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#### Commentaries

#### Securities markets

#### **Bond** market

In February gross sales of domestic bonds fell distinctly short of the record level of the previous month. Domestic borrowers issued bonds with a market value of € 47.6 billion, compared with € 68.1 billion in January. Once again, just under half of the volume of issues was denominated in euro. Net of redemptions, and after taking account of changes in issuers' holdings of their own bonds, net sales came to € 14.5 billion in February, compared with € 30.9 billion one month earlier. On balance, it was primarily longer-dated paper (with maturities of more than four years) that was sold. Foreign bonds were sold in the German market to the tune of € 16.5 billion net. € 13.2 billion of that amount was accounted for by euro and Deutsche Mark bonds issued by non-residents, and € 3.3 billion by foreign currency bonds. Altogether, sales of German and foreign debt securities generated € 31.0 billion in February, following € 39.0 billion in the previous month.

The funds raised by sales of domestic bonds all accrued to credit institutions in February ( $\in$  16.2 billion). At  $\in$  9.1 billion, communal bonds (Öffentliche Pfandbriefe) were again in the forefront. The outstanding amount of other bank bonds went up by  $\in$  4.4 billion. Bonds issued by specialised credit institutions and mortgage bonds (Hypothekenpfandbriefe) were sold in the amount of  $\in$  1.5 billion and  $\in$  1.2 billion net, respectively.

Sales of bonds

Bank bonds

#### Sales and purchases of bonds

DM	hil	lion

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	1999		
Item	January	February	
Sales	0000	MANAGEMENT OF THE	
Domestic bonds 1 of which	30.9	14.5	
Bank bonds	20.0	16.2	
Public sector bonds	11.0	- 1.7	
Foreign bonds 2	8.0	16.5	
Purchases 3		good and a second	
Residents	22.6	24.9	
Credit institutions 4	- 5.1	9.1	
Non-banks <sup>5</sup> of which	27.8	15.8	
Domestic bonds	19.7	- 1.0	
Non-residents <sup>2</sup>	16.3	6.1	
Total sales/purchases	39.0	31.0	

1 Net sales at market values plus/less changes in issuers' holdings of their own bonds. — 2 Transaction values. — 3 Provisional figures. — 4 Book values, statistically adjusted. — 5 Residual.

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Public sector bonds

The public sector reduced its debt in the bond market by € 1.7 billion in February. The outstanding amount of bonds issued by the Federal Government declined by € 1.5 billion. From sales of five-year special Federal bonds and two-year Treasury notes, the Federal Government received € 2.9 billion net and € 0.8 billion net, respectively. Sales of thirtyyear bonds yielded € 0.4 billion. The outstanding amount of Federal savings bonds and ten-year bonds decreased by € 1.3 billion and € 1.7 billion, respectively. In addition, four-year Treasury notes to the value of € 2.0 billion were redeemed; the Federal Government had dropped them from its range of issues quite a long time ago. 1 The Länder Governments ran down their indebtedness in the bond market by € 0.9 billion. Other public

issuers' bond market debt changed only marginally.

Domestic non-banks predominated among the buyers of German bonds in February. Their bond holdings went up by € 15.8 billion. They only purchased foreign bonds (€ 16.8 billion), most of which were denominated in euro (€ 14.8 billion). Non-banks reduced their portfolios of domestic debt securities by € 1.0 billion. German credit institutions purchased bonds totalling € 9.1 billion net, all of them domestic paper (€ 9.4 billion). Following heavy net purchases in the previous month (€ 16.3 billion), foreign investors' buying in the German bond market in February declined to € 6.1 billion. Whereas they purchased bank bonds worth € 11.1 billion net, they sold bonds issued by the public sector to the value of € 5.0 billion net.

In February, gross sales of Deutsche Mark/euro bonds issued by non-residents under the lead-management of a German syndicate, at  $\in$  8.4 billion (nominal value), distinctly exceeded the previous month's level ( $\in$  5.3 billion). Net of redemptions,  $\in$  4.4 billion was raised in the month under review, compared with  $\in$  3.4 billion in January.

