4 50.6	2002 Oct. Nov.
									Re	gional i	nstitutio	ns of cre	dit coop	eratives	
	113.1 118.6				7.6 6.6		18.8 18.4					33.9		8.9	2002 Oct. Nov.
	77.0		746	1 200.0	1051		24.4		172.2	1444			dit coop	_	2002 0-4
	77.0 75.7	2.4 2.1		389.9 396.5	105.1 111.5		24.4 24.5	_	172.2 172.3				28.5 28.5	22.9	2002 Oct. Nov.
			_	_	_	_	_	_	_	_	_		Mortgag	_	
	118.1 118.3	7.5 6.7		141.3 140.8	0.9 1.1							583.0 573.3			2002 Oct. Nov.
											Buildi	ng and lo	oan asso	ciations	
	29.2 29.5	1.6 2.2	27.6 27.3	100.7 101.1		0.7 0.7	99.4 99.7	_	0.3	0.3	0.1	7.2 7.2	7.1 7.1	16.3 16.5	2002 Oct. Nov.
											Ban	ks with s	pecial fu	unctions	
	122.5 118.3		119.9 115.5	141.6 142.1		5.1 4.9	135.3 136.3	0.2 0.1	_	_	_	178.8 183.8	15.1 15.1	56.8 58.0	2002 Oct. Nov.
ľ											-	no item:			
	136.4 138.4	21.6 23.1	114.7 115.2	100.9 103.0		16.0 15.0	27.7 27.6	1.7 2.4	6.4 6.7	6.1	2.3		12.9	35.8	2002 Oct. Nov.
	750.4	23.1	113.2	103.0	, 51.5	15.0	27.0					ned by f			1400.
	58.3	10.7	47.4	88.7	43.1	11.9	25.0	0.1	6.4	-	2.3	-	10.0	21.1	2002 Oct.
	58.1	13.3	44.7	89.9	45.7	10.2	24.9	ı 0.1	ι 6./	6.4	2.4	97.1	10.0	20.5	Nov.

negotiable bearer debt securities; excluding non-negotiable negotiable bearer debt securities. — 5 Commercial banks comprise the sub-groups "Big banks", "Regional banks and other commercial banks" and "Branches of foreign banks". — 6 Deutsche Bank AG, Dresdner Bank AG, Commerzbank AG and Bayerische Hypo- und Vereinsbank AG. — 7 Sum of the banks

majority-owned by foreign banks and included in other categories of banks and of the category "Branches (of dependent legal status) of foreign banks" — 8 Separate presentation of the banks majority-owned by foreign banks included in the categories "Regional banks and other commercial banks" and "Mortgage banks".

IV. Banks

3. Assets and liabilities of banks (MFIs) in Germany vis-à-vis residents *

Until the end of 1998 DM billion, from 1999 € billion

	Until the er	10 OT 1998 L	IVI DIIIION, TR	om 1999 € b	oillion								
			Lending to	domestic ba	nks (MFIs) 2	, 3			Lending to	domestic no	n-banks (no	n-MFIs) 3, 8	
Period	Cash in hand (euro-area notes and coins) 1	Balances with the Bunds	Total	Balances and loans and ad- vances not evidenced by certi-	Bills 4	Negotiable money market paper issued by	Securities issued by	Memo item Trust	Total	Loans and advances not evidenced by certi-	Bills 4	Treasury bills and negotiable money mar- ket paper issued by	Securities issued by non-
Period	COIRIS) 1	bank	Total	ficates	DIIIS 4	banks 5	banks 6	loans 7	Total	ficates		non-banks	banks 9
											End	of year or	montn "
1992	26.8	88.2	1,483.5	1,020.8	19.0	3.3	435.1	8.6	3,478.2	3,034.9	52.1	9.6	
1993 1994	26.7 25.0	75.3 61.5	1,596.8 1,695.6	1,076.2 1,150.6	14.7 17.4	4.6	493.2 513.6	9.3 9.5	3,826.4 4,137.2	3,291.6 3,502.8	44.7 45.9	5.6 2.2	327.7 433.7
1995	26.0	61.0	1,859.9	1,264.9	17.5	4.3	561.9	11.4	4,436.9	3,802.0	46.8	1.4	427.3
1996 1997	28.9 29.3	59.7 60.2	2,134.0 2,397.9	1,443.3 1,606.3	17.9 18.1	3.4 3.6	657.2 758.9	12.2 11.1	4,773.1 5,058.4	4,097.9 4,353.9	44.8 44.7	5.9 2.9	437.2 473.3
1998	28.5	63.6	2,738.2	1,814.7	14.6	12.2	887.7	9.1	5,379.8	4,639.7	32.8	5.0	527.8
1999	16.8	45.6	1,556.9	1,033.4	0.0	19.2	504.2	3.9	2,904.5	2,569.6	7.0	3.0	287.5
2000 2001	15.6 14.2	50.8 56.3	1,639.6 1,676.0	1,056.1 1,078.9	0.0 0.0	26.8 5.6	556.6 591.5	3.6 2.8	3,003.7 3,014.1	2,657.3 2,699.4	6.5 4.8	2.3 4.4	304.7 301.5
2001 June	13.2	46.1	1,671.6	1,063.4	0.0	16.8	591.5	3.4	3,007.7	2,676.1	5.8	2.3	318.7
July Aug.	13.2 13.0	50.5 49.3	1,661.4 1,665.7	1,046.9 1,060.7	0.0 0.0	14.4 12.9	600.0 592.1	3.4 2.8	3,008.2 2,995.3	2,671.1 2,671.0	5.7 5.6	4.4 3.7	323.0 311.1
Sep.	13.2	51.2	1,689.6	1,087.9	0.0	11.2	590.6	2.8	2,989.9	2,679.6	5.6	4.9	295.7
Oct. Nov.	13.6 13.2	54.4 55.9	1,676.9 1,684.1	1,072.8 1,084.2	0.0 0.0	11.1 7.5	593.0 592.3	2.9 2.8	2,992.5 3,009.4	2,681.6 2,698.5	5.5 5.3	4.4 3.7	297.1 297.9
Dec.	14.2	56.3	1,676.0	1,084.2	0.0	5.6	591.5	2.8	3,009.4	2,699.4	4.8	4.4	301.5
2002 Jan.	26.7	49.3	1,633.8	1,038.5	0.0	5.7	589.7	2.8	3,011.2	2,690.2	4.6	3.0	309.5
Feb. Mar.	18.8 16.5	42.0 44.4	1,636.3 1,653.0	1,035.4 1,045.6	0.0 0.0	5.2 5.8	595.7 601.5	2.8 2.7	3,006.1 2,996.9	2,689.6 2,689.9	4.4 4.5	2.8 2.7	305.4 295.9
Apr. May	14.5 14.3	40.9 45.4	1,648.3 1,655.7	1,038.4 1,044.4	0.0 0.0	6.3 6.1	603.6 605.2	2.7 2.7	3,004.3 3,005.7	2,687.4 2,682.8	4.4 4.2	3.7 4.6	304.9 310.2
June	13.9	43.8	1,668.4	1,061.5	0.0	6.3	600.6	2.7	2,990.8	2,678.8	4.3	5.2	298.7
July	13.4	41.2	1,643.8	1,047.7	0.0	7.6	588.4	2.6	2,995.7	2,685.3	4.3	4.2	299.1
Aug. Sep.	13.2 13.0	46.0 42.3	1,650.2 1,652.7	1,060.1 1,064.4	0.0 0.0	7.7 8.5	582.4 579.8	2.7 2.7	2,987.3 2,995.5	2,675.6 2,683.2	4.2 4.2	3.9 3.9	300.6 301.2
Oct.	13.9	42.8	1,648.3	1,068.2	0.0	8.0	572.2	2.7	2,997.6	2,684.6	4.2	3.9	301.9
Nov.	12.9	41.7	1,689.1	1,102.1	0.0	13.3	573.8	2.6	3,003.5	2,683.3	4.1	3.6	
													hanges *
1993 1994	- 0.1 - 1.7	- 12.9 - 13.8	+ 133.3 + 99.1	+ 75.2 + 73.6	- 4.3 + 2.7	+ 0.1 + 1.3	+ 61.5 + 21.3	+ 0.7 + 0.1	+ 339.8 + 320.5	+ 259.1 + 240.2	- 7.4 + 1.2	- 4.5 - 3.3	+ 102.0 + 86.7
1995	+ 1.0	- 0.5	+ 193.5	+ 139.4	+ 0.1	- 0.5	+ 54.3	+ 0.2	+ 312.8	+ 303.6	+ 1.0	- 0.8	+ 2.9
1996 1997	+ 2.9 + 0.4	- 1.3 + 0.5	+ 257.8 + 262.5	+ 161.8 + 160.7	+ 0.4 + 0.2	- 1.1 + 0.2	+ 95.8 + 102.6	+ 0.8 - 1.1	+ 336.3 + 285.2	+ 311.7 + 255.5	- 2.0 - 0.1	+ 4.7 - 3.0	+ 10.6 + 36.5
1998	- 0.8	+ 3.4	+ 343.3	+ 210.3	- 3.6	+ 8.6	+ 130.0	- 2.0	+ 335.3	+ 302.1	- 11.9	+ 2.1	+ 52.1
1999	+ 2.2	+ 13.2	+ 122.1	+ 66.3	+ 0.0	+ 12.9	+ 42.8	- 0.7	+ 156.1	+ 136.9	+ 2.6	+ 0.4	+ 16.7
2000 2001	- 1.1 - 1.4	+ 5.1 + 5.5	+ 83.6 + 34.6	+ 21.7 + 20.1	- 0.0 - 0.0	+ 7.6 - 21.3	+ 54.3 + 35.8	- 0.3 - 0.9	+ 100.7 + 11.9	+ 83.7 + 40.8	- 0.5 - 1.6	- 0.8 + 1.6	+ 19.0 + 0.3
2001 June	- 0.1	+ 2.2	- 6.0	+ 3.5	- 0.0	- 1.7	- 7.8	- 0.0	- 24.5	- 3.3	- 0.1	- 0.6	- 20.6
July	+ 0.0	+ 4.4	- 9.2	- 15.4	- 0.0	- 2.4	+ 8.6	+ 0.0	+ 1.7	- 3.7	- 0.0	+ 2.1	+ 4.3
Aug. Sep.	- 0.3 + 0.3	- 1.2 + 1.9	+ 5.7 + 23.5	+ 15.2 + 26.7	- 0.0	– 1.5 – 1.7	- 8.0 - 1.5	- 0.6 - 0.0	- 9.6 - 6.3	+ 1.3 + 7.8	- 0.1 + 0.0	- 0.7 + 0.6	- 10.1 - 14.7
Oct.	+ 0.4	+ 3.2	- 13.0	- 15.3	+ 0.0	- 0.1	+ 2.4	- 0.0	+ 2.4	+ 1.7	- 0.1	- 0.5	+ 1.3
Nov. Dec.	- 0.5 + 1.0	+ 1.6 + 0.3	+ 6.9 - 7.7	+ 11.1 - 5.4	- 0.0	- 3.6 - 1.9	- 0.6 - 0.3	- 0.1 - 0.0	+ 16.1 + 5.8	+ 15.9 + 1.7	- 0.1 - 0.5	- 0.7 + 0.7	+ 1.0 + 3.8
2002 Jan.	+ 12.5	- 6.9	- 42.5	- 41.0	- 0.0	+ 0.1	_ 1.6	- 0.0	- 3.4	_ 9.9	- 0.3	- 1.5	+ 8.3
Feb. Mar.	- 8.0 - 2.3	- 7.3 + 2.4	+ 2.7 + 16.9	- 2.9 + 10.3	+ 0.0 - 0.0	- 0.5 + 0.6	+ 6.1 + 6.0	- 0.0 - 0.0	- 4.9 - 8.6	- 0.5 + 0.7	- 0.2 + 0.1	- 0.2 - 0.1	- 4.1 - 9.3
Apr.	- 2.0	- 3.5	- 5.0	- 7.2		+ 0.5	+ 1.6	- 0.0	+ 8.1	- 2.3	- 0.1	+ 1.0	+ 9.4
May June	- 0.2 - 0.4	+ 4.5 - 1.6	+ 7.7 + 12.5	+ 6.2 + 16.9	- 0.0 - 0.0	- 0.2 + 0.1	+ 1.7 - 4.6	- 0.1 + 0.0	+ 2.2 - 19.0	- 3.9 - 8.0	- 0.2 + 0.1	+ 0.9 + 0.5	+ 5.4 - 11.5
July	- 0.5	- 2.5	- 24.9	- 13.8	_	+ 1.4	- 12.4	- 0.0	+ 5.1	+ 6.5	- 0.0	- 1.0	+ 0.6
Aug. Sep.	- 0.2 - 0.2	+ 4.8 - 3.8	+ 6.4 + 2.6	+ 12.4 + 4.4	+ 0.0	+ 0.0 + 0.8	- 6.0 - 2.6	+ 0.0 - 0.0	- 8.4 + 7.9	- 9.6 + 7.3	- 0.0 - 0.1	- 0.2 - 0.0	+ 1.5 + 0.7
Oct. Nov.	+ 0.9 - 1.0	+ 0.6	- 4.4	+ 3.8	+ 0.0	- 0.5	- 7.7	- 0.0	+ 2.0	+ 1.4	+ 0.0	+ 0.0	+ 0.6
1404.	. 1.0		0.0			, , ,.,	1.0	- 0.0	0.0		. 0.0	0.5	7.01

^{*} See table IV.2, footnote*; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent alterations, which will appear in the following Monthly Report, are not specially marked. — 1 Up to December 1998; domestic notes and coins. — 2 Up to December 1998, excluding loans to domestic building and loan associations. — 3 Up to December 1998, including loans on a trust basis; see also footnote 7. — 4 Up to December 1998, bill-based lending (bill holdings plus endorsement liabilities arising

from rediscounted bills and bills sent for collection from the banks' portfolios prior to maturity). — 5 Up to November 1993, included in securities (see also footnote 6). — 6 Up to November 1993, including negotiable money market paper; excluding registered debt securities. — 7 From 1999, no longer included in loans or deposits (see also footnote 3). — 8 Up to December 1998, including loans to domestic building and loan associations. — 9 Excluding debt securities arising from the exchange of equalisation claims; see also footnote 10. — 10 Including debt securities

			Deposits o	f domestic l	banks (MFIs) 3, 11, 12		Deposits o	f domestic	non-banks	(non-MFIs)	3, 17		
		Partici- pating												
	Memo	interests in				Bills	Memo						Memo	
Equalisa-	item	domestic banks and		Sight	Time	redis-	item		Sight	Time	Savings	Bank	item Trust	
tion claims 10	Trust loans 7		Total	deposits 13, 14	deposits 14, 15	counted 16	Trust Ioans 7	Total	deposits 13	deposits 15, 18	deposits 19	savings bonds 20	loans 7	Period
End of	year or n	nonth *												
64.3 75.3		49.4 59.5	1,266.2 1,395.2	301.2 380.2	864.7 917.9	78.0 69.2	22.4 27.9	2,570.4 2,788.1	468.3 513.6	1,020.9 1,123.6	770.7 859.4	240.0 219.1	70.4 72.4	1992 1993
68.1	84.4	70.7	1,427.9	342.8	976.9	75.2	33.1	2,875.7	540.2	1,109.3	940.5	206.9	78.8	1994
71.3 81.3		83.2 89.7	1,539.4 1,731.0	363.9 401.1	1,065.1 1,202.4	75.5 75.4	35.0 52.2	3,021.1 3,241.5	579.9 675.1	1,086.1 1,109.8	1,046.1 1,143.0	227.4 227.8	81.6 85.8	1995 1996
76.0 71.6	107.6 102.8	95.1 129.2	1,902.3 2,086.9	427.6 472.5	1,349.1 1,505.2	75.6 59.4	50.0 49.7	3,341.9 3,520.3	689.8 799.5	1,146.9 1,194.1	1,182.1 1,211.0	236.9 234.9	86.1 80.9	1997 1998
37.5 33.1	58.0 58.5	75.6 82.7	1,122.0 1,189.2	114.4 113.4	1,007.3 1,075.3	0.3	29.8 30.1	1,905.3 1,945.8	420.4 443.4	759.6 819.9	614.7 573.5	110.7 109.0	42.1 42.1	1999 2000
4.0	57.0	95.9	1,204.9	123.1	1,081.6	0.3	27.2	2,034.0	526.4	827.0	574.5	106.0	43.3	2001
4.9	56.8 56.7	86.5 89.4	1,183.9 1,168.2	127.1 116.2	1,056.5 1,051.8	0.2	28.3 28.1	1,953.3 1,948.4	465.0 461.4	819.8 821.0	558.8 556.4	109.8 109.7	42.7 42.7	2001 June July
4.0 4.0 4.0	57.6 57.4	89.6 89.0	1,165.2 1,167.9 1,196.4	119.2 119.2 137.1	1,048.4 1,059.1	0.2 0.2 0.2	28.1 28.1 28.1	1,953.2 1,971.0	463.5 480.2	825.0	555.1 555.4	109.6 109.3	42.8 42.7	Aug. Sep.
4.0 4.0 4.0	57.2 57.0 57.0	88.7 87.2 95.9	1,177.5 1,198.9 1,204.9	124.2 146.7 123.1	1,053.1 1,052.0 1,081.6	0.2 0.2 0.3	28.1 27.9 27.2	1,977.5 1,999.2 2,034.0	483.7 511.0 526.4	829.0 822.5 827.0	556.4 558.2 574.5	108.4 107.6 106.0	42.4 42.5 43.3	Oct. Nov. Dec.
3.9 3.9	56.7 56.4	89.6 95.1	1,159.4 1,148.5	115.6 119.8	1,043.6 1,028.5	0.2 0.2	27.3 27.3	2,009.8 2,007.8	511.5 511.3	819.9 819.7	573.4 572.0	105.1 104.8	42.4 42.2	2002 Jan. Feb.
3.9	56.2	95.4	1,164.8	126.0	1,038.6	0.2	27.1	2,006.6	509.2	821.7	570.8	104.9	42.1	Mar.
3.9 3.9 3.9	56.1 56.0 55.4	95.7 95.8 95.5	1,138.3 1,158.7 1,182.3	123.2 113.4 132.1	1,014.9 1,045.1 1,050.1	0.2 0.1 0.1	27.0 26.8 26.0	1,999.3 2,009.4 2,021.4	515.7 523.8 536.2	816.8 820.6 820.6	561.8 560.1 558.9	104.9 105.0 105.7	42.0 41.9 41.5	Apr. May June
3.0 3.0	55.2 55.2	95.0 105.9	1,157.4 1,173.0	118.2 115.3	1,039.1 1,057.6	0.1 0.1	25.9 25.9	2,016.2 2,013.9	531.6 527.2	821.1 823.0	557.5 557.8	106.0 105.9	41.6 41.6	July Aug.
3.0	55.0	107.9	1,179.3	133.0	1,046.1	0.1	25.7	2,025.0	540.8	820.6	558.3	105.3	41.6	Sep.
3.0 3.0		111.5 113.3	1,184.4 1,221.4	130.0 157.4	1,054.2 1,063.8	0.1	25.7 25.7	2,037.6 2,062.1	543.1 572.4	829.8 822.6	559.7 562.4	105.0 104.7	41.6 41.5	Oct. Nov.
Change		_		_	_									
- 11.4 - 6.9	+ 2.1 + 2.6	+ 9.8 + 11.3	+ 145.3 + 32.4	+ 75.1 - 31.4	+ 77.1 + 53.0	- 8.8 + 6.0	+ 1.9 + 4.9	+ 216.7 + 85.0		+ 96.9 - 14.1	+ 88.7 + 81.2	- 14.6 - 12.2	+ 2.0 + 1.8	1993 1994
- 1.2 + 8.0	+ 7.3 + 3.3	+ 12.5 + 6.5	+ 134.2 + 175.9	+ 20.4 + 36.6	+ 111.5 + 137.7	+ 0.4 - 0.2	+ 2.0 + 1.7	+ 158.3 + 218.4	+ 48.9 + 94.3	- 14.2 + 23.2	+ 105.6 + 96.9	+ 11.7 + 0.7	+ 6.3 + 3.3	1995 1996
- 5.3 - 4.4	+ 1.6 - 4.8	+ 5.4 + 34.1	+ 175.9 + 179.0	+ 31.6 + 39.7	+ 146.7 + 156.4	+ 0.2	- 2.6 - 0.9	+ 100.5 + 179.3	+ 13.0 + 110.6	+ 47.2	+ 39.1 + 28.9	+ 9.2	+ 2.1 - 5.3	1997 1998
- 0.6 - 0.8	+ 0.1	+ 9.3 + 7.1	+ 69.0 + 64.7	- 1.8 - 2.3	+ 81.8 + 66.9	+ 0.1	- 0.4 + 0.3	+ 67.3 + 41.3	+ 32.7 + 22.3	+ 48.4 + 61.1	- 4.5 - 40.5	- 9.3 - 1.7	+ 0.7 - 0.0	1999 2000
- 29.1 + 0.1	- 1.5 - 0.3	+ 13.3 + 0.0	+ 9.6 + 14.6	+ 7.4 + 7.9	+ 2.3 + 6.7	- 0.2 + 0.0	- 2.9 - 0.0	+ 88.5 + 9.4	+ 82.3 + 10.2	+ 8.1 + 0.6	+ 1.1	- 2.9 - 0.1	+ 1.0 - 0.2	2001 2001 June
+ 0.1	- 0.3	+ 0.0 + 3.0	+ 14.6	+ 7.9 - 9.8	+ 6.7 - 4.7	+ 0.0	- 0.0	+ 9.4 - 4.4	+ 10.2 - 3.1	+ 0.6 + 1.2	- 1.2	- 0.1	+ 0.1	July
+ 0.0 + 0.0	+ 0.9 - 0.1	+ 0.1 - 0.5	+ 1.1 + 28.1	+ 4.5 + 17.4	- 3.4 + 10.7	+ 0.0 - 0.0	+ 0.0 - 0.0	+ 5.3 + 17.8	+ 2.7 + 16.7	+ 4.0 + 1.2		- 0.1 - 0.3	+ 0.1 - 0.2	Aug. Sep.
- 0.0 + 0.0 + 0.0	- 0.1 - 0.2 + 0.0	- 0.3 - 1.5 + 8.7	- 19.1 + 20.5 + 5.9	- 13.1 + 22.0 - 23.7	- 6.0 - 1.5 + 29.6	+ 0.0 - 0.0 + 0.1	+ 0.0 - 0.2 - 0.7	+ 6.3 + 21.5 + 34.7	+ 3.4 + 27.1 + 15.4	+ 2.9 - 6.6 + 4.5	+ 1.0 + 1.8 + 16.4	- 0.9 - 0.8 - 1.5	- 0.2 + 0.0 + 0.8	Oct. Nov. Dec.
- 0.0 - 0.0	- 0.3 - 0.3 - 0.3	- 6.1 + 5.8 + 0.3	- 46.1 - 10.8 + 16.4	- 10.5 + 4.3 + 6.3	- 35.6 - 15.1 + 10.1	- 0.1 - 0.0 - 0.0	+ 0.1 - 0.1 - 0.2	- 24.4 - 2.0 - 1.2	- 15.2 - 0.2 - 2.0		- 1.2 - 1.4 - 1.2	- 0.9 - 0.3 + 0.1	- 0.9 - 0.2 - 0.1	2002 Jan. Feb. Mar.
+ 0.0 + 0.0	- 0.1 - 0.0	+ 0.3 + 0.1	- 26.6 + 20.7	- 2.9 - 9.8	- 23.7 + 30.5	+ 0.0 - 0.0	- 0.0 - 0.1	- 7.3 + 11.1	+ 6.5 + 8.2	- 4.9 + 4.5	- 9.0 - 1.7	+ 0.1 + 0.1	- 0.1 - 0.1	Apr. May
- 0.0 - 1.0	- 0.6 - 0.2	- 0.3 - 0.5	+ 21.7 - 24.9	+ 18.6 - 13.9	+ 3.1 - 11.0	- 0.0 - 0.0	- 0.8 - 0.1	+ 11.1 - 5.3	+ 11.9 - 4.7	- 0.3 + 0.5	- 1.2 - 1.4	+ 0.7 + 0.3	- 0.3 + 0.0	June July
+ 0.0	- 0.0 - 0.2	+ 11.5 + 1.9	+ 16.4 + 6.4	- 2.9 + 17.9	+ 19.3 - 11.5	+ 0.0	+ 0.0	- 2.3 + 10.9	- 4.4	+ 1.9	+ 0.3	- 0.1 - 0.5	- 0.0 - 0.0	Aug. Sep.
- 0.0	+ 0.1	+ 3.6	+ 5.1	- 3.0	+ 8.1	+ 0.0	+ 0.0	+ 12.8	+ 2.3	+ 9.5	+ 1.4	- 0.3	+ 0.0	Oct.
+ 0.0	- 0.1	+ 1.7	+ 37.0	+ 27.3	+ 9.7	+ 0.0	+ 0.0	+ 24.5	+ 29.3	– 7.2	+ 2.7	- 0.3	- 0.1	Nov.

arising from the exchange of equalisation claims. — 11 Including liabilities arising from registered debt securities, registered money market paper and non-negotiable bearer debt securities; including subordinated liabilities. — 12 Up to December 1998, excluding liabilities to domestic building and loan associations and money market funds. — 13 Up to December 1998, including time deposits for less than 1 month. — 14 Including liabilities arising from monetary policy operations with the Bundesbank. — 15 Up to December 1998, excluding time deposits for less than 1 month. — 16 Own

acceptances and promissory notes outstanding and, up to December 1998, including endorsement liabilities arising from rediscounted bills. — 17 Up to December 1998, including liabilities to domestic building and loans associations and money market funds. — 18 Since the inclusion of building and loan associations in January 1999, including deposits under savings and loan contracts (see table IV. 12). — 19 Excluding deposits under savings and loan contracts (see also footnote 18). — 20 Including liabilities arising from non-negotiable bearer debt securities.

IV. Banks

4. Assets and liabilities of banks (MFIs) in Germany vis-à-vis non-residents *

Until the end of 1998 DM billion, from 1999 € billion

	Until the e		DM billion						l					
		Lending to	foreign ba						Lending to		on-banks (n			
				nd loans ar not evidenc							advances n by certifica		Treasury bills and	
	Cash in		certificates		cu by	Negotiable				bills 3	by certified	1003,	negotiable	
	hand (non-				Medium	money market		Memo				Medium	money market	
	euro-area			Ch	and	paper	Securities	item			Ch	and	paper	Securities
Period	notes and coins) 1	Total	Total	Short- term	long- term	issued by banks 4	issued by banks 5	Trust loans 6	Total	Total	Short- term	long- term	issued by non-banks	of non-banks
												Fnd o	f year or	
												LIIG	i year or	month
1992 1993	1.0 1.2	405.6 533.8	377.4 498.3	250.0 360.5	127.4 137.7	0.1	21.3 24.3	6.8	217.8 262.5	157.3 184.0	30.2 48.3	127.1 135.7	0.4	45.2 63.0
1994	1.2	492.3	455.0	309.0	146.0	0.1	23.7	13.5	257.4	173.0	35.0	138.0	0.6	66.5
1995	1.2	538.4	500.8	349.7	151.1	0.1	25.6	11.8	289.2	191.1	42.1	148.9	1.7	79.7
1996	1.4	588.9	544.2	386.6	157.6	0.3	31.5	13.0	352.0	230.4	60.2	170.2	4.9	103.9
1997 1998	1.5 1.5	689.1 774.9	635.3 706.9	456.1 533.6	179.2 173.3	0.2 0.4	43.1 58.7	10.5 9.0	474.8 610.3	312.7 364.9	96.2 93.9	216.5 270.9	6.0 11.6	140.3 211.0
1999	0.4	427.1	383.5	279.5	104.1	0.4	43.2	4.2	396.1	235.8	52.7	183.1	7.5	152.7
2000 2001	0.4 0.4	507.7 596.1	441.4 521.7	325.4 383.7	116.0 138.0	1.3 0.8	65.0 73.6	3.6 3.5	475.8 570.3	286.8 347.2	71.1 99.7	215.7 247.5	6.5 5.2	182.5 217.9
2001 2001 June	0.4	568.1	492.6	369.3	123.3	1.5	74.0	3.6	562.2	337.5	97.6	239.9	6.0	217.3
July	0.5	540.4	465.0	341.1	123.9	1.8	73.6	3.5	549.6	330.2	92.8	237.4	6.6	212.8
Aug.	0.5	560.0	485.2	358.5	126.7	1.8	73.0	3.5	550.4	327.7	95.2	232.6	6.7	215.9
Sep.	0.5	589.0	513.6	384.2	129.4	1.8	73.6	3.5	557.1	333.4	98.4	235.1	6.5	217.2
Oct. Nov.	0.5 0.5	591.9 608.4	516.9 534.2	384.5 399.9	132.4 134.3	1.5 1.1	73.4 73.1	3.5 3.6	561.4 573.0	338.0 352.3	100.4 110.1	237.6 242.3	6.1 5.2	217.3 215.5
Dec.	0.4	596.1	521.7	383.7	138.0	0.8	73.6	3.5	570.3	347.2	99.7	247.5	5.2	217.9
2002 Jan.	0.9	585.2	510.4	371.7	138.7	1.0	73.8	3.2	578.2	353.8	103.1	250.7	4.6	219.8
Feb. Mar.	0.7	568.5 581.2	493.0 505.6	351.0 362.4	142.0 143.2	1.4 1.3	74.1 74.3	3.1 2.9	582.3 596.4	355.9 366.7	103.6 113.3	252.3 253.4	5.8 7.2	220.6 222.5
Apr.	0.4	590.1	515.1	370.6	144.6	1.3	73.7	2.9	586.5	359.2	108.0	251.2	7.8	219.6
May	0.4	613.3	538.2	395.3	142.9	1.2	74.0	2.8	589.1	359.6	111.2	248.5	6.6	222.9
June	0.4	609.7	534.3	399.4	135.0	1.2	74.1	2.8	575.1	348.2	105.1	243.1	5.2	221.7
July	0.4	614.2 631.2	538.2 554.9	400.0 413.3	138.3 141.6	1.5 1.5	74.5 74.8	2.8 2.8	579.1 576.0	346.2 344.3	101.4 98.9	244.9 245.4	5.8 8.9	227.0 222.8
Aug. Sep.	0.3	659.5	582.6	439.2	141.6	1.9	75.0	2.8	584.9	353.7	109.3	243.4	9.5	221.7
Oct.	0.3	672.9	595.2	450.2	145.0	1.9	75.8	2.7	585.5	355.6	108.9	246.7	9.8	220.1
Nov.	0.3	711.7	630.2	484.4	145.7	5.6	76.0	2.8	588.8	358.2	111.0	247.2		220.7
													C	hanges *
1993 1994	+ 0.1 + 0.0	+ 117.3	+ 117.2 - 27.5	+ 103.9 - 41.4	+ 13.3 + 13.9	- 0.0 - 0.0	+ 0.5 + 0.1	- 0.4 + 3.4	+ 31.9 - 1.6	+ 12.6 - 5.5	+ 6.2	+ 6.3 + 6.7	- 0.4 + 0.6	+ 19.5 + 5.1
1995	+ 0.1	+ 59.1	+ 57.6	+ 49.2	+ 8.4	+ 0.0	+ 2.9	- 1.4	+ 38.3	+ 21.3	+ 7.8	+ 13.6	+ 1.1	+ 16.1
1996	+ 0.2	+ 34.2	+ 29.9	+ 27.2	+ 2.7	+ 0.2	+ 5.2	- 1.1	+ 58.4	+ 36.2	+ 17.0	+ 19.2	+ 3.1	+ 21.4
1997 1998	+ 0.1	+ 80.6 + 100.8	+ 71.5 + 89.5	+ 53.3 + 79.3	+ 18.2 + 10.2	- 0.1 + 0.0	+ 10.4 + 13.1	- 1.2 - 1.8	+ 109.3 + 122.0	+ 73.0 + 42.7	+ 33.7	+ 39.3 + 49.1	+ 0.7 + 5.5	+ 32.9 + 66.0
1999	- 0.3	+ 17.7	+ 5.7	- 5.3	+ 11.0	+ 0.2	+ 11.7	- 0.0	+ 85.8	+ 42.8	+ 8.4	+ 34.4	+ 1.3	+ 41.8
2000 2001	- 0.0 + 0.0	+ 78.9 + 83.7	+ 56.5 + 75.6	+ 44.6 + 54.4	+ 11.8 + 21.2	+ 0.9 - 0.5	+ 21.6 + 8.5	- 0.7 - 0.2	+ 72.0 + 88.3	+ 45.0 + 53.4	+ 17.4 + 27.0	+ 27.7 + 26.4	- 1.2 - 1.5	+ 28.2 + 36.3
2001 2001 June	+ 0.1	+ 16.7	+ 16.1	+ 11.6	+ 4.5	- 0.0	+ 0.6	- 0.2	- 6.6	- 3.0	- 5.8	+ 2.8	- 1.3	- 2.3
July	- 0.0	- 23.7	- 24.0	- 25.6	+ 1.6	+ 0.3	- 0.0	- 0.0	- 6.3	- 2.4	- 3.6	+ 1.2	+ 0.7	- 4.7
Aug. Sep.	- 0.0 + 0.0	+ 24.0 + 28.1	+ 24.2 + 27.5	+ 20.2 + 25.2	+ 4.1 + 2.3	- 0.0 + 0.1	- 0.2 + 0.5	+ 0.0	+ 8.6 + 5.7	+ 4.3 + 4.9	+ 4.0 + 3.0	+ 0.3 + 1.9	+ 0.2 - 0.2	+ 4.1 + 1.0
Oct.	+ 0.0	+ 2.0	+ 27.5	- 0.3	+ 2.8	- 0.3	- 0.2	+ 0.0	+ 2.7	+ 3.2	+ 1.4	+ 1.8	- 0.2	- 0.0
Nov.	- 0.0	+ 15.1	+ 16.0	+ 14.5	+ 1.5	- 0.5	- 0.2	+ 0.0	+ 10.3	+ 12.1	+ 9.1	+ 3.0	- 1.0	- 0.9
Dec.	- 0.1	- 12.8	- 13.2	- 16.6	+ 3.4	- 0.2	+ 0.6	- 0.0	- 3.7	- 6.6	- 10.6	+ 4.0	- 0.0	+ 2.9
2002 Jan.	+ 0.5 - 0.2	- 13.2 - 16.4	- 13.5 - 17.1	- 13.7 - 20.5	+ 0.2	+ 0.2	+ 0.1	- 0.4	+ 4.8	+ 3.5	+ 2.6	+ 0.9	- 0.7	+ 1.9
Feb. Mar.	- 0.2	- 16.4 + 13.5	- 17.1 + 13.3	- 20.5 + 11.9	+ 3.4 + 1.4	+ 0.4 - 0.1	+ 0.3 + 0.2	- 0.1 - 0.2	+ 4.6 + 15.9	+ 2.5 + 13.9	+ 0.6 + 9.9	+ 1.8 + 4.0	+ 1.2 + 1.4	+ 1.0 + 0.6
Apr.	- 0.1	+ 12.7	+ 13.0	+ 10.7	+ 2.3	- 0.1	- 0.3	- 0.0	- 3.6	- 2.4	- 3.8	+ 1.4	+ 0.7	- 1.8
May	+ 0.0	+ 28.7	+ 28.2	+ 28.2	- 0.1	- 0.1	+ 0.6	- 0.1	+ 10.7	+ 7.1	+ 4.9	+ 2.2	- 1.0	+ 4.6
June	- 0.0	+ 10.8	+ 10.3	+ 9.0	+ 1.2	+ 0.0	+ 0.5	+ 0.0	- 3.3	- 2.9	- 3.9	+ 1.0	- 1.2	+ 0.8
July Aug.	- 0.0 - 0.0	+ 1.2 + 14.3	+ 0.8 + 14.0	- 1.4 + 13.8	+ 2.3 + 0.2	+ 0.3 + 0.0	+ 0.2 + 0.3	+ 0.0	- 0.2 - 2.0	- 5.3 - 0.9	- 4.5 - 2.3	- 0.7 + 1.3	+ 0.5 + 3.1	+ 4.6 - 4.2
Sep.	+ 0.0	+ 28.8	+ 28.2	+ 26.3	+ 1.9	+ 0.4	+ 0.3	+ 0.0	+ 9.6	+ 9.7	+ 10.5	- 0.8	+ 0.6	- 0.8
Oct. Nov.	- 0.0 - 0.0	+ 13.8 + 40.1	+ 13.0 + 36.2	+ 11.3 + 35.0	+ 1.7 + 1.2	+ 0.1 + 3.6	+ 0.8 + 0.3	- 0.2 + 0.1	+ 0.9 + 4.7	+ 2.1 + 3.8	- 0.3 + 2.4	+ 2.5 + 1.4	+ 0.2 + 0.1	- 1.5 + 0.8
	- 0.0													

^{*} See table IV.2, footnote*; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent alterations, which will appear in the following Monthly Report, are not specially marked. — 1 Up to December 1998:

domestic notes and coins. — 2 Up to December 1998, including loans on a trust basis; see also footnote 6. — 3 Up to December 1998, bill-based lending (bill holdings plus endorsement liabilities arising from rediscounted bills and bills sent for collection from the banks' portfolios prior to

-			Deposits o	f foreign ba	nks (MFIs)	2			Deposits o	f foreign no	on-banks (n	on-MFIs) 2			
		Partici- pating interests		Deposits of foreign banks (MFIs) 2 Time deposits (including basavings bonds)								osits (includi posits and l onds)			
į	Memo item Trust loans 6	in foreign banks and enter- prises 7	Total	Sight deposits 8	Total 9	Short- term 9	Medium and long- term	Memo item Trust loans 6	Total	Sight deposits 8	Total 9	Short- term ⁹	Medium and long- term	Memo item Trust loans 6	Period
	End of y	ear or m	onth *												
ı	14.8	25.8	297.0	66.7	219.7	119.2	100.5	10.5	125.8	15.8				6.4	1992
	15.5 17.3	30.1 34.0	328.1 402.3	82.9 111.6	236.0 283.7	122.5 150.8	113.5 132.9	9.2 7.1	162.8 181.5	16.9 20.6	139.2 155.3	39.1 41.7	100.1 113.6	6.7 5.6	1993 1994
	16.7	38.8	463.7	116.9	339.7	191.6	148.2	7.0	224.4	22.1	198.0	45.3	152.6	4.4	1995
	12.7 15.7	45.8 54.7	486.5 670.3	147.1 226.0	335.7 440.2	172.0 254.3	163.7 185.9	3.8 4.0	273.5 333.9	34.3 43.5	237.2 285.7	50.0 63.0	187.2 222.7	2.1 4.8	1996 1997
	22.9	62.9	875.7	309.5	562.5	359.1	203.4	3.7	390.3	51.3	329.6	71.8	257.8	9.5	1998
	13.6	33.9	483.6	65.6	418.0	332.3	85.6	2.0	284.4	23.8	260.6	64.9	195.7	5.8	1999
	13.9 13.8	47.4 47.6	586.0 622.7	113.7 91.9	472.2 530.8	382.9 434.5	89.3 96.3	1.7 1.4	314.9 350.6	35.4 34.0	279.5 316.6	62.5 97.6	217.0 219.0	5.6 5.3	2000 2001
	14.8	48.6	675.1	151.3	523.8	435.2	88.6	1.6	364.1	45.8	318.3	81.5	236.8	6.1	2001 June
	14.7 14.3	49.3 49.2	635.4 640.1	132.5 106.9	502.8 533.3	414.1 445.0	88.7 88.3	1.5 1.5	367.1 368.3	42.0 37.7	325.2 330.6	91.5 100.6	233.6 230.0	6.0 5.7	July Aug.
	14.2	49.1	645.2	144.7	500.5	409.0	91.6	1.5	360.8	36.7	324.2	92.2	231.9	5.7	Sep.
	14.1	49.8	637.1	133.7	503.4	412.3	91.1	1.4	376.6	37.0	339.6	105.9	233.6	5.8	Oct.
	14.2 13.8	50.0 47.6	643.3 622.7	120.4 91.9	522.9 530.8	429.6 434.5	93.3 96.3	1.4 1.4	365.7 350.6	38.8 34.0	327.0 316.6	107.5 97.6	219.5 219.0	5.9 5.3	Nov. Dec.
	13.7	47.2	638.6	130.5	508.1	412.3	95.8	1.3	361.3	36.0	325.2	102.2	223.0	5.3	2002 Jan.
	14.0 14.1	47.4 47.0	616.5 627.0	122.8 122.0	493.7 505.0	396.3 406.5	97.4 98.4	1.3 1.3	360.4 363.2	34.6 35.0	325.8 328.2	105.0 106.4	220.8 221.8	5.1 5.1	Feb. Mar.
	14.4	46.9	647.7	123.4	524.2	426.0	98.2	1.3	366.3	36.0	330.3	109.2	221.2	4.9	Apr.
	14.1	47.4	646.2	119.3	526.9	428.8	98.1	1.2	366.0	34.9	331.1	112.7	218.4	4.7	May
	13.1	47.0	608.3	133.9	474.4	376.0	98.4	1.1	344.2	38.2	306.0	93.0	213.0	4.5	June
	13.4 13.4	47.2 47.0	618.3 615.5	121.3 91.8	497.1 523.7	395.4 419.2	101.6 104.5	1.1	347.9 337.2	38.6 34.8	309.3 302.5	95.8 100.9	213.5 201.6	4.6 4.5	July Aug.
	13.4	47.0	626.2	132.7	493.5	389.3	104.2	1.1	344.6	41.2	303.4	103.2	200.2	4.6	Sep.
	14.2 14.7	45.7 45.8	633.0 648.3	116.1 125.2	516.9 523.1	412.9 420.1	104.1 102.9	1.1 1.1	342.4 346.8	38.2 42.6	304.2 304.2	99.4 101.1	204.8 203.0	4.6 4.7	Oct. Nov.
	Change		040.5	123.2	525.1	420.1	102.5		340.0	72.0	304.2	101.1	203.0	4.7	NOV.
ı	+ 0.2 - 1.7	+ 4.1 + 4.2	+ 23.8 + 85.6	+ 14.1 + 31.3	+ 11.1 + 56.0	- 0.4 + 33.9	+ 11.5 + 22.1	- 1.4 - 1.7	+ 34.3 + 23.1	+ 1.0 + 3.9	+ 33.2 + 19.8	+ 4.0 + 3.4	+ 29.1 + 16.4	+ 0.2 - 0.7	1993 1994
	- 0.2	+ 5.2	+ 71.0	+ 7.9	+ 64.6	+ 45.9	+ 18.7	- 1.7 - 1.5	+ 47.8	+ 2.2	+ 46.5	+ 4.1	+ 42.4	- 0.9	1995
	- 2.3	+ 5.9	+ 11.3	+ 27.1	- 13.9	- 26.6	+ 12.7	- 1.9	+ 44.7	+ 11.7	+ 35.0	+ 3.7	+ 31.3	- 2.0	1996
	+ 2.7 + 7.7	+ 7.9 + 8.8	+ 157.3 + 215.6	+ 67.7 + 87.7	+ 89.5 + 128.1	+ 71.8 + 108.1	+ 17.7 + 20.0	+ 0.1 - 0.3	+ 51.0 + 64.7	+ 5.4 + 10.4	+ 43.3 + 48.9	+ 11.4 + 10.3	+ 31.9 + 38.6	+ 2.3 + 5.5	1997 1998
	+ 1.1	+ 10.9	+ 37.4	- 9.2	+ 46.6	+ 47.6	- 1.0	- 0.0	+ 61.0	+ 7.2	+ 53.8	+ 15.9	+ 37.9	+ 0.1	1999
	- 0.2 - 0.5	+ 12.8 - 0.5	+ 90.0 + 23.5	+ 47.0 - 23.6	+ 43.0 + 47.0	+ 42.9 + 42.4	+ 0.1 + 4.6	- 0.4 - 0.4	+ 24.4 + 30.8	+ 11.1 - 1.8	+ 13.3 + 32.6	- 2.9 + 33.3	+ 16.2 - 0.7	- 0.8 - 0.6	2000 2001
	- 0.0	- 0.4	- 28.0	- 3.4	- 24.5	- 26.2	+ 1.7	- 0.1	- 20.0	- 8.1	- 11.9	- 14.7	+ 2.8	- 0.0	2001 June
	+ 0.0	+ 1.1	- 32.2	- 17.6	- 14.6	- 15.5	+ 0.9	- 0.0	+ 7.6	- 3.3	+ 10.9		+ 0.1	+ 0.1	July
	- 0.0 - 0.1	+ 0.5 - 0.2	+ 14.3 + 3.4	- 24.3 + 37.7	+ 38.7 - 34.2	l .		- 0.0 - 0.0	+ 6.7 - 8.4	- 3.9 - 1.1	+ 10.6 - 7.4	- 8.7	+ 0.3 + 1.3	+ 0.1	Aug. Sep.
	- 0.2 + 0.0	+ 0.5 + 0.0	- 10.3 + 3.1	- 11.4 - 13.8	+ 1.1 + 16.9		- 0.6 + 1.8	- 0.1 - 0.0	+ 14.7 - 12.6	+ 0.3 + 1.6	+ 14.5 - 14.2	+ 13.4 + 1.0	+ 1.1	- 0.0 - 0.0	Oct. Nov.
	- 0.4	- 2.6	- 22.5	- 28.8	+ 6.3	+ 3.5	+ 2.8	+ 0.0	- 16.0	- 4.8	- 11.2	- 10.1	- 1.1	- 0.6	Dec.
	- 0.2	+ 0.4	+ 11.6	+ 38.3	- 26.8	- 25.7	- 1.0	- 0.1	+ 8.2	+ 1.9	+ 6.4	+ 3.9	+ 2.5	- 0.1	2002 Jan.
	+ 0.3 + 0.2	+ 0.2 - 0.3	- 21.7 + 11.9	- 7.7 - 0.5	- 14.0 + 12.4		+ 1.7 + 1.2	- 0.0 + 0.0	- 0.5 + 3.6	- 1.4 + 0.4	+ 0.9 + 3.2	+ 2.9 + 1.6	- 2.0 + 1.7	- 0.2 - 0.0	Feb. Mar.
	+ 0.3	+ 0.2	+ 27.1	+ 2.3	+ 24.8	+ 24.3	+ 0.5	- 0.1	+ 7.1	+ 1.3	+ 5.8	+ 3.9	+ 1.9	- 0.2	Apr.
	- 0.3 - 1.0	+ 1.1 + 0.3	+ 7.3 - 27.3	- 2.8 + 16.1	+ 10.1 - 43.4	+ 9.1 - 44.4	+ 1.0 + 1.0	- 0.0 - 0.1	+ 5.4 - 14.5	- 0.8 + 3.7	+ 6.2 - 18.2	+ 5.2 - 17.6	+ 1.0	- 0.2 - 0.3	May June
	+ 0.2	- 0.1	+ 5.5	- 13.6	+ 19.0	+ 16.3	+ 2.7	+ 0.0	+ 0.6	+ 0.2	+ 0.5	+ 2.1	- 1.6	+ 0.1	July
	- 0.0 + 0.1	- 0.2 + 0.0	- 1.5	- 29.2 + 40.9	+ 27.7 - 29.6	+ 24.8	+ 3.0 - 0.1	- 0.0 + 0.0	+ 4.7 + 8.1	- 3.8 + 6.5	+ 8.5	+ 5.3	+ 3.2 - 1.3	- 0.0 + 0.1	Aug.
	+ 0.1	+ 0.0	+ 11.3 + 7.2	- 16.6				- 0.0	- 1.9	- 3.0	+ 1.6	+ 2.9	+ 4.8	- 0.0	Sep. Oct.
	+ 0.5					+ 8.4		- 0.0		+ 4.5			- 1.0		Nov.

maturity). — 4 Up to November 1993, included in securities; see also footnote 5. — 5 Up to November 1993, including negotiable money market paper; excluding registered debt securities. — 6 From 1999, no longer included in loans and deposits (see also footnote 2). — 7 Up to December

1998, including working capital supplied to branches abroad. — **8** Up to December 1998, including time deposits for less than 1 month. — **9** Up to December 1998, excluding time deposits for less than 1 month.