Foreign Deutsche Mark/ euro bonds

Purchases of bonds

#### **Equity market**

In February issuing activity in the German equity market again diminished. Domestic

Share sales

<sup>1</sup> The individual items for the Federal Government are shown at nominal values, rather than market values, and without taking account of changes in issuers' holdings of their own bonds. The sum total of these individual figures therefore normally does not tally with the abovementioned net sales of Federal Government bonds.

enterprises sold new shares with a market value of  $\in$  0.6 billion, compared with  $\in$  1.3 billion in January. Foreign equities were sold in the German market to the extent of  $\in$  3.8 billion net, mostly in the form of portfolio investments ( $\in$  3.5 billion). Altogether,  $\in$  4.4 billion was raised in the German equity market in February, as against  $\in$  10.3 billion in the previous month.

lion and  $\in$  0.3 billion, respectively. Foreign investment fund certificates were sold in the German market in the amount of  $\in$  1.1 billion net. The total amount raised by sales of investment fund certificates thus came to  $\in$  9.9 billion.

Share purchases

Domestic credit institutions' share holdings went up by  $\in$  1.5 billion in February. On balance, the entire increase was accounted for by foreign equities. Foreign investors likewise added German shares worth  $\in$  1.5 billion (net) to their portfolios. German non-banks purchased equities in the amount of  $\in$  1.4 billion net; just like domestic banks, they only bought foreign shares ( $\in$  3.8 billion).

The principal buyers of investment fund certificates were domestic non-banks ( $\in$  7.3 billion), which concentrated on German certificates ( $\in$  6.8 billion); non-banks purchased certificates of domestic and foreign money market funds totalling  $\in$  1.1 billion net. Domestic credit institutions increased their holdings of investment fund certificates by  $\in$  2.2 billion, with  $\in$  0.7 billion of this sum being attributable to foreign certificates. Non-residents bought domestic investment fund cer-

Purchases of investment fund certificates

#### Investment fund certificates

Sales of investment fund certificates In February German investment funds raised € 8.8 billion, against € 14.0 billion in the previous month. Just over half of that amount accrued to funds open to the general public (€ 4.6 billion). Of the funds open to the general public, share-based funds received € 1.5 billion. Bond-based funds and open-end real estate funds sold certificates worth € 1.1 billion and € 1.0 billion, respectively. Moneymarket funds received € 0.7 billion. Mixed funds and pension investment mutual funds (Altersvorsorgefonds) sold certificates worth € 0.3 billion and € 0.1 billion, respectively. Specialised funds raised € 4.2 billion. In this context, mixed funds were again in the forefront, receiving € 2.4 billion. Bond-based funds and share-based funds raised € 1.5 bil-

#### Public finance

#### Federal cash trends

tificates worth € 0.4 billion net.

In March of this year, the Federal Government incurred a cash deficit of € 2 billion, i.e. around DM 4 billion, compared with almost DM 5 billion for the same period last year. In the first quarter, considered as a whole, the deficit amounted to slightly more than € 16 billion. It was thus somewhat higher than the corresponding amount one year ago. In the first three months, cash receipts increased by slightly more than 10 ½ %, whereas expenditure – proceeding from a decidedly higher level – rose by 9 ½ %. The balance recorded in the budgetary accounts, based on the draft budget which was submitted by the Federal