5. Lending by banks (MFIs) in Germany to domestic non-banks (non-MFIs) *

Until the end of 1998 DM billion, from 1999 € billion

	Until the end of 1998 DM bi	I	N4							
		Short-term le	T	and individue	ula 1	to public out	a a riti a s		Medium and	
	Lending to domestic		to enterprises	and individua	115 1	to public autl	Torrties			to enter-
Period	including excluding negotiable money market paper, securities,	Total	Total	Loans and advances not evi- denced by certifi- cates and bills 3, 4	Negoti- able money market	Total		easury	Total	Total
renou	equalisation claims	Total	Total	Dills 3, 4	paper	Total	cates bi		d of year o	
1992 1993 1994	3,478.2 3,166 3,826.4 3,417 4,137.2 3,633	8 563.2	544.2	571.0 540.8 548.6	0.2 3.4 0.4	26.0 19.0 34.4	16.7 16.8 32.7	9.3 2.2 1.8	2,881.0 3,263.2 3,553.7	2,167.5 2,441.8 2,661.9
1995 1996 1997 1998 1999	4,436.9 3,936 4,773.1 4,248 5,058.4 4,506 5,379.8 4,775 2,904.5 2,576	7 662.2 2 667.8 4 704.3	617.2 625.8 661.3	583.3 616.2 624.8 660.8 328.7	0.7 1.0 1.0 0.5 0.2	31.3 45.1 41.9 43.0 26.4	30.5 40.2 40.1 38.5 23.6	0.8 4.9 1.9 4.5 2.8	3,821.7 4,110.8 4,390.6 4,675.5 2,549.2	2,785.5 3,007.2 3,223.4 3,482.4 1,943.6
2000 2001	3,003.7 2,663 3,014.1 2,704			347.7 355.2	0.5 1.5	22.9 31.2	21.2 28.2	1.7 2.9	2,632.5 2,626.2	2,038.6 2,070.2
2001 June	3,007.7 2,681	1	1	362.0	1.3	21.7	20.7	1.0	2,622.7	2,047.4
July Aug. Sep.	3,008.2 2,676 2,995.3 2,676 2,989.9 2,685	6 371.3	345.9	352.2 344.6 352.5	1.2 1.4 1.9	26.6 25.4 25.5	23.4 23.1 22.4	3.2 2.3 3.0	2,628.2 2,624.0 2,610.0	2,047.3 2,052.4 2,051.2
Oct. Nov. Dec.	2,992.5 2,687 3,009.4 2,703 3,014.1 2,704	8 388.0	351.1	348.7 349.9 355.2	1.4 1.2 1.5	26.6 36.9 31.2	23.6 34.4 28.2	3.0 2.5 2.9	2,615.8 2,621.4 2,626.2	2,058.9 2,064.6 2,070.2
2002 Jan. Feb. Mar.	3,011.2 2,694 3,006.1 2,694 2,996.9 2,694	0 377.7	345.7	344.6 344.8 348.0	0.9 0.9 1.0	31.8 32.0 33.5	29.8 30.1 31.8	2.1 1.9 1.6	2,633.8 2,628.4 2,614.4	2,078.2 2,071.7 2,061.7
Apr. May June	3,004.3 2,691 3,005.7 2,687 2,990.8 2,683	8 379.1 0 373.6	348.2 344.9	347.1 344.0 342.2	1.1 0.9 0.9	30.8 28.6 27.6	28.2 24.9 23.4	2.6 3.7 4.2	2,625.3 2,632.2 2,620.1	2,069.3 2,072.7 2,066.7
July Aug.	2,995.7 2,689 2,987.3 2,679	5 370.4 9 356.0	335.5 331.2	334.1 329.9	1.5 1.2	34.9 24.8	32.2 22.1	2.7 2.7	2,625.3 2,631.4	2,068.5 2,073.3
Sep. Oct.	2,995.5 2,687 2,997.6 2,688	8 364.2	335.7	341.6 334.2	1.5	24.2 28.5	21.8 26.1	2.4	2,628.2 2,633.4	2,068.8
Nov.	3,003.5 2,687	5 365.8	332.5	330.9	1.7	33.3	31.4	1.9	2,637.7	2,079.9 Changes *
1993 1994	+ 339.8 + 253 + 320.5 + 244			- 11.9 + 9.9	+ 2.7 - 2.9	- 5.9 + 6.2	+ 1.2 + 6.6	- 7.2 - 0.4	+ 354.9 + 307.2	+ 251.7 + 249.1
1995 1996 1997 1998 1999	+ 312.8 + 311 + 336.3 + 312 + 285.2 + 256 + 335.3 + 285 + 156.1 + 139	9 + 44.3 9 + 2.7 5 + 51.7	+ 32.6 + 5.9 + 50.6	+ 37.7 + 32.2 + 5.9 + 51.2 + 6.4	+ 0.2 + 0.4 + 0.0 - 0.6 - 0.0	- 1.9 + 11.7 - 3.2 + 1.1 + 3.3	- 1.0 + 7.4 - 0.1 - 1.6 + 2.9	- 1.0 + 4.3 - 3.0 + 2.7 + 0.4	+ 276.9 + 292.0 + 282.5 + 283.6 + 146.4	+ 185.1 + 221.5 + 219.9 + 258.3 + 146.4
2000 2001	+ 100.7 + 83 + 11.9 + 39	2 + 14.5	+ 18.1	+ 17.8 + 5.9	+ 0.3 + 1.0	- 3.6 + 8.4	- 2.5 + 7.8	- 1.1 + 0.6	+ 86.1 - 3.4	+ 93.8 + 32.0
2001 June	I I	4 – 4.5	1	+ 1.5	+ 0.0	- 6.0	- 5.4	- 0.6	- 20.0	- 25.1
July Aug. Sep.	- 9.6 + 1	8 – 3.8 2 – 7.2 8 + 7.1	- 6.1	- 8.6 - 6.2 + 7.1	- 0.1 + 0.1 + 0.5	+ 4.9 - 1.2 - 0.6	+ 2.7 - 0.3 - 0.7	+ 2.2 - 0.9 + 0.1	+ 5.5 - 2.4 - 13.4	- 0.3 + 5.1 - 1.2
Oct. Nov. Dec.	+ 2.4 + 1 + 16.1 + 15 + 5.8 + 1	8 + 10.8	+ 0.5	- 4.5 + 0.7 + 5.9	- 0.5 - 0.2 + 0.3	+ 1.2 + 10.3 - 5.7	+ 1.2 + 10.8 - 6.2	+ 0.0 - 0.5 + 0.4	+ 6.2 + 5.3 + 5.4	+ 8.1 + 5.2 + 5.9
2002 Jan. Feb. Mar.	- 3.4 - 10 - 4.9 - 0	1	- 11.9 + 0.3	- 11.4 + 0.3 + 3.3	- 0.6 + 0.0 + 0.1	+ 0.7 + 0.1 + 1.5	+ 1.6 + 0.3 + 1.7	- 0.9 - 0.2 - 0.2	+ 7.9 - 5.4 - 13.5	+ 8.1 - 6.5 - 9.7
Apr. May	+ 8.1 - 2 + 2.2 - 4	4 – 3.4 1 – 5.1	- 0.8 - 2.9	- 0.8 - 2.8	+ 0.1 - 0.2	- 2.6 - 2.2	- 3.6 - 3.3	+ 1.0 + 1.1	+ 11.5 + 7.4	+ 8.2 + 3.7
June July Aug.	+ 5.1 + 6 - 8.4 - 9	0 – 3.3 5 – 0.3 6 – 14.4	- 7.6 - 4.4	- 2.3 - 8.1 - 4.1	+ 0.0 + 0.5 - 0.2	- 1.0 + 7.3 - 10.0	+ 8.8 - 10.1	+ 0.5 - 1.5 + 0.0	- 15.6 + 5.5 + 6.1	- 9.6 + 2.1 + 4.0
Sep. Oct. Nov.	+ 2.0 + 1	2 + 11.2 4 - 3.2 3 + 1.4	- 7.5	+ 11.5 - 7.5 - 3.5	+ 0.3 - 0.0 + 0.1	- 0.6 + 4.3 + 4.8	- 0.3 + 4.3 + 5.2	- 0.3 + 0.0 - 0.5	- 3.3 + 5.2 + 4.5	- 3.9 + 7.7 + 3.5

^{*} See table IV.2, footnote*; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent alterations, which will appear in the following Monthly Report, are not specially marked. — 1 Up to December 1998, including loans to domestic building and loan associations. — 2 Up to

December 1998, including loans on a trust basis; see also footnote 9. — 3 Up to December 1998, bill-based lending (bill holdings plus endorsement liabilities arising from rediscounted bills and bills sent for collection from the banks' portfolios prior to maturity). — 4 From 1999, including small amounts of medium-term series of bills. — 5 From December 1993, including

lending 2, 6												}
	ndividuals 1, 2				to public aut	thorities 2						
Loans and a	dvances not y certificates					Loans and a evidenced by						
Total	Medium- term 7	Long- term 8	Securities 6	Memo item Trust loans 9	Total	Total	Medium- term 7	Long- term 8	Secur- ities 6, 10	Equal- isation claims 11	Memo item Trust loans 9	Period
End of ye	ear or mor	nth *										
2,011.5	263.5	1,748.0	90.3	65.7	734.1	487.8	47.6	440.2	147.2	64.3	13.9	1992
2,241.5	253.9	1,987.5	134.2	66.1	821.4	537.1	36.8	500.3	193.5	75.3	15.5	1993
2,390.4	228.3	2,162.0	203.2	68.3	891.8	577.0	34.5	542.5	230.5	68.1	16.1	1994
2,522.0	214.1	2,307.9	192.9	70.6	1,036.2	713.0	74.5	638.4	234.4	71.3	17.5	1995
2,713.3	215.8	2,497.5	205.9	88.0	1,103.6	773.0	69.5	703.6	231.3	81.3	18.0	1996
2,900.0	216.2	2,683.8	234.1	89.3	1,167.2	833.8	53.0	780.8	239.2	76.0	18.3	1997
3,104.5	206.8	2,897.8	292.4	85.4	1,193.2	868.8	33.1	835.7	235.4	71.6	17.3	1998
1,764.8	182.5	1,582.3	178.9	49.2	605.6	459.5	30.9	428.6	108.6	37.5	8.7	1999
1,838.9	192.8	1,646.0	199.7	50.1	593.9	455.9	30.4	425.5	104.9	33.1	8.4	2000
1,880.5	191.1	1,689.4	189.7	48.9	556.0	440.3	25.6	414.6	111.8	4.0	8.0	2001
1,850.8	189.4	1,661.4	196.6	48.5	575.3	448.3	26.8	421.5	122.1	4.9	8.3	2001 June
1,854.6	188.8	1,665.8	192.7	48.5	580.9	446.7	26.6	420.1	130.2	4.0	8.2	July
1,862.7 1,866.1	189.7 190.0	1,672.9 1,676.1	189.7 185.1	49.4 49.2	571.6 558.8	446.2 444.1	26.6 25.7	419.7 418.4	121.4 110.7	4.0 4.0 4.0	8.2 8.2	Aug Sep.
1,870.9	189.8	1,681.1	188.0	49.1	556.9	443.9	25.5	418.4	109.0	4.0	8.1	Oct.
1,876.6	190.0	1,686.6	188.0	48.8	556.8	442.9	25.6	417.3	110.0	4.0	8.1	Nov.
1,880.5	191.1	1,689.4	189.7	48.9	556.0	440.3	25.6	414.6	111.8	4.0	8.0	Dec.
1,880.9	189.1	1,691.8	197.3	48.7	555.7	439.6	26.7	412.9	112.2	3.9	8.0	2002 Jan.
1,882.5	189.3	1,693.3	189.1	48.5	556.8	436.6	26.1	410.5	116.2	3.9	8.0	Feb.
1,882.3	189.4	1,692.9	179.4	48.2	552.7	432.2	25.6	406.6	116.5	3.9	7.9	Mar
1,884.5	189.8	1,694.7	184.8	48.2	556.0	431.9	26.2	405.7	120.1	3.9	7.9	Apr.
1,888.0	189.9	1,698.1	184.7	48.1	559.5	430.1	26.3	403.8	125.5	3.9	7.9	May
1,891.0	191.2	1,699.9	175.6	47.6	553.4	426.4	24.4	402.0	123.0	3.9	7.8	June
1,897.5	191.7	1,705.8	171.0	47.5	556.8	425.8	24.5	401.3	128.0	3.0	7.7	July
1,901.6	192.3	1,709.3	171.6	47.5	558.1	426.2	24.7	401.5	128.9	3.0	7.7	Aug
1,900.6	192.1	1,708.6	168.2	47.3	559.3	423.3	24.6	398.7	133.1	3.0	7.7	Sep.
1,906.5	193.8	1,712.6	170.1	47.5	556.8	422.1	24.7	397.4	131.8	3.0	7.6	Oct.
1,907.6	192.5	1,715.1	172.4	47.3	557.8	417.7	25.5	392.2	137.1	3.0	7.7	Nov
Changes	*											
+ 214.1	- 28.9	+ 243.0	+ 37.1	+ 0.5	+ 104.1	+ 48.2	- 10.8	+ 59.0	+ 65.1	- 11.4	+ 1.6	1993
+ 198.7	- 29.2	+ 227.9	+ 48.5	+ 1.9	+ 58.2	+ 26.2	- 2.4	+ 28.5	+ 38.3	- 6.9	+ 0.7	1994
+ 176.0	- 1.9	+ 177.9	+ 3.3	+ 5.9	+ 91.8	+ 91.8	+ 15.3	+ 76.6	- 0.4	- 1.2	+ 1.5	1995
+ 204.4	+ 1.6	+ 202.8	+ 14.0	+ 3.1	+ 70.4	+ 65.7	- 5.5	+ 71.2	- 3.3	+ 8.0	+ 0.1	1996
+ 189.0	+ 0.3	+ 188.7	+ 29.5	+ 1.4	+ 62.6	+ 60.6	- 18.0	+ 78.6	+ 7.0	- 5.3	+ 0.2	1997
+ 205.7	- 8.9	+ 214.6	+ 56.5	- 3.9	+ 25.3	+ 35.0	- 20.0	+ 55.0	- 4.4	- 4.4	- 0.9	1998
+ 121.8	+ 25.1	+ 96.8	+ 24.6	+ 0.3	+ 0.0	+ 8.5	+ 6.2	+ 2.3	- 7.8	- 0.6	- 0.1	1999
+ 71.8	+ 6.9	+ 64.9	+ 22.1	+ 0.8	- 7.7	- 3.8	- 0.4	- 3.5	- 3.1	- 0.8	- 0.3	2000
+ 41.9	- 2.8	+ 44.7	- 9.8	- 1.2	- 35.4	- 16.5	- 5.5	- 10.9	+ 10.1	- 29.1	- 0.4	2001
+ 1.3	- 1.0	+ 2.2	- 26.4	- 0.2	+ 5.1	- 0.8	- 0.5	- 0.3	+ 5.8	+ 0.1	- 0.1	2001 June
+ 3.8	+ 0.9	+ 4.4	- 4.0	- 0.0	+ 5.8	- 1.6	- 0.2	- 1.4	+ 8.3	- 0.9	- 0.1	July
+ 8.1		+ 7.2	- 3.0	+ 0.9	- 7.4	- 0.4	- 0.0	- 0.4	- 7.0	+ 0.0	- 0.0	Aug
+ 3.4		+ 3.1	- 4.6	- 0.1	- 12.2	- 2.1	- 0.8	- 1.3	- 10.1	+ 0.0	- 0.0	Sep.
+ 5.1	+ 0.1	+ 5.0	+ 2.9	- 0.1	- 1.9	- 0.3	- 0.3	- 0.0	- 1.6	- 0.0	- 0.0	Oct.
+ 5.3	- 0.1	+ 5.3	- 0.1	- 0.2	+ 0.1	- 1.0	+ 0.1	- 1.1	+ 1.1	+ 0.0	+ 0.0	Nov.
+ 4.1	+ 1.2	+ 3.0	+ 1.8	+ 0.1	- 0.6	- 2.6	+ 0.1	- 2.7	+ 2.0	+ 0.0	- 0.1	Dec.
+ 0.3 + 1.7 + 0.1	- 2.1 + 0.2 + 0.4	+ 2.4 + 1.5 - 0.3	+ 7.8 - 8.1 - 9.8	- 0.3 - 0.2 - 0.2	- 0.3 + 1.1 - 3.9	- 0.7 - 3.0 - 4.4	+ 1.0 - 0.6 - 0.5	- 1.7 - 2.4 - 3.9	+ 0.5 + 4.1 + 0.5	- 0.0 - 0.0	- 0.0 - 0.0 - 0.0	2002 Jan. Feb. Mar
+ 2.4	+ 0.4	+ 2.0	+ 5.8	- 0.1	+ 3.3	- 0.3	+ 0.6	- 0.9	+ 3.6	+ 0.0	- 0.0	Apr.
+ 3.8	+ 0.2	+ 3.6	- 0.0	- 0.0	+ 3.6	- 1.9	+ 0.0	- 1.9	+ 5.5	+ 0.0	- 0.0	May
- 0.5	- 1.9	+ 1.4	- 9.0	- 0.5	- 6.1	- 3.6	- 1.8	- 1.8	- 2.4	- 0.0	- 0.1	June
+ 6.4	+ 0.6	+ 5.9	- 4.4	- 0.1	+ 3.4	- 0.7	+ 0.0	- 0.7	+ 5.0	- 1.0	- 0.1	July
+ 4.1		+ 3.5	- 0.1	+ 0.0	+ 2.1	+ 0.4	+ 0.3	+ 0.2	+ 1.6	+ 0.0	- 0.0	Aug
- 1.0		- 0.7	- 2.8	- 0.2	+ 0.6	- 2.9	- 0.1	- 2.8	+ 3.5	+ 0.0	- 0.0	Sep.
+ 5.8 + 1.3		+ 4.1 + 4.1	+ 1.9 + 2.3	+ 0.2 - 0.1	- 2.5 + 1.0	- 1.2 - 4.3	+ 0.1 + 0.0	- 1.3 - 4.4	- 1.3 + 5.4	- 0.0 + 0.0		Oct. Nov.

other negotiable money market paper; excluding mobilisation and liquidity paper. — 6 From 1999, breakdown of lending against securities by medium and long-term lending no longer possible. — 7 Up to December 1998, maturity or period of notice of more than one year to less than 4 years; from 1999, more than 1 year up to and including 5 years. — 8 Up to

December 1998, maturity or period of notice of 4 years and more; from 1999, of more than 5 years. — **9** From 1999, no longer included in lending (see also footnote 2). — **10** Excluding debt securities arising from the exchange of equalisation claims, see also footnote 11. — **11** Including debt securities arising from the exchange of equalisation claims.

IV. Banks

 Lending by banks (MFIs) in Germany to domestic enterprises and resident individuals, housing loans, sectors of economic activity *

-	L :	llion
₹	nı	mon

,	€ billion													
	Lending to	domestic e	enterprises a	and resident	individuals	(excluding	holdings of	fnegotiable	e money ma	rket paper	and exclud	ing securitie	es portfolio	;) 1
			Housing lo	ans		Lending to	enterprises	and self-er	mployed pe	rsons				
Period	Total	Mortgage loans, total	Total	Mortgage loans secured by residen- tial real estate	Other housing loans	Total	Housing loans	Manufac- turing	Electricity, gas and water supply, mining 2	Construc- tion	Whole- sale and retail trade ³	Agri- culture, forestry and fishing	Transport, storage and commu- nication	Financing institutions 4 (excluding MFIs) and insurance enterprises
	Lending	, total									-	End of	year or c	uarter *
1999	2,094.2	899.3	991.3	691.5	299.9	1,209.0	332.0	166.2	33.7	67.1	173.0	31.1	47.2	27.5
2000 2001 Sep.	2,187.3 2,219.3	955.2 974.2	1,030.8 1,047.8	737.6 754.0	293.2 293.9	1,267.8 1,284.7	344.1 345.6	174.9 175.9	35.9 34.8	68.2 69.4	173.2 172.3	31.4 31.9	49.1 49.3	34.2 38.2
Dec. 2002 Mar.	2,236.3	981.4 983.7	1,053.9	757.7 759.9	296.2 295.7	1,295.6 1,291.7	346.1	174.3 173.8	36.7 38.1	67.9 68.5	172.9 169.3	31.3 31.6	50.0 51.7	39.0 39.0
June Sep.	2,230.8 2,233.7 2,242.7	994.1	1,055.7 1,060.2 1,064.3	768.0	292.2 293.6	1,287.1 1,286.1	345.8 345.9 344.5	173.6 171.5 168.2	39.4 38.3	68.2	167.0 165.7	32.0 32.5	51.5	36.5
	Short-tern		,			,								.
1999 2000	329.4 348.4	-	17.6 15.9	-	17.6 15.9	276.9 294.6	11.8 10.7	57.3 61.5	4.3 6.2	17.9 17.9	61.4 62.2	4.5 4.2	10.6	8.8 10.5
2001 Sep. Dec.	353.2 355.8	_	15.9 15.9	_	15.9 15.9	300.9 304.1	10.6 10.6	60.9 59.6	4.2 5.5	19.0 17.8	62.4 63.5	4.7 4.1	8.8 9.3	15.2 14.2
2002 Mar. June	348.5 342.6	=	15.1 14.4	_	15.1 14.4	299.5 293.2	10.1 9.4	59.1 58.6	6.6 7.3	18.5 18.4	61.1 60.0	4.3 4.6	10.5	15.7 12.1
Sep.	342.1	-		_	14.1	291.2	9.1	56.6	6.1	17.5	59.3	4.8		
1999	Medium-t 182.5	erm lending I	g 8 42.6		42.6	109.1	13.4	16.7	1.7	l 6.9	l 13.0	3.4	6.3	1 4.0
2000	192.8	=	39.3	-	39.3	120.1	12.8	17.6	1.5	7.0	13.3	3.4	6.9	9.1
2001 Sep. Dec.	190.0 191.1	=	37.9 37.1	=	37.9 37.1	117.9 120.1	12.5 12.0	18.0 18.5	1.7 1.9	6.6 6.5	13.3 13.4	3.2 3.2	7.4 7.2	7.3 7.7
2002 Mar. June	189.4 191.2	-	36.4 35.9	_	36.4 35.9	120.0 120.9	11.9 11.7	18.8 17.8	1.9 2.2	6.4 6.6	13.2 13.2	3.3 3.3	7.7 8.1	6.4 6.5
Sep.	192.1 Long-term	l – n lending 1,		-	35.7	121.0	11.6	18.0	2.4	l 6.6	13.3	3.3	8.1	6.7
1999 2000	1,582.3 1,646.0	899.3 955.2	931.1 975.5	691.5 737.6	239.7 238.0	823.0 853.1	306.8 320.6	92.3 95.9	27.7 28.2	42.2 43.4	98.7 97.7	23.3 23.9	30.3 32.1	14.7 14.6
2001 Sep.	1,676.1	974.2	994.0	754.0	240.0	865.9	322.6	96.9	28.9	43.8	96.6	24.0	33.1	15.8
Dec. 2002 Mar.	1,689.4 1,692.9	981.4 983.7	1,000.9 1,004.1	757.7 759.9	243.2 244.2	871.4 872.3	323.5 323.8	96.2 95.9	29.4 29.5	43.7 43.5	96.1 94.9	24.0 24.1	33.5 33.5	17.1 17.0
June Sep.	1,699.9 1,708.6	994.1 1,000.0	1,009.9 1,014.5	768.0 770.7	241.9 243.8	873.0 873.9	324.8 323.8	95.1 93.6	29.9 29.9	43.2 42.8	93.9 93.0	24.1 24.4	33.8 33.5	17.9 18.4
	Lending	, total										Change	during o	uarter *
2001 4th qtr	+ 16.6	+ 5.8	+ 7.2	+ 4.7	+ 2.5	+ 10.6	+ 0.8	- 1.5	+ 2.0	- 1.4	+ 0.5	- 0.6	+ 0.7	+ 0.6
2002 1st qtr 2nd qtr	- 5.7 - 0.3	+ 1.6 + 3.7	+ 1.3 + 3.8	+ 1.4 + 3.4	- 0.2 + 0.3	- 4.1 - 7.0	- 0.4 - 0.4	- 0.2 - 2.4	+ 1.3 + 1.2	+ 0.5 - 0.5	- 3.7 - 2.7	+ 0.3 + 0.3	- 1.3	+ 0.1
3rd qtr	+ 8.8 Short-tern		1 + 5.7	1 + 3.6	+ 2.1	- 1.2	- 0.6	- 3.4	- 1.1	l – 1.4	l – 1.4	1 + 0.5	- 1.1	1 + 5.6
2001 4th qtr	+ 2.0	•	- 0.2	-	- 0.2	+ 2.6	- 0.1	- 1.2	+ 1.3	- 1.2	+ 0.9	- 0.6	+ 0.5	- 1.0
2002 1st qtr 2nd qtr	- 7.8 - 6.0	-	- 0.8 - 0.7	=	- 0.8 - 0.7 - 0.2	- 5.1 - 6.5 - 2.2	- 0.6 - 0.6 - 0.3	- 0.5 - 0.5 - 2.1	+ 1.1 + 0.7	+ 0.7 - 0.1 - 0.9	- 2.3 - 1.4 - 0.7	+ 0.2 + 0.3	- 0.9	+ 1.4 - 3.5
3rd qtr	- 0.8 Medium-t	l – erm lendino		-	- 0.2	– 2.2	- 0.3	- 2.1	– 1.2	– 0.9	– 0.7	+ 0.2	- 0.8	+ 5.0
2001 4th qtr	+ 1.2	-	- 0.9	-	- 0.9	+ 2.5	- 0.5	+ 0.5	+ 0.2	- 0.1	+ 0.1	- 0.0	- 0.2	+ 0.4
2002 1st qtr 2nd qtr	- 1.5 - 1.3	-	- 0.6 - 0.5	=	- 0.6 - 0.5	+ 0.1 - 1.0	- 0.1 - 0.2	+ 0.3 - 1.1	+ 0.1 + 0.2	- 0.0 + 0.0	- 0.1 - 0.2	+ 0.1 - 0.0	- 0.5	- 1.3 + 0.1
3rd qtr	+ 0.8	l – 1 lending 1,		-	- 0.3	+ 0.1	- 0.1	+ 0.2	+ 0.1	– 0.0	+ 0.1	+ 0.1	+ 0.1	+ 0.2
2001 4th qtr	+ 13.3		_	+ 4.7	+ 3.5	+ 5.5	+ 1.4	- 0.7	+ 0.6	- 0.1	- 0.5	+ 0.0	+ 0.4	+ 1.2
2002 1st qtr 2nd qtr	+ 3.6 + 6.9	+ 1.6 + 3.7	+ 5.0		+ 1.3 + 1.5	+ 0.9 + 0.5	+ 0.3 + 0.4	- 0.0 - 0.8	+ 0.2 + 0.4					- 0.0 + 0.7
3rd qtr	+ 8.7	+ 4.8	+ 6.2	+ 3.6	+ 2.7	+ 0.9		- 1.5	+ 0.0	- 0.4	– 0.8		- 0.4	

^{*} Excluding lending by foreign branches. Up to December 1998, lending by banks (excluding building and loan associations) in Germany; including lending to building and loan associations. From 1999, lending by monetary financial institutions (MFIs) in Germany; breakdown of lending by building and loan associations by areas and sectors estimated. Statistical alterations have been eliminated from the changes. The figures for the latest date are

always to be regarded as provisional; subsequent alterations, which will appear in the following $t\ l\ e$ t, are not specially marked. — 1 Up to December 1998, including loans on a trust basis; from 1999, loans on a trust basis are no longer included in lending. — 2 Including quarrying. — 3 Including the maintenance and repair of motor vehicles and durable consumer goods. — 4 Up to December 1998, excluding credit institutions

												Lending to	omn	loveer a	nd o	ther ind	lividua	le .			ling to	institut	tions	
Services	sect	or (in	cluding	g the i	profess	sions)) 5	e	te	s	\dashv	Lending to	l	ioyees a		er lendi		15		HOH	pront	liistitui	LIOIIS	
											\neg									1				
						Othe real	er	Lend to sel		Lending									Debit balances on wage, salary and					
Total		Hous enter	ing prises	Holdi		estat		empl	oyed	to craft enterpri		Total	Hou	ising ns	Tota	al	Instalr Ioans		pension accounts	Tota	I	Housi loans		Period
End of	_																			_	Lend			
663	3.1		154.1 162.3		42.8		168.3		449.4 459.0	7	3.9 5.0	871.4		655.7		215.7 222.6		105.7 108.6	23.6 24.3		13.7		3.6	1999 2000
712	2.9		168.7		46.8 49.0		183.1 190.3		458.5	7	5.5	905.! 920.	5	683.0 698.6		222.6 222.0 222.4		110.3	24.3 23.9 22.9		14.0 13.9		3.7 3.6	2001 Sep.
723	- 1		169.4 168.9		50.3 49.2		194.3 195.6		458.6 455.5	l	4.7 5.1	926.1 925.4		704.3 706.4		222.4		110.7 109.5	22.9		14.1 13.8		3.5 3.5	Dec. 2002 Mar.
720 721			169.4 171.1		48.8 47.8		197.9 199.8		456.1 453.5	7	4.7 4.0	932.! 942.	5	710.8 716.4		221.7 225.8	1	112.3 114.6	22.7 23.9	1	14.1 14.5		3.5 3.4	June Sep.
																					Short-t			
112			18.6 19.6		17.1 18.1		27.5 30.0		55.9 57.1		5.6 6.2	51.1 52.6		5.7 5.2		45.4 47.4		2.5 2.3	23.6 24.3		1.3 1.2		0.0 0.0	1999 2000
125 130			20.7 21.6		19.7 20.4		32.2 34.1		56.3 56.0		6.8 5.8	51.0 50.3	3	5.3 5.3		45.6 45.0		2.9 2.8	23.9 22.9		1.3 1.4		0.0 0.0	2001 Sep. Dec.
123 122			20.8 20.8		18.2 18.2		33.3 32.5		54.9 54.8		6.5 6.3	47.9 48.2		5.0 4.9		42.9 43.2		2.5 2.5	22.3 22.7		1.1 1.3		0.0 0.0	2002 Mar. June
121			20.9		17.3		33.0		53.8	l 1	6.1	49.2	2	5.0	l	44.2		2.5 2.5	23.9	H	1.7 ım-teri		0.0	Sep.
	7.0		7.1		4.0		12.3		33.3		5.6	72.		29.2	ı	43.5	ı	31.0	-	·	0.7	I	0.1	1999
1	1.4 0.5		6.8 7.0		6.3 5.6		13.6 14.8		33.1 31.7	l	5.5 5.4	72.2 71.6		26.4 25.4		45.8 46.2		33.0 33.9	-		0.6 0.6		0.1	2000 2001 Sep.
61	1.9 2.2		6.7 6.7		6.5 7.2		14.7 14.9		31.2 30.7		5.3 5.1	70.	5	25.0 24.5		45.4 44.4		33.4 32.7	-	1	0.6 0.6		0.1	Dec. 2002 Mar.
63	3.2		6.7 6.6		6.9 6.6		15.4 15.9		31.6 31.3		5.0 4.9	68.9 69.1 70.1	7	24.2 24.1		45.5 46.4		34.1 35.0	-		0.6 0.6		0.1 0.1	June Sep.
			0.0	'	0.01		.5.5	'	55			,						33.0	•	Long	-term l			300.
493 517			128.5 135.9		21.8 22.5		128.5 139.5		360.1 368.7	5 5	2.7 3.2	747.! 780.8	5	620.8 651.4		126.7 129.4		72.2 73.3	-		11.7 12.2		3.5 3.6	1999 2000
526 531			141.0 141.1		23.7 23.4		143.4 145.6		370.4 371.3	5 5	3.3 3.7	798. ⁻ 806.0		667.9 674.0		130.2 132.0		73.5 74.4	-		12.1 12.1		3.5 3.5	2001 Sep. Dec.
533	3.7		141.4		23.8 23.6		147.4 150.0		369.8	5	3.4	808.6	5	676.9		131.7 132.9		74.4 75.7	- -	1	12.1		3.4 3.4	2002 Mar.
535			142.0 143.5		24.0		150.0		369.6 368.3		3.4 3.0	814.1 822.4		681.7 687.3		135.1		77.0	-		12.2 12.2		3.4	June Sep.
Chang	je c	duri	ng qı	uarte	er *																Lend	ing, t	total	
l .	0.1	+	0.8	+	1.7	+	4.0	+	0.3	l	0.9	+ 5.8		6.4		0.5	-	0.1	- 1.0		0.1		0.0	2001 4th qtr
+ 1	4.2 1.0	+	0.5 0.6	_ _	0.8	+	1.1 2.3	_	2.7 0.7	-	0.3	- 1.3 + 6.3	3 +	4.2	+		+	1.0	- 0.5 + 0.4	+	0.2	-	0.0	2002 1st qtr 2nd qtr
+ 1	1.0	+	1.3	l –	0.2	+	2.2	-	2.1	I -	0.7	+ 9.6	5 +	6.4	+	3.3	+	2.11	+ 1.2	+ ا: :	0.4 Short-t		0.0 nding	3rd qtr
1	3.9	+	0.8	+	0.7	+	1.8	-	0.3	l	1.1	- 0.7		0.1	-	0.6	-	0.1	- 1.0		0.1		0.0	2001 4th qtr
- 1	7.0	-	0.7	+	0.1	- -	0.8	- - -	1.1 0.1	-	0.7	- 2.3 + 0.4	1 -		-	2.1 0.4	- +	0.3	- 0.5 + 0.4	+	0.3 0.2	+	0.0	2002 1st qtr 2nd qtr
- 1	1.6	+	0.1	-	1.0	+	0.5	-	0.9	-	0.2	+ 1.	1 +	0.1	+	1.0	+	0.0	+ 1.2		0.4 ım-teri		0.0 ing 8	3rd qtr
1	1.5	-	0.2	+	0.9	+	0.0	-	0.4	l	0.1	- 1.3		0.4		0.8	-	0.6	-	+	0.0	-	0.0	2001 4th qtr
+ (0.5	_	0.1	+	0.9	+	0.2	_	0.5	-	0.1	- 1.6 - 0.3	3 -	0.3	-	1.0 0.0	- +	0.8	-	+	0.0	-	0.0	2002 1st qtr 2nd qtr
- (0.6	-	0.1	l –	0.1	+	0.3	-	0.3	-	0.1	+ 0.8	3 -	0.1	+	0.9	l +	1.0	-	l – Long	0.0 term l		0.0 g 1, 9	3rd qtr
l .	4.7	+	0.2	+	0.1	+	2.2		1.0	l	0.3	+ 7.8	.		+	0.9	+	0.5	-	-	0.0	-	0.0	2001 4th qtr
+ 1	1.6	+	0.4	+	0.5	+	1.7 2.5	- - -	1.1 0.4	-	0.3	+ 2.6	3 +	4.6	++		++	0.1 1.3	-	+ +	0.0	-	0.1	2002 1st qtr 2nd qtr
+ 3	3.2	+	1.2	+	1.0	+	1.4	-	1.0	ı –	0.3	+ 7.8	3 +	6.4	+	1.4	+	1.1	-	+	0.0	I -	0.0	3rd qtr

(other than building and loan associations); from 1999, excluding banks (MFIs) and excluding financial leasing institutions; see also footnote 5. — 5 From 1999, including financial leasing institutions. — 6 From 1999, including sole proprietors; up to December 1998, sole proprietors were assigned to enterprises. — 7 Excluding mortgage loans and housing loans,

even in the form of instalment credit. — **8** Up to December 1998, maturity or period of notice of more than 1 year to less than 4 years; from 1999, more than 1 year up to and including 5 years. — **9** Up to December 1998, maturity or period of notice of 4 years and more; from 1999, of more than 5 years.

IV. Banks

7. Deposits of domestic non-banks (non-MFIs) at banks (MFIs) in Germany *

#	hil	lior
•		1101

			Time deposits 1, 2							Memo item		
	Deposits,	Sight		for up to and including	for more th	for up to and including	for more than	Savings	Bank savings	Loans on a trust	Subordinated liabilities (excluding negotiable debt	Included in time deposits: liabilities arising
Period	Domestic	deposits non-ban	ks, total	1 year	Total	2 years	2 years	deposits 3	bonds 4	basis Er	securities) nd of year o	from repos or month *
1999	1,905.3	420.4	759.6	239.7	519.9	4.5	515.4	614.7	110.7	42.1	25.6	0.4
2000 2001	1,945.8 2,034.0	443.4 526.4	819.9 827.0	274.7 268.7	545.2 558.3	9.0 10.3	536.2 548.0	573.5 574.5	109.0 106.0	42.1 43.3	25.9 26.2	3.1
2001 Dec. 2002 Jan.	2,034.0 2,009.8	526.4 511.5	827.0 819.9	268.7 257.8	558.3 562.1	10.3 10.2	548.0 551.9	574.5 573.4	106.0 105.1	43.3 42.4	26.2 26.1	3.1
Feb. Mar.	2,007.8 2,006.6	511.3 509.2	819.7 821.7	256.3 256.4	563.5 565.3	8.6 8.5	554.8 556.8	572.0 570.8	104.8 104.9	42.2 42.1	26.2 26.3	1.2
Apr.	1,999.3	515.7	816.8	252.5	564.3	8.3	556.0	561.8	104.9	42.0	26.3	1.2
May June	2,009.4 2,021.4	523.8 536.2	820.6 820.6	255.9 256.6	564.7 564.0	8.3 8.4	556.4 555.6	560.1 558.9	105.0 105.7	41.9 41.5	26.3 26.6	2.0 1.4
July Aug.	2,016.2 2,013.9	531.6 527.2	821.1 823.0	256.3 259.4	564.9 563.6	8.5 8.5	556.4 555.2	557.5 557.8	106.0 105.9	41.6 41.6	26.9 27.1	1.5 2.0
Sep.	2,025.0	540.8	820.6	257.8	562.8	8.4	554.3	558.3	105.3	41.6	27.5	6.7
Oct. Nov.	2,037.6 2,062.1	543.1 572.4	829.8 822.6	264.2 254.0	565.6 568.7	8.5 8.7	557.1 560.0	559.7 562.4	105.0 104.7	41.6 41.5	27.7 27.9	7.2 3.0
							_					Changes *
2000 2001	+ 41.3 + 88.5	+ 22.3 + 82.3	+ 61.1 + 8.1	+ 34.8 - 6.0	+ 26.2 + 14.1	+ 4.5 + 1.3	+ 21.8 + 12.8		- 1.7 - 2.9	- 0.0 + 1.0	+ 0.3 + 0.3	- 0.4 + 3.1
2001 Dec.	+ 34.7	+ 15.4	+ 4.5	+ 0.4	+ 4.1	+ 0.0	+ 4.1	+ 16.4	- 1.5	+ 0.8	- 0.1	+ 0.5
2002 Jan. Feb.	- 24.4 - 2.0	- 15.2 - 0.2	- 7.1 - 0.1	- 10.9 - 1.5	+ 3.9 + 1.4	- 0.1 - 1.5	+ 4.0 + 2.9	- 1.4	- 0.9 - 0.3	- 0.9 - 0.2	- 0.1 + 0.1	- 2.0 + 0.2
Mar. Apr.	- 1.2 - 7.3	- 2.0 + 6.5	+ 2.0 - 4.9	+ 0.1 - 3.9	+ 1.8	- 0.2 - 0.2	+ 2.0		+ 0.1 + 0.1	- 0.1 - 0.1	+ 0.1 + 0.0	+ 0.3
May June	+ 11.1 + 11.1	+ 8.2 + 11.9	+ 4.5 - 0.3	+ 3.9 + 0.6	+ 0.6	+ 0.1 + 0.0	+ 0.5	- 1.7	+ 0.1 + 0.7	- 0.1 - 0.3	+ 0.1 + 0.1	+ 0.8 - 0.6
July	- 5.3	- 4.7	+ 0.5	- 0.3	+ 0.9	+ 0.1	+ 0.8	- 1.4	+ 0.3	+ 0.0	+ 0.3	+ 0.1
Aug. Sep.	- 2.3 + 10.9	- 4.4 + 13.5	+ 1.9 - 2.6	+ 3.1 - 1.7	- 1.2 - 0.9	+ 0.0 - 0.1	- 1.2 - 0.8		- 0.1 - 0.5	- 0.0 - 0.0	+ 0.2 + 0.4	+ 0.5 + 4.7
Oct. Nov.	+ 12.8 + 24.5	+ 2.3 + 29.3	+ 9.5 - 7.2	+ 6.4 - 10.3	+ 3.1 + 3.1	+ 0.1 + 0.2	+ 3.0 + 2.9		- 0.3 - 0.3	+ 0.0 - 0.1	+ 0.4 + 0.2	+ 0.5 - 4.3
	Domestic	public a	uthorities							Er	nd of year c	or month *
1999 2000	124.4 149.1	14.7 16.6	104.4 127.7	42.0 62.1	62.4 65.5	0.4	61.9 64.4	3.2 2.7	2.0	35.9 36.0	1.2	ı -l
2001	122.7	16.1	102.3	37.7	64.5	1.2	63.3	2.3	2.1	36.6	1.4	-
2001 Dec. 2002 Jan.	122.7 120.6	16.1 14.1	102.3 102.3	37.7 36.0	64.5 66.4	1.2	63.3 65.2	1	2.1 2.0	36.6 35.9	1.4	_
Feb. Mar.	119.6 117.4	14.5 13.8	101.0 99.5	34.7 34.2	66.2 65.3	1.2 1.2 1.1	65.1 64.2	2.1	2.0 2.0	35.9 35.8 35.6	1.3	-
Apr.	113.7	12.4	97.3	32.9	64.4	0.9	63.5	2.0	2.1	35.5	1.3	-
May June	116.9 118.5	12.7 14.5	100.1 99.9	35.5 35.7	64.6 64.2	1.0 1.0	63.6 63.2		2.1 2.1	35.5 35.2	1.3 1.3	-
July Aug.	116.6 115.4	14.3 13.4	98.2 97.8	34.0 33.5	64.2 64.4	1.0 1.0	63.3 63.4	2.0	2.1 2.1	35.6 35.6	1.3 1.3	
Sep. Oct.	114.3 109.7	13.6 13.8	96.6 91.9	33.7 29.0		0.8		2.0 2.0	2.1 2.0	35.5 35.6	1.3 1.3	_
Nov.	109.5	13.6	92.0	29.0	63.0	0.8	62.1	2.0	2.0	35.6	1.3	
2000	+ 24.8	+ 1.9	+ 23.3	+ 20.1	+ 3.2	+ 0.8	+ 2.4	- 0.5	+ 0.1	+ 0.1	+ 0.3	Changes *
2001	- 26.4	- 0.6	- 25.4	- 24.4	- 1.0	+ 0.0	- 1.1	- 0.5	- 0.0	+ 0.7	- 0.0	-
2001 Dec. 2002 Jan.	- 4.3 - 2.1	+ 0.0	- 4.3 + 0.1	- 4.5 - 1.8	+ 0.2 + 1.9	+ 0.1	+ 0.1 + 1.9	+ 0.0	- 0.0 - 0.1	+ 0.5	+ 0.0	_
Feb. Mar.	- 0.9 - 2.3	+ 0.5 - 0.8	- 1.4 - 1.5	- 1.2 - 0.6	- 0.1 - 0.9	- 0.0 - 0.0	- 0.1 - 0.9	- 0.0 - 0.1	- 0.0 + 0.0	- 0.7 - 0.2 - 0.2	- 0.0 - 0.0	-
Apr.	- 3.6	- 1.4	- 2.2	- 1.3	- 0.9	- 0.2	- 0.7	- 0.0	+ 0.0	- 0.0	- 0.0	-
May June	+ 3.4 + 1.5	+ 0.4 + 1.8	+ 3.1 - 0.2	+ 2.9 + 0.2	+ 0.2 - 0.4	+ 0.0 + 0.0	+ 0.1 - 0.4	+ 0.0 - 0.0	+ 0.0 + 0.0	- 0.1 - 0.3	+ 0.0 - 0.0	-
July Aug.	- 1.9 - 1.2	- 0.2 - 0.9	- 1.7 - 0.3	- 1.7 - 0.5	+ 0.0 + 0.2	- 0.0	+ 0.1 + 0.2	- 0.0 + 0.1	+ 0.0 - 0.0	+ 0.4 - 0.0	+ 0.0 + 0.0	- - -
Sep.	- 1.1	+ 0.2	- 1.2	+ 0.2	- 1.4	- 0.1	- 1.3	- 0.0	+ 0.0	- 0.1	+ 0.0	
Oct. Nov.	- 4.6 - 0.1	+ 0.2 - 0.2	- 4.7 + 0.1	- 4.7 + 0.1	- 0.0 + 0.0	- 0.0 + 0.0	- 0.0 + 0.0		- 0.1 - 0.0	+ 0.1 - 0.0	- 0.0 + 0.0	-

^{*} See table IV.2, footnote *; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent alterations, which will appear in the following

Monthly Report, are not specially marked. — 1 Including subordinated liabilities and liabilities arising from registered debt securities. —

7. Deposits of domestic non-banks (non-MFIs) at banks (MFIs) in Germany * (cont'd)

	€ billion											
			Time deposi	ts 1, 2						Memo item		
				for up	for more th	an 1 year 2 for up to and	for more		Bank	Loans on	Subordinated liabilities (excluding negotiable	Included in time deposits: liabilities
Period	Deposits, total	Sight deposits	Total	including 1 year	Total	including 2 years	than 2 years	Savings deposits 3	savings bonds 4	a trust basis	debt securities)	arising from repos
	Domesti	c enterpri	ses and i	_	s	,	,			En	d of year o	
1999	1,781.0	405.7	655.2	197.6	- 457.6	4.1		611.4	108.7	6.2	24.5 24.5	0.4
2000 2001	1,796.7 1,911.3	426.8 510.4	692.2 724.7	212.6 231.0	479.6 493.7	7.8 9.1	471.8 484.6	570.8 572.3	106.9 103.9	6.1 6.6	24.8	3.1
2001 Dec. 2002 Jan.	1,911.3 1,889.3	510.4 497.4	724.7 717.5	231.0 221.8	493.7 495.7	9.1 9.0	484.6 486.7	572.3 571.2	103.9 103.1	6.6 6.4	24.8 24.8	3.1
Feb. Mar.	1,888.2 1,889.2	496.7 495.4	718.8 722.2	221.6 222.2	497.2 500.0	7.5 7.3	489.7 492.6	569.8 568.7	102.8 102.8	6.4 6.5	24.9 25.0	1.2 1.5
Apr.	1,885.5 1,892.5	503.3 511.1	719.5 720.5	219.6 220.4	499.9 500.1	7.4 7.4	492.5 492.8	559.8	102.9 102.9	6.4	25.0 25.0	1.2 2.0
May June	1,903.0	521.8	720.8	220.9	499.8	7.4	492.4	558.0 556.9	103.6	6.4 6.3	25.3	1.4
July Aug. Sep.	1,899.6 1,898.5 1,910.7	517.3 513.8 527.3	722.9 725.2 724.0	222.3 225.9 224.1	500.6 499.3 499.8	7.5 7.5 7.6	493.1 491.7 492.2	555.5 555.8 556.3	103.8 103.8 103.2	6.0 6.0 6.1	25.6 25.8 26.2	1.5 2.0 6.7
Oct. Nov.	1,927.9 1,952.5	529.3 558.8	737.9 730.6	235.2 224.9	502.7 505.7	7.7 7.8	495.0 497.9	557.7 560.5	103.0 102.7	5.9 5.9	26.3 26.5	7.2 3.0
											(Changes *
2000 2001	+ 16.5 + 115.0	+ 20.4 + 82.9	+ 37.8 + 33.5	+ 14.8 + 18.4	+ 23.1 + 15.1	+ 3.7 + 1.3	+ 19.3 + 13.8	- 40.0 + 1.5	- 1.8 - 2.9	- 0.1 + 0.3	+ 0.0 + 0.3	- 0.4 + 3.1
2001 Dec.	+ 39.0	+ 15.4	+ 8.8	+ 4.9	+ 3.9	- 0.1	+ 4.0	+ 16.4	- 1.5	+ 0.3	- 0.1	+ 0.5
2002 Jan. Feb. Mar.	- 22.2 - 1.1 + 1.1	- 13.2 - 0.6 - 1.3	- 7.2 + 1.2 + 3.4	- 9.1 - 0.3 + 0.7	+ 2.0 + 1.5 + 2.7	- 0.1 - 1.5 - 0.1	+ 2.1 + 3.0 + 2.9	- 1.1 - 1.4 - 1.1	- 0.8 - 0.3 + 0.0	- 0.2 + 0.0 + 0.1	+ 0.0 + 0.1 + 0.1	- 2.0 + 0.2 + 0.3
Apr.	- 3.7	+ 7.9	- 2.7	- 2.6	- 0.1	+ 0.0	- 0.1	- 8.9	+ 0.0	- 0.1	+ 0.0	- 0.4
May June	+ 7.6 + 9.5	+ 7.9 + 10.1	+ 1.4 - 0.1	+ 1.0 + 0.4	+ 0.5 - 0.5	+ 0.1 + 0.0	+ 0.4 - 0.5	- 1.7 - 1.2	+ 0.0 + 0.7	- 0.0 - 0.1	+ 0.1 + 0.1	+ 0.8 - 0.6
July Aug. Sep.	- 3.4 - 1.1 + 12.0	- 4.5 - 3.5 + 13.3	+ 2.2 + 2.3 - 1.4	+ 1.4 + 3.6 - 1.9	+ 0.8 - 1.4 + 0.5	+ 0.1 + 0.0 + 0.0	+ 0.7 - 1.4 + 0.5	- 1.3 + 0.2 + 0.5	+ 0.3 - 0.1 - 0.5	- 0.3 - 0.0 + 0.1	+ 0.3 + 0.2 + 0.4	+ 0.1 + 0.5 + 4.7
Oct. Nov.	+ 17.4 + 24.6	+ 2.0 + 29.5	+ 14.2 - 7.3	+ 11.1 - 10.3	+ 3.1 + 3.1	+ 0.1 + 0.2	+ 3.0 + 2.9	+ 1.4 + 2.7	- 0.2 - 0.3	- 0.1 - 0.0	+ 0.4 + 0.2	+ 0.5 - 4.3
	of which	: Domest	ic enterpi	rises						En	d of year o	r month *
1999 2000	593.2 635.1	142.1 158.1	421.8 447.6	82.3 89.0	339.5 358.5	1.5 2.7	338.0 355.8	5.5 5.2	23.7 24.2	6.1 5.9	13.7 14.1	0.4
2001	668.4	180.0	461.3	91.7	369.6	2.9	366.8	4.3	22.8	6.4	14.3	3.1
2001 Dec. 2002 Jan.	668.4 654.1	180.0 171.4	461.3 455.7	91.7 84.1	369.6 371.7	2.9 2.9	366.8 368.8	4.3	22.8 22.7	6.4 6.2	14.3 14.3	3.1
Feb. Mar.	649.7 650.0	164.4 160.1	458.4 462.9	85.1 87.3	373.3 375.6	1.4 1.4	371.9 374.3	4.3 4.3	22.6 22.6	6.2 6.3	14.4 14.4	1.2
Apr.	651.9	162.1	463.1 464.5	87.6	375.5 375.6	1.4	374.0 374.2	4.3	22.5 22.5	6.2 6.2	14.4	1.2 2.0
May June	659.0 665.5	167.8 172.7	466.1	88.9 90.8	375.2	1.4 1.4	373.8	4.2 4.3	22.6	6.1	14.4 14.7	1.4
July Aug.	666.4 663.0	171.3 166.4	468.4 469.8	92.6 95.6	375.8 374.2	1.4 1.4	374.4 372.8	4.4 4.4	22.4 22.4	5.8 5.8	15.0 15.1	1.5 2.0
Sep. Oct.	676.4 690.0	180.1 180.7	469.7 482.7	95.3 105.6	374.4 377.1	1.4 1.5	373.0 375.7	4.4	22.2 22.2	5.8 5.7	15.5 15.5 15.7	6.7 7.2
Nov.	692.6	189.0	476.9	97.4	379.5	1.6	378.0	4.3	22.3	5.7		Changes *
2000	+ 42.8	+ 15.3	+ 27.3	+ 6.7	+ 20.5	+ 1.2	+ 19.3	- 0.3 - 0.9	+ 0.5	- 0.1	+ 0.4	- 0.4
2001 2001 Dec.	+ 33.6 + 14.8	+ 21.2 + 10.8	+ 14.7 + 4.7	+ 2.6 + 4.2	+ 12.1 + 0.5	+ 0.1 - 0.1	+ 11.9 + 0.5	- 0.9 - 0.0	- 1.3 - 0.6	+ 0.3 + 0.3	+ 0.2 - 0.0	+ 3.1 + 0.5
2002 Jan. Feb.	- 14.5 - 4.5	- 8.9 - 6.9	- 5.5	- 7.6 + 1.0	+ 2.1	+ 0.0 - 1.5	+ 2.0 + 2.9	- 0.0 + 0.0	- 0.1 - 0.2	- 0.2 + 0.0	+ 0.0 + 0.1	- 2.0
Mar.	+ 0.4	- 4.2	+ 4.6	+ 2.2	+ 2.4	- 0.0	+ 2.4	+ 0.0	+ 0.0	+ 0.1	+ 0.1	+ 0.3
Apr. May	+ 1.9 + 7.4	+ 1.9 + 5.7	+ 0.1 + 1.7	+ 0.3 + 1.5	- 0.2 + 0.2	+ 0.0 + 0.0	- 0.2 + 0.2	- 0.1 - 0.0	- 0.1 + 0.0	- 0.1 - 0.0	- 0.0 + 0.0	- 0.4 + 0.8
June July	+ 5.7 + 1.2	+ 4.4 - 1.4	+ 1.2 + 2.7	+ 1.7 + 1.7	- 0.5 + 0.9	+ 0.0 + 0.0	- 0.5 + 0.9	+ 0.0 + 0.1	+ 0.1	- 0.1 - 0.3	+ 0.1 + 0.2	- 0.6 + 0.1
Aug. Sep.	- 3.5 + 12.8	- 4.9 + 13.2	+ 1.4	+ 3.0	- 1.5 + 0.2	+ 0.0 + 0.0	- 1.5 + 0.2	+ 0.0	- 0.0 - 0.2	- 0.0 + 0.1	+ 0.1 + 0.4	+ 0.5 + 4.7
Oct. Nov.	+ 13.8 + 2.6	+ 0.6 + 8.3	+ 13.2 - 5.8	+ 10.3 - 8.2	+ 2.9 + 2.4	+ 0.1 + 0.1	+ 2.9 + 2.3	- 0.0 - 0.0	+ 0.0 + 0.1	- 0.1 - 0.0	+ 0.3 + 0.2	+ 0.5 - 4.3

² Including deposits under savings and loan contracts (see table IV. 12). — 3 Excluding deposits under savings and loan contracts (see also foot-

note 2). — 4 Including liabilities arising from non-negotiable bearer debt securities.