March

First quarter

#### Federal finance on a cash basis \*

	DM billio	on	€ billion	W
	1999	THE PROPERTY OF THE PROPERTY O		2700000 0000 00000 0000 00000 0000
ltem	Jan.– March p	March P	Jan.– March p	March P
Cash receipts Cash expenditure	146.45 178.09	56.58 60.56	74.88 91.06	28.93 30.96
Cash surplus (+) or deficit (–) 1 Financing	- 31.65	- 3.99	- 16.18	- 2.04
<ol> <li>Change in cash resources <sup>2</sup></li> <li>Change in</li> </ol>	+ 0.59	- 3.01	+ 0.30	- 1.54
money market debt	+ 18.02	+ 1.42	+ 9.21	+ 0.72
Change in capital market debt, total     a) Treasury	+ 14.28	- 0.42	+ 7.30	- 0.21
discount paper b) Treasury	- 0.44	—	- 0.22	_
financing paper c) Federal	- 0.61	- 0.15	- 0.31	- 0.07
Treasury notes d) Special Fed-	- 4.09	- 3.41	- 2.09	- 1.74
eral bonds	+ 8.12	+ 0.94	+ 4.15	+ 0.48
e) Federal sav- ings bonds	- 3.86	- 0.03	- 1. <del>9</del> 7	- 0.01
f) Federal bonds g) Bank	+ 23.38	+ 9.01	+ 11.95	+ 4.61
advances	- 8.04	- 6.77	- 4.11	- 3.46
h) Loans from social security funds	-	Nesser	-	_
i) Loans from other		TO SHAPE THE PERSON OF THE PER	1	
non-banks i) Other debt	- 0.20 - 0.01	- 0.01	- 0.10 - 0.00	- 0.00
4. Seigniorage	- 0.05	- 0.03	- 0.03	- 0.01
5. Total (1 less 2 less 3 less 4)	<i>–</i> 31.65	- 3.99	- 16.18	- 2.04
Memo items		2		
Increase or decrease from the previous year in %	Catalana a management of the control	enti-report in the control of the co	00 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	
Cash receipts	+ 10.7	+ 12.5	+ 10.7	+ 12.5
Cash expenditure	+ 9.6	+ 10.0	+ 9.6	+ 10.0

\* The transactions recorded here as cash receipts and cash expenditure comprise payments into and out of the accounts carried by the Bundesbank for the Federal Government. The cash receipts and cash expenditure differ from those shown in the official financial statistics primarily because these transactions are recorded not at the time they are entered in the budgetary accounts but at the time of the actual inflow or outflow, and because transactions on behalf of the European Union (which are not entered in the Federal budget) are conducted through the accounts of the Federal Government. — 1 including special transactions. — 2 Deposits at the Bundesbank and in the money market.

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Government to the Bundestag for the current year, shows a deficit of DM 56.3 billion (€ 28.8 billion); in 1998, expenditure had exceeded revenue by DM 56.5 billion.

#### Public sector borrowing

February

At just over € 2½ billion (almost DM 5½ billion) new borrowing by the central, regional and local authorities in February was rather limited, compared with January, when it reached the very high level of € 10 billion. In February borrowing was particularly strong in the short-term maturity categories. Thus, the central, regional and local authorities tapped the money market for slightly more than € 3 billion, while, on balance, they redeemed just over € ½ billion worth of debt in the capital market. The Federal Government cut its capital market debt by € 1 billion, redemptions of € 8½ billion offsetting gross borrowing to the tune of € 7½ billion. In the course of gross borrowing, the volume of five-year special Federal bonds outstanding was expanded; by contrast, Federal Treasury notes, Federal bonds and Federal savings bonds were redeemed on balance. In addition, the Federal Government borrowed just over € 3 billion in the money market. The Länder Governments took up new loans to the tune of € 1 billion, relying mainly on short-term bridging loans from banks. The level of the local authorities' indebtedness in February appears to have remained unchanged. The combined capital market debt of the special funds was reduced by approximately € ½ billion. In the process, loans against borrowers' notes were redeemed at slightly more than € 1 bil-

#### Net borrowing in the market

	DM billic	n		€ billion
	1998	November 1987 States and States and	1999	doma summer sumpre sustige e-
Borrower	Total pe	of which Jan.– Feb.	Jan.– Feb. pe	Jan.– Feb. pe
Federal Govern- ment Länder Govern-	+ 52.2	+ 24.0	+ 31.3	+ 16.0
ments Local autho-	+ 28.3	+ 7.0	- 0.4	- 0.2
rities 1, pe	+ 2.6	+ 1.4	+ 0.4	+ 0.2
ERP Special Fund	+ 0.5	+ 0.9	- 0.1	- 0.1
"German Unity" Fund	- 0.4	+ 0.0	+ 1.2	+ 0.6
Federal Railways Fund	- 0.0	+ 0.2	- 0.2	~ 0.1
Redemption Fund for Inherited Liabilities Equalisation Fund for Safe- guarding the Use of Coal <sup>2</sup>	- 18.5 + 0.8	- 1.3 + 0.0	- 7.4 - 0.0	— 3.8
Central, regional and local authorities, total	+ 65.5	+ 32.2	+ 24.7	+ 12.6

1 Including special-purpose associations. —  $\bf 2$  Including Indemnification Fund.

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March

lion (net); at the same time bonded debt was increased by  $\in \frac{1}{2}$  billion.