IV. Banks

8. Deposits of domestic individuals and non-commercial organisations at banks (MFIs) in Germany *

	€ billion											
		Sight deposi	ts					Time deposit	ːs 1, 2			
			by creditor g	roup					by creditor g	ıroup		
	Deposits		Domestic inc	lividuals					Domestic inc	dividuals		
Period	of domestic individuals and non- commercial organisa- tions, total	Total	Total	Self- employed	Employees	Other individuals	Domestic non-com- mercial organisa- tions	Total	Total	Self- employed		Other individuals
										End o	of year or	month *
1999 2000 2001	1,187.8 1,161.5 1,242.9	263.5 268.7 330.4	254.6 259.3 320.1	50.2 47.7 55.8	170.3 176.0 220.9	34.1 35.6 43.4	9.0 9.4 10.2		216.6 225.5 242.9	35.2 34.9 36.3	161.6 168.9 182.4	19.9 21.7 24.2
2002 June	1,237.4	349.1	338.0	57.0	234.3	46.7	11.1	254.7	234.9	34.7	178.0	22.2
July Aug. Sep.	1,233.2 1,235.5 1,234.3	346.0 347.4 347.1	335.2 336.4 335.6	58.8 59.8 58.7	230.3 230.6 229.3	46.1 46.0 47.6	10.9 11.0 11.5		235.2 235.5 235.2	35.1 35.3 35.0	177.8 177.9 177.5	22.2 22.3 22.8
Oct. Nov.	1,237.9 1,260.0	348.6 369.7	337.4 358.6	60.5 63.6	229.1 244.5	47.7 50.4	11.2 11.1		235.9 235.1	35.3 34.9	177.8 177.2	22.9 23.0
											Cl	hanges *
2000 2001	- 26.3 + 81.3	+ 5.2 + 61.7	+ 4.7 + 60.8	- 2.5 + 8.1	+ 5.7 + 45.0	+ 1.5 + 7.8	+ 0.4 + 0.8	+ 10.6 + 18.8	+ 8.2 + 17.4	- 0.2 + 1.4	+ 6.8 + 13.5	
2002 June	+ 3.8	+ 5.7	+ 5.6	- 0.9	+ 5.7	+ 0.8	+ 0.1	- 1.3	- 1.1	- 0.4	- 0.6	- 0.1
July Aug. Sep.	- 4.6 + 2.4 - 0.8	- 3.1 + 1.4 + 0.2	- 2.9 + 1.3 - 0.4	+ 1.7 + 1.1 - 1.1	- 4.1 + 0.4 + 0.6	- 0.6 - 0.1 + 0.1	- 0.2 + 0.1 + 0.5	+ 0.8	+ 0.3 + 0.3 - 0.3	+ 0.4 + 0.2 - 0.3	- 0.2 + 0.1 + 0.1	+ 0.0 + 0.1 - 0.1
Oct. Nov.	+ 3.6 + 22.1	+ 1.5 + 21.1	+ 1.7 + 21.2	+ 1.8 + 3.1	- 0.2 + 15.5	+ 0.1 + 2.7	- 0.3 - 0.1		+ 0.7 - 0.8	+ 0.3 - 0.4	+ 0.3 - 0.6	+ 0.1 + 0.2

^{*} See table IV.2, footnote*; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent alterations, which will appear in the following

Monthly Report, are not specially marked. — 1 Including subordinated liabilities and liabilities arising from registered debt securities. — 2 Including

9. Deposits of domestic public authorities at banks (MFIs) in Germany, by creditor group *

	€ billion												
	Deposits												
		Federal Gov	vernment an	d its special	funds 1			Länder Gov	ernments				
				Time depos	its					Time depos	its	L .	
Period	Domestic public authorities, total	Total	Sight deposits		for more than 1 year	deposits and bank savings	Memo item Loans on a trust basis	Total	Sight deposits	for up to and including 1 year	for more than 1 year	Savings deposits and bank savings bonds 2	Memo item Loans on a trust basis
											End o	f year or	month *
1999 2000 2001	124.4 149.1 122.7	45.9 67.6 46.9	1.0 2.1 1.6	4.6 22.6 2.7	40.3 42.8 42.7	0.0 0.0 0.0	12.7 12.5 13.2	21.0 20.3 19.2	2.8 3.1 2.7	4.2 2.1 1.8	14.0 15.0 14.6	0.1 0.1 0.1	23.1 23.3 23.2
2002 June	118.5	45.9	0.8	2.6	42.5	0.0	12.3	21.0	2.8	3.4	14.7	0.1	22.7
July Aug. Sep.	116.6 115.4 114.3	45.8 45.8 46.7	0.5 0.6 0.6	2.6 2.4 4.2	42.7 42.8 41.9	0.0 0.0 0.0	12.6 12.6 12.6	21.4 19.9 21.3	3.2 1.8 2.8	3.4 3.2 3.7	14.7 14.7 14.7	0.1 0.1 0.1	22.7 22.8 22.7
Oct. Nov.	109.7 109.5	46.8 46.3	1.1 0.6	3.7 3.6	41.9 42.0	0.1 0.1	12.7 12.7	19.6 18.1	2.5 2.0	2.3 1.3	14.7 14.8	0.1 0.1	22.7 22.7
												C	hanges *
2000 2001	+ 24.8 - 26.4	+ 21.6 - 20.4	+ 1.2 - 0.4	+ 18.0 - 19.9	+ 2.5 - 0.1	- 0.0 - 0.0	- 0.2 + 0.5	+ 0.5 - 1.2	+ 0.3 - 0.6	- 0.9 - 0.2	+ 1.1 - 0.4	+ 0.0 + 0.0	+ 0.2 + 0.1
2002 June	+ 1.5	+ 0.3	+ 0.4	+ 0.2	- 0.3	+ 0.0	- 0.2	+ 2.4	+ 1.3	+ 1.2	- 0.1	+ 0.0	- 0.1
July Aug. Sep.	- 1.9 - 1.2 - 1.1	- 0.1 + 0.0 + 0.8	- 0.3 + 0.1 + 0.1	+ 0.0 - 0.2 + 1.8	+ 0.2 + 0.1 - 1.0	+ 0.0 - + 0.0	+ 0.3 - 0.0 + 0.0	+ 0.3 - 1.5 + 1.4	+ 0.4 - 1.4 + 1.0	+ 0.0 - 0.2 + 0.5	- 0.0 + 0.1 - 0.0	- 0.0 - 0.0 + 0.0	+ 0.0 + 0.0 - 0.1
Oct. Nov.	- 4.6 - 0.1	+ 0.1 - 0.5	+ 0.5 - 0.5	- 0.5 - 0.1	+ 0.0 + 0.1	+ 0.1	+ 0.1 - 0.0	- 1.6 - 1.5	- 0.3 - 0.5	- 1.3 - 1.1	- 0.0 + 0.1	- 0.0 + 0.0	+ 0.0 - 0.0

^{*} See table IV.2, footnote *; excluding deposits of the Treuhand agency and its successor organisations and of the Federal Railways, east German Railways and Federal Post Office, and, from 1995, of Deutsche Bahn AG, Deutsche Post AG and Deutsche Telekom AG, and of publicly-owned

enterprises, which are included in "Enterprises". Statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent alterations, which will appear in the

					Savings dep	osits 3			Memo item			
	by maturity											
		more than 1	year 2									
Domestic			of which				Domestic			Subordinated liabilities	Included in time	
non-com- mercial organisa- tions	up to and including 1 year	Total	up to and including 2 year	more than 2 years	Total	Domestic individuals	non-com- mercial organisa- tions	Bank savings bonds 4	Loans on a trust basis	(excluding negotiable debt securities) 5	deposits: liabilities arising from repos	Period
	ear or mo		2 year	2 years	Total	maividuals	tions	Bollus -	Dusis	securities, -	поштероз	renou
16.8 19.2 20.6	123.6	121.1	2.5 5.1 6.2	115.5 116.0 117.9	605.9 565.5 568.0	595.5 555.8 558.6	10.4 9.7 9.4	85.0 82.7 81.1	0.2 0.2 0.2	10.8 10.4 10.5		1999 2000 2001
19.8	130.1	124.6	6.0	118.6	552.6	543.5	9.1	81.0	0.2	10.6	_	2002 June
19.4 19.9 19.0	130.3		6.1 6.2 6.2	118.8 118.9 119.2	551.2 551.4 551.9	542.1 542.3 542.9	9.1 9.1 9.1	81.4 81.4 81.0	0.2 0.2 0.2	10.7 10.7 10.7	- - -	July Aug. Sep.
19.3 18.6			6.2 6.3	119.3 119.9	553.4 556.1	544.4 547.3	9.0 8.8	80.8 80.4	0.2 0.2	10.8 10.8	_	Oct. Nov.
Changes	; *)											
+ 2.4 + 1.4	+ 8.0 + 15.8		+ 2.5 + 1.1	+ 0.0 + 1.9	- 39.7 + 2.5	- 39.0 + 2.8	- 0.7 - 0.3	- 2.3 - 1.6	+ 0.0 + 0.0	- 0.4 + 0.0	± 0.0	2000 2001
- 0.2	- 1.3	+ 0.1	+ 0.0	+ 0.0	- 1.2	- 1.1	- 0.0	+ 0.6	- 0.0	- 0.0	-	2002 June
- 0.8 + 0.5 - 0.9	+ 0.6	- 0.1 + 0.2 + 0.3	+ 0.1 + 0.0 + 0.0	- 0.2 + 0.2 + 0.3	- 1.5 + 0.2 + 0.5	- 1.5 + 0.2 + 0.6	+ 0.0 + 0.0 - 0.0	+ 0.4 - 0.0 - 0.4	+ 0.0 + 0.0 + 0.0	+ 0.1 + 0.0 + 0.0	- - -	July Aug. Sep.
+ 0.3 - 0.7		+ 0.1 + 0.7	+ 0.0 + 0.1	+ 0.1 + 0.6	+ 1.5 + 2.8	+ 1.5 + 3.0	- 0.0 - 0.2	- 0.2 - 0.3	- 0.0 + 0.0	+ 0.1 + 0.0	_	Oct. Nov.

deposits under savings and loan contracts (see table IV. 12). — 3 Excluding deposits under savings and loan contracts (see also footnote 2). — 5 Including liabilities arising from non-negotiable bearer debt securities. — 5 Included in time deposits.

Local author	rities and loc nunicipal spe	al authority a	associations associations)			Social securi	ty funds					
		Time deposi	ts 3					Time deposi	ts			
Total	Sight deposits	for up to and including 1 year	for more than 1 year	Savings deposits and bank savings bonds 2, 4	Memo item Loans on a trust basis	Total	Sight deposits	for up to and including 1 year	for more than 1 year	Savings deposits and bank savings bonds 2	Memo item Loans on a trust basis	Period
End of ye	ear or mo	nth *										
28.5 30.2 27.8	8.9	14.4 15.7 13.8	2.2 2.0 1.8	3.7 3.6 3.1	0.1 0.1 0.2	28.9 31.1 28.7	2.8 2.5 2.7	18.9 21.7 19.5	5.8 5.7 5.4	1.4 1.2 1.1	0.1 0.1 0.1	1999 2000 2001
25.6	8.2	12.5	1.9	3.0	0.2	25.9	2.7	17.2	5.0	1.0	0.1	2002 June
25.0 26.9 25.2		12.0 13.4 12.4	1.9 1.9 1.9	2.9 3.0 2.9	0.2 0.2 0.2	24.3 22.7 21.1	2.5 2.4 2.2	16.0 14.4 13.4	4.9 4.9 4.5	1.0 1.0 1.0	0.1 0.1 0.1	July Aug. Sep.
24.3 25.2		11.5 11.9	1.9 1.9	2.9 2.9	0.2 0.2	18.9 19.9	2.2 2.5	11.4 12.3	4.5 4.3	0.9 0.9	0.1 0.1	Oct. Nov.
Changes	*											
+ 1.7 - 2.4	+ 0.8 + 0.2	+ 1.3 - 2.0	- 0.2 - 0.2	- 0.2 - 0.4	+ 0.0 + 0.0	+ 1.0 - 2.4	- 0.3 + 0.2	+ 1.7 - 2.3	- 0.1 - 0.3	- 0.2 - 0.0		2000 2001
- 1.0	- 0.5	- 0.6	+ 0.1	- 0.0	- 0.0	- 0.1	+ 0.6	- 0.7	- 0.1	- 0.0	- 0.0	2002 June
- 0.5 + 1.9 - 1.7	- 0.0 + 0.5 - 0.7	- 0.5 + 1.4 - 1.0	+ 0.0 - 0.0 - 0.0	- 0.0 + 0.0 - 0.0	+ 0.0 + 0.0 + 0.0	- 1.6 - 1.6 - 1.6	- 0.2 - 0.1 - 0.2	- 1.2 - 1.5 - 1.0	- 0.1 + 0.0 - 0.4	- 0.0 + 0.0 - 0.0	- 0.0	July Aug. Sep.
- 0.9 + 0.9	+ 0.0 + 0.6	- 0.9 + 0.3	- 0.0 - 0.0	- 0.0 - 0.0	+ 0.0	- 2.2 + 1.0	+ 0.0 + 0.3		- 0.0 - 0.2	- 0.2 - 0.0	_	Oct. Nov.

following Monthly Report, are not specially marked. — 1 Federal Railways Fund, Indemnification Fund, Redemption Fund for Inherited Liabilities, ERP Special Fund, "German Unity" Fund, Equalisation of Burdens Fund. —

² Including liabilities arising from non-negotiable bearer debt securities. — 3 Including deposits under savings and loan contracts. — 4 Excluding deposits under savings and loan contracts (see also footnote 3).

IV. Banks

10. Savings deposits and bank savings bonds of banks (MFIs) in Germany sold to non-banks (non-MFIs) *

€ billion

Period

1999 2000 2001 2002 July Aug. Sep. Oct. Nov.

2000 2001 2002 July Aug. Sep. Oct. Nov.

Savings depo	osits 1								Bank saving	ıs bonds, 3 s	old to	
	of residents					of non-res	dents			domestic no	on-banks	
		at three mo notice	nths'	at over thre notice	e months'			Memo item			of which	
Total	Total	Total	of which Special savings facilities 2	Total	of which Special savings facilities 2	Total	of which At three months' notice	Interest credited on savings deposits	non-banks, total	Total	With maturities of more than 2 years	foreign non-banks
End of ye	ar or mon	ith *										
626.6 585.2 586.5	573.5	504.4 450.5 461.9	338.8 309.0 327.2	110.2 123.0 112.7	88.3 104.4 97.2	11.9 11.7 12.0	9.1 8.3 8.8	20.0 19.3 19.9	116.4 115.9 112.8	110.7 109.0 106.0	101.8 94.4 87.2	6.8
568.3 568.6 569.1		453.6 453.8 454.7	326.5 327.5 328.4	103.9 104.0 103.6	90.4 90.3 90.0	10.8 10.8 10.8	7.9 7.9 7.8	0.5 0.4 0.5	113.0 112.9 112.3	106.0 105.9 105.3	87.6 87.6 87.2	7.0
570.4 573.1		456.9 460.2	331.1 334.4	102.8 102.2	89.1 88.5	10.7 10.7	7.8 7.9	0.5 0.5	111.9 111.7	105.0 104.7	86.9 86.7	
Changes	*											
- 40.7 + 1.3	- 40.5 + 1.1	- 53.6 + 11.4	- 31.1 + 15.5	+ 13.1 - 10.4	+ 15.8 - 7.2	- 0.2 + 0.3	- 0.8 + 0.5	:	- 0.5 - 2.9	- 1.7 - 2.9	- 7.4 - 7.1	+ 1.1
- 1.5 + 0.3 + 0.5	- 1.4 + 0.3 + 0.5	- 1.5 + 0.1 + 1.0	- 0.0 + 1.0 + 0.9	+ 0.1 + 0.2 - 0.5	- 0.0 - 0.1 - 0.3	- 0.1 - 0.0 - 0.0	- 0.1 - 0.0 - 0.0		+ 0.4 - 0.1 - 0.6	+ 0.3 - 0.1 - 0.5	+ 0.2 + 0.0 - 0.4	- 0.0
+ 1.4 + 2.7	+ 1.4 + 2.7	+ 2.2 + 3.3	+ 2.6 + 3.4	- 0.8 - 0.6	- 0.9 - 0.6	- 0.0 - 0.0	+ 0.0 + 0.0	:	- 0.4 - 0.2	- 0.3 - 0.3	- 0.3 - 0.2	

^{*} See table IV.2, footnote*; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent alterations, which will appear in the following Monthly Report, are not specially marked. — 1 Excluding deposits under

savings and loan contracts, which are classified as time deposits. — 2 Savings deposits bearing interest at a rate which exceeds the minimum or basic rate of interest. — 3 Including liabilities arising from non-negotiable bearer debt securities.

11. Debt securities and money market paper outstanding of banks (MFIs) in Germany *

€ billion

	£ billion													
	Negotiable	bearer deb	t securities a	and money	market pap	er				iable beare market pa		rities		
		of which								of which				
						with matu	rities of			with matu	rities of		Subordina	:ea
Period	Total 1	Floating- rate notes 2	Zero- coupon bonds 2, 3	Foreign currency bonds 4, 5	Certifi- cates of deposit	including		than	Total		more than 1 year including 2 years		debt	non- negotiable debt securities
							-							
1999 2000 2001	1,310.3 1,412.5 1,472.3		14.7 22.1 16.3	98.7 128.2 144.1	13.1 19.7 17.6	73.6 87.9 46.5	47.0 62.7 124.9	1,189.8 1,261.9 1,300.9	2.6 2.7 5.8	0.5 0.4 3.7	0.8 1.0 1.0	1.3 1.3 1.2	32.7 38.3 43.3	
2002 July Aug. Sep.	1,466.2 1,483.1 1,486.9	332.0 345.9 346.5	14.9 16.9 19.3	152.1 156.4 160.1	27.0 27.9 31.8	56.5 59.0 62.3	120.0 119.0 118.9	1,289.7 1,305.2 1,305.6	10.0 9.3 9.4	7.9 7.2 7.3	0.9 0.8 0.8	1.3 1.3 1.3	44.6 44.6 44.0	2.4 2.4 2.4
Oct. Nov.	1,482.3 1,491.4		18.0 18.2	164.9 166.4	32.6 34.3	65.2 71.5	115.8 118.1	1,301.2 1,301.8	9.3 10.0	7.1 7.9	0.8 0.7	1.4 1.4	43.4 43.2	
	Changes	*												
2000 2001	+ 102.0 + 56.2	+ 65.5 + 33.3	+ 7.0 - 5.5	+ 26.6 + 15.9	+ 6.4 - 2.1	+ 14.1 - 41.4	+ 15.8 + 61.7	+ 72.1 + 35.9	+ 0.2 + 3.2	+ 0.0 + 3.4	+ 0.2 - 0.1	+ 0.0 - 0.1	+ 5.6 + 5.0	
2002 July Aug. Sep.	+ 3.6 - 0.8 + 3.8	+ 3.6 + 4.9 + 0.6	+ 0.4 + 0.9 - 0.8	+ 10.2 + 1.3 + 3.7	+ 3.2 + 0.1 + 4.0	+ 5.2 + 1.7 + 3.4	+ 0.7 - 1.0 - 0.0	- 2.2 - 1.5 + 0.5	- 0.0 + 0.0 + 0.1	- 0.1 + 0.1 + 0.1	- 0.0 - 0.0 - 0.0	+ 0.1 + 0.0 - 0.0	+ 0.5 - 1.0 - 0.6	+ 0.0 - - 0.0
Oct. Nov.	- 4.6 + 9.1	- 4.8 - 0.5	- 1.3 + 0.1	+ 4.9 + 1.4	+ 0.8 + 1.7	+ 2.9 + 6.3	- 3.1 + 2.3	- 4.4 + 0.5	- 0.1 + 0.7	- 0.1 + 0.8	- 0.0 - 0.0	+ 0.1 - 0.0	- 0.5 - 0.3	- 0.0 + 0.0

^{*} See table IV.2, footnote*; statistical breaks have been eliminated from the changes. The figures for the latest date are always to be regarded as provisional. Subsequent alterations, which will appear in the following Monthly Report, are not specially marked. — 1 Decreases in June 2002 caused by transition to net recording of outstanding debt securities (ie less own debt securities). The statistical break has been eliminated from the

changes. — 2 Including debt securities denominated in foreign currencies. — 3 Issue value when floated. — 4 Including floating-rate notes and zero-coupon bonds denominated in foreign currencies. — 5 Bonds denominated in non-euro-area currencies. — 6 Non-negotiable bearer debt securities are classified among bank savings bonds; see also table IV. 10, footnote 3.

12. Building and loan associations (MFIs) in Germany * Interim statements

	lion

			Lending t	o banks (N	ЛFIs)	Lending t	o non-bar	ıks (non-N	1Fls)	Deposits (MFIs) 5	of banks	Deposits banks (no				
						Building l	oans		Secur- ities (in-	(111113)		During (inc				Memo item:
			Bal- ances			Loans			cluding	Deposits		Deposits		Bearer debt	Capital	New con-
	Num-		and		DI-	under			bills	under		under	C:b-4	secur-	(includ-	tracts
	ber of	Balance	loans (except		Bank debt	savings and loan		Other		savings and loan	Sight			ities out-	ing pub- lished	into in
End of year or month	associ- ations		building loans) 1	Building loans 2	secur- ities 3	con- tracts	bridging loans	building loans	discount paper) 4		and time deposits		deposits 6	stand- ing	reserves) 7	year or month 8
	All b	uilding	and lo	oan ass	ociatio	ns										
2001	29	158.4	23.8	0.2	11.8	— 42.7	54.3	7.2	9.7	0.5	29.3	96.6	3.1	6.9	7.5	75.7
2002 Sep.	28	160.7	24.4	0.2	11.6	41.5	57.1	7.7	9.7	0.4	29.0	97.4	3.3	7.4	7.1	6.3
Oct.	28	160.5	24.0	0.2	11.5	41.4	57.4	7.7	9.8	0.4	28.9	97.3	3.4	7.2	7.1	6.7
Nov.	28				11.6		57.8	7.7	9.9	0.4	29.1	97.7	3.4	7.2	7.1	7.1
	Priva	te build	ding ar	id Ioan	associ	ations										
2002 Sep.	17			0.1	6.3			7.1	7.1		21.0	66.2	3.2			
Oct. Nov.	17 17	115.2 115.8	19.1 19.6	0.1 0.1	6.3 6.3	26.8 26.6	40.8 41.1	7.1 7.1	7.2 7.2	0.2	20.8 21.0	66.2 66.4	3.2 3.3	7.2 7.2	4.6 4.6	4.3 4.5
			ing and							. 0.2			, 5.5			
2002 Sep.	11		4.7	0.1	5.3			0.6	2.5	0.1	8.1	31.1		-	2.5	2.2
Oct. Nov.	11 11	45.3 45.5	4.8 4.9	0.1 0.1	5.2 5.2	14.6 14.5	16.6 16.7	0.6 0.6	2.6 2.7	0.1	8.1 8.1	31.2 31.3	0.1 0.1	_	2.5 2.5	2.4

Trends in building and loan association business

€ billion

	0 0															
		in deposits	s	Capital pi	romised	Capital pa	id out					Outpayr		Interest a		
	under sav loan cont						Allocatio	ns				commite outstand end of p	ding at	repayme received building	on	
			Repay- ments				Deposits savings a loan cont	nd	Loans un savings a loan cont	nd	Newly	end or p	Jeriou	building	loans to	
Period	accounts under savings	credited on deposits under	of deposits under cancelled savings and loan con- tracts		of which: Net alloca- tions 11	Total	Total	of which: Applied to settle- ment of interim and bridging loans	Total		granted interim and bridging loans and other building loans	Total	of which: Under alloc- ated con- tracts	Total	of which: Repay- ments during guarter	Memo item: Housing bonuses received
. 6.1.64			and loa				Total	104.15	, o tu	1.04.13	1.00.1.5	- Total	i acc	- Total	quarter	
2001	22.0	2.7	4.5	46.5	32.7	44.2	19.7	4.3	10.7	3.4	13.8	10.4	7.7	14.7	11.8	0.5
2002 Sep.	1.8	0.0	0.3	3.2	2.1	3.2	1.3	0.3	0.7	0.2	1.2	10.6	7.8	1.2	2.6	0.0
Oct.	1.8	0.0	0.4	3.9	2.6	3.7	1.5	0.4	0.9	0.3	1.3					0.0
Nov.	1.9	0.0	0.4	3.4	2.1	3.0	1.2	0.3	0.6	0.2	1.2	10.8	7.8	1.1	I	0.0
	Private	buildi	ng and	loan a	associat	ions										
2002 Sep. Oct. Nov.	1.2 1.2 1.2	0.0 0.0	0.2 0.2	2.8 2.3	1.8 1.3	2.7 2.2	1.1	0.3	0.5 0.6 0.4	0.2	1.0	6.4	4.1	0.8		0.0 0.0 0.0
	Public	buildin	ig and	loan a	ssociati	ons										
2002 Sep. Oct. Nov.	0.6 0.6 0.6	0.0	0.1	1.1	0.8	1.0	0.4 0.4 0.4	0.1	0.3 0.3 0.2	0.1	0.2 0.2 0.3	4.2	3.8	0.4		0.0 0.0 0.0

^{*} Excluding assets and liabilities and/or transactions of the foreign branches. From August 1990 including assets and liabilities and/or transactions with building and loan association savers in the former GDR. The figures for the latest date are always to be regarded as provisional; subsequent alterations, which will appear in the following Monthly Report, are not specially marked. — 1 Including postal giro account balances, claims on building and loan associations, claims arising from registered debt securities and central bank balances. — 2 Loans under savings and loan contracts and interim and bridging loans. — 3 Including money market paper and small amounts of other securities issued by banks. — 4 Including equalisation claims. — 5 Including liabilities to building and loan associations. — 6 Including small

amounts of savings deposits. — 7 Including participation rights capital and fund for general banking risks. — 8 Total amount covered by the contracts; only contracts newly entered into, for which the contract fee has been fully paid. Increases in the sum contracted count as new contracts. — 9 For outpayments of deposits under savings and loan contracts arising from the allocation of contracts see "Capital paid out". — 10 Including housing bonuses credited. — 11 Only allocations accepted by the beneficiaries; including allocations applied to settlement of interim and bridging loans. — 12 The amounts already credited to the accounts of savers or borrowers are also included in "Amounts paid into savings accounts under savings and loan contracts" and "Interest and repayments received on building loans".

IV. Banks

13. Assets and liabilities of the foreign branches and foreign subsidiaries of German banks (MFIs) *

•	€ billion														
	Number o	f		Lending to	banks (M	Fls)			Lending t	o non-bank	s (non-MF	ls)			
	German banks					nd loans an ced by certi				Loans and not evider	advances nced by cer	tificates			
	(MFIs) with										to German				
Period	foreign branches and/or foreign subsi- diaries	foreign branches 1 and/or foreign subsi- diaries	balance sheet total	Total	Total	German banks	Foreign banks	Money market paper, secur- ities 2, 3	Total	Total	Total	of which enter- prises and indi- viduals	to foreign non- banks	Money market paper, secur- ities 2	Other assets
renou		brancl		iotai	iotai	Dariks	Dariks	itles 2, 3	iotai	iotai	iotai			ear or m	
1999 2000 2001	66 71 68	187 212 216	1,311.9 1,558.2 1,689.3	714.6 829.4 870.6	614.2 722.1 761.6	177.0 211.0 213.6	437.2 511.1 548.0	100.4 107.3 109.0	533.9 656.7 744.9	386.2 501.5 549.0	26.6 21.7 20.6	20.8 17.1 17.2	359.6 479.9 528.4	147.7 155.2 195.9	63.4 72.0 73.9
2002 Jan. Feb. Mar.	68 68 65	216 216 214	1,755.2 1,735.3 1,718.9	934.1 920.3 905.4	821.1 800.6 788.3	226.5 218.6 216.0	594.6 582.0 572.3	113.0 119.6 117.1	750.1 737.2 732.8	553.3 544.8 540.8	20.2 19.9 19.1	16.7 16.3 15.4	533.1 524.9 521.7	196.9 192.4 192.0	71.0 77.8 80.7
Apr. May June	64 63 63	213 212 211	1,720.0 1,677.0 1,548.6	907.4 870.7 795.4	764.5 737.5 672.9	230.2 219.5 206.4	534.3 518.0 466.5	143.0 133.1 122.6	745.1 756.6 694.8	576.7 579.2 524.6	19.4 19.2 18.4	15.3 15.0 14.3	557.3 560.0 506.2	168.4 177.4 170.3	67.4 49.7 58.4
July Aug. Sep.	62 62 61	210 210 208	1,561.1 1,577.0 1,559.2	776.9 764.1 761.8	655.0 642.8 646.1	201.1 203.2 201.7	453.9 439.5 444.4	122.0 121.3 115.7	723.7 756.6 752.3	544.2 569.7 559.7	18.7 18.4 19.0	15.0 14.8 15.3	525.5 551.3 540.7	179.5 186.9 192.6	60.4 56.3 45.1
Oct.	59	203	1,568.0	758.9	643.9	210.0	433.9	115.0	746.0	550.5	18.7	15.0	531.8	195.5 Cha	63.1 l nges *
2000 2001	+ 5 - 3	+ 25	+214.0	+ 97.0	+ 92.3	+ 33.7	+ 58.6	+ 4.7	+108.3	+104.0	- 5.3 - 1.1	- 4.1 - 0.0	+109.4	+ 4.3 + 37.1	+ 8.7
2002 Jan. Feb.	-	+ 4	+ 99.1 + 51.0 - 17.5	+ 24.8 + 56.7 - 12.8	+ 26.1 + 53.4 - 19.5	+ 2.3 + 12.7 - 7.8 - 2.5	+ 23.8 + 40.7 - 11.7	- 1.3 + 3.3 + 6.8	+ 72.7 - 2.5 - 11.6	+ 35.6 - 1.5 - 7.5	- 0.5 - 0.2	- 0.6 - 0.4	+ 36.7 - 1.0 - 7.3 - 1.1	- 1.0 - 4.1	+ 1.6 - 3.2 + 6.9
Mar. Apr. May June	- 3 - 1 - 1	- 2 - 1 - 1 - 1	- 10.7 + 25.5 - 4.3 - 80.1	- 12.1 + 13.4 - 20.5 - 55.4	- 9.9 - 13.7 - 13.0 - 47.5	- 2.5 + 14.1 - 10.6 - 13.1	- 7.4 - 27.8 - 2.4 - 34.4	- 2.2 + 27.1 - 7.5 - 7.9	- 1.5 + 25.0 + 29.9 - 37.7	- 1.9 + 45.4 + 17.0 - 36.2	- 0.8 + 0.2 - 0.1 - 0.8	- 0.8 - 0.2 - 0.3 - 0.7	- 1.1 + 45.1 + 17.1 - 35.3	+ 0.3 - 20.4 + 12.9 - 1.6	+ 2.9 - 12.8 - 13.7 + 13.1
July Aug. Sep.	- 1 - 1 - 1	- 1 - 1 - 2	- 8.2 + 20.8 - 14.1	- 26.9 - 10.9 - 1.0	- 47.3 - 25.1 - 10.7 + 4.6	- 5.3 + 2.2 - 1.5	- 19.7 - 12.9 + 6.2	- 7.3 - 1.9 - 0.2 - 5.6	+ 19.0 + 35.1 - 2.0	+ 11.7 + 27.4 - 8.3	+ 0.2 - 0.3 + 0.6	+ 0.7 - 0.2 + 0.5	+ 11.5 + 27.6 - 8.9	+ 7.3 + 7.8 + 6.3	- 0.2 - 3.5 - 11.1
Oct.	- 2	- 5	+ 11.2	- 2.0	- 1.4	+ 8.3	- 9.7	- 0.6	- 4.9	- 8.0	- 0.3	- 0.4	- 7.7	+ 3.1	+ 18.1
	Foreigr	subsid	liaries									Е	nd of ye	ear or m	onth *
1999 2000 2001	39 40 46	161 170 200	530.6 580.5 811.5	242.0 248.1 342.4	178.6 183.8 262.8	71.1 82.2 105.7	107.5 101.6 157.1	63.4 64.3 79.6	234.6 263.5 382.2	174.2 203.4 293.1	41.5 45.4 51.9	37.5 42.3 47.7	132.7 158.0 241.2	60.4 60.1 89.2	53.9 69.0 87.0
2002 Jan. Feb. Mar.	46 46 47	201 201 201	815.1 803.5 813.9	354.7 348.0 349.4	273.6 268.1 268.3	108.3 101.7 105.3	165.3 166.4 163.0	81.0 79.9 81.1	370.4 367.6 368.7	278.8 277.2 277.4	50.8 49.4 49.7	47.2 45.7 46.3	228.0 227.8 227.7	91.6 90.4 91.4	90.1 87.9 95.8
Apr. May June	47 48 48	200 201 201	760.9 751.8 732.2	346.8 343.3 334.7	272.6 269.0 261.9	108.6 113.0 106.2	164.0 156.1 155.7	74.2 74.3 72.8	325.8 317.6 311.4	258.1 259.4 253.9	49.4 49.5 48.4	46.1 46.4 45.2	208.7 209.9 205.5	67.7 58.2 57.6	88.3 90.9 86.0
July Aug. Sep.	48 49 48	200 199 198	712.7 693.7 695.5	328.4 314.7 317.8	255.8 242.0 246.0	116.8 111.9 111.0	139.0 130.0 135.0	72.6 72.7 71.8	306.6 302.7 304.2	248.2 243.9 245.3	48.1 47.8 47.1	45.0 44.8 44.2	200.1 196.1 198.2	58.4 58.8 58.9	77.7 76.3 73.5
Oct.	47	200	700.6	320.4	249.4	111.4	138.0	71.0	306.6	245.5	46.6	43.7	198.9	61.1 Cha	73.6 nges *
2000 2001	+ 1 + 6	+ 9 + 30	+ 38.4 +229.9	+ 2.1 + 92.5	+ 2.4 + 78.0	+ 11.1 + 23.5	- 8.7 + 54.6	- 0.3 + 14.5	+ 21.8 +119.5	+ 21.8 + 89.1	+ 3.9 + 6.5	+ 4.8 + 5.3	+ 17.9 + 82.7	+ 0.0 + 30.4	+ 14.5 + 17.9
2002 Jan. Feb. Mar.	- - + 1	+ 1 - -	- 0.5 - 11.0 + 11.6	+ 10.5 - 6.3 + 2.0	+ 9.7 - 5.3 + 0.6	+ 2.6 - 6.6 + 3.6	+ 7.0 + 1.3 - 2.9	+ 0.8 - 1.0 + 1.4	- 13.8 - 2.5 + 1.6	- 16.1 - 1.4 + 0.7	- 1.0 - 1.4 + 0.3	- 0.4 - 1.5 + 0.6	- 15.1 - + 0.4	+ 2.4 - 1.1 + 0.9	+ 2.8 - 2.2 + 8.0
Apr. May June	+ 1	- 1 + 1	- 47.2 - 1.2 - 9.6	+ 0.3 + 0.7 - 3.5	+ 6.1 - 0.6 - 3.6	+ 3.3 + 4.4 - 6.8	+ 2.9 - 5.0 + 3.2	- 5.9 + 1.3 + 0.1	- 40.3 - 5.1 - 1.8	- 16.7 + 4.4 - 1.2	- 0.3 + 0.1 - 1.1	- 0.2 + 0.2 - 1.2	- 16.4 + 4.3 - 0.1	- 23.6 - 9.5 - 0.6	- 7.2 + 3.1 - 4.3
July Aug. Sep.	+ 1 - 1	- 1 - 1 - 1	- 23.8 - 17.9 + 2.2	- 8.6 - 13.0 + 3.3	- 7.7 - 13.4 + 4.1	+ 10.7 - 4.9 - 0.9	- 18.3 - 8.5 + 5.0	- 0.9 + 0.3 - 0.8	- 6.6 - 3.4 + 1.7	- 7.4 - 3.8 + 1.6	- 0.3 - 0.3 - 0.7	- 0.2 - 0.3 - 0.6	- 7.1 - 3.5 + 2.3	+ 0.8 + 0.4 + 0.1	- 8.5 - 1.4 - 2.8
Oct.	- 1	+ 2	l	+ 2.7	+ 3.5	+ 0.4	+ 3.1		+ 2.5		- 0.5	- 0.4			+ 0.2

^{*} From March 2000, including the foreign branches of building and loan associations. In this table "foreign" also includes the country of domicile of the foreign branches and foreign subsidiaries. Statistical alterations have been eliminated from the changes. (Breaks owing to changes in the range

of reporting institutions have, in principle, not been eliminated from the flow figures in the case of the foreign subsidiaries). The figures for the latest date are always to be regarded as provisional; subsequent alterations, which will appear in the following Monthly Report, are not specially

Deposits														
	of banks (MFIs)		of non-ba	nks (non-N	IFIs)								
					German n	on-banks 4					Manay			
						Short-tern	n	Medium an	d long-term		Money market			
Total	Total	German banks	foreign banks	Total	Total	Total	of which enter- prises and indi- viduals	Total	of which enter- prises and indi- viduals	Foreign non-banks		Working capital and own funds	Other liabilities 6	Period
End of y												reign b		
988.6 1,186.1 1,271.3	671.8 799.5 855.3	148.3 158.2 194.0	641.4 661.2	316.7 386.5 416.0	60.7 60.9 57.4	57.9 58.4 54.2	52.8 51.6 51.2	2.5 3.2	3.0	256.0 325.7 358.6	234.4 272.3 316.8	22.0 24.0	77.9 77.2	1999 2000 2001
1,314.8 1,323.0 1,306.0	896.7 883.6 882.5	192.4 190.0 199.4	704.3 693.6 683.1	418.1 439.4 423.5	65.8 65.8 62.8	62.7 62.6 59.6	60.4 60.2 56.9	3.2 3.2 3.3	3.0 3.0 3.1	352.3 373.6 360.7	334.3 303.9 310.3	24.3 24.3 24.3	81.8 84.1 78.3	2002 Jan. Feb. Mar.
1,334.9 1,298.2 1,200.4	883.5 850.1 791.3	209.5 213.0 209.8	674.0 637.1 581.5	451.4 448.1 409.1	77.8 75.1 63.6	74.5 71.8 60.3	71.1 68.0 56.6	3.3 3.3 3.3	3.2 3.2 3.2	373.6 373.1 345.5	303.7 293.4 264.5	24.5 25.0 24.9	56.9 60.3 58.8	Apr. May June
1,212.9 1,236.0 1,223.7	788.3 791.6 787.6	212.5 219.1 231.3	1	424.5 444.4 436.0	67.2 66.1 63.8	63.9 62.7 60.5	60.0 58.9 57.7	3.4 3.4 3.4	3.3 3.3 3.3	357.3 378.3 372.2	263.1 257.0 249.5			July Aug. Sep.
1,241.7		241.6	563.0	437.0	66.3	62.9	59.3	3.3	3.3	370.7	236.1	25.0	65.2	Oct.
Changes		l . 01	I . 00 6	l . 62.0		+ 0.4	l 13	0.4	I 0.4	l . 62.0	l . 270	I . 90		2000
+ 170.8 + 53.8	+108.8 + 36.3	+ 9.1 + 35.2	+ 99.6 + 1.1	+ 62.0 + 17.5	- 0.0 - 3.7	+ 0.4 - 4.4	- 1.3 - 0.6	- 0.4 + 0.7	- 0.4 + 0.6	+ 62.0 + 21.2	+ 37.9 + 44.6	+ 8.0 + 2.1	- 1.3	2001
+ 31.6 + 9.7 - 12.4	+ 33.6 - 11.9 + 1.8	- 1.8 - 2.4 + 9.5	+ 35.4 - 9.5 - 7.7	- 2.0 + 21.7 - 14.2	+ 8.4 - 0.0 - 2.9	+ 8.4 - 0.0 - 3.0	+ 9.2 - 0.2 - 3.3	- 0.0 + 0.0 + 0.1	- 0.0 + 0.0 + 0.1	- 10.4 + 21.7 - 11.2	+ 17.4 - 30.4 + 6.4	+ 0.2 - 0.0 - 0.0	+ 1.7 + 3.1 - 4.8	2002 Jan. Feb. Mar.
+ 48.2 - 8.4 - 63.1	+ 13.5 - 15.6 - 36.5	+ 10.1 + 3.5 - 3.2	+ 3.4 - 19.0 - 33.4	+ 34.7 + 7.2 - 26.6	+ 15.0 - 2.7 - 11.4	+ 14.9 - 2.7 - 11.5	+ 14.2 - 3.1 - 11.3	+ 0.0 + 0.0 + 0.0	+ 0.1 + 0.0 + 0.0	+ 19.7 + 9.9 - 15.1	- 6.6 - 10.3 - 29.0	+ 0.2 + 0.5 - 0.1	- 16.2 + 13.8 + 12.1	Apr. May June
- 2.1 + 26.9 - 10.5	- 11.6 + 5.3 - 2.4	+ 2.7 + 6.6 + 12.2	- 14.3 - 1.4 - 14.5	+ 9.5 + 21.6 - 8.1	+ 3.6 - 1.1 - 2.3	+ 3.5 - 1.1 - 2.3	+ 3.4 - 1.1 - 1.2	+ 0.1 + 0.0 - 0.0	+ 0.1 - 0.0 - 0.0	+ 5.9 + 22.7 - 5.8	- 1.4 - 6.1 - 7.5	+ 0.1 + 0.1 - 0.1	- 4.8 - 0.1 + 3.9	July Aug. Sep.
+ 19.5	+ 18.0	+ 10.3	+ 7.6	+ 1.6	+ 2.4	+ 2.5	+ 1.6	- 0.0	– 0.0	- 0.9	– 13.4	- 0.0	+ 5.2	Oct.
End of y	ear or n	nonth *									Forei	gn subs	sidiaries	
383.4 414.6 576.5	250.7 267.9 362.5	56.9 61.0 79.2	193.8 207.0 283.3	132.7 146.7 214.0	21.6 32.5 36.4	19.8 29.2 32.5	18.3 21.9 23.9	1.7 3.2 3.9	1.7 3.2 3.8	111.1 114.2 177.6	51.5 56.3 99.8	29.0 34.7 47.3	66.7 74.9 87.9	1999 2000 2001
580.0 568.8 578.1	369.6 361.3 376.1	70.1 61.9 65.6	299.5 299.4 310.5	210.4 207.5 202.0	35.0 33.0 32.9	31.2 29.2 29.1	25.7 24.1 24.1	3.8 3.8 3.8	3.8 3.8 3.8	175.4 174.5 169.1	98.4 98.9 101.0	48.0 48.3 48.0	88.6 87.5 86.8	2002 Jan. Feb. Mar.
547.7 539.5 521.7	344.3 339.9 326.3	66.6 71.3 72.5	277.7 268.7 253.8	203.4 199.6 195.4	33.7 32.3 31.8	29.9 28.5 28.1	25.4 24.4 24.0	3.8 3.8 3.7	3.7 3.7 3.7	169.7 167.3 163.6	81.9 82.1 81.4	47.1 46.4 45.4	84.1 83.8 83.7	Apr. May June
500.8 490.1 488.8	307.6 304.0 300.6	71.5 75.7 78.0	236.1 228.3 222.6	193.3 186.1 188.2	31.7 27.6 28.8	24.8 23.3 24.1	20.6 22.8 23.6	6.9 4.3 4.6	6.8 4.2 4.6	161.6 158.5 159.4	82.9 81.4 81.6			July Aug. Sep.
495.9	301.0	l .	1	l	27.7	l	ı		l		l	l .		Oct.
Changes														
+ 20.6 + 160.9	+ 9.9 + 94.6	+ 2.9 + 18.2	+ 7.0 + 76.3	+ 10.7 + 66.4	+ 10.9 + 3.9	+ 9.4 + 3.3	+ 3.6 + 2.0	+ 1.5 + 0.6	+ 1.5 + 0.6	- 0.3 + 62.5	+ 4.8 + 43.6	+ 5.4 + 13.7	+ 7.6 + 11.7	2000 2001
- 0.0 - 10.7	+ 4.7 - 7.9	- 9.1 - 8.2	+ 13.8 + 0.3	- 4.7 - 2.9	- 1.4 - 2.0	- 1.4 - 2.0	+ 1.8 - 1.6	- 0.0 - 0.0	- 0.0 - 0.0	- 3.4 - 0.8	- 1.4 + 0.5	+ 0.7 + 0.3	+ 0.2 - 1.0	2002 Jan. Feb.
+ 10.5	+ 15.5	+ 3.7	+ 11.7	- 5.0	- 0.1	- 0.1	- 0.0	_	-	- 4.9	+ 2.1	- 0.3 - 0.9	- 0.6	Mar.
- 25.1 - 0.9 - 8.7	- 28.1 + 0.4 - 7.4	+ 1.0 + 4.6 + 1.3	- 29.1 - 4.2 - 8.7	+ 3.0 - 1.4 - 1.3	+ 0.7 - 1.4 - 0.4	+ 0.8 - 1.4 - 0.4	+ 1.3 - 1.0 - 0.4	- 0.1 - 0.0 - 0.0	- 0.1 - 0.0 - 0.0	+ 2.2 + 0.0 - 0.9	- 19.2 + 0.3 - 0.7	- 0.9 - 0.7 - 1.0	- 2.1 + 0.2 + 0.9	Apr. May June
- 25.0	- 21.4	- 1.0	- 20.3	- 3.6	- 0.1	- 3.3	- 3.4	+ 3.2	+ 3.2	- 3.5	+ 1.5	+ 0.2	- 0.5	July
- 9.6 - 1.0	- 2.8 - 3.1	+ 4.3 + 2.3	- 7.1 - 5.4	- 6.7 + 2.1	- 4.1 + 1.2	- 1.5 + 0.8	+ 2.2 + 0.8	- 2.6 + 0.4	- 2.6 + 0.4	- 2.7 + 1.0	- 1.5 + 0.2	- 1.6 - 0.7		Aug. Sep.
+ 7.4	+ 0.5	+ 1.1	- 0.5	+ 6.8	- 1.1	- 1.0	- 1.0	- 0.1	- 0.1	+ 7.9	+ 0.1	- 0.1	– 1.9	Oct.

marked. — 1 Several branches in a given country of domicile are regarded as a single branch. — 2 Treasury bills, Treasury discount paper and other money market paper, debt securities. — 3 Including own debt securities. — 4 Excluding subordinated liabilities and non-negotiable

debt securities and money market paper. — 5 Issues of negotiable and non-negotiable debt securities and money market paper. — 6 Including subordinated liabilities.

V. Minimum reserves

1. Reserve ratios Germany

% of liabilities subject to reserve requirements

70 Of Habilities subj	ect to reserve requi	ircincing	
Applicable from	Sight liabilities	Time liabilities	Savings deposits
1995 August 1	2	2	1.5

European monetary union

% of reserve base 1

Applicable from	Ratio	
1999 January 1	2	

1 Article 3 of the Regulation of the European Central Bank of 1 December 1998 on the application of minimum reserves (excluding liabilities to which a reserve ratio of 0 % applies, pursuant to article 4 (1)).

- 2. Reserve maintenance in Germany up to the end of 1998
 - pursuant to the Minimum Reserves Order of the Bundesbank -

DM million

Monthly average 1 1995 Dec. 1996 Dec. 1997 Dec. 1998 Dec.

Liabil	ities subject	to reserve require	ements				Excess reserves 4		
Total		Sight liabilities	Time liabilities	Savings deposits	Required reserves 2	Actual reserves 3		as % of the required reserves	Shortfall, total
	2,066,565	579,337	519,456	967,772	36,492	37,337	845	2.3	3
	2,201,464	655,483	474,342	1,071,639	38,671	39,522	851	2.2	4
	2,327,879	734,986	476,417	1,116,477	40,975	41,721	745	1.8] 3
1	2 576 889	865 444	564 878	1 146 567	45 805	46 432	627	1 4	1 4

1 Pursuant to sections 5 to 7 of the Minimum Reserves Order. — 2 Amount after applying the reserve ratios to the liabilities subject to reserve requirements (section 5 (1) of the Minimum Reserves Order). — 3 Average credit

balances of the credit institutions subject to reserve requirements on their giro accounts at the Bundesbank. — 4 Actual reserves less required reserves.

Reserve maintenance in the European monetary union

 from 1999, pursuant to the ECB Regulation governing minimum reserves according to article 19.1 of the ECB/ESCB Statute –

Maintenance period beginning in 1		Required reserves before deduction of lump-sum	Lump-sum	Required reserves after deduction of			61. (6.11.4.1.17
	Reserve base 2	allowance 3	allowance 4	lump-sum allowance	Actual reserves 3	Excess reserves 6	Shortfall, total 7
	European mone	tary union (€ bill	ion)				
2002 Mar.	6,557.5	131.2	0.6	130.6	131.1	0.5	0.0
Apr.	6,578.6	131.6	0.6	131.0	131.5	0.5	0.0
May	6,581.0	131.6	0.6	131.0	131.7	0.6	0.0
June	6,560.9	131.2	0.6	130.7	131.3	0.6	0.0
July	6,490.8	129.8	0.6	129.3	129.7	0.5	0.0
Aug.	6,477.9	129.6	0.6	129.0	129.5	0.5	0.0
Sep.	6,411.9	128.2	0.6	127.7	128.2	0.5	0.0
Oct. r	6,460.4	129.2	0.6	128.7	129.2	0.5	0.0
Nov. p	6,465.4			128.8			
	Of which: Germ	any (€ million)					
2002 Mar.	1,891,284	37,826	246	37,580	37,812	232	6
Apr.	1,899,520	37,990	246	37,745	37,931	187	1
May	1,903,413	38,068	245	37,823	38,100	276	4
June	1,899,951	37,999	242	37,757	38,040	282	1
July	1,896,682	37,934	238	37,696	37,867	171	4
Aug.	1,892,420	37,848	234	37,614	37,823	209	2
Sep.	1,879,343	37,587	232	37,354	37,545	190	1
Oct.	1,894,298	37,886	232	37,654	37,895	240	5
Nov. p	1,887,201	37,744	231	37,513	37,727	214	

¹ The reserve maintenance period of the ESCB minimum reserve system starts on the 24th of each month and ends on the 23rd of the following month (the first reserve maintenance period lasted from January 1, 1999 to February 23, 1999). — 2 Article 3 of the Regulation of the European Central Bank of 1 December 1998 on the application of minimum reserves (excluding liabilities to which a reserve ratio of 0 % applies, pursuant to article 4 (1)). — 3 Amount after applying the reserve ratios to the reserve

base. — 4 Article 5 (2) of the Regulation of the European Central Bank of 1 December 1998 on the application of minimum reserves. — 5 Average credit balances of the credit institutions subject to minimum reserve requirements on their reserve accounts at the respective national central bank. — 6 Actual reserves less required reserves after the deduction of the lump-sum allowance. — 7 Required reserves after the deduction of the lump-sum allowance.

VI. Interest rates

1. ECB interest rates

2. Discount and lombard rates of the Bundesbank

3. Base rates

% p.a.

Applicable from	Deposit facility	Main refinancing operations 1	Marginal lending facility
1999 Jan. 1	2.00	3.00	4.50
Jan. 4	2.75	3.00	3.25
Jan. 22	2.00	3.00	4.50
Apr. 9	1.50	2.50	3.50
Nov. 5	2.00	3.00	4.00
2000 Feb. 4	2.25	3.25	4.25
Mar. 17	2.50	3.50	4.50
Apr. 28	2.75	3.75	4.75
June 9	3.25	4.25	5.25
Sep. 1	3.50	4.50	5.50
Oct. 6	3.75	4.75	5.75
2001 May 11	3.50	4.50	5.50
Aug. 31	3.25	4.25	5.25
Sep. 18	2.75	3.75	4.75
Nov. 9	2.25	3.25	4.25
2002 Dec. 6	1.75	2.75	3.75

% p.a.		
Applicable from	Discount rate	Lombard rate 2, 4, 5
1994 Feb. 18 Apr. 15 May 13	5 ¹ / ₄ 5 4 ¹ / ₂	6 ³ / ₄ 6 ¹ / ₂ 6
1995 Mar. 31 Aug. 25 Dec. 15	4 3 ½ 3	6 5 ¹ / ₂ 5
1996 Apr. 19 to 1998 Dec. 31	2 1/2	4 1/2

% p.	a.			
Appl	icable	from	Base rate as p Discount Rate Transition Act 3, 4, 5	:
1999		1 1		.50 .95
2000	Jan. May Sep.	1 1 1	3.	.68 .42 .26
2001	Sep.	1	3.	.62
2002	Jan. to	1	2.	.71
	Apr.	3		
			Base rate as p Civil Code 6	er
2002	Jan. July	1 1		.57 .47
2003	Jan.	1	1.	.97

1 Up to 21 June 2000 fixed rate tenders, from 28 June 2000 variable rate tenders at minimum bid rate. — 2 From 1 August 1990 to 31 December 1993 this was also the rate for cash advances; from 1 January 1994 cash advances have no longer been granted. Wherever reference is made in an Act to the interest rate applicable for cash advances of the Federal Government, the rate will be replaced by the base rate increased by 1.5 percentage points pursuant to the Discount Rate Transition Act, read in conjunction with the Lombard Rate Transition Regulation, the lombard rate is replaced from 1 January 1999 by the rate applied by the European Cental Bank (ECB) for its marginal lending facility wherever the lombard rate is used as a reference variable for interest and other payments (see also footnote 4 b and 5). — 3 Pursuant to the Discount Rate Transition Act, read in conjunction with the Regulation Governing the Use of the Base Rate as a Reference Variable, this rate replaces the discount rate from 1 January 1999 wherever the latter is used in contracts and regulations as a reference variable for interest and other payments. This base rate is the discount rate of the Bundesbank which applied on 31 December 1998. It changes from January 1, May 1 and September 1 of each year, and will change for the first time on 1 May 1999 if the interest rate applied by the ECB to its longer-term refinancing operations (marginal rate) has changed by at least 0.5 percentage points (see also footnote 4 c and 5). — 4 Wherever the rates listed in this column are used as a reference variable for interest and other payments in Federal legislation (in

the field of civil law and judicial procedural law), in state legislation (as stipulated in the Act Introducing the Civil Code) or in executory instruments and contracts based on such regulations, the following changes apply as from 1 January 2002: a) the rate for cash advances of the Federal Government is replaced by the base rate in the Civil Code increased by 1.5%, b) the lombard rate is replaced by the ECB's marginal lending facility rate, c) the base rate pursuant to the Discount Rate Transition Act is replaced by the base rate pursuant to section 247 of the Civil Code (see also footnote 5). — 5 Pursuant to Article 4 section 1 of the Act on the Amendment of Provisions concerning the Evaluation of Insurance Enterprises' Capital Investment and the Repeal of the Discount Rate Transition Act, the Discount Rate Transition Act, the Regulation Governing the Use of the Base Rate as a Reference Variable and the Lombard Rate Transition Regulation are repealed. Pursuant to Article 4 section 2 of this act, from 4 April 2002 the discount rate and the base rate under the Discount Rate Transition Act are replaced by the base rate pursuant to section 247 of the Civil Code, the lombard rate is replaced by the interest rate for cash advances of the Federal Government by the base rate pursuant to section 247 of the Civil Code increased by 1.5 percentage points. — 6 Starting at 3.62%, it is adjusted on January 1 and July 1 of each year (for the first time on 1 January 2002) by the percentage points by which the reference variable (most recent main refinancing operation of the ECB, marginal rate) has increased or decreased since the last change in the base rate.

4. Eurosystem monetary policy operations allotted through tenders *

Date of settlement							
2002	Nov. Nov.						
	Dec. Dec. Dec. Dec. Dec.	18 24					
2003	Jan. Jan.						
2002	Sep. Oct. Nov. Dec.	31 28					

2002 Dec. 18

F		Fixed rate tenders				
Bids Amount	Allotment Amount	Fixed rate	Minimum bid rate	Marginal rate 1	Weighted average rate	
€ millions		% p.a.				Running for days
Main refinancing	g operations					
120,351 108,905			3.25 3.25	3.27 3.29		14 14
111,791 100,511 103,502 146,157 117,377	88,000	- - - - -	3.25 2.75 2.75 2.75 2.75 2.75	3.25 2.82 2.75 3.02 2.85	3.08	14 13 13 15 15
133,781 120,349			2.75 2.75	2.83 2.80		
Longer-term refi	inancing operati	ons				
25,728 27,820 38,644 42,305	15,000 15,000	_	- - - -	3.23 3.22 3.02 2.93	3.24 3.04	91 91
Other tender op	erations					
28,480	10,000	-	2.75	2.80	2.82	6

Source: ECB. — \star Enlargement of the euro area on 1 January 2001 to include Greece. — 1 Lowest or highest interest rate at which funds were

allotted or collected.

VI. Interest rates

5. Money market rates, by month

% p.a.

Period 2000 Dec. 2001 Jan. Feb. Mar. Apr. May June July Aug. Sep. Oct. Nov. Dec. 2002 Jan. Feb Mar Apr. May June July Aug. Sep. Oct. Dec

Money market rates reported by Frankfurt banks 1					EURIBOR 3								
Day-to-day money Three-month funds				EONIA 2	One- week funds	One- month funds	Three- month funds	Six- month funds	Nine- month funds	Twelve- month funds			
Monthly Lowest and averages highest rates Amonthly averages highest rates			Monthly ave	rages									
4.82	4 4.69	-	5.40	4.92	4.81 –	5.02	4.83	4.86	4.95	4.94	4.92	4.90	4.88
4.75 4.98 4.77	4.15 4.73 4.20	-	4.88 5.75 4.93	4.75 4.74 4.69	4.65 – 4.67 – 4.52 –	4.84 4.81 4.78	4.76 4.99 4.78	4.81 4.83 4.82	4.80 4.80 4.78	4.77 4.76 4.71	4.68 4.67 4.58	4.60 4.61 4.49	4.57 4.59 4.47
5.04 4.64 4.53	4.71 4.41 4.30	-	5.80 4.90 4.85	4.66 4.62 4.43	4.52 - 4.49 - 4.37 -	4.80 4.81 4.50	4.65	4.88 4.66 4.56	4.78 4.66 4.53	4.68 4.64 4.45	4.57 4.56 4.35		4.48 4.52 4.31
4.51 4.49 3.97	4.25 4.35 2.95	_	4.63 4.53 5.50	4.45 4.33 3.96	4.38 - 4.21 - 3.60 -	4.50 4.43 4.27		4.54 4.51 4.08	4.52 4.46 4.05	4.47 4.35 3.98	4.39 4.22 3.88	4.33 4.14 3.80	4.31 4.11 3.77
3.96 3.51 3.32	3.65 3.15 5 2.90	_	4.76 4.20 4.05	3.58 3.37 3.33	3.48 - 3.28 - 3.26 -	3.65 3.50 3.36	3.51	3.83 3.48 3.38	3.72 3.43 3.42	3.60 3.39 3.34	3.46 3.26 3.26		3.37 3.20 3.30
3.29 3.27 3.25	2.45 2.90 2.90	-	3.57 3.35 3.45	3.32 3.34 3.37	3.24 - 3.31 - 3.33 -	3.38 3.38 3.45		3.35 3.32 3.33	3.35 3.34 3.35	3.34 3.36 3.39	3.34 3.40 3.50	3.39 3.48 3.65	3.48 3.59 3.82
3.30 3.31 3.35	3.11 3.21 3.28	-	3.75 3.50 3.65	3.39 3.44 3.45	3.35 - 3.35 - 3.40 -	3.45 3.52 3.48	3.32 3.31 3.35	3.32 3.34 3.36	3.34 3.37 3.38	3.41 3.47 3.46	3.54 3.63 3.59	3.70 3.80 3.73	3.86 3.96 3.87
3.30 3.29 3.31	3.15 3.26 3.26	-	3.40 3.36 3.60	3.39 3.33 3.29	3.34 – 3.29 – 3.25 –	3.44 3.37 3.34	3.30 3.29 3.32	3.34 3.32 3.32	3.36 3.33 3.32	3.41 3.35 3.31	3.48 3.38 3.27	3.56 3.40 3.23	3.64 3.44 3.24
3.30 3.30 3.07	3.27 3.10 6 2.85	-	3.50 3.48 3.75	3.24 3.11 2.93	3.18 - 3.00 - 2.83 -	3.31 3.23 3.03	3.30 3.30 3.09	3.31 3.32 3.02	3.31 3.23 2.98	3.26 3.12 2.94	3.17 3.04 2.89	3.12 3.01 2.87	3.13 3.02 2.87

¹ Money market rates are not fixed or quoted officially; the monthly averages computed from daily quotations are unweighted. — 2 Euro OverNight Index Average: weighted average overnight rate for interbank operations calculated by the European Central Bank since 4 January 1999 on the basis of real turnover according to the act/360 method and published via

Moneyline Telerate (formerly Bridge Telerate). — 3 Euro Interbank Offered Rate: unweighted average rate calculated by Moneyline Telerate (formerly Bridge Telerate) since 30 December 1998 according to the act/360 method. — 4 At the end of December 5.00% to 5.40%. — 5 At the end of December 3.50% to 4.05%. — 6 At the end of December 3.00% to 3.05%.

6. Euro area retail bank interest rates *, o

% p.a.; period averages

Period
1999 2000 2001 1
2001 Nov. Dec.
2002 Jan. Feb. Mar.
Apr. May June
July Aug. Sep.
Oct. Nov.

Deposit interest rates							Lending interest rates				
With agreed maturity			Redeemable at	notice	To enterprises		To households				
Overnight	Up to 1 year	Up to 2 years	Over 2 years	Up to 3 months	Over 3 months	Up to 1 year	Over 1 year	Consumer lending	For house purchase		
0.65 0.85 0.94	2.44 3.45 3.49	2.45 3.45 3.49	3.57 4.52 4.12	2.15 2.25 2.40	2.76 3.79 3.59	5.65 6.60 6.83	5.10 6.23 6.15	9.39 9.87 10.12	5.29 6.34 5.91		
0.78 0.74	2.84 2.79	2.83 2.78	3.65 3.77	2.19 2.17	2.75 2.79	6.31 6.26	5.71 5.69	9.87 9.81	5.4 5.5		
0.73 0.73 0.73	2.77 2.78 2.84	2.77 2.79 2.84	3.83 3.95 4.07		2.80 2.91 3.00	6.18 6.16 6.09	5.63 5.75 5.85	9.78 9.81 9.76	5.5 5.6 5.7		
0.74 0.74 0.74	2.89 2.91 2.93	2.90 2.92 2.94	4.15		3.07 3.08 3.08	6.17 6.20 6.18	5.96 5.98 5.92	9.81 9.85 9.82	5.8 5.8 5.7		
0.74 0.73 0.73	2.89 2.84 2.77	2.90 2.85 2.77		2.13 2.12 2.13	3.02 2.94 2.73	6.16 6.14 6.11	5.79 5.70 5.61	9.76 9.77 9.82	5.6 5.5 5.3		
0.72 0.71	2.74 2.70				2.63 2.55	6.12 6.09	5.54 5.50	9.70 9.67	5.2 5.2		

^{*} These euro area retail bank interest rates should be used with caution and for statistical purposes only, primarily to analyse their development over time rather than their level. They are calculated as the weighted average of national interest rates provided by the national central banks. The national rates represent those rates that are currently available from national sources and which are judged to fit the standard categories. These national rates have been aggregated to derive information for the euro area, in some cases relying on proxies and working assumptions due to the heterogeneity observed in the national financial instruments across MU

Member States. Furthermore, the national interest rates are not harmonised in terms of their coverage (new business and/or outstanding amounts), the nature of the data (nominal or effective) or the compilation method. The country weights for the euro area retail bank interest rates are derived from MFI balance sheet statistics or close proxies. The weights reflect the country-specific proportions of the relevant instruments within the euro area, measured as outstanding amounts. The weights are adjusted monthly, so that interest rates and weights always refer to the same month. — 1 Enlargement of the euro area on 1 January 2001 to include Greece.

o Tables and notes taken from the ECB.

VI. Interest rates

7. Lending and deposit rates of banks (MFIs) in Germany *, o Lending rates

% p.a.

	Current account cre	edit					Bills discounted	
	less than € 100,000		€ 100,000 and more but less than € 500,		€ 500,000 and more but less than € 2.5 r		Bills of less than € 5 refinancable at the Bundesbank	50,000
Reporting period 1	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread
2000 Dec.	11.39	8.90 – 13.25	10.27	8.00 - 12.75	9.12	7.00 - 12.00	6.98	5.05 - 10.00
2001 Jan.	11.35	8.75 - 13.50	10.30	8.00 - 12.95	9.12	7.00 - 12.25	6.99	5.50 - 10.00
Feb.	11.13	8.00 - 13.25	10.15	7.50 - 12.95	8.95	7.00 - 12.00	6.98	5.40 - 9.81
Mar.	11.17	7.00 - 13.25	10.03	6.50 - 13.00	8.86	6.00 - 12.00	7.00	5.50 - 10.00
Apr.	11.14	6.80 - 13.25	10.07	6.50 - 13.00	8.85	6.00 - 12.25	6.96	5.39 - 10.00
May	11.12	6.50 - 13.25	10.09	6.00 - 12.75	8.84	5.60 - 12.00	6.86	4.78 - 10.00
June	11.21	6.50 - 13.25	10.13	6.50 - 12.95	8.79	5.50 - 12.00	6.91	5.42 - 10.00
July	11.12	6.50 - 13.25	9.99	6.00 - 12.95	8.73	5.50 - 12.00	6.91	5.43 - 10.00
Aug.	11.11	6.20 - 13.25	10.03	6.00 - 12.95	8.79	5.50 - 12.10	6.84	5.18 - 10.00
Sep.	11.06	6.00 - 13.25	9.98	6.00 - 12.75	8.75	5.50 - 12.10	6.69	5.00 - 10.00
Oct.	10.97	5.50 - 13.25	9.93	5.50 - 12.75	8.57	5.00 - 12.00	6.57	4.55 - 10.25
Nov.	10.87	5.50 - 13.00	9.77	5.00 - 12.75	8.49	4.90 - 12.00	6.43	4.36 - 10.25
Dec.	10.66	6.00 - 13.00	9.64	5.50 - 12.75	8.44	4.90 - 12.00	6.23	3.46 - 10.00
2002 Jan. •	10.86	6.00 - 13.00	9.62	5.50 - 12.75	8.40	4.50 - 12.00	6.34	4.30 - 10.25
Feb.	10.84	6.00 - 13.00	9.58	6.00 - 12.75	8.42	5.50 - 12.00	6.36	4.35 - 10.25
Mar.	10.88	6.45 - 13.00	9.64	6.00 - 12.60	8.39	4.50 - 12.00	6.28	4.25 - 10.00
Apr.	10.90	6.00 - 13.00	9.69	6.00 - 12.75	8.49	5.00 - 12.00	6.34	4.30 - 10.25
May	10.93	6.00 - 13.00	9.69	5.50 - 12.75	8.55	4.50 - 12.00	6.36	4.35 - 10.25
June	10.88	6.30 - 13.00	9.76	6.00 - 12.75	8.48	4.50 - 12.00	6.42	4.45 - 10.25
July	10.99	6.00 - 13.00	9.70	5.50 - 12.75	8.57	4.50 - 12.00	6.40	4.38 - 10.00
Aug.	11.00	6.00 - 13.00	9.72	5.50 - 12.75	8.57	4.50 - 12.00	6.41	4.34 - 10.25
Sep.	10.86	5.50 - 13.00	9.78	6.00 - 12.75	8.54	4.50 - 12.00	6.37	4.30 - 10.25
Oct.	10.92	5.50 - 13.00	9.77	5.40 - 12.75	8.58	4.50 - 12.00	6.36	4.26 - 10.25
Nov.	10.97	5.50 - 13.00	9.73	5.50 - 12.50	8.55	4.50 - 12.00	6.29	4.10 - 10.25
Dec.	10.88	5.50 - 13.00	9.69	5.00 - 12.75	8.56	4.00 - 12.00	6.19	3.93 - 10.25

											_
			Instalment cred	lits			Long-term fixed to enterprises a (excluding lend	d-rate loans and self-employe ling to the housi	ed persons ng sector) 5		
	Personal credit	linos	€ 5,000 and mo	re but not more	than € 15,000 2		€ 100,000 and r		€ 500,000 and r		
	(overdraft facili granted to indi	ities	Monthly rate ³		Effective annual interest	rate 4	Effective intere		but less triair e	3 1111111011	
Reporting period 1	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	
2000 Dec.	12.61	11.25 – 13.50	0.41	0.35 - 0.50	10.80	8.95 – 12.83	7.04	6.05 - 8.70	6.84	5.85 –	8.30
2001 Jan.	12.63	11.00 – 13.50	0.41	0.34 - 0.50	10.82	8.95 - 12.95	6.89	5.82 - 8.57	6.66	5.63 –	8.25
Feb.	12.61	10.75 – 13.50	0.41	0.34 - 0.50	10.82	8.88 - 12.91	6.89	5.79 - 8.64	6.65		8.25
Mar.	12.67	11.25 – 13.75	0.41	0.34 - 0.50	10.76	8.77 - 12.77	6.78	5.75 - 8.50	6.56		8.05
Apr.	12.70	11.25 – 13.75	0.41	0.33 - 0.49	10.71	8.76 - 12.77	6.77	5.75 - 8.57	6.53	5.69 –	8.05
May	12.70	11.50 – 13.50	0.41	0.33 - 0.49	10.75	8.69 - 12.89	6.81	5.83 - 8.65	6.60		8.01
June	12.68	11.50 – 13.50	0.41	0.34 - 0.49	10.76	8.76 - 12.89	6.82	5.81 - 8.66	6.62		8.20
July	12.68	11.25 – 13.50	0.41	0.35 - 0.49	10.78	8.92 - 12.91	6.82	5.85 - 8.63	6.60	5.50 -	8.30
Aug.	12.66	11.25 – 13.50	0.41	0.35 - 0.49	10.80	8.89 - 12.76	6.74	5.63 - 8.60	6.52		8.30
Sep.	12.66	11.25 – 13.50	0.41	0.35 - 0.49	10.80	8.95 - 12.89	6.64	5.49 - 8.50	6.43		8.25
Oct.	12.61	11.25 - 13.50	0.41	0.35 - 0.49	10.76	8.80 - 12.95	6.44	5.26 - 8.50	6.21	5.04 –	8.17
Nov.	12.54	11.25 - 13.50	0.41	0.34 - 0.49	10.65	8.68 - 12.86	6.28	5.15 - 8.50	6.05		8.12
Dec.	12.48	11.00 - 13.50	0.41	0.34 - 0.49	10.64	8.78 - 12.63	6.40	5.36 - 8.50	6.16		8.05
2002 Jan. o	12.47	11.25 - 13.50	0.41	0.33 - 0.49	10.65	8.62 - 12.68	6.48	5.50 - 8.55	6.23	5.41 –	8.25
Feb.	12.47	11.00 - 13.50	0.41	0.34 - 0.49	10.73	8.87 - 12.77	6.57	5.55 - 8.60	6.36		8.50
Mar.	12.44	11.00 - 13.50	0.41	0.34 - 0.49	10.71	8.87 - 12.68	6.77	5.80 - 8.80	6.55		8.55
Apr.	12.44	10.51 - 13.50	0.41	0.34 - 0.49	10.68	8.76 - 12.80	6.82	5.80 - 8.80	6.63	5.75 –	8.45
May	12.47	11.00 - 13.50	0.41	0.34 - 0.49	10.73	8.87 - 12.96	6.86	5.90 - 8.60	6.63		8.45
June	12.49	11.20 - 13.50	0.41	0.33 - 0.50	10.73	8.48 - 13.00	6.75	5.77 - 8.53	6.53		8.25
July	12.48	11.00 – 13.50	0.41	0.33 - 0.49	10.74	8.83 - 13.00	6.68	5.71 - 8.60	6.45	5.21 –	8.25
Aug.	12.47	10.50 – 13.50	0.42	0.33 - 0.50	10.71	8.82 - 13.00	6.51	5.33 - 8.52	6.26		8.25
Sep.	12.49	10.75 – 13.50	0.41	0.34 - 0.49	10.76	8.76 - 13.00	6.37	5.12 - 8.57	6.13		8.25
Oct.	12.52	11.00 - 13.50	0.41	0.34 - 0.50	10.74	8.56 - 13.05	6.32	5.17 - 8.57	6.13	4.74 –	8.25
Nov.	12.53	11.00 - 13.50	0.42	0.34 - 0.50	10.70	8.50 - 13.07	6.26	4.99 - 8.52	6.05		8.20
Dec.	12.53	11.20 - 13.50	0.41	0.33 - 0.50	10.64	8.47 - 13.00	6.13	4.88 - 8.50	5.93		8.20

^{*} The average rates are calculated as unweighted arithmetic means from the interest rates reported to be within the spread. The spread is ascertained by eliminating the reports in the top 5% and the bottom 5% of the interest rate range. The figures for the latest date are always to be regarded as provisional; subsequent alterations, which will appear in the following Monthly Report, are not specially marked. — o For simplicity, the amount categories were redenominated to euro as from January 2002 by halving the previous Deutsche Mark amounts. — 1 Second and third weeks of the months indicated. — 2 With maturities between 36 months and

60 months. — 3 Interest rates as % per month of original amount of credit taken up. Besides interest, most banks charge a one-off processing fee (generally 2%, in some cases 3%, of the credit amount). — 4 Calculated on the basis of reported monthly rates (see footnote 3) and reported annual rates on the respective amount of debt and on the basis of the respective processing fees, taking due account of reported maturities. — 5 Lending to enterprises (with agreed maturities of more than five years) with agreed interest rates locked in for more than five years.

VI. Interest rates

7. Lending and deposit rates of banks (MFIs) in Germany *, \circ (cont'd) Lending rates

% p.a.

	Mortgage loans sec	ured by residential	real estate					
	with interest rates	fixed (effective inter	est rate) 6					
	for 2 years		for 5 years		for 10 years		with variable intere (effective interest r	
Reporting period 1	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread
2000 Dec.	6.20	5.64 – 6.98	6.19	5.81 – 6.75	6.44	6.17 – 6.86	6.81	5.90 - 8.03
2001 Jan.	5.95	5.41 - 6.60	5.93	5.59 - 6.54	6.22	5.96 - 6.70	6.72	5.64 - 8.11
Feb.	5.94	5.43 - 6.59	5.90	5.59 - 6.51	6.17	5.96 - 6.54	6.71	5.61 - 8.03
Mar.	5.85	5.27 - 6.49	5.80	5.47 - 6.35	6.12	5.85 - 6.54	6.67	5.56 - 8.03
Apr.	5.80	5.27 - 6.54	5.78	5.43 - 6.33	6.11	5.85 - 6.54	6.64	5.48 - 8.03
May	5.88	5.34 - 6.59	5.87	5.54 - 6.43	6.20	5.77 - 6.64	6.66	5.59 - 8.03
June	5.80	5.27 - 6.54	5.84	5.54 - 6.33	6.22	5.85 - 6.59	6.64	5.48 - 8.03
July	5.78	5.22 - 6.45	5.85	5.54 - 6.37	6.24	5.77 - 6.59	6.64	5.43 - 8.03
Aug.	5.62	5.06 - 6.35	5.69	5.43 - 6.22	6.13	5.88 - 6.54	6.57	5.43 - 8.03
Sep.	5.41	4.75 - 6.22	5.57	5.22 - 6.22	6.08	5.85 - 6.43	6.45	5.38 - 7.82
Oct.	5.12	4.49 - 5.96	5.36	5.01 - 6.03	5.91	5.64 - 6.43	6.30	4.96 - 7.73
Nov.	4.95	4.33 - 5.79	5.20	4.75 - 5.75	5.70	5.38 - 6.14	6.12	4.80 - 7.71
Dec.	5.13	4.59 - 5.90	5.42	4.90 - 5.90	5.87	5.20 - 6.22	6.15	4.85 - 7.60
2002 Jan.	5.19	4.65 - 5.91	5.52	5.10 - 6.06	5.95	5.36 - 6.27	6.13	4.85 - 7.50
Feb.	5.38	4.85 - 6.11	5.66	5.32 - 6.17	6.05	5.62 - 6.42	6.14	4.80 - 7.50
Mar.	5.61	5.12 - 6.27	5.89	5.54 - 6.33	6.26	5.84 - 6.61	6.16	4.70 - 7.50
Apr.	5.70	5.22 - 6.38	5.96	5.56 - 6.43	6.30	6.00 - 6.69	6.26	5.10 - 7.60
May	5.73	5.22 - 6.38	5.96	5.69 - 6.43	6.30	6.01 - 6.70	6.22	4.95 - 7.50
June	5.63	5.08 - 6.27	5.86	5.54 - 6.38	6.21	5.91 - 6.59	6.21	5.02 - 7.50
July	5.47	4.85 - 6.17	5.71	5.41 - 6.27	6.10	5.85 - 6.54	6.13	4.96 - 7.49
Aug.	5.17	4.54 - 5.90	5.42	5.08 - 6.06	5.84	5.57 - 6.38	6.04	4.87 - 7.23
Sep.	4.95	4.28 - 5.75	5.22	4.85 - 5.96	5.69	5.38 - 6.26	6.02	4.79 - 7.49
Oct.	4.86	4.28 - 5.75	5.14	4.75 - 5.80	5.67	5.33 - 6.22	5.93	4.59 - 7.34
Nov.	4.76	4.07 - 5.59	5.08	4.75 - 5.75	5.62	5.27 - 6.17	5.90	4.59 - 7.34
Dec.	4.62	3.92 - 5.54	4.96	4.59 - 5.64	5.52	5.20 - 6.17	5.83	4.44 - 7.50

Deposit rates

% p.a.

			Time deposits v	vith agreed mat		T				
			of 1 month						of 3 months	
	Higher-yielding sight deposits of individuals 7		less than € 50,0		€ 50,000 and m less than € 500,		€ 500,000 and r less than € 2.5 r		€ 50,000 and m less than € 500,	
Reporting period 1	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread
2000 Dec.	2.41	0.50 - 4.00	3.62	2.65 – 4.35	4.05	3.10 - 4.60	4.42	3.50 – 4.92	4.19	3.35 - 4.80
2001 Jan.	2.43	0.50 - 4.00	3.56	2.60 - 4.25	3.96	3.20 - 4.50	4.33	3.60 - 4.75	4.06	3.39 - 4.60
Feb.	2.50	0.50 - 4.00	3.46	2.55 - 4.15	3.87	3.20 - 4.45	4.21	3.50 - 4.70	4.01	3.30 - 4.50
Mar.	2.48	0.50 - 4.00	3.53	2.75 - 4.25	3.95	3.25 - 4.50	4.31	3.50 - 4.75	4.05	3.40 - 4.50
Apr.	2.49	0.50 - 4.00	3.48	2.59 - 4.20	3.91	3.20 - 4.50	4.27	3.50 - 4.70	3.99	3.25 - 4.50
May	2.44	0.50 - 4.00	3.46	2.50 - 4.20	3.85	3.10 - 4.40	4.20	3.50 - 4.65	3.95	3.20 - 4.50
June	2.42	0.50 - 3.90	3.34	2.50 - 4.00	3.73	3.10 - 4.25	4.07	3.50 - 4.44	3.84	3.15 - 4.35
July	2.41	0.50 - 3.88	3.34	2.50 - 4.00	3.73	3.10 - 4.20	4.08	3.50 - 4.50	3.83	3.20 - 4.41
Aug.	2.39	0.50 - 3.75	3.31	2.50 - 4.00	3.70	3.00 - 4.20	4.05	3.40 - 4.45	3.76	3.10 - 4.30
Sep.	2.26	0.50 - 3.50	3.00	2.20 - 3.85	3.38	2.70 - 4.00	3.66	2.95 - 4.15	3.47	2.60 - 4.00
Oct.	2.10	0.50 - 3.24	2.69	2.00 - 3.40	3.07	2.40 - 3.50	3.36	2.75 - 3.75	3.12	2.40 - 3.65
Nov.	1.96	0.50 - 2.96	2.42	1.75 - 3.00	2.77	2.20 - 3.15	3.00	2.50 - 3.30	2.83	2.17 - 3.45
Dec.	1.92	0.50 - 2.95	2.41	1.75 - 3.00	2.76	2.23 - 3.15	3.03	2.50 - 3.40	2.78	2.20 - 3.15
2002 Jan. •	1.90	0.50 - 2.85	2.37	1.70 - 3.00	2.73	2.20 - 3.10	3.00	2.50 - 3.30	2.76	2.20 - 3.11
Feb.	1.86	0.50 - 2.85	2.30	1.65 - 3.00	2.66	2.09 - 3.05	2.89	2.45 - 3.23	2.75	2.20 - 3.13
Mar.	1.88	0.50 - 2.80	2.34	1.70 - 3.00	2.70	2.20 - 3.10	2.94	2.40 - 3.25	2.77	2.25 - 3.17
Apr.	1.87	0.50 - 3.00	2.34	1.70 - 3.00	2.69	2.25 - 3.05	2.94	2.50 - 3.25	2.78	2.22 - 3.20
May	1.85	0.50 - 2.75	2.33	1.67 - 3.00	2.70	2.25 - 3.05	2.94	2.40 - 3.25	2.79	2.23 - 3.20
June	1.85	0.50 - 2.75	2.35	1.70 - 3.00	2.70	2.25 - 3.10	2.94	2.50 - 3.30	2.83	2.25 - 3.25
July	1.85	0.50 - 2.80	2.35	1.75 - 3.00	2.71	2.20 - 3.10	2.95	2.50 - 3.30	2.81	2.25 - 3.25
Aug.	1.82	0.50 - 2.75	2.33	1.66 - 3.00	2.69	2.17 - 3.10	2.92	2.40 - 3.25	2.77	2.20 - 3.10
Sep.	1.80	0.50 - 2.75	2.29	1.65 - 3.00	2.65	2.10 - 3.07	2.89	2.35 - 3.22	2.74	2.20 - 3.10
Oct.	1.76	0.50 - 2.75	2.29	1.65 - 3.00	2.64	2.10 - 3.02	2.88	2.40 - 3.22	2.72	2.20 - 3.10
Nov.	1.77	0.50 - 2.75	2.24	1.57 - 2.90	2.60	2.00 - 3.00	2.84	2.30 - 3.20	2.65	2.10 - 3.00
Dec.	1.66	0.50 - 2.55	2.04	1.45 - 2.65	2.37	1.90 - 2.80	2.60	2.10 - 3.00	2.41	1.90 - 2.90

For footnotes *, o, 1 to 5 see page 45*. — 6 The figures refer to the time when the contract was concluded and not to the entire duration of the contract. The calculation of the effective interest rate is based on an annual redemption rate of 1% plus interest saved; the repayment conditions agreed

upon in each case by the credit institutions involved are taken into account (at present mostly monthly payment and inclusion). — 7 Only such interest rates are taken into account as are above the relevant standard terms of the banks included in the survey.

VI. Interest rates

7. Lending and deposit rates of banks (MFIs) in Germany $^{\star,\ o}$ (cont'd) Deposit rates

% p.a.

				Savings deposit	S										
	Bank savings bo with regular interest payme			with minimum return 8	rates of		with higher rat (without a dura			being agreed)					
							with agreed no	tice of 3 mo	onths	i					
	maturity of 4 ye	ears		with agreed no of 3 months	tice		less than € 5,00	0		€ 5,000 and mo but less than €			€ 10,000 and m but less than €		
Reporting period 1	Average interest rate	Spread		Average interest rate	Spread		Average interest rate	Spread		Average interest rate	Spread		Average interest rate	Spread	
2000 Dec.	4.76	4.30 –	5.25	1.25	1.00 –	2.00	2.39	1.50 – 4	4.00	2.99	1.75 –	4.20	3.22	2.00 –	4.34
2001 Jan. Feb. Mar.	4.47 4.42 4.37	4.10 - 4.00 - 4.00 -	5.00 4.75 4.75	1.26 1.25 1.24	1.00 - 1.00 - 1.00 -	2.00 2.00 2.00	2.37 2.35 2.36	1.50 –	3.80 3.75 3.75	2.95 2.94 2.97	1.80 - 1.80 - 1.80 -		3.21 3.17 3.20	2.00 - 2.00 - 2.00 -	
Apr. May June	4.27 4.31 4.31	3.95 - 4.00 - 3.95 -	4.60 4.65 4.60	1.23 1.24 1.21	1.00 - 1.00 - 1.00 -	2.00 2.00 2.00	2.36 2.33 2.29	1.50 –	3.75 3.75 3.66	2.95 2.92 2.87	1.95 – 1.80 – 1.75 –	4.00 4.00 4.00	3.18 3.14 3.09	2.00 - 2.00 - 2.00 -	
July Aug. Sep.	4.26 4.16 3.99	3.90 – 3.75 – 3.60 –	4.60 4.50 4.35	1.20 1.18 1.16	1.00 - 1.00 - 1.00 -	2.00 1.75 1.75	2.26 2.20 2.11	1.50 –	3.50 3.35 3.25	2.85 2.77 2.63	1.75 – 1.75 – 1.60 –	3.75	3.07 3.02 2.88	2.00 – 2.00 – 1.85 –	4.00
Oct. Nov. Dec.	3.77 3.48 3.65	3.40 - 3.00 - 3.10 -	4.20 4.00 4.00	1.14 1.11 1.08	1.00 – 0.75 – 0.75 –	1.75 1.50 1.50	2.01 1.86 1.81		3.05 2.75 2.75	2.47 2.25 2.18	1.50 – 1.50 – 1.50 –	3.00	2.69 2.49 2.42	1.85 – 1.75 – 1.75 –	3.20
2002 Jan. O Feb. Mar.	3.73 3.90 4.07	3.25 – 3.25 – 3.30 –	4.10 4.25 4.50	1.07 1.06 1.05	0.75 – 0.75 – 0.75 –	1.50	1.78 1.78 1.79	1.25 - 2 1.25 - 2 1.25 - 2	2.70	2.15 2.14 2.14	1.50 – 1.50 – 1.50 –		2.40 2.37 2.38	1.70 – 1.60 – 1.60 –	
Apr. May June	4.15 4.15 4.12	3.30 - 3.30 - 3.30 -	4.50	1.04 1.04 1.04	0.75 – 0.75 – 0.75 –	1.50	1.78 1.79 1.78	1.25 – 2	2.60 2.60 2.50	2.15 2.16 2.15	1.50 – 1.50 – 1.50 –	2.80 2.80 2.80	2.38 2.40 2.40	1.60 – 1.75 – 1.75 –	
July Aug. Sep.	4.01 3.70 3.50	3.12 –	4.40 4.05 4.00	1.03 1.01 1.00	0.75 - 0.75 - 0.75 -	1.50	1.78 1.76 1.75		2.60 2.50 2.50	2.16 2.14 2.12	1.50 – 1.50 – 1.50 –	2.81 2.80 2.75	2.40 2.36 2.34	1.75 – 1.60 – 1.50 –	3.00 3.00 3.00
Oct. Nov. Dec.	3.38 3.35 3.23	2.85 - 2.85 - 2.75 -	4.00 3.75 3.70	0.99 0.99 0.96	0.75 - 0.75 - 0.75 -	1.50 1.50 1.50	1.71 1.69 1.63		2.50 2.50 2.50	2.10 2.07 1.97	1.40 - 1.35 - 1.25 -	2.75 2.75 2.75	2.32 2.31 2.19	1.50 – 1.50 – 1.50 –	3.00 3.00 2.95

			ntes of return ⁹ an € 25,000 (tot a			eing agreed for				
	with agreed no and a duration	otice of 3 month of contract of	s				with agreed no and a duration	otice of more that of contract of	an 3 months	
	up to and inclu	ding 1 year	more than 1 ye and including 4		more than 4 ye	ars	up to and inclu	ding 1 year	more than 4 ye	ars
Reporting period 1	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread
2000 Dec.	4.15	2.50 - 4.75	4.51	3.25 - 5.15	4.74	3.64 - 5.62	4.21	2.30 - 4.75	4.82	4.28 - 5.40
2001 Jan. Feb. Mar.	3.98 3.86 3.84	3.00 - 4.50 2.90 - 4.40 2.99 - 4.35		3.25 - 4.75 3.25 - 4.75 3.30 - 4.62	4.59 4.54 4.52	3.60 - 5.30 3.60 - 5.30 3.60 - 5.30	3.99	2.30 - 4.50 2.50 - 4.50 2.50 - 4.50	4.51 4.49 4.42	4.04 - 5.05 4.08 - 4.83 3.95 - 4.78
Apr. May June	3.71 3.74 3.67	2.90 - 4.25 3.00 - 4.25 2.80 - 4.20	3.99	3.25 - 4.50 3.25 - 4.35 3.25 - 4.30	4.47 4.50 4.48	3.60 - 5.25 3.64 - 5.22 3.64 - 5.22	3.91	2.50 - 4.50 2.60 - 4.35 2.50 - 4.25	4.33 4.36 4.35	3.95 - 4.75 3.95 - 4.75 3.90 - 4.78
July Aug. Sep.	3.64 3.52 3.32	2.80 - 4.15 2.60 - 4.00 2.40 - 3.90	3.83	3.25 - 4.45 3.20 - 4.30 2.61 - 4.25	4.48 4.42 4.32	3.64 - 5.25 3.60 - 5.40 3.36 - 5.42	3.68	2.50 - 4.05 2.50 - 4.00 2.50 - 3.65	4.33 4.22 4.06	3.90 - 4.75 3.84 - 4.73 3.72 - 4.73
Oct. Nov. Dec.	2.94 2.64 2.63	2.25 - 3.45 2.00 - 3.25 1.75 - 3.10		2.60 - 3.88 2.48 - 3.50 2.48 - 4.00	4.17 4.01 3.98	3.00 - 5.40 2.66 - 5.40 2.88 - 5.40	2.75	2.50 - 3.50 2.00 - 3.50 2.20 - 3.20	3.85 3.53 3.63	3.50 - 4.50 2.93 - 4.30 3.00 - 4.30
2002 Jan. • Feb. Mar.	2.67 2.76 2.84	2.00 - 3.10 2.00 - 3.25 2.10 - 3.30	3.32	2.50 - 4.25 2.60 - 4.00 2.50 - 4.25	3.98 4.07 4.15	2.91 - 5.08 2.91 - 5.13 3.13 - 5.13	2.91	2.00 - 3.20 2.20 - 3.50 2.40 - 3.50	3.74 3.84 3.96	3.25 - 4.25 3.25 - 4.20 3.25 - 4.40
Apr. May June	2.89 2.91 2.93	2.10 - 3.40 2.10 - 3.40 2.10 - 3.40	3.48	2.25 - 4.25 2.50 - 4.25 2.25 - 4.25	4.17 4.20 4.21	2.91 - 5.13 2.91 - 5.13 2.91 - 5.15	3.08	2.50 - 3.70 2.20 - 4.00 2.20 - 4.00	3.97 3.98 3.97	3.25 - 4.44 3.25 - 4.50 3.10 - 4.50
July Aug. Sep.	2.89 2.73 2.61	2.10 - 3.30 2.00 - 3.25 1.90 - 3.20	3.19	2.25 - 4.10 2.25 - 4.00 2.42 - 3.80	4.14 4.02 3.90	2.91 - 5.08 2.91 - 5.02 2.90 - 5.02	2.94	2.50 - 3.50 2.45 - 3.50 2.25 - 3.25	3.90 3.68 3.54	3.15 - 4.29 2.85 - 4.21 3.00 - 4.04
Oct. Nov. Dec.	2.53 2.46 2.34	1.95 - 3.25 1.75 - 3.00 1.75 - 2.80	2.84	2.12 - 3.50 2.08 - 3.44 2.08 - 3.44	3.84 3.80 3.68	2.75 - 5.08 2.75 - 5.08 2.50 - 4.82	2.55	2.25 - 3.00 2.15 - 3.00 1.95 - 3.00	3.43 3.41 3.30	2.70 - 4.04 2.75 - 4.00 2.75 - 3.75

For footnotes *, o, 1 to 5 see page 45*; for footnotes 6 and 7 see page 46*. — 8 Only a minimum rate of return is granted, but no premium or bonus. — 9 An interest rate above the minimum rate of return and/or a pre-

mium or a bonus is granted. — $\bf 10$ Rate of return which is paid when savings plans are held until maturity or when savings objectives have been achieved.

Period

VII. Capital market

1. Sales and purchases of debt securities and shares in Germany *)

Debt securities	s											
	Sales						Purchases					
	Domestic deb	ot securities 1					Residents					
Sales = total pur- chases	Total	Bank debt securities	Indus- trial bonds		Public debt secur- ities 2	Foreign debt secur- ities 3	Total 4	Credit in- stitutions including building and loan assc. 5	Non- banks ⁶	Bundes- bank open market oper- ations 5		Non- residents ⁷
DM million												
244,827 231,965 291,762 395,110 303,339 227,099 254,359 332,655 418,841 € million	220,340 219,346 284,054 382,571 276,058 203,029 233,519 250,688 308,201	136,799 131,670 106,857 151,812 117,185 162,538 191,341 184,911 254,367	- - -	67 667 175 200 65 350 649 1,563 3,143	83,609 87,011 177,376 230,560 158,939 40,839 41,529 64,214 50,691	24,487 12,619 7,708 12,539 27,281 24,070 20,840 81,967 110,640	225,066 173,099 170,873 183,195 279,989 141,282 148,250 204,378 245,802	91,833 45,095 132,236 164,436 126,808 49,193 117,352 144,177 203,342	133,266 127,310 37,368 20,095 154,738 94,409 31,751 60,201 42,460	-	33 694 1,269 1,336 1,557 2,320 853 –	58,866 120,887 211,915 23,349
							I		I			I
292,727	198,068	156,399		2,184	39,485	94,659	155,808	74,728	81,080		-	136,920
229,167 180,377	157,994 86,656	120,154 55,918		12,605 14,473	25,234 16,262	71,173 93,721	156,532 140,648	91,447 35,848	65,085 104,800		-	72,635 39,729
2,376 36,007	3,273 31,748	- 2,661 22,228		806 2,569	5,128 6,951	- 897 4,259	- 2,280 26,516	- 5,920 4,303	3,640 22,213		-	4,656 9,491
4,453 35,022	2,865 25,770	- 4,326 9,937		3,035 561	4,157 15,272	1,588 9,252	6,338 33,313		16,012 15,936		-	– 1,885 1,709

	Shares						
		Sales		Purchases			
	Sales			Residents			
	total purchases	Domestic shares 8	Foreign shares 9	Total 10	Credit insti- tutions 5 11	Non-banks 6	Non- residents 12
Period	DM million						
1990	50,070		22,048	52,631	7,215	45,416	
1991	33,478		20,161	32,247	2,466	29,781	1,230
1992	32,595		15,370	40,651	2,984	37,667	- 8,055
1993 1994	39,355 55,125	19,512 29,160	19,843 25,966	30,871 54,466	4,133 1,622	26,738 52,844	8,485 659
			· .	•			
1995	46,422	23,600	22,822	49,354	11,945	37,409	_ 2,931
1996	72,491	34,212	38,280	55,962	12,627	43,335	16,529
1997	119,522	22,239	97,280	96,844	8,547	88,297	22,677
1998	249,504	48,796	200,708	149,151	20,252	128,899	100,352
	€ million						
1999	149,980	36,010	113,969	103,487	18,637	84,850	46,493
2000	138,535	22,733	115,802	156,274	23,293	132,981	_ 17,738
2001	80,107	17,575	62,532	- 6,663	- 14,714	8,051	86,769
2002 Aug.	1,828	255	_ 2,083	- 1,194	439	_ 1,633	- 634
Sep.	4,275	706	- 2,003 - 4,981	- 4,063	- 3,644	– 1,033 – 419	212
· ·			·	_	·		
Oct. Nov.	3,107 – 81	573 264	2,534 – 345	2,286 – 1,275	1,285 – 1,823	1,001 548	821 1,194
NOV.	1 – 81	204	345	- 1,2/5	1,023	346	1,1941

^{*} Until the end of 1999, debt securities comprise the bonds and money * Until the end of 1999, debt securities comprise the bonds and money market paper of domestic banks, from January 2000 all fixed-interest securities. Investment fund certificates see Table VII.6. — 1 Net sales at market values plus/less changes in issuers' portfolios of their own debt securities. — 2 Including Federal Railways Fund, Federal Post Office and Treuhand agency. — 3 Net purchases or net sales (-) of foreign debt securities by residents; transaction values. — 4 Domestic and foreign debt securities. — 5 Book values; statistically adjusted. — 6 Residual; also including purchases of domestic and foreign securities by domestic invest-

ment funds. — 7 Net purchases or net sales (-) of domestic debt securities by ment funds. — 7 Net purchases or net sales (–) of domestic debt securities by non-residents; transaction values. — 8 At issue prices. — 9 Net purchases or net sales (–) of foreign shares (including direct investment) by residents; transaction values. — 10 Domestic and foreign shares. — 11 Up to the end of 1998, excluding shares under syndicate agreement. — 12 Net purchases or net sales (–) of domestic shares (including direct investment) – before 1989 also including domestic investment fund certificates – by non-residents; transaction values. — The figures for the latest data are to be regarded as provisional; corrections are not specially marked.

VII. Capital market

2. Sales of debt securities issued by borrowers domiciled in Germany *)

Until the end of 1998 DM nominal million value, from 1999 € million nominal value

	Official case and of	1996 DIVI HOHIIIai	minion value, noi	11 1999 € 1111110111	ioninal value				
		Bank debt securit	ties 1						Memo item: Foreign DM/euro
			Mortgage	Communal	Debt securities				Foreign DM/euro bonds issued
			bonds	bonds	issued by spe-				by German-
Period	Total	All bank debt securities	(Hypotheken- pfandbriefe)	(Öffentliche Pfandbriefe)	cialised credit institutions	Other bank debt securities	Industrial bonds 2	Public debt securities 3	managed syndicates
	Gross sales 4								
1990	428.698	286,709	14.923	70,701	l 89.755	111,326	I -	141,990	35,168
1991	428,698 442,089	292,092	14,923 19,478	91,489	89,755 80,738	100,386	707	149,288	32,832
1992 1993	572,767 733,126	318,522 434,829	33,633 49,691	134,363 218,496	49,195 34,028	101,333 132,616	- 457	254,244 297,841	57,282 87,309
1994	627,331	412,585	44,913	150,115	39,807	177,750	486	214,261	61,465
1995	620,120	470,583	43,287	208,844	41,571	176,877	200	149,338	102,719
1996 1997	731,992 846,567	563,076 621,683	41,439 53,168	246,546 276,755	53,508 54,829	221,582 236,933	1,742 1,915	167,173 222,972	112,370 114,813
1998	1,030,827	789,035	71,371	344,609	72,140	300,920	3,392	238,400	149,542
	€ million								
1999	571,269	448,216	27,597	187,661	59,760	173,200	2,570	120,483	57,202
2000	659,148	500,895	34,528	143,107	94,556	228,703	8,114	150,137	31,597
2001	687,988	505,646	34,782	112,594	106,166	252,103	11,328	171,012	10,605
2002 July Aug.	74,794 54,522	44,289 36,213	2,111 1,776	8,271 6,771	12,101 8,161	21,806 19,506	1,861 608	28,645 17,701	-
Sep.	74,271	57,798	4,810	12,010	10,889	30,090	1,617	14,856] []
Oct.	70,276	46,917	2,606	10,905	10,711	22,694	697	22,663	500
Nov.	83,424	59,197	3,362	10,096	14,294	31,446	353	23,874	-
	of which: De	ebt securities	with a matur	ity of over 4	years 5				
1990	272,642	133,347	10,904	43,250	26,767	52,425	-	139,295	29,791
1991 1992	303,326 430,479	172,171 211,775	11,911 28,594	65,642 99,627	54,878 40,267	39,741 43,286	707	130,448 218,703	22,772 51,939
1993	571,533	296,779	43,365	160,055	26,431	66,923	230	274,524	82,049
1994	429,369	244,806	36,397	109,732	29,168	69,508	306	184,255	53,351
1995 1996	409,469	271,763 322,720	30,454 27,901	141,629 167,811	28,711 35,522	70,972 91,487	200 1,702	137,503 149,139	85,221
1997	473,560 563,333	380,470	41,189	211,007	41,053	87,220	1,702	181,047	92,582 98,413
1998	694,414	496,444	59,893	288,619	54,385	93,551	2,847	195,122	139,645
	€ million								
1999	324,888	226,993	16,715	124,067	37,778	48,435	2,565	95,331	44,013
2000	319,330	209,187	20,724	102,664	25,753	60,049	6,727	103,418	27,008
2001	299,751	202,337	16,619	76,341	42,277	67,099	7,479	89,933	6,480
2002 July Aug.	27,850 21,973	10,367 10,660	235 667	2,738 3,468	3,490 1,468	3,903 5,057	1,490 153	15,994 11,159	-
Sep.	30,255	25,604	1,978	6,395	2,610	14,622	1,555	3,096	-
Oct.	24,393	14,004	866	4,894	3,218	5,026	534	9,856	500
Nov.	32,633	13,389	527	5,950	3,539	3,372	290	18,954	-
	Net sales 6								
1990 1991	226,707 227,822	140,327 139,396	- 3,922 4,729	- 72 22,290	73,287 65,985	71,036 46,390	- 67 558	86,449 87,868	21,717 18,583
1991	304,751	115,786	13,104	58,235	19,585	24,864		189,142	34,114
1993	403,212	159,982	22,496	122,917		27,721	180	243,049	43,701
1994 1995	270,088	116,519	18,184	54,316		50,914		153,630	21,634
1995	205,482 238,427	173,797 195,058	18,260 11,909	96,125 121,929	3,072 6,020	56,342 55,199	– 354 585	32,039 42,788	61,020 69,951
1997	257,521	188,525	16,471	115,970	12,476	43,607	1,560	67,437	63,181
1998	327,991	264,627	22,538	162,519	18,461	61,111	3,118	60,243	84,308
4000	€ million								
1999	209,096	170,069	2,845	80,230	31,754	55,238	2,185	36,840	22,728
2000 2001	155,615 84,122	122,774 60,905	5,937 6,932	29,999 - 9,254	30,089 28,808	56,751 34,416	7,320 8,739	25,522 14,479	
2002 July	16,041	2,735	- 66	- 4,844	5,502	2,144	1,733	11,572	_ 2,457
Aug.	5,853	- 423	- 813	- 1,785 2,906	362	1,813	557	5,719 7,999	- 3,436
Sep. Oct.	33,336 - 2,230	23,775 - 5,555	2,762 - 970			20,762 - 1,187	1,562 502		
Nov.	2,230 20,206				1,864 5,774			2,823 10,184	- 2,873 - 5,686

^{*} For definitions see the notes in the Statistical Supplement to the Monthly Report 2, Capital market statistics. — 1 Excluding registered bank debt securities. — 2 Debt securities of enterprises. — 3 Including Federal Railways

Fund, Federal Post Office and Treuhand agency. — 4 Gross sales means only initial sales of newly issued securities. — 5 Maximum maturity according to the terms of issue. — 6 Gross sales less redemptions.

VII. Capital market

3. Outstanding amount of debt securities issued by borrowers domiciled in Germany *

Until the end of 1998 DM million nominal value, from 1999 ${\it \in }$ million nominal value

		Bank debt securi	ties 1						Memo item:
End of year or month	Total	All bank debt securities	Mortgage bonds (Hypotheken- pfandbriefe)	Communal bonds (Öffentliche Pfandbriefe)	Debt securities of specialised credit institutions	Other bank	Industrial bonds	Public debt securities	Foreign DM/euro bonds issued by German- managed syndicates
or month	DM million	uebt securities	pranabiletey	r tariabricie)	create institutions	debt securities	bolius	debt securities	syndicates
1990 1991 1992 1993 1994 1995 1996 1997 1998	1,458,943 1,686,765 1,991,515 2,394,728 2,664,814 2,870,295 3,108,724 3,366,245 3,694,234	900,977 1,040,374 1,156,162 1,316,142 1,432,661 1,606,459 1,801,517 1,990,041 2,254,668	138,025 142,757 155,862 178,357 196,541 214,803 226,711 243,183 265,721	369,901 392,190 450,424 573,341 627,657 723,781 845,710 961,679 1,124,198	155,045 221,031 240,616 227,463 219,214 222,286 228,306 240,782 259,243	238,005 284,396 309,259 336,981 389,249 445,589 500,790 544,397 605,507	2,604 3,161 2,983 3,163 3,101 2,746 3,331 4,891 8,009	555,362 643,230 832,370 1,075,422 1,229,053 1,261,090 1,303,877 1,371,313 1,431,558	223,176 241,760 275,873 319,575 341,210 402,229 472,180 535,359 619,668
1550	€ million	2,234,000	203,721	1,124,130	233,243	003,307	0,003	1,431,330	015,000
			I			ı	Γ	I	
1999	2,097,926	1,322,863	134,814	655,024	163,284	369,741	6,280	768,783	339,560
2000 2001	2,265,121 2,349,243	1,445,736 1,506,640	140,751 147,684	685,122 675,868	157,374 201,721	462,488 481,366	13,599 22,339	805,786 820,264	322,856 292,199
2002 Sep.	2,501,644	1,582,403	157,925	664,958	217,726	541,795	36,173	883,068	259,197
Oct. Nov.	2,499,415 2,519,621	1,576,848 1,587,523	156,954 155,037	659,697 658,680	219,590 225,364	540,607 548,442	36,676 36,023		256,325 250,639
	Breakdown	by remainin	g period to n	naturity 2		Position a	t end- Noven	nber 2002	
Maturity in years				· ·					
less than 2 2 to less than 4 4 to less than 6 6 to less than 8 8 to less than 10 10 to less than 15 15 to less than 20 20 and more	942,250 591,898 389,488 250,300 189,091 40,945 18,646 97,003	643,066 418,966 241,343 146,615 70,898 31,832 12,970 21,834	61,736 37,536 30,744 15,141 9,328 543 9	242,414 187,632 120,444 71,586 22,073 10,655 2,166 1,711	65,348 68,211 31,877 22,304 15,542 6,934 6,464 8,684	273,568 125,587 58,278 37,585 23,955 13,700 4,331 11,439	4,454 13,333 7,459 3,145 6,283 545 522 284	294,729 159,600 140,687 100,541 111,910 8,568 5,154 74,885	86,855 51,508 54,334 35,044 8,707 8,335 2,384 3,472

^{*} Including debt securities temporarily held in the issuers' portfolios. — 1 Excluding debt securities handed to the trustee for temporary safe custody. — 2 Calculated from month under review until final maturity for

debt securities falling due en bloc and until mean maturity of the residual amount outstanding for debt securities not falling due en bloc.

4. Circulation of shares issued by residents of Germany

Until the end of 1998 DM million nominal value, from 1999 \in million nominal value

				Change in domes	stic public limited	companies' capita	l due to					
Period	end o		Net increase or net decrease(-) during period under review	cash payment and exchange of convertible bonds 1	issue of bonus shares	contribution of claims and other real assets	contribution of shares, mining shares, GmbH shares, etc.	merger and trans of assets		change of legal form	reductio of capita and liqu	ii
	DM r	nillion										
1990 1991 1992 1993 1994 • 1995 1996 1997 1998	2	144,686 151,618 160,813 168,005 190,012 211,231 216,461 221,575 238,156	9,198 7,190 14,237 21,217 7,131 5,115	7,362 3,656 4,295 5,224 6,114 5,894 8,353 4,164 6,086	751 610 728 772 1,446 1,498 1,355 2,752 2,752	1,743 387 1,521 1,421 396 370	407 1,073 876 1,883 1,421 1,684 1,767	- - - - -	43 182 732 10 447 623 3,056 2,423 4,055	1,284 411 3,030 707 5,086 13,739 833 197 3,905	- - - -	1,466 386 942 783 1,367 2,133 2,432 1,678 1,188
	€ mil	lion										
1999		133,513	11,747	5,519	2,008	190	1,075		2,099	1,560	_	708
2000 2001		147,629 166,187	14,115 18,561	3,620 7,987	3,694 4,057	618 1,106	8,089 8,448	-	1,986 1,018	1,827 – 905	-	1,745 3,152
2002 Sep.		168,246	- 270	316	170	24	451	-	941	19	-	310
Oct. Nov.		168,558 168,910		285 150	76 20	4 35	3 231		329 24	- 348 24	_	39 130

o From January 1994 including the shares of east German companies (resultant increase in share circulation: DM 7,771 million). — $\bf 1$ Including

share issues out of company profits. — ${\bf 2}$ Figure reduced by DM 1,902 million owing to revisions.

VII. Capital market

5. Yields and indices on German securities

Period

2000 2001 2002

2002 Aug. Sep.

Oct. Nov. Dec.

Yields o	n bond	ls outstand	ling issued b	y residents 1					Price indices	2,3		
	Pul	blic bonds			Bank debt s	ecurities			Bonds		Shares	
			Listed Federal seco	urities				Memo item: Foreign DM/euro bonds				
Total	Tot	tal	Total	With re- sidual matur- ities of over 9 to 10 years 4	Total	With re- sidual matur- ities of over 9 to 10 years	Industrial bonds	issued by German- managed syndicates 1,5	German bond index (REX)	iBoxx- €-Germany- price index		German share index (DAX)
% p.a.									Average daily rate	End- 1998=100	End- 1987=100	End- 1987=1000
	8.9 8.7 8.1 6.4 6.7	8.8 8.6 8.0 6.3 6.7	8.8 8.6 8.0 6.3 6.7	8.7 8.5 7.8 6.5 6.9	9.0 8.9 8.3 6.5 6.8	8.9 8.6 8.1 6.8 7.2	9.0 8.9 8.7 6.9 7.0	9.2 9.2 8.8 6.8 6.9	93.50 96.35 101.54 109.36 99.90		145.00 148.16 134.92 191.13 176.87	1,398.23 1,577.98 1,545.05 2,266.68 2,106.58
	6.5 5.6 5.1 4.5 4.3	6.5 5.6 5.1 4.4 4.3	6.5 5.6 5.1 4.4 4.3	6.9 6.2 5.6 4.6 4.5	6.5 5.5 5.0 4.5 4.3	7.2 6.4 5.9 4.9 4.9	6.9 5.8 5.2 5.0 5.0	6.8 5.8 5.5 5.3 5.4	109.18 110.37 111.01 118.18 110.60	100.00 92.52	181.47 217.47 301.47 343.64 445.95	2,253.88 2,888.69 4,249.69 5,002.39 6,958.14
	5.4 4.8 4.7	5.3 4.7 4.6	5.2 4.7 4.6	5.3 4.8 4.8	5.6 4.9 4.7	5.8 5.3 5.1	6.2 5.9 6.0	6.3 6.2 5.6	112.48 113.12 117.56	94.11 94.16 97.80	396.59 319.38 188.46	6,433.61 5,160.10 2,892.63
	4.5 4.2	4.4 4.2	4.4 4.2	4.6 4.4	4.5 4.3	4.9 4.7	5.8 5.9	5.6 5.3	115.02 116.61	95.79 97.31	238.16 181.34	3,712.94 2,769.03
	4.3 4.2 4.1	4.2 4.2 4.1	4.2 4.2 4.1	4.5 4.5 4.3	4.3 4.2 4.1	4.8 4.8 4.6	6.0 6.1 5.9	5.3 5.1 4.9	115.60 115.65 117.56	96.27 96.30 97.80	204.83 214.18 188.46	3,152.85 3,320.32 2,892.63

¹ Bearer debt securities with maximum maturities according to the terms of I searer debt securities with maximum maturities according to the terms of issue of over 4 years, if their mean residual maturities exceed 3 years. Convertible debt securities, etc., debt securities with unscheduled redemption, zero-coupon bonds, floating-rate notes and bonds not denominated in DM or euros are not included. Group yields for the various categories of securities are weighted with the amounts outstanding of the debt securities

included in the calculation. Monthly figures are calculated on the basis of the yields on all the business days of a month. The annual figures are the unweighted means of the monthly figures. — 2 End of year or month. — 3 Source: German Stock Exchange plc. — 4 Only bonds eligible as underlying instruments for futures contracts are included; calculated as unweighted averages. — 5 As far as quoted on German stock exchanges.

6. Sales and purchases of investment fund certificates in Germany

		Sales of in	vestment fu	ınd certifica	ites				Purchases					
		Domestic 1	unds (sales	receipts)					Residents					
			Investmen general pu	t funds ope ıblic	n to the					Credit instit including bi and loanass	uilding	Non-banks	. 2	
				of which						una rounass	of which	TTOTT BUTTE	of which	1 1
	Sales = total			Money	Secur- ities-	Open- end real	Special- ised invest-				Foreign invest- ment		Foreign invest- ment	
	pur- chases	Total	Total	market funds	based funds	estate funds	ment funds	Foreign funds 3	Total	Total	fund cer- tificates		fund cer- tificates	Non-resi- dents 4
Period	DM million													
1990 1991 1992 1993 1994	25,788 50,064 81,514 80,259 130,995	26,857 37,492 20,474 61,672 108,914	7,904 13,738 - 3,102 20,791 63,263	- - - 31,180	8,032 11,599 - 9,189 6,075 24,385	- 128 2,144 6,087 14,716 7,698	18,952 23,754 23,575 40,881 45,650	- 1,069 12,572 61,040 18,587 22,081	25,766 49,890 81,518 76,258 125,943	4,296 8,594 10,495 16,982 9,849	- 5 2,152 2,476	21,470 41,296 71,023 59,276 116,094	- 707 12,577 58,888 16,111 22,770	22 174 - 4 4,001 5,052
1995 1996 1997 1998	55,246 83,386 145,805 187,641	54,071 79,110 138,945 169,748	16,777 16,517 31,501 38,998	6,147 - 4,706 - 5,001 5,772	3,709 7,273 30,066 27,814	6,921 13,950 6,436 4,690	37,294 62,592 107,445 130,750	1,175 4,276 6,860 17,893	56,295 85,704 149,977 190,416	12,172 19,924 35,924 43,937	188 1,685 340 961	44,123 65,780 114,053 146,479	987 2,591 6,520 16,507	- 1,049 - 2,318 - 4,172 - 2,775
	€ million													
1999	111,253	97,197	37,684	3,347	23,269	7,395	59,513	14,056	105,492	19,862		85,630	14,693	
2000 2001	117,688 95,937	85,160 76,811	39,712 35,522	- 2,188 12,410	36,818 9,195	- 2,824 10,159	45,448 41,289	32,528 19,126	106,749 94,815	14,454 10,251	92 2,703	92,295 84,564	32,436 16,423	10,939 1,122
2002 Aug. Sep.	6,977 3,120	5,804 2,690	2,507 360	1,049 140	661 - 468	869 819	3,298 2,330	1,173 430	5,712 3,677	100 - 1,263	236 - 160	5,612 4,940	937 590	1,265 - 557
Oct. Nov.	7,247 5,524	6,140 4,786	740 2,402	602 - 92	- 603 1,916	888 597	5,399 2,385	1,107 738	7,328 5,485	456 3,526	– 131 278	6,872 1,959	1,238 460	

¹ Book values. — 2 Residual. — 3 Net purchases or net sales (–) of foreign investment fund certificates by residents; transaction values. — 4 Net purchases or net sales (–) of domestic investment fund certificates by

non-residents; transaction values (before 1989 classified as shares). — The figures for the latest data are to be regarded as provisional; corrections are not specially marked.

VIII. Public finance in Germany

1. Finances of the public sector *

Up to the end of 1998, DM billion / from 1999, € billion

	Central, re	gional an	d local aut	horities 1							Social secu	urity funds	, 2	Public sec	tor, total	
	Receipts		Expenditu	ıre												
				of which												
Period	Total	of which Taxes ³	Total 4	Person- nel ex- pend- iture	10.0	Current grants	Interest paid	forma-	Finan- cial aid ⁵	Balance of receipts and expend- iture	Re- ceipts 6	Ex- pend- iture	Balance of receipts and expend- iture	Re- ceipts	Ex- pend- iture	Balance of receipts and expend- iture
1992	904.1	731.7	1,013.9	285.7	134.0	304.8	100.6	101.1	86.1	-109.8	609.1	617.4	- 8.3	1,436.0	1,554.2	-118.1
1993	928.7	749.1	1,060.2	296.8	136.0	340.5	102.1	97.0	87.3	-131.5	660.8	658.7	+ 2.1	1,492.1	1,621.5	-129.4
1994	995.2	786.2	1,102.2	315.5	137.3	353.4	114.0	93.2	86.5	-106.9	694.1	693.7	+ 0.4	1,596.4	1,702.9	-106.5
1995	1,026.4	814.2	1,136.4	324.8	135.5	367.2	129.0	90.1	86.3	-110.1	731.2	743.8	- 12.5	1,664.9	1,787.5	- 122.6
1996	1,000.3	800.0	1,121.8	326.2	137.0	362.2	130.7	83.9	80.1	-121.5	769.4	784.0	- 14.6	1,665.6	1,801.6	- 136.1
1997	1,014.3	797.2	1,108.9	325.0	135.7	356.3	132.1	80.1	79.2	- 94.5	797.3	794.5	+ 2.9	1,705.3	1,797.0	- 91.7
1998	1,072.1	833.0	1,128.8	325.4	137.4	373.7	133.7	79.7	79.8	- 56.7	812.2	808.9	+ 3.3	1,765.5	1,818.9	- 53.4
1999 p	566.0	453.1	592.9	168.7	72.4	202.7	69.8	40.8	38.0	- 27.0	429.1	425.7	+ 3.5	925.1	948.6	- 23.5
2000 pe	613.3	467.3	594.8	169.0	73.7	205.5	67.6	40.8	38.0	+ 18.5	434.0	434.1	- 0.1	975.7	957.3	+ 18.4
2001 pe	553.5	446.2	601.8	169.8	70.1	213.6	66.6	40.9	39.5	- 48.3	444.2	448.4	- 4.2	920.4	972.9	- 52.5
2001 1st qtr 7	126.7	105.1	147.8	39.5	16.4	55.5	22.0	6.5	7.8	- 21.1	108.8	109.7	- 0.9	213.5	235.5	- 22.0
2nd qtr	139.4	110.9	136.7	39.3	15.8	54.0	12.6	8.0	6.4	+ 2.6	110.1	111.8	- 1.7	229.6	228.7	+ 0.9
3rd qtr	136.3	109.5	146.2	40.1	15.6	52.2	19.0	10.0	9.3	- 9.9	109.6	111.9	- 2.3	227.4	239.5	- 12.2
4th qtr P	149.3	121.3	167.7	49.5	21.8	52.4	12.7	14.5	16.0	- 18.4	115.1	114.5	+ 0.6	248.3	266.1	- 17.8
2002 1st qtr	118.3	98.6	150.2	39.9	15.3	57.9	24.0	6.5	6.0	- 31.8	111.3	112.8	- 1.5	206.4	239.8	- 33.4
2nd qtr	137.8	105.1	141.8	40.4	15.6	58.5	11.9	7.8	6.7	- 4.0	113.0	115.6	- 2.6	228.9	235.6	- 6.6
3rd qtr P	135.3	109.4	148.7	41.4	16.5	54.7	19.2	9.7	7.8	- 13.4	113.1	116.6	- 3.5	228.0	244.9	- 16.9

Source: Bundesbank calculations based on data from the Federal Statistical Office. — * The budgetary definition used here differs from the methods employed for the government account of the national accounts and, in case of the quarterly figures, in some respects also from the financial statistics. — 1 Incl. subsidiary budgets. The quarterly figures, unlike the annual figures based on the annual accounts statistics of the Federal Statistical Office, do not include municipal special-purpose associations and various special accounts. For the receipts of Bundesbank profit see footnote 1 to Table VIII. 2. — 2 The annual figures differ from the sum of the quarterly figures, as the latter are all provisional. The quarterly figures for some fields of

insurance are estimated. — 3 The tax revenue shown here is taken from the budget statistics and may differ from the data given in Table VIII. 4, which are based on the tax statistics. — 4 Including discrepancies in clearing transactions between the central, regional and local authorities. — 5 Expenditure on investment grants, loans and acquisition of participating interests. — 6 Including Federal Government liquidity assistance to the Federal Labour Office. — 7 Owing to modifications of the system of classification, especially shifts between Other operating expenditure and Current grants.

2. Finances of the Federal Government, Länder Governments and local authorities *

Up to the end of 1998, DM billion / from 1999, $\ensuremath{\mathfrak{e}}$ billion

	Federal Govern	ment	Länder Governr	ments			Local authoritie	es		
			Western 2, 3		Eastern 3		Western 3		Eastern 3	
Period	Receipts 1	Expenditure	Receipts	Expenditure	Receipts	Expenditure	Receipts	Expenditure	Receipts	Expenditure
1992	398.4	431.7	318.2	336.3	73.0	86.0	212.6	221.6	50.3	57.5
1993	401.6	462.5	326.5	352.8	76.4	92.5	222.5	230.9	54.4	59.0
1994	439.6	478.9	328.8	357.0	79.3	95.9	228.9	235.1	53.9	59.2
1995	439.3	489.9	338.6	370.2	88.4	101.5	225.6	237.9	58.7	60.8
1996	411.9	490.4	344.8	379.7	93.7	105.5	227.7	232.9	55.0	57.7
1997	416.8	480.3	349.2	376.5	94.3	105.2	222.9	226.9	52.6	54.2
1998	439.0	495.6	360.5	380.3	96.4	104.7	231.4	226.3	51.5	52.4
1999 p	240.3	266.5	191.6	196.6	50.0	53.3	119.8	117.5	26.1	26.3
2000 4, pe	291.4	264.6	195.6	200.4	50.5	53.9	121.4	119.9	25.6	25.6
2001 pe	240.0	261.0	183.9	207.8	49.4	53.2	119.2	123.4	24.8	25.4
2001 1st qtr	50.8	66.4	44.8	49.8	12.0	11.6	25.5	28.8	5.2	5.5
2nd qtr	57.6	59.9	46.3	47.5	11.5	11.8	28.8	28.1	5.8	5.8
3rd qtr	62.3	66.3	44.6	49.4	11.7	12.5	29.6	29.9	6.1	6.2
4th qtr P	69.1	68.3	47.5	60.3	14.1	16.3	35.4	36.0	7.5	7.7
2002 1st qtr	47.4	68.9	42.4	49.4	10.2	12.0	24.7	29.1	5.2	5.4
2nd qtr	56.3	62.6	43.3	48.8	11.1	11.9	28.8	29.1	5.9	5.8
3rd qtr P	62.7	70.6	45.3	49.3	11.8	12.9	29.1	30.5	6.1	6.2

Source: Bundesbank calculations based on data from the Federal Statistical Office. — * See corresponding footnote to Table VIII. 1. — 1 The Bundesbank profit transfer is shown in full until 1994; from 1995 only the DM 7 billion scheduled in the budget is shown. Since that time, receipts over and above the scheduled amount accrue directly to the Redemption

Fund for Inherited Liabilities. — 2 Including Berlin, Bremen, Hamburg. Including Berlin (East). — 3 The quarterly figures, unlike the annual figures based on the annual accounts statistics of the Federal Statistical Office, do not include various special accounts. — 4 Including receipts from the UMTS licence auctions.

VIII. Public finance in Germany

3. Finances of the Government in the national accounts *

Up to the end of 1998, DM billion / from 1999, € billion

ltem	1995 1	1996	1997	1998	1999	2000 2	2001 pe	2002 pe
Receipts	1,647.8	1,704.0	1,726.8	1,775.9	943.4	963.7	951.5	953.2
of which								
Taxes	825.8	850.0	856.9	897.4	490.4	511.7	488.3	486.7
Social security contributions	662.5	696.7	720.1	727.7	375.7	378.5	383.6	388.4
Expenditure	1,764.9	1,826.6	1,826.5	1,859.6	973.2	991.8	1,009.0	1,030.4
of which								
Intermediate input	143.2	142.7	140.2	144.1	76.9	78.5	81.6	84.1
Employee compensation	315.9	319.6	319.0	319.3	165.4	165.6	164.9	166.0
Interest	128.9	131.7	133.2	136.4	68.8	68.2	67.8	67.9
Social security benefits 3	902.8	970.7	984.7	998.4	523.1	534.7	548.1	572.2
Gross capital formation	80.5	76.4	69.4	69.9	37.8	37.0	35.8	33.6
Financial balance	- 117.1	- 122.7	- 99.7	- 83.7	- 29.7	- 28.0	- 57.5	- 77.2
as a percentage of the gross domestic product	- 3.3	- 3.4	- 2.7	- 2.2	- 1.5	- 1.4	- 2.8	- 3.7
Memo item								
Deficit of the Treuhand agency								
Debt as defined in								
Maastricht Treaty								
as a percentage of the gross								
domestic product	57.1	59.8	61.0	60.9	61.2	60.2	59.5	

Source: Federal Statistical Office. — * Figures according to ESA 95. Notwithstanding the figures shown by the Federal Statistical Office, calculated including – with no impact on the balance – customs duties, the EU share in VAT revenue and EU subsidies. — 1 Adjusted for the balance of notional capital transfers between the public sector and the corporate sector, mainly in connection with the winding-up of the Treuhand agency.

In unadjusted terms, the deficit amounted to 9.8% of GDP. — 2 Adjusted for receipts from UMTS licence auctions. In the accounts of the Federal Statistical Office, such receipts (50.85 \in billion) are recorded under "net increase in non-produced assets", with the result that government spending is lower and a surplus (22.8 \in billion or 1.1% of GDP) is shown. — 3 Monetary social security benefits and social benefits in kind.

4. Tax revenue of the central, regional and local authorities

Up to the end of 1998, DM million / from 1999, € million

		Federal and Lände	er Governments and	d European Union			Local authorities	; 4		
				Länder Governme	nts				<u>.</u>	.
Period	Total	Total 1	Federal Government 2	Total	of which New Länder	European Union 3	Total	of which in the New Länder	Balance of untransfer tax shares	red
1991 1992 1993	661,920 731,738 749,119	638,423 653,015	356,849 360,250	224,321 247,372 256,131	19,139 23,807 27,542	31,495 34,203 36,634	84,633 93,374 95,809	2,540 4,034 5,863	- +	137 58 295
1994 1995 1996 1997 1998	786,162 814,190 799,998 797,154 833,013	706,071 700,739	386,145 390,807 372,390 368,244 379,491	261,947 288,520 294,232 290,771 306,127	32,052	40,692 40,005 39,449 41,724 42,271	97,116 94,498 94,641 96,531 104,960	7,677 8,460 7,175 7,703 8,841	-	359 714 117 164
1999 2000 2001	453,068 467,253 446,248	396,734 410,117 392,189	211,727 219,034 213,342	164,724 169,249 159,115		20,284 21,833 19,732	56,333 57,241 54,047	4,810 4,895 4,590	_	1 104 12
2002 2nd qtr 3rd qtr P	104,433 109,260	91,656 96,068	48,960 54,091	37,171 38,718		5,525 3,259	12,255 12,964	1,131 	+ +	522 228
2002 July Aug. Sep.		31,119 29,448 35,501	17,755 17,200 19,136	12,676 11,273 14,769		688 976 1,595				
Oct. p Nov. p		29,706 26,838	16,364 14,569	11,752 10,667		1,590 1,602				

Source: Federal Ministry of Finance. — 1 Including receipts from the Equalisation of Burdens levies. — 2 Before deduction of supplementary Federal grants and shares in the revenue of mineral oil tax remitted to the Länder Governments. — 3 Including the (GNP-related) receipts accruing to the EU from 1988 to the detriment of the Federal Government's tax

revenue. — 4 Including local authority taxes of Berlin, Bremen and Hamburg. — 5 Difference between the local authorities' share in the income taxes received by the Länder cash offices in the period in question (see Table VIII. 5) and the amounts passed on to the local authorities during the same period.

VIII. Public finance in Germany

5. Tax revenue, by type

Up to the end of 1998, DM million / from 1999, € million

		Joint taxes								Memo				
		Income taxe	₅ 2				Turnover ta	xes 5, 6						item Local
Period	Total 1	Total		As- sessed income tax	Corpora- tion tax	Invest- ment income taxes 4	Total	Value- added tax	Turnover tax on imports	Share in trade tax 6, 7	Federal taxes 8	Länder taxes 8	EU customs duties	author- ities' share in income taxes 9
1991	615,506	298,804	214,175	41,532	31,716	11,381	179,672	98,797	80,875	5,986	92,583	29,113	8,307	38,356
1992	681,751	331,310	247,322	41,531	31,184	11,273	197,712	117,274	80,438	6,923	104,802	32,963	7,742	43,328
1993	697,988	341,785	257,987	33,234	27,830	22,734	216,306	174,492	41,814	4,181	93,678	34,720	7,240	44,973
1994	734,234	343,055	266,522	25,510	19,569	31,455	235,698	195,265	40,433	6,271	105,410	36,551	7,173	45,450
1995	765,374	344,554	282,701	13,997	18,136	29,721	234,622	198,496	36,126	8,412	134,013	36,602	7,117	46,042
1996	746,958	317,807	251,278	11,616	29,458	25,456	237,208	200,381	36,827	8,945	137,865	38,540	6,592	40,887
1997	740,272	313,794	248,672	5,764	33,267	26,092	240,900	199,934	40,966	8,732	135,264	34,682	6,900	39,533
1998	775,028	340,231	258,276	11,116	36,200	34,640	250,214	203,684	46,530	10,284	130,513	37,300	6,486	47,140
1999	422,012	184,408	133,809	10,887	22,359	17,353	137,155	111,600	25,555	5,463	72,235	19,564	3,186	25,277
2000	436,115	192,381	135,733	12,225	23,575	20,849	140,871	107,140	33,732	5,521	75,504	18,444	3,394	25,998
2001	417,358	170,817	132,626	8,771	- 426	29,845	138,935	104,463	34,472	5,510	79,277	19,628	3,191	25,170
2002 2nd qtr	97,670	38,032	31,000	3,331	- 1,961	5,662	33,468	25,417	8,050	1,402	19,241	4,820	708	6,014
3rd qtr	102,229	40,904	31,896	3,317	965	4,726	34,226	25,937	8,290	1,411	20,297	4,638	753	6,160
2002 July	32,976	12,401	11,753	- 1,307	- 563	2,517	10,998	8,124	2,874	963	6,711	1,656	249	1,857
Aug.	31,154	9,578	10,593	- 1,278	- 1,122	1,384	11,947	9,130	2,817	442	7,368	1,564	255	1,706
Sep.	38,099	18,925	9,550	5,901	2,650	825	11,282	8,683	2,599	6	6,219	1,418	249	2,598
Oct. p	31,276	10,098	9,539	- 1,037	203	1,392	11,382	8,591	2,791	999	7,019	1,535	244	1,571
Nov. p	28,421	8,066	9,597	- 1,209	- 1,068	746	12,418	9,491	2,928	454	5,847	1,380	256	1,583

Source: Federal Ministry of Finance. — 1 This total, unlike that in Table VIII. 4, includes neither the revenue from Equalisation of Burdens levies, trade tax on returns and capital (less Federal and Länder shares in trade tax), the taxes on land and buildings and other local authority taxes, nor the balance of untransferred tax shares. — 2 The yield of wage tax and assessed income tax was distributed among the Federal Government, the Länder Governments and the local authorities in the ratio of 42.5: 42.5: 15 from 1980, and the yield of corporation tax and investment income tax between the Federal Government and the Länder Governments in the ratio of 50: 50 from 1970. — 3 From 1996, after deduction of child benefit. — 4 From February 1993 including revenue from the tax on interest income, in which the local authorities have a share of 12%. — 5 From 1998 3.64% and from 1999 5.63% went to the Federal Government in advance to finance the

supplementary Federal grant to the pension insurance funds; 2.2% of the balance went to the local authorities, of the new balance: 50.5% to the Federal Government, 49.5% to the Länder Governments, from 2000 50.25% to the Federal Government, 49.75% to the Länder Governments, from 2002 49.6% to the Federal Government, 50.4% to the Länder Governments. The EU share must likewise be deducted from the Federal Government's share stated. — 6 Since 1991 the distribution of turnover tax and the level and distribution of the share in trade tax have been affected by the financing of the debt service of the "German Unity" Fund. — 7 Federal Government and Länder Governments 50% each. From 1998 Federal Government 42.2%, Länder Governments 57.8%. — 8 For breakdown see Table VIII. 6. — 9 From 1998 including the share in turnover taxes.

6. Individual taxes of the Federal Government, Länder Governments and local authorities

Up to the end of 1998, DM million / from 1999, € million

	Federal tax	es					Länder taxe	es				Local autho	rity taxes	
Period	Mineral oil tax	Tobacco tax	Spirits tax	Insur- ance tax	Electri- city tax	Other Federal taxes 1	Motor vehicle tax	Property tax	Inherit- ance tax	Beer tax	Other Länder taxes	Trade tax 2	Taxes on land and buildings	Other local taxes 3
1991 1992 1993 1994	47,266 55,166 56,300 63,847	19,592 19,253 19,459 20,264	5,545	5,862 8,094 9,290 11,400		14,215 16,744 3,495 5,011	11,012 13,317 14,059 14,169	6,729 6,750 6,784 6,627	2,636 3,030 3,044 3,479	1,647 1,625 1,769 1,795	7,090 8,241 9,065 10,482	41,297 44,848 42,266 44,086	9,921 10,783 11,663 12,664	1,181 1,281 1,383 1,445
1995 1996 1997 1998 1999	64,888 68,251 66,008 66,677 36,444	20,595 20,698 21,155 21,652 11,655	5,085 4,662 4,426	14,104 14,348 14,127 13,951 7,116	1,816	29,590 29,484 29,312 23,807 12,973	13,806 13,743 14,418 15,171 7,039	7,855 9,035 1,757 1,063 537	3,548 4,054 4,061 4,810 3,056	1,779 1,718 1,698 1,662 846	9,613 9,990 12,749 14,594 8,086	42,058 45,880 48,601 50,508 27,060	13,744 14,642 15,503 16,228 8,636	1,426 1,463 1,509 1,532 824
2000 2001	37,826 40,690	11,443 12,072	2,151 2,143	7,243 7,427	3,356 4,322	13,485 12,622	7,015 8,376	433 290	2,982 3,069	844 829	7,171 7,064	27,025 24,534	8,849 9,076	784 790
2002 2nd qtr 3rd qtr P	10,107 10,154	3,291 3,577	461 511	1,497 1,804	1,167 1,407	2,717 2,845	2,078 1,816	43 72	791 798	213 226	1,697 1,726	5,423 5,639	2,560 2,634	182 169
2002 July Aug. Sep.	3,397 3,166 3,591	1,191 1,705 681	184 220 107	410 1,029 365	614 516 277	915 733 1,198	693 578 545	25 42 5	251 274 274	74 78 74	614 593 520			
Oct. p Nov. p	3,442 3,379	1,738 683		373 561	563 393	697 664	596 529	16 12		71 66	583 531			

Source: Federal Ministry of Finance. — 1 Other excise taxes and the income and corporation tax surcharge ("solidarity surcharge") levied from mid-1991

until mid-1992, and again since the beginning of 1995. — $\bf 2$ On returns and capital. — $\bf 3$ Including tax-like receipts.

VIII. Public finance in Germany

7. Indebtedness of the public sector *

Up to the end of 1998, DM million / from 1999, € million

	op to the en	u oi 1990, D	IVI IIIIIIIOII / II	10111 1333, 6	minion								
									Loans from	non-banks	Old debt		
End of year or month	Total	Bundes- bank advances		Treasury notes 2, 3	5–year special Federal bonds 2		Debt secur- ities 2	Direct lending by credit institu- tions 4	Social security funds	Other 4		Equalisa- tion claims	Other 6
	Public au	thorities											
1995 1996 1997 1998 1999 2000 2001 Dec. 2002 Mar. June Sep. p	1,993,476 2,126,320 2,215,893 2,280,154 1,199,975 1,211,439 1,223,929 1,249,857 1,251,125	-	8,072 27,609 26,336 25,631 12,594 11,616 23,036 17,817 22,252 31,440	240,514 231,102 249,507 227,536 102,364 109,951 151,401 158,695 176,996 193,052	170,719 176,164 177,721 199,774 120,998 126,276 130,045 133,421 133,289 135,502	78,456 96,391 99,317 92,698 41,621 35,991 26,395 22,648 20,636 19,752	586,573 618,262 662,516 723,403 416,051 438,888 448,148 461,617 463,906 462,459	764,875 836,582 879,021 894,456 450,111 433,443 422,440 431,066 408,991 401,797	1,263 770 663 550 281 211 174 218 239 227	40,621 39,450 29,907 26,073 10,200 10,524 13,110 15,234 15,681 16,893	15,106 9,960 1,315 1,249 476 285 85 49 51	87,079 89,826 89,376 88,582 45,175 44,146 8,986 8,986 7,848	198 203 216 202 105 108 108 109 101
	Federal G	overnme	ent ^{/, °}										
1995 1996 1997 1998 1999 2000 2001 Dec. 2002 Mar. June Sep.	756,834 839,883 905,691 957,983 714,069 715,819 701,077 721,619 716,787 726,896	-	8,072 26,789 25,286 24,666 11,553 11,516 21,136 16,917 21,389 30,982	52,354 55,289 78,848 84,760 44,335 44,678 59,643 59,622 66,445 72,762	170,719 176,164 177,721 199,274 120,498 123,642 119,911 123,287 123,155 125,316	78,456 96,391 99,317 92,698 41,621 35,991 26,395 22,648 20,636 19,752	402,307 434,295 481,619 519,718 379,808 400,490 416,195 429,270 431,039 429,452	26,572 32,988 31,845 24,125 67,872 52,836 47,111 59,356 43,600 39,392	15 5 5 60 29 26 12 12	8,119 7,766 870 2,603 2,568 2,099 1,481 1,365 1,374 1,242	1,360 1,330 1,300 1,270 476 285 85 49 51 50	8,684 8,684 8,684 45,175 44,146 8,986 8,986 7,848	176 183 197 186 104 107 107 108 100
	West Ger	man Län	der Gove	rnments									
1995 1996 1997 1998 1999 2000 2001 Dec. 2002 Mar. June Sep. P	442,536 477,361 505,297 525,380 274,208 282,431 305,788 310,210 314,447 320,617	- - - - - -	1,800 800 750 1,800 250	91,152 91,969 86,639 83,390 43,033 48,702 67,721 73,844 83,192 92,220			- - - - - -	339,084 372,449 406,499 430,709 226,022 227,914 228,270 225,475 219,729 216,121	358 54 47 43 23 22 5 5 58 79 79	11,940 12,567 11,760 10,716 4,979 5,792 7,991 10,032 10,697 11,946		- - - - - -	2 2 2 2 1 1 1 1 1
	East Gern	nan Länd	er Gover	nments									
1995 1996 1997 1998 1999 2000 2001 Dec. 2002 Mar. June Sep. P	69,151 80,985 90,174 98,192 53,200 55,712 58,771 59,143 60,156 61,533	-	500 700 445 891 100 100 100 112 208	25,345 26,820 27,540 27,228 14,517 16,092 20,135 21,328 23,387 24,097			-	43,328 53,483 61,697 70,289 37,602 39,339 37,382 36,256 35,399 35,860	17 - 15 - - - - -	461 182 222 230 189 182 1,154 1,460 1,258 1,368			
	West Ger	man loca	l authori	ties ⁹									
1995 1996 1997 1998 1999 2000 2001 Dec. 2002 Mar. June Sep. p	157,271 158,613 160,162 158,960 81,511 81,414 82,203 82,900 83,700 84,000			200 300 300 153 153 153 153 153 153			1,000 1,280 1,330 1,330 680 680 629 629 629 629	151,127 152,311 154,145 153,208 78,726 78,656 79,470 80,168 80,968 81,268	283 174 149 119 53 33 29 30 30	4,861 4,648 4,238 4,003 1,891 1,922 1,920 1,920			
	East Gern	nan local	authorit	ies ⁹									
1995 1996 1997 1998 1999 2000 2001 Dec. 2002 Mar. June	36,830 38,976 38,688 39,873 20,726 17,048 17,005 16,880 16,700			225 225 225 225 51 51 - -			400 400 460 335 335 284 284	35,427 37,922 37,623 38,777 20,138 16,497 16,581 16,456 16,276	347 308 273 255 124 114 107 110	431 121 167 156 78 50 33 30			
Sep. p	16,700			-			284	16,276	110	30		.1	1

For footnotes see end of the table.

VIII. Public finance in Germany

7. Indebtedness of the public sector * (cont 'd)

Up to the end of 1998, DM million / from 1999, € million

	op to the ci	0550, 2		10111 1333, 0									
									Loans from	non-banks	Old debt		
End of year or month	Total	Bundes- bank advances	Treasury discount paper 1	Treasury notes 2, 3	5–year special Federal bonds 2	Federal savings bonds	Debt secur- ities 2	Direct lending by credit institu- tions 4	Social security funds	Other 4	owing to German unifica- tion ⁵	Equalisa- tion claims	Other 6
	"Germar	unity"F	und / Ind	emnificat	tion Fund	⁷							
1995	87,146		ı -	8,891		I .	44,398	31,925	5	1,927	Ι.	Ι.	ı .l
1996	83,556	1	_		_		44,321	38,020	5	1,210	l .	Ι.	.
1997	79,717	l .	_	_	_		44,347	34,720	5	645	l .	Ι.	.
1998	79,413	l .	_	_	_		47,998	30,975	-	440	l .	l .	.
1999	40,234	l .	-	275	500		28,978	10,292	-	189	l .		.
2000	40,629	l .	_	275	2,634		29,797	7,790	-	133	l .	l .	.
2001 Dec.	39,923		_	3,748	10,134		21,577	4,315	_	149			
2002 Mar.	40,006			2 740	10 124		21 722	4 215		77			
June	40,006 40,028		_	3,748 3,820	10,134 10,134		21,732 21,902	4,315 4,147	-	26			'
	40,028		_	3,820			21,902		_				'
Sep.	ERP Spec		-	3,020	10,134		22,049	4,019	-	20			'
	EKP Spec	lai runu	,										
1995	34,200						10,745	23,455	-	-			-
1996	34,135						10,750	23,385	-	-			.
1997	33,650						10,810	22,840	-	-			.
1998	34,159						11,944	20,988	-	1,227			.
1999	16,028						6,250	9,458	21	299			.
2000	18,386						7,585	10,411	13	377			.
2001 Dec.	19,161						9,462	9,310	8	381			
2002 Mar.	19,098	l .	l .		l .		9,701	9,039	8	350	l .	l .	.
June	19,308	1	l .		l .		10,052	8,873	8	376	l .	l .	.
Sep.	19,327		l .		51		10,045		1	361	l .	Ι.	.
•	Federal F	Railways I	und ^{7, 8}										
1995				l 2040		ı	1 20 002	39,005	140	6,415			,
1995	78,400 77,785			3,848 1,882	_		28,992 28,749	41,537	130	5,489			'
1997	77,763	1		1,927	_		25,634	44,807	115	4,772			'
1998	77,234	1		1,327	500		31,648	42,488	1	2,531			'
				_									'
1999 June	39,231		Ι.	-	1,023		16,805		34	968	١.	١ .	·
	Debt-Pro	cessing F	und / Red	demption	Fund fo	r Inherite	ed Liabilit	ies ^{7, 8}					
1995	328,888	Ι.	ı -	58,699	ı -	Ι.	98,731	72,732	98	6,468	13,745	78,395	21
1996	331,918		_	54,718	_		98,468	81,380	95	7,468	8,630	81,142	19
1997	322,032	1	_	54,028	_		98,377	81,616	54	7,233	15	80,692	17
1998	304,978		_	31,633	_		110,006	79,226		4,167	- 20	79,899	15
1999 June	151,097		_	11,127	2,000		58,897						
1999 Julie	1	l Hard Coal	-		•		30,037	30,133	1 21	2,013		40,302	' "
	Use of I	naru Coa	Equalis	ation Fur	<u> </u>								
1995	2,220						-	2,220	-	-			.
1996	3,108						-	3,108	-	-			.
1997	3,229						-	3,229	-	-			.
1998	3,971						300	3,671	-	-			.
1999 June	2,302	l .				l .	153	2,148	_	_	l .	l .	.
	•							,					-

Source: Bundesbank calculations based on data from the Federal Statistical Office. — * Excluding public authorities' mutual indebtedness. — 1 Predominantly Treasury discount paper. — 2 Excluding paper in the issuers' portfolios. — 3 Länder Treasury paper also covers the long-term maturity category. — 4 Mainly loans against borrowers' notes. Including loans raised abroad. Other loans from non-banks, including loans from supplementary public pension funds and liabilities arising from the investment assistance levy. — 5 Old liabilities arising from residential construction and liabilities arising from residential construction by the former GDR's armed forces and from residential construction in connection with the return of the troops of the former USSR in eastern Germany to their home country. — 6 Old debt mainly expressed in foreign currency, in

accordance with the London Debts agreement; excluding debt securities in own portfolios. — 7 The debt incurred through the joint issue of Federal securities is recorded here – in contrast to the capital market statistics – under the Federal Government and its special funds in accordance with the agreed distribution ratios. — 8 Since July 1, 1999 the Federal Government has assumed joint responsibility for the debts of the Redemption Fund for Inherited Liabilities, the Federal Railway Fund and the Equalisation Fund for Safeguarding the Use of Coal. The special funds mentioned are only recorded under the Federal Government from July. — 9 Data other than end-of-year figures have been estimated. Including indebtedness of municipal special-purpose associations.

VIII. Public finance in Germany

8. Changes in public sector indebtedness *

			Net	borrowii	ng 1													
	Level at end	of	200	1									200	2				
	2001	Sep. 2002 p	Tota	al	1st	qtr	2nd	qtr	3rd	qtr	4th	qtr	1st	qtr	2nc	l qtr	3rd	qtr P
Item	€ million																	
Borrowers																		
Federal Government 2	701,077	726,896	-	14,908	-	16,138	-	8,256	+	6,820	+	2,665	+	20,542	-	4,833	+	10,110
"German Unity" Fund ERP Special Fund Indemnification Fund	39,638 19,161 285	39,702 19,327 344	- + +	787 775 81	+++++	748 513 21	- + +	739 91 22	- + +	41 449 21	- - +	754 278 17	+ - +	64 63 19	+	210 21	++	- 19 19
West German Länder Governments East German Länder Governments West German local authorities ³ East German local authorities ³	305,788 58,771 82,203 17,005	320,617 61,533 84,000 16,700	+ + +	23,357 3,059 2,487 162	+++-	3,307 318 815 22	+++-	2,310 154 435 102	+ + -	7,422 1,365 460 –	+ + +	10,318 1,222 1,697 286	+ + +	4,422 372 275 31	+ + +	4,237 1,013 1,000 180	+ + +	6,170 1,377 900 30
Total	1,223,929	1,269,119	+	14,224	_	10,438	-	6,086	+	15,576	+	15,173	+	25,601	+	1,468	+	18,564
Types of debt																		
Treasury discount paper 4 Treasury notes 5 Five-year special Federal bonds 5 Federal savings bonds Debt securities 5	23,036 151,401 130,045 26,395 448,148	31,440 193,052 135,502 19,752 462,459	+ + + - +	11,420 41,449 3,770 9,596 9,260	+ + + - +	182 8,866 1,464 1,431 4,838	+	1,948 5,676 2,153 4,315 2,059	+ + + - +	5,803 12,724 1,067 1,422 336		3,488 14,183 913 2,428 2,027	++	5,219 7,294 3,375 3,748 13,469		4,434 18,301 132 2,012 2,289		9,188 16,056 2,213 884 1,446
Direct lending by credit institutions 6 Loans from social security funds Other loans 6	422,440 174 13,070	401,797 227 16,852	- - +	9,100 37 2,586	+ - -	10,382 8 643	- - +	14,596 18 994	- - +	1,802 3 36	- - +	3,086 8 2,199	++++	8,297 44 2,124	- + +	21,875 21 447	- - +	6,624 12 1,212
Old debt 7 Equalisation claims Investment assistance levy	193 8,986 40	152 7,847 41	- - -	200 35,328 0	- - -	45 34,044 0	+ + -	2 11 0	- - -	17 1,144 0	- - -	140 150 0	+	36 - 0	-	6 - -	- - +	0 1,139 0
Total	1,223,929	1,269,119	+	14,224	_	10,438	_	6,086	+	15,576	+	15,173	+	25,601	+	1,468	+	18,564
Creditors																		
Banking system																		
Bundesbank Credit institutions	4,440 534,400	4,440 532,700	_	29,304	_	- 3,235	_	- 11,848	_	- 11,361	_	2,859	+	- 11,671	_	13,200	+	_ 270
Domestic non-banks		227		3.		_		_		22		_				2.		42
Social security funds Other 8	174 243,710	227 256,152	+	31 42,436	+	0 4,566	+	5 6,222	+	20 12,028	+	5 19,620	+	44 6,689	+	21 2,947	+	12 2,806
Foreign creditors pe	441,205	475,600	+	1,123	_	11,769	_	456	+	14,930	_	1,583	+	7,195	+	11,700	+	15,500
Total	1,223,929	1,269,119	+	14,224	-	10,438	-	6,086	+	15,576	+	15,173	+	25,601	+	1,468	+	18,564
6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1.60		_												

Source: Bundesbank calculations based on data from the Federal Statistical Office. — * Excluding public authorities' mutual indebtedness. — 1 Net borrowing differs from the change in indebtedness, which includes the assumption and reduction of debts. — 2 See Table VIII. 7, footnote 8. — 3 Data other than end-of-year figures have been estimated. Including indebtedness of municipal special-purpose associations and municipal hospitals. — 4 Excluding mobilisation and liquidity paper. Predominantly

Treasury discount paper. — 5 Excluding paper in the issuers' portfolios. — 6 Including loans raised abroad. — 7 Old liabilities arising from residential construction and liabilities arising from the residential construction of the former GDR's armed forces and from residential construction in connection with the return of the troops of the former USSR based in eastern Germany to their home country, and old debt in accordance with the London Debts Agreement. — 8 Ascertained as a difference.

9. Loans raised by public authorities against borrowers' notes

Up to the end of 1998, DM million / from 1999, € million

End o	of year onth
1998 1999 2000	
2001	Sep. Dec.
2002	Mar. June Sep. p

Total 1	Federal Govern- ment ² , ³	"German Unity" Fund	ERP Special Fund		Local authorities 4, 5	Railways	Inherited Liabilites Fund ³	"Use of Hard Coal" Equal- isation Fund ³
898,030 444,031	23,094 64,704	31,415 10,481	22,215 9,778		184,942 94,909	45,098	83,447	3,671
431,364		7,178	10,801	268,362	90,292] =] =	-
418,633 416,068		4,418 4,464	9,998 9,699	267,602 267,988		- -	- -	-
409,176 404,661 401,432	40,431	4,392 4,172 4,044					- - -	

Source: Bundesbank calculations based on data from the Federal Statistical Office. — 1 Excluding Debt Register claims and cash advances. Including small amounts of: mortgage loans, land charges in annuity and other forms, and debts outstanding. — 2 Including Equalisation of Burdens Fund. —

3 See Table VIII. 7, footnote 8. — **4** Data other than end-of-year figures have been estimated. Including municipal special-purpose associations and municipal hospitals. — **5** Including contractually agreed loans.

VIII. Public finance in Germany

10. Indebtedness of the Federal Government

Up to the end of 1998, DM million / from 1999, € million

		Treasury discount pa	per 1						Indebtedne to non-ban		Old debt		
End of year or month	Total	Total	of which Treasury financing paper	Federal Treasury paper/ Treasury notes 2	5–year special Federal bonds 2	Federal savings bonds	Debt secur- ities 2	Direct lending by credit institu- tions 3, 4	Social security funds	Other 3, 5, 6	owing to German unifica- tion 7	Equal- isation claims	Other 8
1996	839,883	26,789	5,221	55,289	176,164	96,391	434,295	32,988	5	7,766	1,330	8,684	183
1997	905,691	25,286		78,848	177,721	99,317	481,619	31,845	5	870	1,300	8,684	197
1998	957,983	24,666		84,760	199,274	92,698	519,718	24,125	-	2,603	1,270	8,684	186
1999 9	714,069	11,553	1,584	44,678	120,498	41,621	379,808	67,872	60	2,568	476	45,175	104
2000	715,819	11,516	1,805		123,642	35,991	400,490	52,836	29	2,099	285	44,146	107
2001	701,077	21,136	1,658		119,911	26,395	416,195	47,111	26	1,481	85	8,986	107
2001 Dec.	701,077	21,136	1,658	59,643	119,911	26,395	416,195	47,111	26	1,481	85	8,986	107
2002 Jan.	713,928	16,852	1,658	58,910	119,373	24,779	427,130	56,198	26	1,481	85	8,986	109
Feb.	716,611	16,886	1,693	59,226	122,524	24,752	428,296	54,242	26	1,481	85	8,986	108
Mar.	721,619	16,917	1,724	59,622	123,287	22,648	429,270	59,356	12	1,365	49	8,986	108
Apr.	714,032	11,709	1,787		123,500	22,666	431,935	49,165	12	1,366	54	8,986	106
May	715,840	16,623	1,788		123,015	21,967	430,935	47,891	12	1,366	50	8,986	103
June	716,787	21,389	1,776		123,155	20,636	431,039	43,600	12	1,374	51	8,986	100
July	726,077	21,253	1,763	71,385	123,144	20,773	430,911	49,222	12	1,374	54	7,848	102
Aug.	723,931	26,149	1,724	71,540	124,334	20,057	430,140	42,323	12	1,374	52	7,848	101
Sep.	726,896	30,982	1,700	72,762	125,316	19,752	429,452	39,392	0	1,242	50	7,848	101
Oct.	728,799	30,977	1,663	78,405	125,954	18,011	425,750	40,487	0	1,242	26	7,848	99
Nov.	734,678	30,466	1,622	78,933	126,472	17,852	434,650	37,089	0	1,242	28	7,848	99
Dec. p	724,960	30,197	1,587	78,584	127,326	17,889	422,307	39,442	0	1,242	28	7,848	99

¹ Excluding mobilisation and liquidity paper. In November 1999, including cash bills. — 2 Excluding paper in the issuers' portfolios. — 3 Including loans raised abroad. — 4 Including money market debt. — 5 Including loans granted by supplementary pension funds for government employees. — 6 Including liabilities arising from the investment assistance levy. — 7 Assumption of liabilities arising from residential construction of the former GDR's armed forces and from residential construction in connection

with the return of the troops of the former USSR based in eastern Germany to their home country. — 8 Commutation and compensation debt and old debt mainly expressed in foreign currency. — 9 Since July 1, 1999 the Federal Government has assumed joint responsibility for the debts of the Redemption Fund for Inherited Liabilities, the Federal Railway Fund and the Equalisation Fund for Safeguarding the Use of Coal. The special funds mentioned are ascribed to the Federal Government from July 1999.

11. Federal Government borrowing in the market

Up to the end of 1998, DM billion / from 1999, € billion

					of w	vhich																		
	Tota	al new bo	rrow	ing	Deb	t Securit	ies			ear speci eral bond			Oth	er securi	ties	2		ns agains owers' n			Mon		mon	
Period	gro	_{SS} 1	net		gros	_{SS} 1	net	:	gro	ss 1	net		gro	_{SS} 1	net		gros	ss	net		marl debt		marl depo	
1996 1997 1998	+ + +	185,696 250,074 228,050	+	83,049 65,808 52,292	++++++	54,038 79,323 78,304	+++++	31,988 47,323 38,099	+++++	45,445 59,557 55,078	+++++	5,445 1,557 21,553	+ + +	67,015 98,275 85,706	++	39,586 24,983 1,327	+ + + +	15,050 12,950 12,023	+ - -	1,906 8,009 2,927	+ - -	4,148 30 3,065	+ - -	6,548 3,304 5,440
1999 2000 2001	+ + +	139,865 122,725 135,018	+ + -	31,631 1,750 14,741	+++++	53,931 49,395 36,511	+++++	114,080 20,682 15,705	+++++	22,229 26,342 19,603	+ + -	18,610 3,144 3,730	+++++	44,904 45,278 69,971	 - +	5,836 5,323 14,989	+ + +	14,861 7,273 5,337	+ - -	52,897 9,973 9,941	+ - +	3,937 5,563 3,595	+ - -	1,832 940 1,495
2001 JanDec. 2002 JanDec. P	++	135,018 178,173	 - 	14,741 23,883	+	36,511 41,378	+	15,705 6,112	+	19,603 36,037	- +	3,730 7,415	++	69,971 93,823	++	14,989 19,495	++	5,337 4,716	 -	9,941 10,155	+	3,595 2,221	- +	1,495 22
2001 Dec.	-	1,007	-	7,817	_	233	-	233	+	166	+	166	+	9,383	+	4,618	+	571	-	1,317	-	10,893	-	342
2002 Jan. Feb. Mar.	+ + +	25,679 10,575 15,492	+ + +	12,851 2,683 5,009	+++++	10,935 1,165 975	++++	10,935 1,165 975	- + +	539 9,669 763	- + +	539 3,151 763	++++++	4,961 572 6,740	- + -	6,634 323 1,677	+ + + +	686 117 548	 - -	549 1,009 1,482	+ - +	9,635 948 6,467	++++++	630 83 9
Apr. May June	+ + +	3,637 9,842 8,533	- + +	7,587 1,807 947	+ - +	2,665 1,000 104	+ - +	2,665 1,000 104	+++++	214 6,025 140	+ - +	214 485 140	+++++	9,919 5,543 11,512	- + +	278 4,574 4,988	+ + +	708 522 88	 - -	321 28 971	- - -	9,870 1,247 3,311	 - -	307 190 41
July Aug. Sep.	+ + +	27,272 6,663 9,231	+ - +	9,291 2,147 2,966	+ - -	10,400 772 688	- - -	127 772 688	- + +	11 8,739 983	- + +	11 1,189 983	++++++	9,934 5,360 11,072	+++++	4,941 4,337 5,748	+ + +	610 135 590	- - -	716 100 348	+ - -	6,338 6,799 2,727	+++++	133 228 1,413
Oct. Nov. Dec. p	+ + +	20,715 23,264 17,270	+	1,903 5,880 9,718	+++++	8,082 8,900 611	+	3,702 8,900 12,344	+++++	637 8,562 854	+++++	637 518 854	+ + +	10,797 5,171 12,242	+ - -	3,897 141 582	+ + + +	94 543 76	 - -	10 3,487 1,134	+ + +	1,106 88 3,487	 - -	1,181 564 191

¹ After deduction of repurchases. — 2 Federal Treasury notes, Federal savings bonds, Treasury discount paper, Treasury financing paper.

VIII. Public finance in Germany

12. Receipts, expenditure and assets of the wage and salary earners' pension insurance funds

Up to the end of 1998, DM million / from 1999, € million

	Receipts 1			Expenditure	1			Assets 5					
		of which			of which		Balance				Mort-		Memor- andum
		Contri-	Federal		Pension	Pen- sioners' health	of receipts and				gage and other	Real	item Adminis-
Period	Total	butions 2	payments	Total	pay- ments 3	insurance 4	expend- iture	Total	Deposits 6	Securities		estate	trative assets
	Western	Germany											
1995 1996 8 1997 1998	276,302 288,761 305,606 317,340	236,036 248,463	47,979 50,478 54,896 65,191	279,226 288,716 295,635 304,155	230,222 237,464 246,011 254,783	15,923 16,809 17,892 18,636	- 2,924 + 45 + 9,971 + 13,185	14,456 14,659	16,801 9,608 10,179 14,201	3,948 2,119 1,878 1,493	746 2,500 2,372 2,274	262 229 230 226	7,800 8,863 9,261 9,573
1999 2000 p 2001 8, p	169,124 173,020 178,293	128,057	39,884 43,638 46,710	159,819 166,569 172,382	134,536 139,189 143,863	9,910 10,253 10,610	+ 9,305 + 6,451 + 5,911	14,350	11,559 11,459 10,646	824 1,676 1,517	1,127 1,105 1,699	114 110 111	4,904 4,889 4,917
2001 3rd qtr 4th qtr	44,023 47,452		11,530 11,588	43,229 43,530	36,469 36,400	2,688 2,701	+ 794 + 3,922		8,201 10,646	1,532 1,517	1,704 1,699	106 111	4,973 4,917
2002 1st qtr 2nd qtr 3rd qtr	43,411 44,541 45,371	31,949	12,212 12,222 12,280	43,792 43,927 44,799	36,898 36,784 37,746	2,719 2,711 2,872	- 381 + 614 + 572		8,712 7,490 5,919	1,427 1,366 1,182	1,698 1,696 1,689	106 111 121	4,933 4,954 4,947
	Eastern (Germany											
1995 1996 1997 1998	70,774 74,790 79,351 81,072	46,580 48,939	16,408 17,910 20,065 23,564	77,780 83,830 87,424 90,863	63,812 68,316 70,500 73,040	4,362 4,851 5,388 5,757	- 7,006 - 9,040 - 8,073 - 9,791						
1999 2000 p 2001 p	43,214 43,513 44,462	22,655	14,744 15,224 16,383	47,641 49,385 50,943	38,383 39,414 40,254	3,040 3,112 3,152	- 4,427 - 5,872 - 6,481						
2001 3rd qtr 4th qtr	10,540 11,446		4,070 4,107	12,881 12,857	10,240 10,221	796 788	- 2,341 - 1,411	:	:		· :	:	
2002 1st qtr 2nd qtr 3rd qtr	11,070 11,493 10,757	5,455	4,410 4,558 4,334	13,106 13,046 13,391	10,373 10,228 10,530	793 797 832	- 2,036 - 1,553 - 2,634						

Source: Federal Minister of Labour and Social Affairs and Association of German Pension Insurance Funds. — 1 The annual figures differ from the sum of the quarterly figures, as the latter are all provisional. From 1993 including financial compensation payments. — 2 Including contributions for recipients of public financial benefits. — 3 Payments by pension insurance funds to health insurance institutions under section 50 of the Social Security Code V have been deducted from pension payments. — 4 From 1995

including nursing insurance scheme for pensioners . — 5 Largely corresponds to fluctuation reserves. Level at the end of the year or quarter. From 1992 figures for the whole of Germany. — 6 Including cash resources. — 7 Excluding loans to other social security funds; including participating interests. — 8 Excluding receipts arising from the higher valuation of participating interests.

13. Receipts and expenditure of the Federal Labour Office

Up to the end of 1998, DM million / from 1999, € million

		op to the en	10 01 1996, 1	ivi million /	10111 1999, €	TIIIION								
	F	Receipts			Expenditure									L
			of which			of which								Subsidies or work-
						Unemployn	nent relief 3,	4	Promotion of training 4,	of vocationa 5	I	Promo- tion of	Balance of receipts	ing fund credits of the
Period	ļ	Total 1	Contri- butions	Levies 2	Total	Total	Western Germany	Eastern Germany	Total	Western Germany	Eastern Germany	winter con- struction	and expend- iture	Federal Govern- ment
		Germany	'											
1995 1996 1997 1998		90,211 91,825 93,149 91,088	85,073 85,793	2,957 3,346 2,959 2,868	105,588 102,723	49,254 57,123 60,273 53,483	36,161 40,186 40,309 35,128	13,094 16,938 19,964 18,355	36,478 31,418	18,368 16,117	18,111 15,301	903 443	3 – 13,763 3 – 9,574	13,756 9,574
1999 2000 2001		47,954 49,606 50,682	46,359	1,467 1,403 1,640	51,694 50,473 52,613	25,177 23,946 25,036	16,604 15,615 16,743	8,573 8,331 8,294	20,558 20,324 20,713	10,534	9,790	294	- 868	
2001 3rd q 4th q		12,692 14,319		437 770	12,549 13,866	5,899 6,321	3,974 4,366	1,926 1,955	5,024 5,637					0 - 2,771
2002 1st q 2nd o 3rd q	qtr	11,502 12,200 12,710	11,459	51 433 528	13,093 14,141 13,905	6,587 7,098 6,708	4,608 5,005 4,839	1,979 2,093 1,869	4,665 5,230 5,182	2,903	2,327	97		3,720 2,200 854

Source: Federal Labour Office. — 1 Excluding Federal Government liquidity assistance. — 2 Levies to promote winter construction and to pay bank-ruptcy compensation to employees. — 3 Unemployment benefits, short-time-working benefits. Including the integration allowance paid to resettlers from eastern Europe and emigrants from the GDR as a

replacement for the unemployment benefits. — 4 Including contributions to the statutory health insurance, and to the pension insurance funds. — 5 Vocational training, measures to foster the commencement of work, rehabilitation and job creation measures.

IX. Economic conditions

 Origin and expenditure of domestic product, distribution of national income Germany

	1998	1999	2000	2001	2002	1999	2000	2001	2002	1999	2000	2001	2002
Item	DM billion	€ billion				Change	from year in 9	%		% of total			
at 1995 prices	ышоп	C Dillion				previous	year iii .			total			
I.Origin of domestic product													
Producing sector (excluding construction) Construction	855.2 205.3	429.4 105.5	445.6 102.6	447.3 96.0	445.5 90.2	- 1.8 0.5	3.8 - 2.7	0.4 - 6.5	- 0.4 - 6.1	22.4 5.5			
Distribution, catering trade, and transportation 1 Financing, rents and corporate	614.6	335.3	352.9	361.8	367.6	6.7	5.3	2.5	1.6	17.5	17.9	18.3	18.5
services ² Public and private services ³	1,028.6 737.6	548.3 380.6	572.6 387.3	585.2 391.6	593.8 396.0	4.3 0.9	4.4 1.8	2.2 1.1	1.5 1.1	28.6 19.9	29.1 19.7		
All economic sectors Memo item: Enterprise sector	3,487.2 3,041.7	1,823.3 1,595.6	1,885.3 1,656.7	1,906.5 1,679.3	1,917.3 1,690.7	2.3 2.6	3.4 3.8	1.1 1.4	0.6 0.7	95.2 83.3	95.7 84.1		
Economic sectors, adjusted 4	3,320.2	1,730.3	1,785.5	1,801.4	1,807.8	1.9	3.2	0.9	0.4	90.4	90.7	90.9	91.1
Gross domestic product	3,669.9	1,914.8	1,969.5	1,980.8	1,984.2	2.0	2.9	0.6	0.2	100	100	100	100
II.Expenditure of domestic product Private consumption 5 Government consumption Machinery and equipment Construction Other investment 6 Changes in stocks 7	2,072.8 726.3 292.5 479.5 40.0 3.2	1,099.2 375.0 160.3 248.7 23.2 – 6.6	1,114.8 379.6 175.5 242.1 25.2 – 2.7	1,131.6 382.6 165.4 227.7 26.5 – 15.2	1,126.2 388.5 151.5 214.2 27.1 – 14.3	3.7 1.0 7.2 1.4 13.5	1.4 1.2 9.5 – 2.6 8.4	1.5 0.8 - 5.8 - 6.0 5.0	- 0.5 1.5 - 8.4 - 5.9 2.5	57.4 19.6 8.4 13.0 1.2 – 0.3	56.6 19.3 8.9 12.3 1.3 – 0.1	19.3 8.3 11.5 1.3	10.8 1.4
Domestic demand Net exports Exports Imports	3,614.3 55.6 1,078.6 1,023.0	1,899.8 15.0 582.5 567.4	1,934.5 35.0 662.1 627.1	1,918.6 62.2 695.4 633.1	1,893.2 91.0 715.7 624.7	2.8 5.6 8.5	1.8 13.7 10.5	- 0.8 5.0 1.0	- 1.3 2.9 - 1.3	99.2 0.8 30.4 29.6		3.1 35.1	4.6 36.1
Gross domestic product	3,669.9	1,914.8	1,969.5	1,980.8	1,984.2	2.0	2.9	0.6	0.2	100	100	100	100
at current prices													
Private consumption 5 Government consumption Machinery and equipment Construction Other investment 6 Changes in stocks 7	2,173.3 722.7 293.5 475.3 38.3 14.1	1,156.5 378.8 159.6 245.2 21.4 0.9	1,190.9 387.2 175.8 240.2 22.8 5.2	1,232.2 393.5 166.3 226.2 23.7 – 9.4	1,243.6 402.7 153.6 212.6 24.1 – 8.0	4.1 2.5 6.4 0.9 9.1	3.0 2.2 10.2 - 2.1 6.7	1.6	0.9 2.3 - 7.7 - 6.0 1.7	58.5 19.1 8.1 12.4 1.1 0.0	19.1 8.7	19.0 8.0 10.9 1.1	19.1 7.3 10.1 1.1
Domestic demand Net exports Exports Imports	3,717.2 56.4 1,095.6 1,039.2	1,962.3 16.3 587.0 570.7	2,022.2 7.8 685.4 677.6	2,032.6 38.6 726.9 688.3	2,028.7 83.8 748.6 664.8	3.3 4.8 7.4	3.0 16.8 18.7	0.5 6.1 1.6	- 0.2 3.0 - 3.4	99.2 0.8 29.7 28.8	99.6 0.4 33.8 33.4	1.9 35.1	4.0 35.4
Gross domestic product			2,030.0			2.6	2.6	2.0	2.0	100	100		
IV.Prices (1995=100) Private consumption Gross domestic product Terms of trade	104.8 102.8 100.0	105.2 103.3 100.2	106.8 103.1 95.8	108.9 104.6 96.2	110.4 106.5 98.3	0.4 0.5 0.2	1.5 - 0.3 - 4.4	1.9 1.4 0.4	1.4 1.8 2.2				
V.Distribution of national income Wages and salaries Entrepreneurial and property	2,015.6	ļ [*]	ļ ·	1,120.4	'	2.7	3.9	1.9	1.0	72.0	72.8		72.6
income National income	805.0 2,820.6	411.1 1,469.0	410.3 1,509.2	410.9	428.1 1,559.5	- 0.1 1.9	- 0.2 2.7	0.2 1.5	4.2 1.8	28.0 100			
Memo item: Gross national income (Gross nat. product)			2,020.9			2.6	2.7		2.1				

Source: Federal Statistical Office; figures computed in January 2003. Preliminary figure. — 1 Including telecommunications. — 2 Financial intermediation, real estate activities, rents and corporate services. — 3 Including care-at-home services. — 4 Gross value added after deduction of assumed

bank charges, but excluding taxes on products (offset against subsidies on products). — 5 Including private non-commercial organisations. — 6 Intangible fixed capital formation (inter alia, EDP software, copyrights) and economically useful animals and plants. — 7 Including net increase in valuables.

IX. Economic conditions

2. Output in the producing sector

Adjusted for working-day variations •

	Adjusted f	or working	-day variati	ons o										
			Industry 1											
	Producing total	sector,	Total		Intermedia goods 2	ate	Capital go	nds 3	Consumer	goods 4	Energy 5		Construction	on
	totai	Change	Total	Change	goods	Change	capital go	Change	Consumer	Change	Literay	Change	Construction	Change
		from		from		from		from		from		from		from
		year		previous year		previous year		previous year		previous year		previous year		previous year
Period	1995 = 100	in %	1995 = 100	in %	1995 = 100	in %	1995 = 100	in %	1995 = 100	in %	1995 = 100	in %	1995 = 100	in %
	Germa	ny												
1998 1999	106.2 107.7	+ 3.4	109.6 111.5	+ 4.7 + 1.7	108.7 110.7	+ 3.0 + 1.8	116.2 118.0	+ 8.8 + 1.5	101.6 103.3	+ 1.1 + 1.7	100.4 100.0	- 1.3 - 0.4	87.2 87.9	- 3.2 + 0.8
2000 2001	113.4 113.2	+ 5.3 - 0.2	119.1 119.9	+ 6.8 + 0.7	116.9 116.1	+ 5.6 - 0.7	130.9 134.3	+ 10.9 + 2.6	105.6 105.2	+ 2.2 - 0.4	99.7 98.1	- 0.3 - 1.6	84.9 79.0	- 3.4 - 6.9
2001 Nov. Dec.	117.3 105.5	- 4.0 - 4.4	123.4 111.5	- 4.2 - 5.0	117.6 96.9	- 4.9 - 8.3	138.8 137.0	- 3.6 - 3.9	110.6 98.7	- 3.9 - 1.6	105.4 111.8	- 1.1 + 4.7	84.7 61.2	- 5.3 - 6.3
2002 Jan.	100.9	- 4.2	107.6	- 4.4	107.4	- 4.6	114.4	- 5.2	98.2	- 2.3	111.1	- 0.9	48.4	- 5.3
Feb. Mar.	104.2 7 117.7	- 4.6 - 2.7	111.7 125.5	- 4.9 - 3.5	110.6 123.0	- 3.7 - 1.7	121.8 139.5	- 7.2 - 6.3	98.9 109.1	- 2.8 - 1.3	98.8 103.4	- 1.6 - 0.6	57.7 7 75.3	- 2.2 + 3.4
Apr. May 6	7 111.6 7 108.3	- 1.4 - 3.6	117.8 114.3	- 1.5 - 3.5	116.9 115.4	- 0.2 - 1.7	130.1 122.9	- 2.3 - 5.8	101.5 100.2	- 2.4 - 2.4	97.4 94.3	- 1.0 + 2.2	7 79.6 7 78.3	- 1.4 - 8.6
June 6	7 116.1	- 1.4	124.2	- 1.0	121.1	- 0.5	141.1	- 1.3	104.5	- 1.9	87.0	+ 1.6	7 83.0	- 7.2
July Aug.	7 111.7 7 104.2	- 1.2 - 1.1	118.3 109.7	- 0.5 - 0.6	118.5 111.7	+ 0.4 + 1.2	129.8 116.1	- 0.8 - 0.9	101.0 97.0	- 2.0 - 3.8	88.2 90.0	- 0.9 + 2.4	7 76.9	- 6.8 - 8.8
Sep.	7 118.9	- 0.8	126.4	- 0.4	124.1	+ 2.5	141.1	- 2.7	108.9	- 1.4	93.4	+ 1.4	7 86.6	- 7.2
Oct. × Nov. ×	117.6 120.3		123.6 127.0	- 0.6 + 2.9		+ 1.3 + 3.7	134.5 144.4	- 0.9 + 4.0	109.3 109.7	- 3.5 - 0.8	103.8 110.6	+ 5.5 + 4.9	87.1 82.1	- 7.6 - 3.1
	Wester	rn Germ	any											
1998	105.9		108.7	+ 4.4		+ 2.5	115.7	+ 8.6	99.9	+ 1.0	101.2	- 1.2	87.7	- 1.9
1999 2000	107.2 112.7	+ 1.2 + 5.1	110.1 117.1	+ 1.3 + 6.4	109.0 114.3	+ 1.3 + 4.9	117.1 129.8	+ 1.2 + 10.8	101.1 102.8	+ 1.2 + 1.7	100.6 99.8	- 0.6 - 0.8	88.9 87.5	+ 1.4
2001	112.4	- 0.3	117.6	+ 0.4	113.2	- 1.0	132.9	+ 2.4	101.9	- 0.9	97.9	- 1.9	82.2	- 6.1
2001 Nov. Dec.	116.0 104.8	- 4.2 - 4.6	120.5 109.2	- 4.5 - 5.4	114.3 94.4	- 5.1 - 8.6	136.6 135.2	- 4.0 - 4.4	106.9 95.3	- 4.2 - 2.0	105.3 111.5	- 1.4 + 4.4	87.9 63.8	- 4.4 - 5.5
2002 Jan.	100.3	- 4.4	105.3	- 4.8	104.6	- 5.0	113.0	- 5.7	95.1	- 2.5	110.9	- 1.1	50.8	- 3.2
Feb. Mar.	103.6 7 116.9	- 4.4 - 5.0 - 3.2	109.4 122.7	- 5.4 - 4.1	107.7 119.8	- 4.3 - 2.4	120.4 137.7	- 7.7 - 6.6	95.7 105.3	- 3.3 - 1.8	98.7 103.2	- 1.8 - 0.7	60.9 7 80.5	- 2.2 + 4.8
Apr. May 6	7 110.8 7 107.2	- 1.6 - 3.8	115.3 111.5	- 1.9 - 3.9	113.6 111.8	- 0.6 - 2.3	128.7 121.4	- 2.7 - 6.0	98.2 96.3	- 2.5 - 2.7	97.2 94.2	- 1.1 + 2.5	7 85.2 7 83.3	+ 0.5 - 7.1
June 6	7 115.1	- 3.8 - 1.5	121.3	- 1.5	117.5	- 0.8	139.3	- 1.6	100.7	- 2.3	86.6	+ 1.5	7 88.0	- 5.4
July Aug.	7 110.9 7 102.4	- 1.1 - 1.3	115.8 106.4	- 0.7 - 1.0	115.1 107.8	+ 0.2 + 0.8	128.7 113.7	- 0.7 - 1.2	97.8 93.1	- 2.1 - 4.0	87.9 89.8	- 1.0 + 2.6	7 90.2 7 80.1	- 4.7 - 6.8
Sep.	7 117.7	- 1.0	123.4	- 0.8	120.5	+ 2.4	138.9	- 3.3	105.1	- 2.0	93.4	+ 1.6	7 91.5	- 5.5
Oct. × Nov. ×	116.4 119.1		120.7 123.9	- 0.8 + 2.8	119.1 118.4	+ 1.3 + 3.6	132.5 142.1	- 1.3 + 4.0	105.7 105.8	- 3.6 - 1.0	103.6 110.6	+ 5.5 + 5.0	91.9 86.4	- 6.9 - 1.7
	Easterr	n Germa	ny											
1998 1999	109.1 114.4		126.2 135.7	+ 9.2 + 7.5		+ 11.3 + 8.9	126.3 135.5	+ 11.5 + 7.3	126.5 134.0	+ 3.8 + 5.9	94.0 95.1	- 2.3 + 1.2	85.1 84.2	- 8.3 - 1.1
2000	121.5	+ 6.2	152.7	+ 12.5	157.0	+ 14.5	153.2	+ 13.1	145.7	+ 8.7	98.3	+ 3.4	75.6	- 10.2
2001 Nov	123.0			+ 4.8		+ 3.6	163.7	+ 6.9	152.6	+ 4.7	99.5	+ 1.2	67.1	- 11.2 - 9.1
2001 Nov. Dec.	132.8 114.1		172.5 149.7	- 0.1 - 0.5	170.2 135.7	- 1.4 - 5.5	186.4 174.5	+ 3.0 + 3.7	162.3 146.5	- 1.3 + 2.2	114.3	+ 1.4 + 7.4	73.2 51.9	- 9.1 - 9.6
2002 Jan. Feb.	108.4 111.2	- 1.3 + 1.3	146.7 151.0	+ 0.5 + 2.0	151.6 155.9	+ 0.1 + 3.3	143.7 151.0	+ 2.0 - 0.3	142.1 143.7	- 0.2 + 2.2	113.1 99.5	+ 1.1 + 0.2	39.7 46.2	- 13.7 - 1.7
Mar.	7 126.9	+ 2.6	171.9	+ 4.0	174.3	+ 6.6	177.1	+ 0.6	163.2	+ 3.8	105.4	+ 0.9	7 56.5	- 3.3
Apr. May 6	7 120.8 7 121.4	- 1.9	160.6 161.9	+ 3.5 + 1.4	171.9	+ 5.2 + 4.2	159.6 154.0	+ 5.5 - 2.0	148.2 154.5	- 1.5 + 0.2	98.6 95.2	- 0.4 + 0.1	7 60.3	- 9.7 - 15.4
June 6 July	7 128.2 7 121.2		172.4 159.8	+ 3.4 + 0.8	177.2 172.3	+ 3.1	179.4 153.9	+ 4.8 - 1.9	158.3 146.6	+ 2.5	90.2 90.8	+ 2.3 + 0.3		- 14.8 - 16.0
Aug.	7 124.7 7 132.7	- 2.6 - 0.8 + 0.5	165.7 177.6	+ 0.6 + 3.4 + 4.7	172.3 173.7 180.2	+ 3.5 + 5.1 + 2.6	166.6 188.1	+ 4.8 + 7.9	152.5 163.2	- 0.8 - 1.0 + 4.7	91.9 93.5	+ 1.2	7 65.3	- 16.0 - 16.7 - 14.5
Sep. Oct. ×	131.7	- 0.2	172.7	+ 2.1	177.4	+ 1.7	178.0	+ 7.9	160.4	- 3.0	105.4	+ 5.0	69.8	- 11.1
Nov. x	134.7		178.8		178.9			+ 3.8			110.5		66.6	

Source of the unadjusted figures: Federal Statistical Office. — **o** By means of the Census X-12-ARIMA method, version 0.2.8. — **1** Manufacturing sector, unless assigned to the main grouping energy, plus mining and quarrying. — **2** Including mining and quarrying except energy-producing materials. — **3** Including manufacture of motor vehicles, trailers and semi-trailers. — **4** Including printing and service activities related to printing. — **5** Electricity, gas, steam and hot water supply, mining and quarrying of energy-pro-

ducing materials, and especially manufacture of refined petroleum products. — 6 Influenced by the exceptional working-day situation. — 7 Provisional up to adjustment to the figures of the annual overall survey in the construction sector. — x Provisional; adjusted in advance by the Federal Statistical Office, by way of estimates, to the results of the Quarterly Production Survey for the fourth quarter (industry in Germany: + 1.6%).

IX. Economic conditions

3. Orders received by industry *

Adjusted for working-day variations •

	Adjusted for	workin	ig-day	variations •														
	Industry																	
	Total			Domestic ord	ders		Foreign orde	rs		Intermediate	goods		Capital good	_S 1		Consumer go	ods 2	
Period	1995=100	Chang from previou year in %		1995=100	Change from previous year in %		1995=100	Change from previou year in %		1995=100	Change from previou year in %		1995=100	Change from previou year in %			Change from previou year in %	
	German	y																
1998 1999	111.0 113.3	+ +	3.7 2.1	103.0 102.7	+ -	4.0 0.3	125.4 132.3	+ +	3.2 5.5	105.4 106.3	- +	0.2 0.9	119.9 123.9	+ +	8.1	100.1 101.0	++	0.8 0.9
2000 2001	128.9 126.8	+ -	13.8 1.6	111.2 108.6	+ -	8.3 2.3	161.0 159.7	+	21.7 0.8	121.3 116.4	+ -	14.1 4.0	144.1 143.3	+ -	16.3 0.6	105.2 106.8	+	4.2 1.5
2001 Nov. Dec.	123.3 120.9	_	8.6 5.5	105.8 99.9	- -	8.4 4.2	155.0 158.9	_ _	8.8 7.0	111.8 102.6	<u> </u>	10.4 8.1	140.3 147.6	- -	8.8 4.4	104.7 92.6	- -	2.1
2002 Jan. Feb. Mar.	123.0 123.0 137.5	- - -	4.3 5.9 2.7	103.9 102.6 112.3	- - -	5.0 7.7 8.3	157.4 159.7 183.0	- - +	3.5 3.7 4.4	113.0 114.6 124.8	- - -	7.5 4.4 2.9	138.4 135.3 155.5	- - -	2.3 7.5 2.8	104.7 109.5 119.3	- - -	2.4 4.1 1.3
Apr. May June	125.6 127.3 130.4	+ + -	0.7 0.7 1.6	105.0 101.4 107.0	- - -	2.9 5.1 2.1	162.9 174.0 172.7	+ + -	5.4 7.6 0.9	118.3 116.5 121.5	+ - -	1.7 1.0 0.7	140.3 147.9 148.6	+ + -	0.1 2.9 2.0	102.6 96.3 101.1	+ - -	0.5 2.5 2.2
July Aug. Sep.	126.1 118.3 131.4	+ + +	0.3 1.2 3.2	106.5 100.7 109.4	- - -	2.0 3.3 1.3	161.5 150.1 171.2	+ + +	3.3 7.1 8.9	118.4 108.7 121.6	+ + +	1.5 0.7 4.9	142.3 133.1 146.8	+ + +	0.6 3.7 3.2	99.4 101.1 113.0	- - -	4.6 6.6 1.6
Oct. Nov. p	129.4 131.4	+ +	4.7 6.6	108.7 108.4	++	1.6 2.5	166.9 173.0	++	8.7 11.6	121.0 120.8	++	4.8 8.1	144.8 150.4	+ +	6.7 7.2	107.3 104.5	_	2.6 0.2
	Western	Gern	папу															
1998 1999 2000 2001	110.2 112.3 127.5	+ +	3.0 1.9 13.5	102.4 101.8 109.7 106.7	+ - +	3.6 0.6 7.8	123.5 130.2 158.0	+ + +	2.0 5.4 21.4	104.0 104.5 118.7	- + +	0.9 0.5 13.6	119.8 123.9 144.0		7.1 3.4 16.2	99.0 99.7 103.1	+ + +	0.5 0.7 3.4
2001 2001 Nov.	124.8	_	2.1 8.7	106.7	- -	2.78.8	155.8 151.6	_	1.4 8.6	112.9 108.4	_	4.9 10.9	142.8 140.1	- -	0.8 8.7	104.4	+	1.3
Dec. 2002 Jan. Feb.	118.6 121.0 120.9	- - -	5.4 4.8	97.5 101.9 100.7	- -	4.1 5.7	154.8 153.8 155.7	- - -	6.8 3.7 3.4	99.3 108.9	- -	9.0 8.6	146.4 138.8 134.9	- - -	3.6 2.2	90.3 102.2 107.3	- - -	2.3 2.8 4.3
Mar. Apr.	133.1	- +	6.1 4.4 0.8	110.7 110.0 103.1	- - -	8.4 8.8 2.6	172.8 158.4	+ +	1.0 5.0	111.0 120.0 114.3	- - +	4.1 4.1 1.2	151.0 140.0	- - +	8.0 5.3 0.7	116.9	- - +	1.4
May June	125.4 127.9	+ -	1.0 2.0	99.2 104.4	- -	5.3 3.0	170.3 168.2	+	8.2 1.0	112.5 117.6	_	1.6 1.0	148.4 147.7	+ -	3.8 2.6	93.3 98.2	-	2.9 2.7
July Aug. Sep.	124.4 115.1 129.0	+ + +	0.4 0.2 3.4	104.6 98.0 107.0	- - -	2.1 4.2 1.3	158.4 144.4 166.8	+ + +	3.4 5.7 8.9	114.3 104.1 117.3	+ ± +	1.1 0.0 4.8	143.1 131.0 146.3	+ + +	1.2 2.3 3.6	97.3 98.4 110.4	- - -	4.8 7.3 1.8
Oct. Nov. p	126.8 128.4	+ +	4.4 5.9	106.0 105.9	++	1.0 2.1	162.4 167.0	++	8.2 10.2	116.7 116.7	++	4.5 7.7	143.8 148.4	+ +	6.1 5.9	104.5 101.5	_	2.9 0.5
	Eastern	Germ	any															
1998 1999 2000	124.0 129.7	+ +	15.6 4.6	109.6 113.9 129.8	+ +	8.1 3.9	196.3 209.7	+ +	43.0 6.8	126.6 134.7	+ +	7.7 6.4	121.3 124.6 145.3	+	27.3	124.3 131.8 151.5	+	6.0 6.0
2000	153.4 161.2	+ +	18.3 5.1	133.0		14.0 2.5	272.8 303.9	++	30.1 11.4	162.6 172.9	++	20.7 6.3	150.3	+ +	16.6 3.4	160.9	+	14.9 6.2
2001 Nov. Dec.	156.5 160.3	=	6.7 6.2	131.8 130.7	- -	4.6 4.3	281.4 309.8	_ _	11.3 10.1	167.2 156.0	- +	4.3 3.6	144.2 168.0	-	10.0 13.8	166.2 144.5	_ _	2.9
2002 Jan. Feb. Mar.	155.5 156.4 210.6	+ - +	1.5 3.6 19.5	128.8 126.2 140.8	+ - -	1.9 1.2 3.4	290.3 308.9 563.7	+ - +	0.6 8.3 70.3	179.0 170.7 201.3	+ - +	6.5 7.6 10.1	131.8 142.1 227.7	- + +	4.5 0.8 33.2	162.1 159.6 175.8	+ - +	2.3 1.6 1.7
Apr. May June	162.4 159.8 172.8	- - +	0.9 2.4 4.9	129.3 129.5 140.0	- - +	6.0 2.3 7.4	329.9 312.8 338.6	+ - -	10.9 2.7 0.1	181.2 180.2 183.9	+ + +	7.3 5.3 2.5	144.1 139.3 163.5	- - +	9.8 11.7 7.4	165.3 164.9 168.2	+ + +	2.2 3.5 5.0
July Aug. Sep.	154.3 172.8 172.1	- + +	1.5 14.9 2.0	130.3 135.1 139.9	- + -	2.1 7.0 0.5	275.4 363.3 334.7	± + +	0.0 33.6 7.4	183.4 182.1 189.4	+ + +	5.4 7.7 5.9	128.6 166.7 155.6	- + -	9.2 26.7 2.6	147.5 161.5 172.8	- + +	2.3 3.9 2.6
Oct. Nov. p	174.2 182.6	+ +	10.5 16.7	142.2 140.4	++	6.9 6.5	336.2 396.2	+	19.1 40.8	189.5 185.7	++	8.2 11.1	160.4 181.9		16.0 26.1	172.6 173.8	+	1.5 4.6

Source of the unadjusted figures: Federal Statistical Office. — * Economic activities of the manufacturing sector, in particular, excluding manufacture of food products, beverages, tobacco and refined petroleum products; results for kinds of activity units; figures excluding value-added tax. — \mathbf{o} By

means of the Census X-12-ARIMA method, version 0.2.8. — 1 Including manufacture of motor vehicles, trailers and semitrailers. — 2 Including printing and service activities related to printing.

IX. Economic conditions

4. Orders received by construction *

Adjusted for working-day variations •

	Germany						Western G	err	nany				Eastern Ge	ermany			
	Total			Housing con- struction	Industrial construc- tion 1	Public construc- tion	Total			Housing con- struction	Industrial construc- tion 1	Public construc- tion	Total		Housing con- struction	Industrial construc- tion 1	Public construc- tion
		fro	vious					fro	evious					Change from previous year			
Period	1995 = 100	in 9	%	1995 = 100			1995 = 100	ĺn	%	1995 = 100			1995 = 100	ín %	1995 = 100		
1998 1999	84.0 82.2	 -	0.5 2.1	82.4 78.2	79.9 80.2	90.1 87.6	86.6 87.3	++	0.6 0.8	83.4 84.0	86.7 88.7	88.8 88.1	77.7 69.9	- 3.4 - 10.0		64.7 61.1	93.8 86.2
2000 2001	75.1 71.0	-	8.6 5.5	65.4 54.2	75.6 73.3	82.1 81.3	81.2 79.2	-	7.0 2.5	73.3 64.2	84.9 84.9	82.7 83.3	60.5 51.6				80.3 75.6
2001 Oct. Nov. Dec.	69.2 61.2 59.7	- - -	5.6 3.2 14.0	50.5 39.9 39.4	67.5 69.4 67.0	85.7 67.7 66.7	77.0 66.7 69.1	- -	4.9 2.6 10.5	59.3 47.1 48.5	77.6 79.7 80.6	89.0 65.6 70.6	50.6 48.2 37.5	- 4.7	25.3	46.1	76.8 73.6 55.7
2002 Jan. Feb. Mar.	47.1 55.5 83.9	- - +	8.2 3.0 5.4	38.0 40.9 55.6	51.9 62.7 96.4	48.4 58.1 90.8	53.6 60.1 98.5	- - +	8.2 7.5 10.5	47.3 49.7 69.5	59.7 66.8 118.8	51.0 59.7 95.7	31.7 44.8 49.6		23.0		40.7 53.7 77.1
Apr. May June	71.4 69.3 79.8	- -	4.9 14.1 11.4	52.8 51.3 55.2	72.3 67.3 77.6	85.0 85.8 101.9	80.1 75.9 88.2	- - -	6.8 15.2 10.3	64.8 62.4 66.6		88.7 84.3 102.8	51.0 53.6 60.1	+ 2.6 - 10.1 - 15.2	28.6	45.3	74.5 90.1 99.2
July Aug. Sep.	70.4 66.4 76.5	- -	5.5 11.2 2.4	45.3 46.4 50.6	72.4 64.8 76.3	87.7 83.9 97.1	78.4 70.8 84.0		4.2 13.3 4.1	55.1 54.5 61.0	83.8 72.2 85.9	88.7 80.8 98.3	51.7 55.9 58.7	- 9.6 - 4.3 + 3.9	29.9		84.9 92.5 93.6
Oct.	63.5	_	8.2	44.1	64.2	77.9	69.9	-	9.2	55.2	72.7	77.0	48.5	- 4.2	21.3	44.8	80.4

Source of unadjusted figures: Federal Statistical Office. — \star Values exclusive of value-added tax. The figures refer to the economic classifications "Site preparation" and "Building of complete constructions or parts thereof; civil en-

gineering". — ${\bf o}$ Bundesbank calculation. — 1 Including the railways and post office.

5. Retail trade turnover *) Germany

	Retail tra	de 1																e te	,						-
							by e	nterp	rises' mai	n pro	duct	range													
	Total					Food, be		ges,	Pharmace and medi goods, co and toile articles 2	cal sme		Clothing, footwear leather go			Furniture lighting equipme			Retail tra sales of n and moto sales of a	notor orcycl	vehi es pl	cles us	l	Retail sal motor ve		₅ 3
		pre	nge f vious	year	in %		fror pre	vious		fror pre	vious		froi pre	vious		fror pre	/ious		prev	nge f vious	year				n vious
Period	2000 = 100	not adju	sted	price adju		2000 = 100	yea in %		2000 = 100	yea in %		2000 = 100	yea in 🤊		2000 = 100	yea in %		2000 = 100	not adjus	ted	price adjus		2000 = 100	yeaı in %	
1998 1999	96.9 97.7	++	1.0 0.8	+	1.1 0.5	97.1 98.0	++	1.5 0.9	88.2 94.7	+	5.8 7.4	100.3 100.2	=	1.1 0.1	104.4 102.3	+	3.9 2.0	97.5 98.7	++	1.8 1.2	++	1.5 0.8	99.2 102.9	++	5.5 3.7
2000 2001	100.0 101.9	+ +	2.4 1.9	++	1.2 0.2	100.0 104.7	+ +	2.0 4.7	100.0 107.4	++	5.6 7.4	100.0 99.6	- -	0.2 0.4	100.0 98.8	-	2.2 1.2	100.0 101.9	++	1.3 1.9	+ +	0.1 0.4	100.0 102.3	-	2.8 2.3
2001 June	96.9	+	4.8	+	2.2	104.4	+	6.5	104.3	+	8.3	88.1	+	2.4	89.8	+	3.0	99.1	+	4.4	+	2.1	106.5	+	3.1
July Aug. Sep.	98.0 98.7 97.4	+ + -	2.8 2.3 0.9	+ + -	0.3 0.3 2.2	102.1 104.8 97.4	+ + +	6.6 7.7 1.2	108.1 106.4 100.3	+ + +	10.1 8.1 3.0	93.1 89.0 110.3	- +	0.6 4.2 6.0	89.0 88.3 92.2	- + -	4.6 0.2 4.1	99.9 98.5 96.6	+ + -	3.4 2.3 0.6	+ + -	1.2 0.3 1.8	106.3 96.9 94.0	+ + +	4.9 2.0 1.6
Oct. Nov. Dec.	104.4 110.6 123.2	+ + -	2.8 2.5 0.2	+ + -	1.4 1.4 1.4	106.0 111.5 123.2	+ + +	7.7 6.9 4.0	110.2 113.0 124.0	+ + +	8.5 7.7 7.7	104.6 109.9 124.7	+	5.4 1.6 3.2	105.7 112.7 116.8	+ - -	0.6 2.7 4.6	104.7 109.7 116.6	+ + -	4.4 3.5 0.3	+ + -	3.0 2.4 1.5	106.5 108.0 93.8	+ + -	11.3 8.3 0.1
2002 Jan. Feb. Mar.	92.6 86.9 102.6	<u>-</u> -	2.6 1.3 2.0	<u>-</u> -	4.1 2.7 3.4	95.9 93.3 110.6	+ + +	1.9 2.9 2.5	108.2 100.4 109.0	+ + +	1.8 4.0 2.2	83.6 72.9 99.4	- - -	5.3 5.0 0.2	87.4 86.1 93.4	- -	7.3 7.9 14.8	91.3 87.8 104.3	- - -	1.9 0.5 3.1	- -	3.6 2.1 4.5	87.4 92.0 111.0	+ + -	0.9 3.4 6.4
Apr. May June	101.0 99.9 93.2	± -	0.0 4.4 3.8	<u>-</u> -	1.0 4.7 3.5	105.6 108.2 101.1	+ - -	0.4 0.8 3.2	113.6 109.4 106.1	+ - +	10.3 0.2 1.7	98.0 97.0 85.9	- - -	4.8 10.1 2.5	92.4 83.0 78.1		5.3 13.5 13.0	104.6 101.8 96.6	+ - -	2.0 4.7 2.5	+ - -	0.7 5.2 2.6	117.9 108.4 108.9	+ - +	9.4 5.0 2.3
July Aug. Sep.	99.2 96.3 96.3	<u>+</u> -	1.2 2.4 1.1	 - -	1.7 2.1 0.8	104.7 105.4 98.9	+ + +	2.5 0.6 1.5	114.8 109.4 107.4	+ + +	6.2 2.8 7.1	93.2 86.1 99.7	+ - -	0.1 3.3 9.6	87.6 80.6 85.6	<u>-</u> -	1.6 8.7 7.2	102.2 96.3 96.8	+ - +	2.3 2.2 0.2	+ - +	2.1 2.2 0.1	112.8 95.4 98.5	+ - +	6.1 1.5 4.8
Oct. Nov. s	103.9 103.6	-	0.5 6.3	-	0.4 6.0	106.6 104.5	<u>+</u>	0.6 6.3	112.0 114.2	+ +	1.6 1.1	107.8 100.6	+	3.1 8.5	97.7 102.9	-	7.6 8.7	104.7 102.5	± -	0.0 6.6	-	0.1 6.5	108.7 99.8	<u> </u>	2.1 7.6

Source: Federal Statistical Office. — * Excluding value-added tax; figures from 2001 provisional, partly revised and, judging by past experience, subject to considerable uncertainty in the most recent months. — 1 Excluding

sales of motor vehicles and motorcycles and excluding the sale of automotive fuel. — 2 Retail sales in stores. — 3 Including motor vehicle parts and accessories.— 4 At 1995 prices.

IX. Economic conditions

6. Labour market *

	Employed	1 2			Employees	1		Persons in employme	nt 3				Unemploy	ed		
	Limpioyeu	Chang			Imployees	Change from		Mining and manu- factur- ing sector	Con-	Short- time workers	motion	Persons under- going vocational further training	onemploy	Change from previous	Unem- ploy-	
Period	Thou- sands	in %		Thou- sands	Thou- sands	previou year in %	S	Thousands					Thou- sands	year, thou- sands	ment rate 6 in %	Vacancies, thou- sands
	Germa	ny														
2000 2001 2002	38,753 38,919 		1.8 0.4 	+ 675 + 166	34,748 34,835 		1.8).3 	6,373 6,395 	1,053 958 	86 123 207	316 243 192	352 345 332	3,889 3,852 4,060	- 211 - 37 + 209	9.6 9.4 9.8	514 506 451
2001 Dec.	39,139		0.2	- 67				6,336	921	176	215	319	3,964	+ 155	9.6	389
2002 Jan. Feb. Mar.	38,354 38,343 38,495	- -	0.2 0.2 0.3	- 69 - 81 - 104	34,302	- 0).3	6,272 6,247 6,237		212 246 258	198 192 187	317 326 335	4,290 4,296 4,156	+ 197 + 184 + 156	10.4 10.4 10.0	422 487 527
Apr. May June	38,698 38,753 38,722	<u>-</u>	0.3 0.5 0.6	- 120 - 189 - 247	34,637	- 0).5	6,219 6,207 6,198	897 897 896	245 201 202	185 184 185	345 348 336	4,024 3,946 3,954	+ 156 + 226 + 260	9.5	537 517 497
July Aug. Sep.	38,653 38,670 38,857	-	0.7 0.9 0.9	262332356	34,644	- 0).9	6,214 6,220 6,215	894 895 893	173 145 216	187 191 199	315 320 337	4,047 4,018 3,942	+ 248 + 229 + 199	9.7 9.6 9.5	471 458 420
Oct. Nov. Dec.	o 38,927 	0 _	0.9	o – 361 				6,187 	884 	214 205 165	202 197 180	342 339 318	3,930 4,026 4,225	+ 204 + 237 + 262	9.4 9.7 10.1	378 344 324
	Wester	n Ger	rmai	ny												
2000 2001 2002	- l -		:		:		:	5,761 5,769 	749 696 	62 96 165	70 61 50	212 209 203	2,529 2,478 2,649	- 226 - 51 + 171	7.8 7.4 7.9	452 440 382
2001 Dec.								5,708	674	147	54	189	2,584	+ 130	7.7	334
2002 Jan. Feb. Mar.	•				:		:	5,649 5,626 5,616		179 207 217	52 51 50	190 197 204	2,791 2,789 2,683	+ 169 + 166 + 144	8.3 8.3 8.0	367 419 449
Apr. May June				:	:		:	5,597 5,585 5,575	666 665 663	206 166 168	50 50 50	212 215 209	2,603 2,561 2,560	+ 129 + 176 + 180	7.8 7 7.6 7.6	457 439 421
July Aug. Sep.					:			5,590 5,592 5,585	662 662 660	145 106 143	50 50 49	193 195 207	2,636 2,631 2,594	+ 191 + 185 + 173	7.8 7.8 7.7	398 379 350
Oct. Nov. Dec.	•				:			5,559 	654 	156 8 159 135						
	Easterr	Gerr	man	у												
2000 2001 2002 2001 Dec.	: :		:		:		:	612 626 628	305 262 247	24 27 41 29	246 182 142 161	140 136 129 130	1,359 1,374 1,411 1,380	l	17.5 18.0	62 66 69 55
2002 Jan.								623	224	33	147	128	1,499	+ 28	19.1	56
Feb. Mar.							:	622 621	215 9 227	39 41	141 137	129 131	1,507 1,473	+ 17 + 13	19.2 18.8	68 78
Apr. May					:		:	622 622	231 232	40 35	136 135	133 133	1,421 1,385	+ 27 + 49		80 78
June July								623 624	232 232	35 28	135 137	128 122	1,394 1,411	+ 80 + 57	17.8 18.0	76 73
Aug. Sep.			:		:			628 630	232 233	38 74	141 150	125 130	1,387 1,347	+ 45 + 26		79 70
Oct. Nov. Dec.				:	:		:	628 		8 46 30					8 17.6	

Source: Federal Statistical Office; Federal Labour Office. — * Monthly figures: levels at end of month; employed persons and employees: averages; short-time workers: levels at mid-month; annual and quarterly figures: averages. — 1 Work-place concept.— 2 Annual figures, calculated by the Bundesbank; deviations from the official figures are due to rounding. — 3 Including active proprietors. — 4 The figures refer to the economic classifications "Site preparation" and "Building of complete constructions or parts thereof; civil engineering". — ^ 5 Employees involved in job creation schemes and structural adjustment measures (SAM). — 6 Relative to the

total civilian labour force. — 7 From May 2002 calculated on the basis of new labour force figures. — 8 From November 2002, change against previous periods understated for western Germany and overstated for eastern Germany owing to restructuring of labour exchange districts in Berlin. — 9 The figures from March 2002 onwards are positively influenced by the fact that construction firms which are required to report and which have been identified in the course of drawing up the corporate register are included for the first time. — o First preliminary estimate.

IX. Economic conditions

7. Prices Germany

	Consumer p	orice index fo	r all househ	olds							Indices of		
		By region		By product	group]	Index of		foreign trac	de prices	-
	Total	Western Germany	Eastern Germany	Food	Other durable and non- durable consumer goods	Services excluding house rents 1	House rents	Overall con- struction price level 1	producer prices of industrial products sold on the domestic market ²	Index of producer prices of farm products 2	Exports	Imports	Index of world market prices of raw materials 3
Period	1995 = 100												
	Index le	evel											
1999	104.9	104.8	105.7	101.9	102.8	106.4	109.2	98.5	98.5	89.9	100.9	100.2	113.4
2000 2001	106.9 109.6	106.9 109.4	107.5 110.6	101.5 106.8	106.1 108.3	108.0 111.2	110.6 112.0	99.2 99.4	101.8 104.9	95.4 100.8	104.4 105.4	111.4 112.1	172.2 157.5
2002	111.0	110.9	111.8	108.0	109.1	113.6	113.5	99.5					151.0
2001 Jan. Feb. Mar.	108.3 109.0 109.1	108.2 108.9 109.0	109.1 109.8 110.0	103.5 103.9 105.1	107.3 108.1 108.2	109.8 111.0 110.7	111.4 111.5 111.6	99.5	104.4 104.7 104.9	96.2 98.5 102.7	105.3 105.4 105.6	112.9 113.6 113.3	158.9 167.4 161.3
Apr. May June	109.5 110.0 110.2	109.3 109.8 110.0	110.4 111.1 111.2	107.0 109.0 109.3	108.5 109.2 109.0	110.4 110.3 111.2	111.7 111.8 111.9	99.5	105.4 105.6 105.7	103.0 103.7 100.3	105.7 106.0 106.0	113.9 115.0 114.7	166.4 175.4 176.0
July Aug. Sep.	110.2 110.0 110.0	110.0 109.8 109.8	111.3 111.0 111.0	108.7 107.3 107.1	108.4 108.4 108.9	112.7 112.5 111.7	112.0 112.1 112.2	99.4	105.2 105.1 105.2	100.5 101.9 102.6	105.8 105.4 105.3	113.0 111.7 111.1	166.0 160.7 157.2
Oct. Nov. Dec.	109.7 109.5 109.6	109.5 109.3 109.4	110.7 110.5 110.7	107.2 106.6 107.2	108.2 107.9 107.8	111.2 111.1 111.4	112.3 112.4 112.5	99.3	104.3 104.0 103.7	100.9 100.5 99.8	105.0 104.9 104.8	109.3 108.7 108.5	138.9 131.9 130.2
2002 Jan. Feb. Mar.	110.6 110.9 111.1	110.4 110.7 110.9	111.7 111.9 112.0	110.4 109.8 109.6	108.7 108.9 109.4	112.2 113.0 113.0	112.9 113.0 113.2	99.4	104.3 104.4 104.7	98.2 99.4 99.7	104.9 104.9 105.2	109.1 109.6 110.5	135.1 141.1 157.5
Apr. May June	111.2 111.2 111.1	111.0 111.0 110.9	112.1 112.0 111.7	109.5 109.4 108.4	109.8 109.4 109.1	112.6 113.2 113.9	113.3 113.4 113.5	99.5	104.6 104.6 104.5	96.0 94.5 r 93.7	105.4 105.4 105.4	110.7 110.1 108.7	162.9 157.5 147.9
July	111.3	111.2	111.9	107.7	108.9	115.2	113.6	00.5	104.2		105.3	108.2	147.0
Aug. Sep.	111.2 111.1	111.1 111.0	111.7 111.8	106.8 106.6	108.9 109.3	115.0 114.2	113.7 113.7	99.5	104.1 104.3	r 93.4 94.6	105.4 105.5	108.8 109.5	152.0 158.8
Oct. Nov.	111.1 110.7	111.0 110.5	111.6 111.3	106.2 105.7	109.4 108.9	114.0 113.4	113.8 113.9	99.4	104.6 104.4		105.5 105.4	109.5 108.0	
Dec.	110.8	110.7	111.3	106.0			114.0						151.9
	Change	from pre	evious yea	ar ın %									
1999	+ 0.6	+ 0.7	+ 0.4	1	+ 0.9	+ 0.3	+ 1.1	- 0.3	- 1.0	- 6.0		- 0.5	+ 16.9
2000 2001 2002	+ 1.9 + 2.5 + 1.3	+ 2.0 + 2.3 + 1.4	+ 1.7 + 2.9 + 1.1	- 0.4 + 5.2 + 1.1	+ 3.2 + 2.1 + 0.7	+ 1.5 + 3.0 + 2.2	+ 1.3 + 1.3 + 1.3	+ 0.7 + 0.2 + 0.1	+ 3.4 + 3.0	+ 6.1 + 5.7	+ 3.5 + 1.0	+ 11.2 + 0.6	+ 51.9 - 8.5 - 4.1
2002 2001 Jan.	+ 1.3	+ 1.4	+ 1.1	+ 1.1	+ 0.7	+ 2.2	+ 1.3	+ 0.1	+ 4.6	+ 5.7	+ 2.8	+ 6.5	+ 8.2
Feb. Mar.	+ 2.6 + 2.5	+ 2.6 + 2.5	+ 2.7 + 2.8	+ 1.9	+ 3.2 + 2.8	+ 3.2 + 3.1	+ 1.2	+ 0.6	+ 4.7 + 4.9	+ 5.7 + 8.7	+ 2.5 + 2.4	+ 5.4 + 4.2	+ 6.5
Apr. May	+ 2.9 + 3.5	+ 2.8 + 3.4 + 3.0	+ 3.2 + 3.8	+ 6.7	+ 3.4 + 3.9	+ 3.1	+ 1.2 + 1.2	+ 0.3	+ 5.0 + 4.6	+ 9.1 + 9.0	+ 2.0 + 1.6	+ 5.1 + 4.0	+ 11.0 + 1.9
June July Aug.	+ 3.1 + 2.6 + 2.6	+ 3.0 + 2.5 + 2.4	+ 3.4 + 3.2 + 3.0	+ 6.9 + 6.8 + 6.2	+ 2.9 + 2.2 + 2.2	+ 3.1 + 3.0 + 3.0	+ 1.2 + 1.2 + 1.2	+ 0.1	+ 4.3 + 3.1 + 2.7	+ 3.9 + 3.4 + 4.5		+ 3.6 + 1.7 - 0.9	+ 3.4 - 1.0 - 10.3
Sep.	+ 2.1	+ 2.0	+ 2.8	+ 6.4	+ 1.2	+ 3.1	+ 1.2	- 0.1	+ 1.9	+ 5.0	- 0.3	- 3.6	- 20.4
Oct. Nov.	+ 2.0 + 1.7	+ 2.0 + 1.5	+ 2.7 + 2.0	+ 6.6 + 5.4	+ 0.7 + 0.1	+ 3.2 + 2.8	+ 1.2 + 1.3	- 0.2	+ 0.6 + 0.1	+ 1.8 + 0.3	- 0.9	- 5.6 - 6.6	- 29.9 - 34.4
Dec. 2002 Jan.	+ 1.7 + 2.1	+ 1.6 + 2.0	+ 2.2 + 2.4	+ 5.3 + 6.7	+ 0.3	+ 2.8 + 2.2	+ 1.3		+ 0.1	+ 1.0 + 2.1	- 0.7 - 0.4	- 4.7 - 3.4	- 21.2 - 15.0
Feb. Mar.	+ 1.7 + 1.8	+ 1.7 + 1.7	+ 1.9 + 1.8	+ 5.7 + 4.3	+ 0.7	+ 1.8 + 2.1	+ 1.3 + 1.4	- 0.1	- 0.3 - 0.2	+ 0.9	- 0.5	- 3.5 - 2.5	- 15.7 - 2.4
Apr. May	+ 1.6 + 1.1	+ 1.6 + 1.1	+ 1.5 + 0.8	+ 2.3 + 0.4	+ 1.2 + 0.2	+ 2.0 + 2.6	+ 1.4 + 1.4	± 0.0	- 0.8 - 0.9	- 6.8 - 8.9		- 2.8 - 4.3	- 2.1 - 10.2
June	+ 0.8	+ 0.8	+ 0.4	- 0.8	+ 0.1	+ 2.4	+ 1.4	- 5.5	- 1.1	r – 6.6	- 0.6	- 5.2	- 16.0
July Aug.	+ 1.0 + 1.1	+ 1.1 + 1.2	+ 0.5 + 0.6		+ 0.5 + 0.5	+ 2.2 + 2.2	+ 1.4 + 1.4	+ 0.1	- 1.0	r – 7.0 r – 8.3	± 0.0	- 4.2 - 2.6	- 11.4 - 5.4
Sep. Oct.	+ 1.0 + 1.3	+ 1.1 + 1.4	+ 0.7 + 0.8	- 0.5 - 0.9	+ 0.4 + 1.1	+ 2.2 + 2.5	+ 1.3 + 1.3		- 0.9 + 0.3	– 7.8 p – 6.7	+ 0.2 + 0.5	- 1.4 + 0.2	+ 1.0 + 12.7
Nov. Dec.	+ 1.3 + 1.1 + 1.1	+ 1.1	+ 0.7	- 0.8	+ 0.9	+ 2.1	+ 1.3	+ 0.1	+ 0.4	p – 5.7	+ 0.5	- 0.6	+ 9.3
Dec.	T 1.1	1 T 1.Z	, + U.J	- 1.1	T 1.1	, + 2.U	1 + 1.3			l	l	l	+ 10.7

Source: Federal Statistical Office; for index of world market prices: HWWA Institute. — 1 Calculated by the Bundesbank on the basis of figures provided

by the Federal Statistical Office. — 2 Excluding value-added tax. — 3 HWWA index of raw material prices, on a euro basis.

Period

2001 1st qtr 2nd qtr 3rd qtr 4th qtr

2002 1st qtr 2nd qtr 3rd qtr

IX. Economic conditions

8. Households' income * Germany

Until the end of 1998 DM billion, from 1999 € billion

Gross wage salaries 1	s and	Net wages salaries 2	and	Monetary s benefits red		"Mass inco	ne" 4	Disposable	income 5	Saving 6		Saving ratio 7
DM / €	Change from previous year in %	DM / €	Change from previous year in %	DM / €	Change from previous year in %	DM /€	Change from previous year in %	DM / €	Change from previous year in %	DM / €	Change from previous year in %	%
1,355.4 1,467.3 1,505.9 1,528.1	8.3	941.4 1,003.0 1,032.7 1,029.3		511.2	11.2 7.9	1,367.6 1,476.9 1,543.9 1,558.6	8.0 4.5 1.0	1,917.5 2,054.3 2,120.6 2,181.9	7.1 3.2 2.9	250.1 266.1 261.3 254.0		13.0 13.0 12.3 11.6
1,577.1 1,594.0 1,591.3 1,624.3 855.4	1.1 - 0.2 2.1	1,037.9 1,032.7 1,015.9 1,038.9 549.3	- 0.5	595.7 609.6 621.5	2.3 1.9	1,591.7 1,628.3 1,625.5 1,660.3 877.8	2.1 2.3 - 0.2 2.1 3.4	2,256.4 2,307.5 2,356.5 2,422.8 1,281.6	3.4 2.3 2.1 2.8 3.5	252.1 249.5 244.7 249.6 125.1	– 1.9	10.4 10.3
885.5 904.6		572.8 593.1	4.3 3.5	339.5 347.1	3.3 2.3	912.3 940.2	3.9 3.1	1,320.4 1,370.2	3.0 3.8	129.5 138.1	3.5 6.7	9.8 10.1
221.8 249.6		147.5 158.8	4.1 4.2	84.1 86.1	2.8 3.3	231.6 244.9	3.6 3.9	325.2 339.1	3.3 1.1	26.6 29.0		8.2 8.6
208.6 217.2 225.4 253.4	2.5 1.7	137.0 140.2 152.0 163.9	4.1	86.0 86.5	2.9	224.0 226.1 238.5 251.5	3.1 3.5 3.0 2.7	340.0 342.3 335.6 352.3	3.8 4.2 3.2 3.9	45.8 32.6 28.0 31.7	8.6	9.5
211.1 219.5 228.3	1.0	138.4 141.2 153.7	1.0 0.8 1.1	90.1	4.6 4.7 6.4	229.4 231.3 245.7	2.4 2.3 3.0	343.9 343.1 341.0	1.1 0.2 1.6	47.5 32.9 29.2	3.6 1.0 4.4	9.6

Source: Federal Statistical Office; figures computed in November 2002. — * Households including non-profit institutions which serve households. — 1 Residence concept. — 2 After deducting the wage tax payable on gross wages and salaries and employees' contributions to the social security funds. — 3 Cash benefits from the social security funds, central, regional and local authorities and foreign countries, pension payments (net), social security benefits from private insurance schemes, less social security contributions on social benefits, consumption-related taxes and public

charges. — 4 Net wages and salaries plus monetary social benefits received. — 5 "Mass income" plus operating surplus, self-employed persons' income, property income (net), other current transfers received, income of non-profit organisations which serve households, less taxes (excluding wage tax and consumption-related taxes) and other current transfers paid. Including the increase in claims on company pension funds. — 6 Including the increase in claims on company pension funds. — 7 Saving as a percentage of disposable income.

Pay rates and actual earnings Germany

	Overall econ	omy					Producing se	ctor (includin	g construction)		
	Negotiated v	vage and sala	ry level 1		Wages and sa		Negotiated v	vage and sala	ry level 1		Wages and	
	on an hourly	basis	on a monthly	/ basis	per employed (work-place of		on an hourly	basis	on a monthly	basis	per employ (work-place	
Period	1995=100	% from previous year										
1991 1992 1993 1994	76.7 85.8 92.2 95.4	12.0 7.5 3.4	78.6 87.3 92.9 95.6	11.0 6.5 2.9	82.4 91.0 95.0 96.9	10.4 4.4 2.0	73.4 82.9 90.6 94.3	12.9 9.3 4.1	76.9 85.9 92.0 94.8	11.7 7.1 3.0	77.6 88.4 92.3 96.1	13.9 4.4 4.1
1995 1996 1997 1998 1999	100.0 102.6 104.1 106.2 109.2	4.9 2.6 1.5 2.0 2.8	100.0 102.4 103.9 105.8 108.6	4.6 2.4 1.5 1.8 2.7	100.0 101.4 101.7 102.7 104.3	3.2 1.4 0.3 1.0 1.5	100.0 103.8 105.8 107.7 110.9	6.1 3.8 1.9 1.8 3.0	100.0 102.9 104.6 106.4 109.4	5.5 2.9 1.7 1.7 2.9	100.0 102.9 104.7 106.4 108.3	4.1 2.9 1.7 1.6 1.8
2000 2001	111.4 113.6	2.0 2.0	110.8 113.0	2.0 2.0	106.0 108.0	1.7 1.9	113.2 115.2	2.0 1.8	111.6 113.6	2.0 1.8	111.2 113.7	2.7 2.2
2000 4th qtr	125.9	2.1	125.2	2.1	117.9	1.7	125.2	2.3	123.5	2.3	120.6	2.5
2001 1st qtr 2nd qtr 3rd qtr 4th qtr	103.8 104.8 117.3 128.6	2.1 1.8 2.0 2.2	103.2 104.3 116.7 127.9	2.1 1.8 1.9 2.1	100.8 103.9 107.5 120.0	2.3 2.0 1.6 1.8	104.1 105.4 123.5 127.7	1.6 1.5 2.0 2.0	102.6 104.0 121.9 125.9	1.6 1.5 2.0 2.0	107.2 115.6 109.2 122.6	3.1 2.4 2.0 1.7
2002 1st qtr 2nd qtr 3rd qtr	106.3 107.7 120.2	2.4 2.8 2.5	105.7 107.2 119.6	2.4 2.8 2.5	102.3 105.5 109.8	1.5 1.6 2.2	106.3 109.1 127.3	2.1 3.5 3.1	104.9 107.7 125.7	2.2 3.5 3.1	108.2 117.8 112.9	0.9 1.9 3.4
2002 May June	108.4 108.0	3.0 2.9	107.8 107.5	3.0 2.9	:		111.1 109.5	4.5 3.6	109.6 108.1	4.5 3.7	118.5 122.0	0.7 2.9
July Aug. Sep.	144.1 108.2 108.4	2.2 2.9 2.5	143.4 107.6 107.8	2.2 2.9 2.5			163.1 109.4 109.5	2.7 3.3 3.4	161.0 107.9 108.1	2.7 3.4 3.5	116.3 111.8 110.4	4.3 2.0 3.6
Oct. Nov.	108.5 178.4	2.6 2.3	107.9 177.4	2.6 2.3	:		109.8 176.7	3.6 3.4	108.3 174.4	3.6 3.4	114.4	2.3

¹ Current data are normally revised upwards on account of additional reports. — 2 Source: Federal Statistical Office; figures computed in November 2002. — 3 Producing sector, excluding electricity, gas, steam and hot water supply, and excluding installation and building completion work.

Calculated by the Bundesbank on the basis of data from the Federal Statistical Office, using the old and new classifications of the economic sectors.

X. Foreign trade and payments

1. Major items of the balance of payments of the European monetary union *

€ million

				2002						
osition	1999	2000	2001 1	1st qtr	2nd qtr	3rd qtr	Aug.	Sep.	Oct.	
A. Current account	- 19,025	- 60,364	- 13,778	+ 11,749	+ 5,153	+ 20,326	+ 9,720	+ 8,019	+ 3,71	
1. Foreign trade										
Exports (f.o.b.) incl. supplementary items	818,251	989,822	1,032,971	254,309	267,605	262,240	80,814	88,414	97,6	
Imports (f.o.b.) incl. supplementary items	742,552	958,233	957,141	227,976	234,896	225,082	69,123	77,125	85,9	
Balance	+ 75,702		'		+ 32,710			+ 11,290		
2. Services										
Receipts	247,385	287,014	321,572	71,586	83,839	87,492	28,437	29,398	28,7	
Expenditure	258,096	298,546	320,648	76,068	77,524	81,439	27,132	25,513	27,3	
Balance	- 10,711		· ·	- 4,483						
3. Factor income (balance)	- 37,296	- 27,023	- 39,746	- 7,387	- 15,404			- 2,612	- 3,0	
3. Factor income (balance)	- 37,296	- 27,023	- 39,746	- 7,367	- 15,404	- 11,954	- 52	- 2,612	- 3,0	
4. Current transfers										
Transfer payments from non-residents	64,821	67,634	75,686	31,047	15,350	16,591	5,459	5,337	5,1	
Transfer payments to non-residents	111,544	121,035	126,469	33,760	33,819	27,525	8,684	9,881	11,4	
Balance	- 46,720	- 53,398	- 50,783	- 2,712	- 18,468	- 10,934	- 3,225	- 4,544	- 6,3	
B. Balance of capital transfers	+ 12,797	+ 9,836	+ 8,924	+ 3,105	+ 3,462	+ 2,381	+ 653	+ 1,194	+ 1,4	
C. Financial account (net capital exports: –)	+ 11,651	+ 69,955	- 40,508	- 26,472	- 22,341	- 43,238	- 11,763	- 20,287	- 21,4	
1. Direct investment	- 120,118	– 12,289	– 101,495	– 14,997	- 4,372	- 5,340	+ 1,694	_ 3,417	- 5,0	
Investment outside the euro area	- 320,505	· '	'	- 56,017		· '	– 170		- 11,3	
Foreign investment in the euro area		+ 423,970	+ 154,343	+ 41,020	+ 36,814	+ 17,657	+ 1,864	+ 10,100	+ 6,3	
2. Investment in securities	- 42,955	- 115,170	+ 38,137	- 51,808	+ 67,090	+ 34,499	+ 4,469	+ 15,831	+ 19,4	
Investment outside the euro area	- 311,299	- 411,316	- 287,957	- 72,983	- 49,473	- 17,552	- 3,448	+ 1,819	- 2,3	
Equities	- 156,464	- 287,914	- 108,569	- 33,606	- 12,946	+ 9,617	+ 4,050	+ 12,756	+ 6	
Bonds and notes	- 154,953	- 114,573	- 158,723	- 20,817	- 22,917	- 15,490	- 9,188			
Money market paper	+ 118	- 8,829	- 20,668	- 18,561	- 13,611	- 11,679	+ 1,690			
Foreign investment in the euro area	+ 268,347	+ 296,146	+ 326,091	+ 21,175	+ 116,564	+ 52,050	+ 7,917	+ 14,012	+ 21,7	
Equities	+ 92,300	+ 50,749	+ 231,137	+ 30,372	+ 34,167	+ 1,560	- 728	- 688	- 4,1	
Bonds and notes	+ 117,005	+ 232,191	+ 90,440	+ 994	+ 55,168	+ 29,911	+ 1,052	+ 11,030	+ 12,0	
Money market paper	+ 59,042	+ 13,206	+ 4,514	- 10,190	+ 27,228	+ 20,580	+ 7,593	+ 3,670	+ 13,8	
3. Financial derivatives	+ 3,767	- 2,163	- 3,736	+ 1,567	- 2,755	- 8,014	- 1,923	+ 878	-	
4. Credit transactions and other										
investment (balance)	+ 160,829	+ 182,012	+ 8,765	+ 41,829	- 89,047	- 59,871	- 17,784	- 29,814	- 37,9	
Eurosystem	+ 4,587	- 221	+ 5,004	+ 775	- 4,072	+ 134	- 4,887	+ 1,913	- 4	
Public authorities	- 9,707	- 1,247	+ 1,870	- 9,042	+ 3,601	- 2,670	- 1,789	+ 729	+ 1,0	
Credit institutions	+ 177,500	+ 159,021	+ 6,815	+ 44,219	- 73,607	- 22,269	- 3,956	- 25,570	- 31,8	
long-term	+ 6,611	+ 3,052	- 24,299	+ 8,163	+ 14,219	+ 1,889	- 400	- 7,723	+ 3,0	
short-term	+ 170,896	+ 155,970	+ 31,123		- 87,828	'		- 17,847		
Enterprises and individuals	- 11,554	+ 24,465	- 4,924	+ 5,877	- 14,966	- 35,066	- 7,152	- 6,886	- 6,7	
5. Change in the monetary reserves of										
the eurosystem (Increase: –)	+ 10,128	+ 17,568	+ 17,815	- 3,063	+ 6,741	- 4,513	+ 1,780	- 3,765	+ 2,1	
D. Balance of unclassifiable transactions	- 5,420	- 19,427	+ 45,356	+ 11,617	+ 13,726	+ 20,533	+ 1,390	+ 11,075	+ 16,2	

 $[\]mbox{*}$ Source: European Central Bank. — $\mbox{1}$ From January 2001, including Greece.

X. Foreign trade and payments

2. Major items of the balance of payments of the Federal Republic of Germany (Balances)

	Current accou	ınt									Memo item:
Period	Balance of on current account 1	Foreign trade 1 2 3	Supple- mentary trade items 4 5	Services 6	Factor income	Current transfers	Capital trans- fers and pur- chases / sales of intangible non- produced assets 7	Financial account 7	Change in the monetary reserves at transaction values 8	Balance of unclassifiable transactions	Change in the Bundes- bank's net external assets at transaction values 8
	DM million	1				1	1	1			
1989	+ 107,346	+ 134,576	- 4,107	- 15,210	+ 26,872	- 34,784	- 2,064	- 110,286	- 5,405	+ 10,409	+ 18,997
1990 °	+ 79,475	+ 105,382	- 3,833	- 19,664	+ 32,859	- 35,269	- 4,975	- 89,497	- 11,611	+ 26,608	- 10,976
1991	- 30,416	+ 21,899	- 2,804	- 24,842	+ 33,144	- 57,812	- 4,565	+ 12,614	+ 9,605	+ 12,762	- 319
1992	- 22,924	+ 33,656	- 1,426	- 37,894	+ 33,962	- 51,222	- 1,963	+ 69,792	- 52,888	+ 7,983	- 68,745
1993	- 16,155	+ 60,304	- 3,038	- 45,080	+ 27,373	- 55,714	- 1,915	+ 21,442	+ 22,795	- 26,167	+ 35,766
1994 1995 1996	- 38,805 - 29,671 - 11,959	+ 71,762 + 85,303 + 98,538	- 1,104 - 4,722 - 5,264	- 54,374 - 54,720 - 55,330	+ 4,852 + 178	- 59,940 - 55,710 - 51,294	- 2,637 - 3,845 - 3,283	+ 57,871 + 63,647 + 23,613	+ 2,846 - 10,355 + 1,882	- 19,276 - 19,776 - 10,253	- 12,242 - 17,754 + 1,610
1997	- 4,727	+ 116,467	- 7,360	- 58,715	- 2,376	- 52,742	+ 52	- 76	+ 6,640	- 1,889	+ 8,468
1998	- 10,905	+ 126,970	- 5,934	- 65,301	- 13,337	- 53,304	+ 1,289	+ 17,042	- 7,128	- 298	- 8,231
1999	- 34,991	+ 127,542	- 13,643	- 81,088	- 17,535	- 50,266	- 301	- 51,015	+ 24,517	+ 61,790	- 72,364
2000	- 44,225	+ 115,645	- 13,390	- 86,887	- 6,503	- 53,089	+ 13,351	+ 67,177	+ 11,429	- 47,731	+ 94,329
2001	+ 7,728	+ 186,771	- 9,559	- 92,650	- 24,660	- 52,174	- 1,892	- 57,230	+ 11,797	+ 39,597	+ 63,911
2001 4th qtr	+ 13,883	+ 49,488	- 1,085	- 17,990	– 2,481	- 14,049	- 932	- 56,304	+ 4,078	+ 39,275	+ 71,755
2001 Dec.	+ 2,624	+ 16,215	- 337	- 4,961	– 5,092	- 3,201	- 305	- 22,446	+ 5,636	+ 14,491	+ 60,895
2001 200.	€ million		33.	.,50.	3,032	3,201		22,	. 3,030		. 00,033
1999	- 17,891	+ 65,211	- 6,976	- 41,460	- 8,966	- 25,701	- 154	- 26,084	+ 12,535	+ 31,593	- 36,999
2000	- 22,612	+ 59,128	- 6,846	- 44,425	- 3,325	- 27,144	+ 6,826	+ 34,347	+ 5,844	- 24,405	+ 48,230
2001	+ 3,951	+ 95,495	- 4,887	- 47,371	- 12,609	- 26,676	- 967	- 29,261	+ 6,032	+ 20,246	+ 32,677
2000 1st qtr	- 1,231	+ 16,372	- 1,368	- 10,011	- 788	- 5,436	+ 160	+ 38,650	- 751	- 36,828	+ 32,016
2nd qtr	- 2,845	+ 16,406	- 1,272	- 11,559	+ 121	- 6,542	- 330	+ 28,540	+ 2,388	- 27,753	- 23,447
3rd qtr	- 11,690	+ 13,116	- 1,745	- 12,778	- 3,122	- 7,161	+ 7,412	- 14,904	+ 2,155	+ 17,026	+ 22,523
4th qtr	- 6,846	+ 13,234	- 2,462	- 10,077	+ 464	- 8,005	- 416	- 17,939	+ 2,052	+ 23,150	+ 17,137
2001 1st qtr	- 497	+ 22,540	- 1,413	- 12,613	- 3,523	- 5,487	+ 552	+ 10	+ 4,072	- 4,137	- 11,749
2nd qtr	- 3,863	+ 22,104	- 1,517	- 12,154	- 4,307	- 7,988	- 597	+ 5,355	+ 2,039	- 2,934	+ 21,099
3rd qtr	+ 1,212	+ 25,547	- 1,402	- 13,406	- 3,510	- 6,017	- 446	- 5,838	- 2,165	+ 7,236	- 13,360
4th qtr	+ 7,098	+ 25,303	- 555	- 9,198	- 1,269	- 7,183	- 476	- 28,788	+ 2,085	+ 20,081	+ 36,688
2002 1st qtr	+ 10,533	+ 31,822	- 1,265	- 10,589	- 4,410	- 5,025	+ 160	- 24,494	- 1,352	+ 15,153	- 18,496
2nd qtr	+ 11,872	+ 29,897	- 970	- 7,750	- 1,138	- 8,166	- 67	- 28,772	+ 2,432	+ 14,534	+ 1,694
3rd qtr	+ 10,873	+ 33,163	- 1,629	- 11,167	- 3,753	- 5,741	+ 63	- 25,260	+ 87	+ 14,238	- 17,588
2000 July	- 2,795	+ 5,943	- 422	- 3,251	- 2,018	- 3,046	+ 105	+ 2,542	+ 1,180	- 1,031	+ 23,600
Aug.	- 5,727	+ 2,920	- 808	- 4,870	- 349	- 2,620	+ 7,766	- 11,981	+ 345	+ 9,597	+ 11,758
Sep.	- 3,167	+ 4,254	- 515	- 4,657	- 755	- 1,494	- 458	- 5,465	+ 630	+ 8,461	- 12,834
Oct.	- 1,121	+ 6,794	- 955	- 4,531	+ 556	- 2,985	- 125	- 4,453	+ 538	+ 5,162	+ 19,591
Nov.	- 2,589	+ 4,765	- 395	- 3,112	- 990	- 2,857	- 143	- 4,991	+ 466	+ 7,256	+ 5,015
Dec.	- 3,136	+ 1,675	- 1,111	- 2,435	+ 898	- 2,164	- 149	- 8,495	+ 1,047	+ 10,733	- 7,468
2001 Jan.	- 5,506	+ 5,662	- 565	- 4,749	- 5,357	- 497	+ 515	- 6,239	+ 1,400	+ 9,830	- 5,988
Feb.	+ 1,315	+ 7,171	- 522	- 2,793	- 295	- 2,246	+ 119	- 2,756	+ 1,180	+ 143	- 3,873
Mar.	+ 3,695	+ 9,707	- 326	- 5,071	+ 2,129	- 2,744	- 83	+ 9,006	+ 1,492	- 14,110	- 1,888
Apr.	+ 1,215	+ 6,166	- 647	- 2,938	+ 868	- 2,235	- 149	+ 773	+ 1,205	- 3,043	+ 9,404
May	- 290	+ 8,212	- 465	- 4,060	- 1,320	- 2,657	- 732	+ 19,583	+ 508	- 19,068	- 53
June	- 4,787	+ 7,727	- 405	- 5,156	- 3,856	- 3,097	+ 284	- 15,001	+ 326	+ 19,178	+ 11,749
July	- 2,618	+ 9,038	- 394	- 4,950	- 4,115	- 2,599	- 226	+ 1,826	- 151	+ 1,169	- 10,589
Aug.	+ 3,271		- 584	- 4,803	+ 1,085	- 1,465	- 172	+ 3,583	+ 460	- 7,142	- 4,247
Sep.	+ 559		- 424	- 3,653	- 480	- 1,953	- 47	- 11,248	- 2,474	+ 13,209	+ 1,476
Oct.	+ 4,201	+ 7,351	- 98	- 3,850	+ 1,282	- 2,793	- 140	- 886	- 1,001	- 2,174	- 1,307
Nov.	+ 1,555		- 284	- 2,811	+ 53	- 2,754	- 180	- 16,425	+ 204	+ 14,846	+ 6,860
Dec.	+ 1,342		- 172	- 2,536	- 2,603	- 1,637	- 156	- 11,477	+ 2,882	+ 7,409	+ 31,135
2002 Jan. Feb. Mar.	+ 510 + 3,009 + 7,013	+ 10,008	- 448 - 387 - 431	- 4,081 - 3,237 - 3,271	- 5,761 - 360 + 1,711	+ 724 - 3,015 - 2,734	+ 477 - 155 - 162	- 198 - 15,109 - 9,188	_ 1,747	+ 958 + 12,187 + 2,008	- 17,916 + 1,535 - 2,116
Apr. May June	+ 3,964 + 3,894 + 4,015	+ 9,742	- 360 - 405 - 204	- 2,267	+ 380 - 815 - 703	- 2,792 - 2,360 - 3,014	- 147 + 50 + 30	- 2,389 - 1,715 - 24,668	+ 1,657 + 1,379 - 603	- 3,086 - 3,607 + 21,227	- 9,839 + 3,826 + 7,707
July Aug. Sep.	+ 163 + 4,152 + 6,557	+ 10,387	- 564 - 478 - 586		- 4,753 - 388 + 1,388	- 1,749 - 1,493	- 203 + 87 + 179	- 12,392 - 7,351 - 5,517	- 548 + 886 - 252	+ 12,980 + 2,226 - 968	- 15,567 - 5,579 + 3,559
Oct. Nov. p	+ 4,938 + 8,455	+ 11,065	- 583	- 3,516	+ 1,224	- 3,252	- 82	- 22,253	+ 570 - 842	+ 16,827 + 2,373	- 5,279

o From July 1990 including the external transactions of the former GDR. — 1 From the beginning of 1993 figures subject to significant uncertainty owing to changes in the method of data collection in foreign trade. — 2 Special trade according to the official foreign trade statistics: imports c.i.f., exports f.o.b. — 3 From January 1993 including additional estimates for external transactions which do not have to be reported and which are

included up to December 1992 in Supplementary trade items. — 4 Mainly warehouse transactions for account of residents and deduction of goods returned. — 5 See footnote 3. — 6 Excluding the expenditure on freight and insurance included in the c.i.f. import value. — 7 Capital exports: –. — 8 Increase: –.

X. Foreign trade and payments

3. Foreign trade (special trade) of the Federal Republic of Germany, by group of countries and country $^{\star}\,$

€ million

					2002					
Group of countries / Country		1999	2000	2001	Jan. / Oct.	July	August	September	October	November
All countries 1	Exports	510,008	597,440	638,268	538,691	54,839	51,920	55,019	58,575	58,709
All countries	Imports	444,797	538,311	542,774	432,743	42,967	41,532	44,115	47,510	46,671
	Balance	+ 65,211	+ 59,128	+ 95,495	+ 105,947	+ 11,872	+ 10,387	+ 10,904	+ 11,065	+ 12,038
 Industrialised 	Exports	396,139	460,422	481,991	402,297	40,710	37,956	40,845	43,798	
countries	Imports	332,947	389,927	390,269	307,361	30,500	29,006	30,879	33,295	
	Balance	+ 63,192	+ 70,495	+ 91,722	+ 94,936	+ 10,210	+ 8,951	+ 9,966	+ 10,503	
1. EU member countries	Exports Imports	293,377 239,652	337,375 273,951	351,611 277,034	294,095 221,921	29,518 22,196	27,374 20,938	29,719 22,763	31,606 23,953	
	Balance	+ 53,725	+ 63,424	+ 74,577	+ 72,174	+ 7,321	+ 6,436	+ 6,957	+ 7,653	
of which	Bularice	33,723	03,424	1 , 1,3,,	1 , , , , , , ,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 0,450	, 0,557	,,,,,,	
EMU member	Exports	229,837	264,870	275,384	228,756	23,230	20,590	22,717	24,640	
countries	Imports	193,146	217,946	221,680	179,424	18,331	16,719	18,507	19,178	
	Balance	+ 36,691	+ 46,924	+ 53,704	+ 49,332	+ 4,900	+ 3,871	+ 4,210	+ 5,462	
of which	F	20.205	22.426	22.406	27.554	2 720	2.625	2.012	2 120	
Austria	Exports Imports	28,295 18,288	32,436 20,497	33,486 20,664	27,554 17,397	2,730 1,863	2,625 1,569	2,813 1,725	3,130 1,953	
	Balance	+ 10,007	+ 11,939	+ 12,822	+ 10,157	+ 866	+ 1,056	+ 1,088	+ 1,177	:
Belgium and	Exports	28,821	32,728	35,187	28,492	2,772	2,682	2,790	3,078	
Luxemburg	Imports	22,880	26,230	28,521	24,129	2,555	2,255	2,489	2,574	
-	Balance	+ 5,942	+ 6,499	+ 6,666	+ 4,363	+ 218	+ 427	+ 300	+ 504	
France	Exports	58,578	67,418	69,601	58,028	5,797	5,215	5,704	6,106	
	Imports	45,559	50,862	49,743	41,121	4,032	3,812	4,154	4,458	
	Balance	+ 13,019	+ 16,556	+ 19,858	+ 16,908	+ 1,765	+ 1,403	+ 1,550	+ 1,649	
Italy	Exports	38,335	45,011	47,119	39,293	4,182	3,195	3,856	4,239	
	Imports Balance	33,107 + 5,229	35,776	35,280	27,802	3,076	2,390	2,684 + 1,172	3,017	
North colourals		''	+ 9,235	+ 11,839	+ 11,491	+ 1,105			+ 1,222	
Netherlands	Exports Imports	34,355 36,089	38,993 44,739	40,011 43,233	32,471 35,091	3,228 3,390	3,089 3,455	3,257 3,840	3,483 3,518	:
	Balance	- 1,734	- 5,745	- 3,222	- 2,619	- 162	- 366	- 584	- 35] :
Spain	Exports	22,684	26,732	27,841	24,334	2,676	1,992	2,404	2,701	:
Spain	Imports	14,666	16,087	15,226	12,936	1,414	978	1,223	1,423	
	Balance	+ 8,018	+ 10,645	+ 12,615	+ 11,397	+ 1,262	+ 1,013	+ 1,181	+ 1,278	
Sweden	Exports	11,657	13,524	12,978	11,020	935	1,061	1,174	1,293	
	Imports	8,305	10,202	8,999	7,399	739	695	741	859	
	Balance	+ 3,352	+ 3,322	+ 3,979	+ 3,621	+ 196	+ 365	+ 433	+ 434	
United	Exports	43,124	49,377	52,764	45,383	4,504	4,892	4,875	4,673	
Kingdom	Imports	30,757	36,923	37,259	27,875	2,503	2,777	2,723	3,052	
	Balance	+ 12,367	+ 12,453	+ 15,505	+ 17,507	+ 2,002	+ 2,115	+ 2,152	+ 1,621	
Other European	Exports	33,895	39,944	39,987	33,676	3,389	3,267	3,519	3,755	
industrial countries 2		30,644	36,800	39,165	32,148	3,228	2,852	3,268	3,714	
of which	Balance	+ 3,251	+ 3,144	+ 821	+ 1,528	+ 161	+ 415	+ 251	+ 40	
Switzerland	Exports	22,808	25,596	27,489	22,228	2,173	2,173	2,276	2,469	
5111120110110	Imports	17,070	18,797	19,753	16,320	1,651	1,624	1,603	1,805	
	Balance	+ 5,738	+ 6,799	+ 7,737	+ 5,908	+ 522	+ 549	+ 673	+ 663	
Non-European	Exports	68,867	83,103	90,393	74,526	7,804	7,315	7,607	8,437	
industrial countries	Imports	62,651	79,176	74,069	53,292	5,075	5,216	4,849	5,627	
-£k:-k	Balance	+ 6,216	+ 3,926	+ 16,324	+ 21,235	+ 2,728	+ 2,099	+ 2,758	+ 2,810	
of which Japan	Exports	10,367	13,195	13,103	10,162	1,064	948	1,083	1,208	
зарап	Imports	21,779	26,847	22,910	15,958	1,605	1,629	1,504	1,786	
	Balance	- 11,412	- 13,651	- 9,807	- 5,797	- 540	- 680	- 421	- 578	
United States	Exports	51,425	61,764	67,824	55,957	5,736	5,532	5,618	6,329	
	Imports	36,790	47,121	45,982	33,281	3,045	3,201	3,002	3,443	
	Balance	+ 14,635	+ 14,643	+ 21,842	+ 22,676	+ 2,691	+ 2,331	+ 2,616	+ 2,886	
II. Countries in transition	Exports	56,717	70,318	83,246	75,356	7,752	7,570	8,099	8,581	
	Imports	62,533	82,900 - 12,582	90,341	76,894	7,825	7,708	7,877	8,746 - 164	
of which	Balance	- 5,816	- 12,582	- 7,095	- 1,539	- 73	- 138	+ 222	- 164	
Central and east	Exports	49,020	59,900	69,914	62,384	6,375	6,036	6,718	7,164	l .
European countries	Imports	47,723	62,781	68,701	58,517	6,061	5,685	5,910	6,437	
in transition	Balance	+ 1,297	- 2,882	+ 1,213	+ 3,866	+ 314	+ 351	+ 808	+ 727	
People's Republic	Exports	6,949	9,459	12,118	11,841	1,264	1,442	1,270	1,284	
of China ³	Imports	13,795	18,553	19,942	17,028	1,605	1,820	1,799	2,173	
	Balance	- 6,846	- 9,094	- 7,824	- 5,187	- 341	- 378	- 529	- 889	
III. Developing countries	Exports	55,987	65,023	71,477	59,673	6,241	6,257	5,967	5,999	
	Imports	48,779	64,742	61,490	47,955	4,591	4,758	5,306	5,411	
of which	Balance	+ 7,208	+ 282	+ 9,987	+ 11,718	+ 1,650	+ 1,500	+ 660	+ 588	'
Newly industrial-	Exports	18,775	24,029	24,735	20,938	2,164	2,136	2,170	2,223	١.
ising countries in	Imports	22,586	30,498	28,351	21,807	2,064	2,131	2,216	2,535	
south-east Asia 4	Balance	- 3,811	- 6,469	- 3,616	- 869	+ 100	+ 5	– 46	- 312	
OPEC-countries	Exports	9,135	10,756	13,698	12,073	1,222	1,181	1,204	1,264	
	Imports	6,425	10,244	8,231	5,758	616	497	641	797	:
OPEC-countries			10,244	8,231	5,758				797	

^{*} Source: Federal Statistical Office. Exports (f.o.b.) by country of destination, imports (c.i.f.) by country of origin. Inclusion of individual countries in groups of countries according to the current position. — 1 Including fuel and other supplies for ships and aircraft and other data not classifiable by

region. — 2 Including Cyprus. — 3 Excluding Hong Kong. — 4 Brunei Darussalam, Hong Kong, Indonesia, Malaysia, Philippines, Singapore, Republic of Korea, Taiwan and Thailand.

X. Foreign trade and payments

Services and factor income of the Federal Republic of Germany (Balances)

Until the end of 1998 DM million, from 1999 € million

	Service	es																				
													other	services								
															of whi	ch						
Period	Total		Travel	1	Trans- portat	ion 2	Financ service		Patent and licence		Govern transa	nment ctions 3	Total		Service selfem person	oloyed		embly	Compe sation of employ	of	Invest incom	
1997 1998 1999	- -	58,715 65,301 41,460	- - -	52,718 53,704 30,645	+	5,723 5,449 2,881	+ + +	2,315 3,011 1,018		4,341 4,044 1,896	+ + +	6,616 5,462 1,973	_	16,310 21,474 14,792	-	2,403 2,586 2,245		1,669 2,484 409		1,698 1,584 836	- - -	678 11,753 8,130
2000 2001	-	44,425 47,371	_ _	31,574 32,377		3,379 4,139	++	959 439	-	2,924 2,335	++	2,177 3,301		16,443 20,539		2,725 2,576	- -	912 1,293	- -	885 1,471	-	2,440 11,138
2001 1st qtr 2nd qtr 3rd qtr 4th qtr	- - -	12,613 12,154 13,406 9,198	- - -	6,738 8,656 10,723 6,261	+ + +	828 1,153 1,182 976	- + +	106 208 175 161	- - -	654 532 579 571	+ + + +	761 804 803 933	- - -	6,704 5,132 4,265 4,437	- - -	646 625 640 665	- - -	593 213 142 346	- - -	39 408 685 340	- - -	3,484 3,900 2,825 929
2002 1st qtr 2nd qtr 3rd qtr	- -	10,589 7,750 11,167	- - -	5,974 7,664 10,316	+ + +	764 1,192 811	- + +	60 70 188	- - -	300 578 452	+ + +	992 1,131 1,601	- - -	6,011 1,901 3,000	- - -	536 515 540	- - +	468 253 40	- - -	22 347 632	- - -	4,388 791 3,121
2002 Jan. Feb. Mar.	- -	4,081 3,237 3,271	- - -	2,206 1,704 2,064	+ + +	181 252 331	+ - -	24 78 6	- - -	102 91 107	+ + +	368 309 315	- - -	2,345 1,925 1,741	- - -	210 174 152	- - -	185 174 109	+ - -	9 11 20	- - +	5,770 350 1,731
Apr. May June	- -	2,654 2,267 2,829	- - -	2,523 2,584 2,558	+ + +	425 186 580	+ + -	64 26 20	- - -	197 28 354	+ + +	441 362 328	- - -	865 230 805	- - -	193 164 158	- - -	95 44 114	- - -	103 118 126	+ - -	483 697 577
July Aug. Sep.	- - -	4,642 3,876 2,649	- - -	3,323 3,719 3,273	+ + +	295 201 315	+ - +	76 14 126	- + -	429 89 112	+ + +	380 852 370	- - -	1,642 1,284 75	- - -	205 184 151	- + -	15 115 60	- - -	209 204 219	- - +	4,545 184 1,608
Oct. Nov.	_	3,516 2,102	<u>-</u>	2,801 1,614	++	390 236	++	289 6	_	51 78	+ +	306 367	<u>-</u>	1,649 1,019	-	137 122	+	78 47	-	114 110	+ +	1,339 1,052

¹ From January 2002 figures subject to significant uncertainty. — 2 Excluding the expenditure on freight included in the c.i.f. import value. — 3 Including the receipts from foreign military agencies for goods and ser-

vices supplied. — 4 Engineering and other technical services, research and development, commercial services etc. — 5 Wages and salaries.

Current transfers of the Federal Republic of Germany (Balances)

Until the end of 1998 DM million, from 1999 € million

6. Capital transfers (Balances)

DM million / € million

		Public 1				Private 1					
			International Organisation								
				of which European	other current		by foreign	other current			
Period	Total	Total	Total	Communities	transfers 3	Total	workers	transfers	Total 4	Public 1	Private 1
1997 1998 1999	- 52,742 - 53,304 - 25,701			- 30,382	- 5,302 - 4,240 - 1,976	- 15,930 - 15,987 - 8,296	- 7,519 - 6,936 - 3,429	- 8,411 - 9,051 - 4,867	+ 52 + 1,289 - 154	- 2,821 - 2,441 - 1,351	+ 2,873 + 3,730 + 1,197
2000 2001	- 27,144 - 26,676		- 17,100 - 14,482		- 1,944 - 2,542	- 8,100 - 9,653	- 3,458 - 3,520	- 4,642 - 6,132	- 1,596 - 967	- 1,186 - 1,355	- 410 + 387
2001 1st qtr 2nd qtr 3rd qtr 4th qtr	- 5,487 - 7,988 - 6,017 - 7,183	- 3,956	- 3,027	- 1,598 - 4,927 - 2,467 - 3,820	- 786 + 202 - 929 - 1,029	- 2,589 - 2,845 - 2,062 - 2,157	- 880 - 880 - 880 - 880	- 1,709 - 1,964 - 1,182 - 1,277	+ 552 - 597 - 446 - 476	- 323 - 252 - 327 - 452	+ 875 - 345 - 118 - 24
2002 1st qtr 2nd qtr 3rd qtr	- 5,025 - 8,166 - 5,741		- 1,256 - 5,254 - 2,746	- 4,997	- 1,101 + 15 - 768	- 2,668 - 2,928 - 2,227	- 868 - 868 - 868	- 1,801 - 2,060 - 1,360	+ 160 - 67 + 63	- 229 - 277 - 348	+ 389 + 210 + 411
2002 Jan. Feb. Mar.	+ 724 - 3,015 - 2,734		+ 1,921 - 1,575 - 1,602	+ 2,129 - 1,391 - 1,570	- 391 - 430 - 279	- 806 - 1,010 - 852	- 289 - 289 - 289	- 517 - 721 - 563	+ 477 - 155 - 162	- 74 - 75 - 80	+ 551 - 80 - 82
Apr. May June	- 2,792 - 2,360 - 3,014		- 1,889 - 1,697 - 1,667	- 1,788 - 1,633 - 1,576	- 165 + 208 - 28	- 737 - 872 - 1,319	- 289 - 289 - 289	- 448 - 582 - 1,030	- 147 + 50 + 30	- 89 - 98 - 91	- 58 + 148 + 121
July Aug. Sep.	– 1,749 – 1,493 – 2,499	- 760	- 842 - 397 - 1,507	- 637 - 272 - 1,478	- 237 - 363 - 168	- 670 - 733 - 824	- 289 - 289 - 289	- 381 - 444 - 535	- 203 + 87 + 179	- 168 - 95 - 86	- 35 + 181 + 265
Oct. Nov.	- 3,252 - 1,970			– 1,472 – 954	– 546 – 219	– 1,168 – 755	- 289 - 289	- 879 - 466	- 82 - 137	– 104 – 248	+ 22 + 111

¹ The classification of "public" and "private" transfers depends on which sector the participating domestic body belongs to. — 2 Current contributions to the budgets of international organisations and to the EU budget

(excluding capital transfers). — 3 Payments to developing countries, pension payments, tax revenue and refunds, etc. — 4 Where identifiable; in particular, debt forgiveness.

X. Foreign trade and payments

7. Financial account of the Federal Republic of Germany

€ million

				2001 2002								
Item	1999	2000	2001	4th qtr	1st qtr	2nd qtr	3rd qtr	Sep.	Oct.	Nov.		
I. Net German investment abroad (Increase/capital exports: –)	- 347,069	- 353,152	- 265,061	- 19,776	- 66,243	- 79,598	- 92,969	- 39,196	- 31,520	- 38,607		
1. Direct investment 1	- 102,729	- 54,045	- 48,340	- 6,162	- 2,660	- 1,161	- 13,970	- 5,840	- 3,259	+ 1,12		
Equity capital Reinvested earnings ² Credit transactions of	- 85,021 - 4,400	- 49,616 - 2,300	- 59,377 -	- 7,229 -	- 9,186 -	- 20,489 -	- 10,436 -	- 3,621 -	- 371 -	- 2,93i		
German direct investors Other capital	- 6,524 - 6,784	+ 3,627 - 5,756			+ 7,711 - 1,185	+ 20,937 - 1,609	- 1,484 - 2,050		- 2,464 - 424	, , ,		
2. Portfolio investment	- 177,440	- 208,511	- 128,670	- 31,829	- 34,788	- 20,224	- 10,420	+ 1,169	- 5,465	- 7,76		
Equities 3 Investment fund certificates 4 Bonds and notes 5 Money market instruments	- 68,048 - 14,057 - 94,658 - 677	104,80932,52972,7581,585		- 4,474 - 27,512	- 7,409 - 15,793	+ 1,329 - 2,963 - 17,555 - 1,035	+ 6,468 - 3,121 - 10,831 - 2,935	- 430	- 2,770 - 1,107 - 1,067 - 522	- 73 - 8,17		
3. Financial derivatives 6	_ 1,749	- 4,211	+ 6,703	_ 807	+ 1,504	+ 1,263	- 3,850	+ 2,539	_ 1,270	+ 92		
4. Credit transactions	- 62,826	- 84,203		+ 19,353		_ 59,052	- 64,388	_ 37,040	_ 21,437			
Credit institutions 7 Long-term Short-term	- 42,443 - 42,717 + 274	- 101,513 - 40,136 - 61,378	- 47,642	- 14,149 - 16,201 + 2,051		- 54,111 - 8,329 - 45,782	- 45,819 - 4,224 - 41,595	- 37,504 - 1,070 - 36,435	- 15,567 - 4,233 - 11,334			
Enterprises and individuals Long-term Short-term 7	+ 19,503 - 2,057 + 21,560	4,742+ 465- 5,207	_ 1,698	_ 1,161		- 4,873 - 351 - 4,522	- 4,416 + 2 - 4,418		- 113	_ 4		
General government	+ 7,658	- 19,920	'		·	· ·						
Long-term Short-term 7	- 376 + 8,034	- 1,079 - 18,841	+ 254		+ 114	+ 151		- 221	- 5	+ 5		
Bundesbank	- 47,544	+ 41,972	+ 24,015	+ 34,575	– 18,425	_ 191	- 18,402	+ 3,264	- 5,355	+ 4,30		
5. Other investment 8	- 2,324	- 2,183	- 1,385	- 330	- 428	- 424	- 341	_ 24	- 90	- 10		
II. Net foreign investment in Germany (Increase/capital imports: +)	+ 320,985	+ 387,499	+ 235,799	- 9,012	+ 41,749	+ 50,826	+ 67,709	+ 33,679	+ 9,268	+ 28,75		
1. Direct investment 1	+ 51,392	+ 211,786	+ 35,574	+ 10,392	+ 12,810	+ 17,333	+ 2,659	+ 3,389	+ 2,430	+ 2,28		
Equity capital Reinvested earnings 2 Credit transactions of	+ 24,754 - 5,400	+ 114,495 - 3,600	- 3,600	- 900	- 900	- 900	- 900	- 300	- 300	- 30		
foreign direct investors Other capital	+ 32,286 - 249	+ 101,226 - 335	+ 7,403 - 145	+ 5,757 - 51	+ 704 - 28	+ 7,504 - 31	+ 1,613 - 97	+ 2,715 - 78	+ 2,813 - 12	+ 2,34 -		
2. Portfolio investment	+ 166,624	+ 49,104	+ 129,732	+ 20,389	+ 13,464	+ 29,810	+ 35,245	+ 8,711	- 1,095	+ 2,90		
Equities 3 Investment fund certificates Bonds and notes 5 Money market instruments	+ 21,942 + 5,761 + 97,615 + 41,306	- 34,469 + 10,938 + 69,159 + 3,475	+ 1,121 + 54,878		+ 1,074	- 1,002 + 18,565	+ 18,316	+ 4,322	- 81 - 898	+ 3		
3. Credit transactions	+ 103,075	+ 126,564	+ 70,462	_ 39,792	+ 15,452	+ 3,637	+ 29,763	+ 21,583	+ 7,933	+ 23,57		
Credit institutions 7 Long-term Short-term	I	+ 115,294 + 15,665	+ 54,316 + 4,394	- 44,403 - 11,433	+ 13,852 + 4,285	+ 5,533 + 5,127	+ 28,422 + 5,534	+ 18,620 - 1,311	+ 5,569 + 4,720	+ 21,41 - 1,93		
Enterprises and individuals Long-term Short-term 7	+ 20,926 + 3,836 + 17,090	+ 4,400	+ 13,063 + 9,027	+ 2,700 + 469	+ 3,710 + 1,151	- 3,551 - 551	+ 1,089 + 461	+ 2,036 + 106	+ 1,920	+ 1,74 + 1,05		
General Government Long-term Short-term 7	- 11,255 - 8,306 - 2,949	- 142	- 602	+ 152	- 318	- 150		- 222	- 173	- 32		
Bundesbank	- 1,991	+ 414	+ 2,631	+ 28	+ 1,281	- 548	+ 728	+ 547	- 493	+ 80		
4. Other investment	- 106	+ 45	+ 32	- 2	+ 23	+ 46	+ 42	- 4	- 0	- !		
III. Balance of all statistically recorded financial movements (Net capital exports: –)	- 26,084	+ 34,347	_ 29,261	- 28,788	– 24,494		– 25,260	 - 5,517	- 22,253	9,84		

¹ From 1996, new definition for direct investment. — 2 Estimated. — 3 Including participation rights. — 4 From 1991 including accumulated earnings. — 5 From 1975 excluding accrued interest. — 6 Options, whether or not evidenced by securities, and financial futures contracts. — 7 The trans-

action values shown here are mostly derived from changes in stocks. As far as possible, purely statistical changes have been eliminated. — 8 In particular, subscriptions of the Federal Government to International Organisations.

X. Foreign trade and payments

8. External position of the Bundesbank *

DM million

Monetary rese	erves and othe	r claims on nor	n-residents				Liabilities to r	on-residents		
	Monetary res	erves								
Total	Total	Gold	Foreign currency balances 1	Reserve position in the Inter- national Monetary Fund and special drawing rights	Claims on the ECB ² (net)	Loans and other claims on non- residents 3	Total	Liabilities arising from external trans- actions 4	Liabilities arising from liquidity Treasury discount paper	Net external position (col. 1 less col. 8)
1	2	3	4	5	6	7	8	9	10	11
106,446 97,345 143,959 122,763 115,965	104,023 94,754 141,351 120,143 113,605	13,688 13,688 13,688 13,688 13,688	85,845 61,784 60,209	7,373 8,314 8,199 8,496 7,967	18,445 17,329 33,619 36,176 31,742	2,360	26,506 39,541 24,192	52,259 42,335 26,506 23,179 19,581	- - 16,362 4,611	54,188 55,010 117,453 83,222 91,774
123,261 120,985 127,849 135,085	121,307 119,544 126,884 134,005	13,688 13,688 13,688 17,109	68,484 72,364 76,673 100,363	10,337 11,445 13,874 16,533	28,798 22,048 22,649 –	1,954 1,441 966 1,079	16,390 15,604 16,931 15,978	16,390 15,604 16,931 15,978	= = =	106,871 105,381 110,918 119,107

End of year or month

Monetary Cooperation Fund – EMCF). — 3 Including loans to the World Bank. — 4 Including liquidity paper sold to non-residents by the Bundesbank; excluding the liquidity Treasury discount paper sold to non-residents between March 1993 and March 1995, as shown in column 10.

9. External position of the Bundesbank in the European monetary union °

	Monetary reser	ves and other cl	aims on non-res	idents						
		Monetary reser	ves							
End of year or month	Total	Total	Gold and gold receivables	Reserve position in the Inter- national Monetary Fund and special drawing rights	Foreign currency reserves	Other claims on non-euro- area residents 1 3	Claims within the Eurosystem (net) 2	Other claims on residents in other EMU member countries	Liabilities to non- residents ³	Net external position of the Bundesbank (col.1 less col.9)
	1	2	3	4	5	6	7	8	9	10
1999 Jan. 4	95,316	93,940	29,312	8,461	56,167	140	1,225	11	8,169	87,146
1999	141,958	93,039	32,287	8,332	52,420	9,162	39,746	11	6,179	135,779
2000	100,762	93,815	32,676	7,762	53,377	313	6,620	14	6,592	94,170
2001	76,147	93,215	35,005	8,721	49,489	312	– 17,385	5	8,752	67,396
2002	103,948	85,002	36,208	8,272	40,522	312	18,466	167	9,005	94,942
2001 July	107,437	92,879	33,708	7,980	51,191	312	14,240	6	7,005	100,432
Aug.	109,011	89,890	33,414	7,765	48,711	312	18,803	6	6,860	102,151
Sep.	112,045	94,538	35,399	8,989	50,151	312	17,189	6	8,658	103,387
Oct.	115,487	95,552	34,531	8,643	52,378	312	19,616	7	10,783	104,704
Nov.	108,934	95,395	34,309	8,745	52,341	312	13,217	9	11,093	97,841
Dec.	76,147	93,215	35,005	8,721	49,489	312	– 17,385	5	8,752	67,396
2002 Jan.	98,116	97,392	36,220	8,855	52,316	312	409	3	10,455	87,661
Feb.	98,392	99,230	38,095	8,874	52,260	312	- 1,152	2	10,354	88,038
Mar.	99,489	98,130	38,505	8,840	50,786	312	1,045	1	10,077	89,412
Apr.	106,936	94,779	38,072	8,205	48,502	312	11,842	2	9,298	97,638
May	100,886	91,942	38,649	8,040	45,253	312	8,630	2	8,448	92,438
June	88,199	86,649	35,435	8,848	42,366	312	1,236	1	9,219	78,980
July	105,187	87,718	34,596	8,897	44,225	312	17,156	1	10,163	95,025
Aug.	110,682	87,466	35,197	8,797	43,471	312	22,902	1	9,432	101,250
Sep.	108,889	88,937	36,225	8,751	43,961	312	19,639	1	9,966	98,923
Oct.	112,748	87,441	35,530	8,594	43,317	312	24,993	2	9,473	103,276
Nov.	108,615	87,610	35,517	8,542	43,551	312	20,688	5	10,272	98,343
Dec.	103,948	85,002	36,208	8,272	40,522	312	18,466	167	9,005	94,942

o Claims and liabilities vis-à-vis all countries within and outside EMU. Until December 2000, the levels at the end of each quarter are shown, by virtue of revaluations, at market prices; within each quarter, however, the levels are computed on the basis of cumulative transaction values. From January 2001 onwards, all end-of-month levels will be valued at market prices. — 1 Including loans to the World Bank. — 2 Including the balances in the

Deutsche Bundesbank's cross-border payments within the Eurosystem. From November 2000 including the TARGET positions which were previously shown (in columns 6 and 9) as bilateral assets and liabilities vis-à-vis national central banks outside the Eurosystem. — 3 See footnote 2. — 4 Euro opening balance sheet of the Bundesbank as at January 1, 1999.

¹⁹⁹⁰ 1991 1992 1993 1994 1995 1996

^{*} Valuation of the gold holdings and the claims on non-residents according to section 26 (2) of the Bundesbank Act and the provisions of the Commercial Code, especially section 253. In the course of the year, valuation at the balance sheet rates of the preceding year. — 1 Mainly US dollar assets. — 2 European Central Bank (until 1993 claims on the European

X. Foreign trade and payments

10. Assets and liabilities of enterprises in Germany (other than banks) vis-à-vis non-residents *

Until the end of 1998 DM million, from 1999 € million

	Officer circ c	114 01 1550	,ווטוווווווווווווווווווווווווווווווווו	110111 1333	C IIIIIIIOII									
	Claims on 1	non-residen	ts					Liabilities t	to non-resid	ents				
			Claims on 1	oreign non	-banks					Liabilities to	foreign no	n-banks		
					from trade	credits						from trade	credits	
End of year		Balances with foreign		from financial		Credit terms	Advance payments		Loans from foreign		from financial		Credit terms	Advance payments
or month	Total	banks	Total	operations	Total	granted	effected	Total	banks	Total	operations	Total	used	received
1000	All cour			450.000	404 000	176 105	45 507	420.240						
1998	502,610	140,729	361,881	169,889	191,992	176,485	15,507	429,240	81,092	348,148	220,628	127,520	87,576	39,944
1999	277,331	52,774	224,557	115,564	108,993	100,777	8,216	293,849	56,632	237,217	166,026	71,191	52,047	19,144
2000	320,874	43,462	277,412	152,752	124,660	116,971	7,689	446,060	52,663	393,397	309,024	84,373	63,093	21,280
2001	358,120	62,434	295,686	171,939	123,747	114,857	8,890	505,266	60,132	445,134	354,561	90,573	65,988	24,585
2002 Aug.	341,476	80,947	260,529	143,574	116,955	108,148	8,807	517,057	63,509	453,548	372,148	81,400	55,162	26,238
Sep.	350,948	81,997	268,951	148,669	120,282	111,998	8,284	528,330	61,613	466,717	381,222	85,495	59,295	26,200
Oct.	354,285	81,816	272,469	149,634	122,835	114,073	8,762	533,337	62,308	471,029	383,637	87,392	59,850	27,542
Nov.	345,871 EU cour	78,624		143,786		115,369		538,202						
1998			177 105	04.422.1	02.702	02.027	0.776	265 244		100 241	127 404	F0.047	46.006	11.051
1998	307,523	130,398	177,125	84,422	92,703	83,927	8,776	265,214	68,873	196,341	137,494	58,847	46,896	11,951
1999	157,617	47,992	109,625	56,450	53,175	48,500	4,675	194,809	49,243	145,566	111,605	33,961	27,532	6,429
2000	177,782	39,563	138,219	78,298	59,921	55,718	4,203	323,049	45,473	277,576	237,583	39,993	32,457	7,536
2001	198,118	58,039	140,079	79,205	60,874	55,371	5,503	372,937	53,683	319,254	275,749	43,505	34,716	8,789
2002 Aug.	212,441	76,218	136,223	80,442	55,781	50,277	5,504	395,942	58,377	337,565	299,307	38,258	28,369	9,889
Sep.	217,989	77,105	140,884	83,219	57,665	52,363	5,302	403,861	56,593	347,268	306,777	40,491	30,755	9,736
Oct.	221,960	77,070	144,890	85,780	59,110	53,577	5,533	407,441	57,164	350,277	308,427	41,850	31,623	10,227
Nov.	214,009	73,792	140,217	81,124	59,093	54,227	4,866	408,285	58,269	350,016	308,230	41,786	32,075	9,711
	of whicl	h: EMU r	nember	countrie	s ¹									
1998	190,953	68,418	122,535	54,167	68,368	62,491	5,877	197,566	50,579	146,987	103,899	43,088	35,021	8,067
1999	104,071	25,946	78,125	38,747	39,378	36,074	3,304	151,179	38,117	113,062	88,763	24,299	20,173	4,126
2000	120,976	22,737	98,239	52,976	45,263	42,389	2,874	247,830	33,698	214,132	185,595	28,537	23,569	4,968
2001	126,519	33,787	92,732	46,599	46,133	42,771	3,362	295,943	38,361	257,582	225,711	31,871	24,878	6,993
2002 Aug.	136,159	45,524	90,635	48,671	41,964	38,397	3,567	326,723	42,437	284,286	255,996	28,290	20,303	7,987
Sep.	139,717	46,889	92,828	49,732	43,096	39,707	3,389	332,227	41,325	290,902	260,984	29,918	22,233	7,685
Oct.	137,812	44,700	93,112	48,959	44,153	40,610	3,543	335,225	41,527	293,698	262,999	30,699	22,538	8,161
Nov.	132,230	39,106	93,124	48,678	44,446	41,258	3,188	336,807	42,163	294,644	263,919	30,725	23,007	7,718
	Other ir	ndustrial	countrie	es ³										
1998	109,682	8,246	101,436	61,999	39,437	36,162	3,275	102,058	7,655	94,403	61,741	32,662	26,292	6,370
1999	71,958	3,595	68,363	45,540	22,823	21,220	1,603	68,024	4,870	63,154	44,518	18,636	15,387	3,249
2000	84,502	2,925	81,577	54,272	27,305	25,673	1,632	84,464	4,711	79,753	56,986	22,767	18,621	4,146
2001	100,786	3,364	97,422	71,842	25,580	24,082	1,498	93,269	4,178	89,091	64,595	24,496	19,648	4,848
2002 Aug.	74,999	3,190	71,809	46,918	24,891	23,558	1,333	81,524	3,074	78,450	57,874	20,576	15,624	4,952
Sep.	77,671	3,065	74,606	49,004	25,602	24,468	1,134	83,851	3,008	80,843	59,103	21,740	16,688	5,052
Oct.	78,018	3,044	74,974	48,144	26,830	25,541	1,289	85,655	3,170	82,485	60,459	22,026	16,612	5,414
Nov.	76,045	2,917	73,128	47,002	26,126	24,843	1,283	89,404	3,140	86,264	63,840	22,424	17,348	5,076
	Countri	es in trai	nsition											
1998	30,107	360	29,747	7,914	21,833	20,218	1,615	11,383	135	11,248	657	10,591	4,941	5,650
1999	16,402	231	16,171	4,603	11,568	10,934	634	6,256	78	6,178	481	5,697	3,119	2,578
2000	19,082	240	18,842	5,028	13,814	13,104	710	8,202	113	8,089	928	7,161	4,384	2,777
2001	20,444	204	20,240	6,103	14,137	13,449	688	9,095	151	8,944	1,699	7,245	4,341	2,904
2002 Aug.	20,175	255	19,920	5,844	14,076	13,330	746	9,719	190	9,529	1,911	7,618	4,305	3,313
Sep.	20,384	265	20,119	5,807	14,312	13,590	722	10,152	185	9,967	2,081	7,886	4,734	3,152
Oct.	20,449	328	20,121	5,611	14,510	13,780	730	10,590	185	10,405	2,177	8,228	4,841	3,387
Nov.	20,821	271	20,550	5,594	14,956	14,195	761	10,678	109	10,569	2,060	8,509	5,071	3,438
	Develop	ing cou	ntries ²											
1998	55,298	1,725	53,573	15,554	38,019	36,178	1,841	50,585	4,429	46,156	20,736	25,420	9,447	15,973
1999	31,354	956	30,398	8,971	21,427	20,123	1,304	24,760	2,441	22,319	9,422	12,897	6,009	6,888
2000	39,508	734	38,774	15,154	23,620	22,476	1,144	30,345	2,366	27,979	13,527	14,452	7,631	6,821
2001	38,772	827	37,945	14,789	23,156	21,955	1,201	29,965	2,120	27,845	12,518	15,327	7,283	8,044
2002 Aug.	33,861	1,284	32,577	10,370	22,207	20,983	1,224	29,872	1,868	28,004	13,056	14,948	6,864	8,084
Sep.	34,904	1,562	33,342	10,639	22,703	21,577	1,126	30,466	1,827	28,639	13,261	15,378	7,118	8,260
Oct.	33,858	1,374	32,484	10,099	22,385	21,175	1,210	29,651	1,789	27,862	12,574	15,288	6,774	8,514
Nov.	34,996	1,644	33,352	10,066	23,286	22,104	1,182	29,835	1,771	28,064	12,709	15,355	6,815	8,540

^{*} Including the assets and liabilities vis-à-vis non-residents of individuals in Germany. The assets and liabilities vis-à-vis non-residents of banks (MFIs) in Germany are shown in Table 4 of Section IV, "Banks". Statistical increases and decreases have not been eliminated; to this extent the changes in totals

are not comparable with the figures shown in Table X, 7. — 1 Including Greece from January 2001. — 2 Including Cyprus until April 2002. — 3 Including Cyprus from May 2002.

X. Foreign trade and payments

11. Deutsche Mark and euro exchange rates of selected currencies *

Yearly or monthly	United States	Japan	Denmark	Sweden	United Kingdom	Norway	Switzerland	Canada	Australia	New Zealand
average	USD	JPY	DKK	SEK	GBP	NOK	CHF	CAD	AUD 1	NZD 1
	Historic spo	ot middle ra	ites on the	Frankfurt ex	change (1	or 100 curre	ncy units =	DEM)		
1991	1.6612		25.932		2.926	25.580	115.740	1.4501	1.2942	0.9589
1992	1.5595	1.2313	25.869	26.912	2.753	25.143	111.198	1.2917	1.1476	0.8406
1993 1994	1.6544 1.6218	1.4945 1.5870	25.508 25.513	21.248 21.013	2.483 2.4816	23.303 22.982	111.949 118.712	1.2823 1.1884	1.1235 1.1848	0.8940 0.9605
1995	1.4338	1.5293	25.570	20.116	2.2620	22.614	121.240	1.0443	1.0622	0.9399
1996	1.5037	1.3838	25.945	22.434	2.3478	23.292	121.891	1.1027	1.1782	1.0357
1997 1998	1.7348 1.7592	1.4378 1.3484	26.249 26.258	22.718 22.128	2.8410 2.9142	24.508 23.297	119.508 121.414	1.2533 1.1884	1.2889 1.1070	1.1453 0.9445
1990	1.7392	1.5404	20.238	22.120	2.3142	23.237	121.414	1.10041	1.1070	0.9445
	Euro refere	ence exchan	ge rates pu	blished by t	he Europea	n Central B	ank (EUR 1	= currency u	nits) ²	
1999	1.0658	121.32	7.4355	8.8075	0.65874	8.3104	1.6003	1.5840	1.6523	2.0145
2000 2001	0.9236 0.8956	99.47 108.68	7.4538 7.4521	8.4452 9.2551	0.60948 0.62187	8.1129 8.0484	1.5579 1.5105	1.3706 1.3864	1.5889 1.7319	2.0288 2.1300
2002	0.9456	118.06	7.4305	9.1611	0.62883	7.5086	1.4670	1.4838	1.7376	2.0366
2001 Feb.	0.9217	107.08	7.4630	8.9770	0.63400	8.2125	1.5358	1.4027	1.7236	2.1184
Mar.	0.9095	110.33	7.4643	9.1264	0.62915	8.1600	1.5355	1.4167	1.8072	2.1753
Apr.	0.8920 0.8742	110.36 106.50	7.4633 7.4612	9.1120 9.0576	0.62168 0.61328	8.1146 7.9927	1.5287 1.5334	1.3903 1.3473	1.7847 1.6813	2.1975 2.0723
May June	0.8532	104.30	7.4512	9.2106	0.60890	7.9327	1.5225	1.3016	1.6469	2.0723
July	0.8607	107.21	7.4447	9.2637	0.60857	7.9714	1.5135	1.3153	1.6890	2.1074
Aug.	0.9005	109.34	7.4450	9.3107	0.62672	8.0552	1.5144	1.3857	1.7169	2.0895
Sep.	0.9111	108.20	7.4413	9.6744	0.62291	7.9985	1.4913	1.4260	1.8036	2.1781
Oct. Nov.	0.9059 0.8883	109.86 108.68	7.4367 7.4452	9.5780 9.4166	0.62393 0.61838	7.9970 7.9224	1.4793 1.4663	1.4224 1.4153	1.7955 1.7172	2.1863 2.1322
Dec.	0.8924	113.38	7.4431	9.4359	0.62012	7.9911	1.4749	1.4075	1.7348	2.1456
2002 Jan.	0.8833	117.12	7.4329	9.2275	0.61659	7.9208	1.4745	1.4135	1.7094	2.0826
Feb. Mar.	0.8700 0.8758	116.23 114.75	7.4299 7.4324	9.1828 9.0594	0.61160 0.61574	7.7853 7.7183	1.4775 1.4678	1.3880 1.3903	1.6963 1.6695	2.0771 2.0261
Apr.	0.8858	115.81	7.4341	9.1358	0.61407	7.6221	1.4658	1.4008	1.6537	1.9995
May	0.9170	115.86	7.4356	9.2208	0.62823	7.5207	1.4572	1.4210	1.6662	1.9859
June	0.9554	117.80	7.4330	9.1137	0.64405	7.4043	1.4721	1.4627	1.6793	1.9517
July	0.9922	117.11	7.4301	9.2689	0.63870	7.4050	1.4624	1.5321	1.7922	2.0646
Aug. Sep.	0.9778 0.9808	116.31 118.38	7.4270 7.4271	9.2489 9.1679	0.63633 0.63059	7.4284 7.3619	1.4636 1.4649	1.5333 1.5434	1.8045 1.7927	2.1076 2.0847
Oct.	0.9811	121.57	7.4297	9.1051	0.62994	7.3405	1.4650	1.5481	1.7831	2.0381
Nov.	1.0014	121.65	7.4280	9.0818	0.63709	7.3190	1.4673	1.5735	1.7847	2.0155
Dec.	1.0183	124.20	7.4264	9.0961	0.64218	7.2948	1.4679	1.5872	1.8076	1.9947

^{*} Calculated from daily quotations. — 1 Exchange rates from Australia and New Zealand; those for New Zealand calculated from rates as at the middle and end of the month. — 2 The ECB publishes daily euro reference exchange rates, which are calculated on the basis of the concertation between

central banks at 2.15 p.m. For additional euro reference exchange rates of the ECB, see Statistical Supplement to the Monthly Report 5, Exchange rate statistics.

12. Exchange rates for the national currencies of the EMU countries, the Deutsche Mark value of the ECU * and euro conversion rates

France	Italy	Netherlands	Belgium/ Luxembourg	Austria	Spain	Finland	Ireland	Portugal	Greece GRD 100/	ECU values 1
FRF 100	ITL 1,000	NLG 100	BEF/LUF 100	ATS 100	ESP 100	FIM 100	IEP 1	PTE 100	EUR 12	ECU 1
Historic s	pot midd	le rates on t	he Frankfu	rt exchan	ge in DEM	1				
29.409 29.500 29.189 29.238	1.2720 1.0526	88.742 88.814 89.017 89.171	4.857 4.857 4.785 4.8530	14.211 14.211 14.214 14.214	1.597 1.529 1.303 1.2112	41.087 34.963 28.915 31.108	2.656 2.423	1.149 1.157 1.031 0.9774	0.9103 0.8178 0.7213 0.6683	2.05076 2.02031 1.93639 1.92452
28.718 29.406 29.705 29.829	0.9751	89.272 89.243 88.857 88.714	4.8604 4.8592 4.8464 4.8476	14.214 14.214 14.210 14.213	1.1499 1.1880 1.1843 1.1779	32.832 32.766 33.414 32.920	2.4070 2.6297	0.9555 0.9754 0.9894 0.9763	0.6182 0.6248 0.6349 0.5952 325.76	1.87375 1.90954 1.96438 1.96913
									336.63	
Irrevocab	ole euro co	onversion ra	ates (EUR 1	= currenc	y units)	3				
6.55957	1936.27	2.20371	40.3399	13.7603	166.386	5.94573	0.787564	200.482	4 340.750	5 1.95583

^{*} Calculated from daily quotations. — 1 According to data from the European Commission. — 2 Until 1998 reciprocal values of the exchange rates for the Deutsche Mark, published by the Bank of Greece; from 1999 euro reference.

ence exchange rates of the ECB (EUR 1 = GRD ...). — 3 Applicable from 1 January 1999. — 4 Applicable from 1 January 2001. — 5 Deutsche Mark conversion rate.

Yearly average

X. Foreign trade and payments

13. Effective exchange rates * of the euro and selected foreign currencies

1st qtr 1999 = 100

	1st qtr 1999 = 100											
					Memo item: Indicators of the German economy's			Effective nominal exchange rates of selected foreign currencies against the currencies of 19 industrial				
	Effective exchange rate of the euro				price competitiveness 3 4			countries 3 5	6	encies or 15 ii	- Idastriai	
	Narrow group 1		Broad group 2		19 industrial countries 5		49 countries 7					
		Real on the basis of consumer		of consumer	on the basis of the deflators of	on the basis			Pound	Canadian	Swiss	Japanese
Period	Nominal	prices	Nominal	prices	total sales 8	consumer pr	ices	US dollar	sterling	dollar	franc	yen
1995 1996	107.8 107.9	108.8 108.8	93.2 95.4	107.8 105.9	109.6 106.2	110.4 106.8	110.2 105.2	86.1 90.9	84.0 85.9	106.4 108.8	105.4 104.2	115.6 100.6
1997	99.1	99.5	90.4	96.6	100.2	100.8	99.0	98.8	99.8	109.7	97.9	95.9
1998	101.5	101.3	96.6	99.1	100.9	101.1	100.1	103.4	103.3	103.5	99.9	89.7
1999	95.7	95.7	96.6	95.8	97.8	98.0	97.7	100.8	102.3	102.2	98.3	105.1
2000 2001	85.7 87.3	86.5 88.9	88.2 91.0	86.3 88.1	91.9 p 92.1	93.2 94.2	91.7 92.4	105.4 112.0	105.2 103.6	103.6 100.5	96.8 100.5	117.9 106.7
2002	90.0	92.8	95.6	91.9	p 93.7	95.1	93.6	110.7	104.2	98.7	104.9	100.8
1998 1st qtr	98.8	98.8	92.6	96.4	99.4	99.8	98.8	103.2	104.5	107.3	100.1	92.5
2nd qtr 3rd qtr	100.2 102.5	100.1 102.5	94.2 97.8	97.4 100.2	100.7 101.7	100.7 102.1	99.1 101.0	104.8 106.3	104.8 104.1	106.5 102.0	98.5 99.4	86.8 83.7
4th qtr	104.2	103.8	101.7	102.4	101.9	101.8	101.5	99.4	99.8	98.0	101.6	95.7
1999 1st qtr	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	100.0	100.0	100.1
2nd qtr 3rd qtr	96.1 94.6	96.0 94.7	96.5 95.5	96.0 94.6	98.6 97.2	98.3 97.8	97.8 97.2	102.8 101.4	102.9 102.4	103.5 102.3	98.6 97.7	99.0 106.2
4th qtr	92.2	92.2	94.2	92.6	95.5	95.9	95.5	99.1	104.1	102.8	96.7	115.2
2000 Jan.	90.2	90.8	92.4	90.7		95.9	94.8	99.7	106.5	104.8	95.4	115.5
Feb. Mar.	89.2	89.8	91.2	89.6	93.8	95.5	94.1	102.3	106.5	105.2	95.2	112.5 116.8
	87.7 86.1	88.3 86.6	89.7 88.4	88.1 86.7		94.3 93.2	92.9 91.9	102.4 103.0	106.3 107.7	104.6 104.3	94.7 95.9	118.6
Apr. May	84.5	85.0	86.9	85.1	92.1	93.2	91.9	105.0	107.7	104.3	96.3	118.3
June	87.4	88.1	89.9	88.1		93.8	92.7	103.6	102.5	103.7	97.2	118.3
July	86.9	87.9	89.4	87.5	ļ	94.3	92.7	104.5	103.4	103.9	97.7	116.8
Aug. Sep.	84.6 82.8	85.5 83.6	87.0 85.3	85.1 83.3	91.4	92.8 91.8	90.9 89.8	106.3 107.7	104.9 103.5	104.0 104.3	96.7 97.2	118.6 122.3
Oct.	81.6	82.4	84.4	82.2		90.9	88.9	109.4	106.4	102.7	97.8	121.4
Nov.	82.3	83.3	85.1	82.9	90.3	91.3	89.3	110.2	104.6	100.7	97.5	121.1
Dec.	85.4	86.4	88.1	85.8		92.8	91.3	108.7	104.1	101.5	99.4	115.1
2001 Jan. Feb.	89.2 88.3	90.2 89.4	91.7 91.0	89.0 88.3	92.7	95.2 95.2	93.3 93.2	107.7 108.8	102.4 102.0	102.7 101.6	100.0 99.2	108.3 109.9
Mar.	88.4	89.8	91.4	88.9		95.0	93.2	111.5	102.9	99.7	99.3	106.0
Apr.	87.6	89.1	91.0	88.4		94.2	92.7	113.0	103.7	100.0	99.4	104.9
May June	85.9 84.7	87.6 86.3	89.3 88.1	86.7 85.4	91.6	93.6 93.1	91.7 90.9	113.1 114.1	104.3 104.4	101.3 102.7	98.3 98.5	107.5 108.3
July	85.4	87.1	89.1	86.2		93.8	91.8	114.3	104.4	102.7	99.5	105.8
Aug.	87.7	89.3	91.8	88.6	p 91.7	94.7	92.9	111.6	103.0	101.1	100.4	106.4
Sep.	88.0	89.7	92.6	89.3		94.3	93.1	110.7	103.9	99.1	102.2	108.2
Oct.	88.0 86.8	90.0	92.8	89.5	p 92.3	93.9 93.2	92.7	111.8	103.7	99.0 97.8	103.0	106.2 106.3
Nov. Dec.	87.7	88.8 89.9	91.3 91.9	88.0 88.6	P 92.3	93.2	91.7 92.1	113.3 114.1	104.0 104.3	99.0	103.4 103.3	100.3
2002 Jan.	87.6	90.3	91.6	88.4		95.1	92.6	116.4	104.9	97.9	103.3	98.3
Feb.	86.8	89.4	91.1	87.8	p 92.3	94.6	92.1	117.3	105.4	98.5	102.7	98.2
Mar.	86.8	89.6	91.3	88.2		94.3	92.0	1	104.6	98.7	103.4	
Apr. May	87.2 88.6	90.1 91.5	91.7 93.7	88.5 90.4	p 93.1	93.9 94.3	91.6 92.6	115.3 112.0	105.2 103.5	99.0 100.4	103.8 105.1	99.4 101.2
June	90.6	93.6	96.4	92.8		95.4	94.0	109.0	101.9	101.0	104.9	101.7
July	91.7	94.7	98.2	94.4		96.3	95.4	106.0	103.5	99.4	106.0	104.3
Aug. Sep.	91.1 91.2	94.0 94.2	97.7 98.0	93.8 94.0	p 94.2	95.5 95.4	94.7 94.5	107.3 107.6	103.5 104.7	98.0 97.7	105.7 105.6	104.3 102.5
Oct.	91.7	94.8	98.5	94.5		95.3	94.5	108.5	105.0	97.6	105.8	99.8
Nov.	92.5	95.5	99.3	94.8	p 95.2	95.4	94.3	106.8	104.3	97.7	106.1	100.8
Dec.	93.6	96.6	100.4			95.8		106.0	104.0		106.5	

^{*} The effective exchange rate corresponds to the weighted external value of the currency concerned. — 1 ECB calculations based on the weighted averages of the effective exchange rates of the euro or, prior to 1999, of the exchange rates of the currencies preceding the euro against the currencies of the following countries: Australia, Canada, Denmark, Greece, Hong Kong, Japan, Norway, Singapore, South Korea, Sweden, Switzerland, United Kingdom and United States. The weights used in these calculations are based on manufactured goods trade between 1995 and 1997 and capture third-market effects. From January 2001, Greece ceased to be a partner country in the effective exchange rate of the euro; the weighting scheme was adjusted accordingly. Due to change in the weighting scheme, effective exchange rate data as from January 2001 are not fully comparable with earlier observations. For the prices are not yet available, estimates have been used. For the definition of the method see: ECB, Monthly Bulletin,

April 2000, page 39 ff. — 2 ECB calculations; in addition to the countries belonging to the narrow group (see footnote 1), this group also includes the following countries: Algeria, Argentina, Brazil, China, Croatia, Cyprus, Czech Republic, Estonia, Hungary, India, Indonesia, Israel, Malaysia, Mexico, Morocco, New Zealand, Philippines, Poland, Romania, Russia, Slovakia, Slovenia, South Africa, Taiwan, Thailand and Turkey. — 3 The method of calculation is consistent with the procedure used by the ECB to compute the effective exchange rates of the euro (see Monthly Bulletin, November 2001, page 50 ff.). — 4 Decline in the values implies an increase in competitiveness. — 5 EMU countries and narrow group of the ECB except Australia, Hong Kong, Singapore and South Korea. — 6 Figures up to end-1998, computed by linking with the figures published up to October 2001. — 7 EMU countries and broad group of the ECB. — 8 Annual and quarterly averages.

Overview of publications by the Deutsche Bundesbank

This overview provides information about selected recent economic and statistical publications by the Deutsche Bundesbank. Unless otherwise indicated, these publications are available in both English and German, in printed form and on the internet.

The publications are available free of charge from the Press and Public Relations Division. For a small fee to cover costs, a file which is updated monthly and contains approximately 40,000 time series published by the Bundesbank can be obtained on magnetic tape cassette or ZIP disk from the Division Statistical data processing, mathematical methods. Orders should be sent, in writing, to one of the addresses listed on the reverse of the title page. Selected time series can also be downloaded from the internet.

Annual Report

Monthly Report

For information on the articles published between 1990 and 2002 see the index attached to the January 2003 *Monthly Report*.

February 2002

 The economic scene in Germany around the turn of 2001–02

March 2002

- Circulation of the Deutsche Mark from currency reform to European monetary union
- German balance of payments in 2001
- The pass-through from market interest rates to bank lending rates in Germany

April 2002

- Government benefits for families
- German enterprises' profitability and financing in 2000
- RTGS^{plus} successfully established

May 2002

 The economic scene in Germany in spring 2002

June 2002

- Overall financial flows in 2001
- The evolution of accounting standards for credit institutions
- Consequences of increasing capital flows for exchange rate policy – observations and prospects worldwide
- Direct investment in the real and financial sector the Bundesbank Spring Conference 2002

August 2002

The economic scene in Germany in summer 2002

September 2002

- The performance of German credit institutions in 2001
- Productivity developments in Germany
- Quotas and voting shares in the IMF

October 2002

- Amendments to the Banking Act caused by the Fourth Financial Market Promotion Act
- The development of bank lending to the private sector
- Fundamental determinants of real exchange rate movements in the central and east European accession countries

November 2002

 The economic scene in Germany in autumn 2002

December 2002

- Recent tax revenue trends
- Macroeconomic development of earnings and costs since the early 1990s
- Developments in the external economic relations of the EU accession countries in central and eastern Europe
- Reports from the Economic Research Centre

July 2002

- Consumer prices and the changeover from Deutsche Mark to euro
- Funded old-age provision and the financial markets
- Monetary policy and investment behaviour an empirical study
- Reports from the Economic Research Centre

January 2003

- Reserve assets: their development and importance in monetary union
- Role and importance of interest rate derivatives
- The new "Minimum requirements for the credit business of credit institutions" and Basel II
- Reports from the Economic Research Centre

Statistical Supplements to the Monthly Report¹

- 1 Banking statistics (monthly)
- 2 Capital market statistics (monthly)
- 3 Balance of payments statistics (monthly)
- 4 Seasonally adjusted business statistics (monthly)
- 5 Exchange rate statistics (quarterly)

Special Publications

The monetary policy of the Bundesbank, October 1995²

Makro-ökonometrisches Mehr-Länder-Modell, November 1996³

Weltweite Organisationen und Gremien im Bereich von Währung und Wirtschaft, April 1997³

Europäische Organisationen und Gremien im Bereich von Währung und Wirtschaft, May 1997³

Die Zahlungsbilanz der ehemaligen DDR 1975 bis 1989, August 1999³

The market for German Federal securities, May 2000

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Special Statistical Publications

- 1 Banking statistics guidelines and customer classification, January 2003^{4,5}
- 2 Bankenstatistik Kundensystematik Firmenverzeichnisse^{3,6}

- 3 Aufbau der bankstatistischen Tabellen, January 2000³
- 4 Financial accounts for Germany 1991 to 2001, September 2002⁵
- 5 Annual accounts of west German enterprises 1971 to 1996, March 1999¹
- 6 Ratios from the annual accounts of west and east German enterprises for 1998, September 2001^{1,5}
- 7 Erläuterungen zu den Leistungspositionen der Zahlungsbilanz, September 2001³
- 8 Balance of payments statistics of the Federal Republic of Germany, 2nd edition, February 1991°
- 9 Securities deposits, August 2002
- 10 International capital links, May 2002¹
- 11 Balance of payments by region, August 2002
- 12 Technologische Dienstleistungen in der Zahlungsbilanz, May 2002³

- **o** Not available on the internet.
- 1 Only the headings and explanatory notes to the data contained in the German originals are available in English.
- 2 Also available in French, Spanish, Russian and Chinese.
- 3 Available in German only.
- 4 Only the sections "Monthly Balance Sheet Statistics", "External position" and "Customer classification" ("Overall survey on sectoral classification", "Survey on breakdown by industry or activity" and "Explanatory notes on the system of customer classification by industry or activity") are available in English.
- 5 Only available on the internet.
- **6** Current version available on the internet at quarterly intervals.

Discussion papers by the Economic Research Centre

August 2002 21/02 Imperfect Competition, Monetary Policy and Welfare in a Currency Area

August 2002 22/02 Monetary and fiscal policy rules in a model with capital accumulation and potentially non-superneutral money

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December 2002 30/02 Wechselkurszielzonen, wirtschaftlicher Aufholprozess und endogene Realignmentrisiken³

Earlier discussion papers are available on the internet. in some cases as abstracts.

Banking legislation

- 1 Bundesbank Act and Statute of the European System of Central Banks and of the European Central Bank, June 1998
- 2 Gesetz über das Kreditwesen, February 2001³
- 2a Grundsatz I über die Eigenmittel der Institute, January 2001³
- 2b Grundsatz II über die Liquidität der Institute, August 1999³
- 7 Instruction sheet for the reporting of large exposures and loans of 3 million Deutsche Mark or more pursuant to sections 13 to 14 of the Banking Act, September 1998

For footnotes, see p 79*.