The Federal Government did not draw from the capital markets in March, either, but actually reduced its debt there marginally. Its gross borrowing amounted to not quite € 10½ billion. Here the Federal Government had special recourse to ten-year Federal bonds and two-year Federal Treasury notes, the aggregate sale of which amounted to almost € 9 billion. The Federal Government redeemed approximately € 10 ½ billion, repaying Federal Treasury notes from 1997 of just over € 6 billion and bank advances of € 4½ billion. As in the previous month, the Federal Government's cash deficit was financed through the money market. Thus, the Federal Government increased its money market

debt by just over  $\in \frac{1}{2}$  billion, while simultaneously decreasing its money market deposits by  $\in \frac{1}{2}$  billion.

#### **Economic conditions**

#### Manufacturing

Following quite a good start to 1999, the situation in industry became calmer again in February. Seasonally adjusted manufacturing orders were latterly somewhat down on the preceding month, which had benefited from the conclusion of a number of major contracts. Taking January and February together in order to eliminate random fluctuations, orders were slightly less than 1% higher than their comparatively low level in the last three months of 1998. Since orders had been quite buoyant at the beginning of 1998, the year-on-year decline in early 1999 increased to around 3¾% on a two-month average.

Domestic orders in January and February were as much as  $4\frac{1}{2}$ % down on the year; towards the end of 1998, the figure had been just over  $1\frac{1}{4}$ %. Even in seasonally adjusted terms, the notable result at the beginning of the current year was not matched in February. This means that the level in the first two months of 1999 taken together was 1% higher than in the fourth quarter.

By contrast, in seasonally adjusted terms, the volume of orders from abroad was higher in February than in January. In January and February together, the flow of orders increased by 1% compared with the fourth quarter,

Orders received

Domestic orders

Foreign orders

ent's cash deficit was financed February than in January. In January and February to path or the flow of orders increased

thus undershooting the comparable figure for early 1998 by around 2 ½ %.

Output

In line with orders, manufacturing output<sup>2</sup> likewise declined in February. Taking January and February together, it exceeded the quite low level in the final quarter of 1998 by a seasonally adjusted ½%. For the first time in a long while, production was therefore no longer higher than a year before. Whereas there had been an expansion of just under 2% in the final quarter of 1998, there was a decline of around ¼% on an average of January and February.

#### Construction

Orders received

In January – more recent statistical data is not yet available – demand for construction work was much higher than in the last few months of 1998. In comparison with the level at the start of last year, too, there was a sharp rise of around 6¾%. Major contracts were awarded especially in the area of residential construction, but the public sector, too, started a greater number of projects. What may have been of significance was that weather conditions were comparatively mild in January and that many construction projects were started which had been postponed due to the sharp onset of winter weather at the end of last year.

Output

In February, seasonally adjusted output perceptibly returned to normal compared with the high level of activity in January. Even so, for the first two months of 1999 – after eliminating seasonal fluctuations derived over a fairly long period – there was a marked ex-

pansion of output compared with autumn 1998. Although the level of output at the beginning of 1998 was latterly undershot by around  $2\frac{1}{2}$ %, the decline in the last quarter of 1998 had been much greater at  $6\frac{1}{2}$ %.

#### Labour market

The situation on the labour market remained largely unchanged over the past few months. The seasonally adjusted number of unemployed in March, at 4.07 million, persisted at its level of the end of January. The seasonally adjusted unemployment rate at the end of the period under review was 10.5%, which only marginally undershot the figure for January (10.6%). The year-on-year fall in unemployment, amounting to 335,000 persons, was not as favourable as it had been in the preceding months.

The number of persons on job-creation schemes and attending training courses amounted to just under 845,000 at the end of March. Although this was slightly more than in the preceding months, the year-on-year increase went down to around 290,000.

There is no current information on employment as no new base data were available for the group of wage and salary earners on acUnemployment

Labour market policy measures

Employment

2 The monthly output index has been recalculated by the Federal Statistical Office from the start of 1995. It is now based on the recorded quarterly overall output of all firms of enterprises with, in general, 20 or more employees. These quarterly data are converted into monthly data for calculating the index and are expanded using a monthly survey of a selection of firms. The most recent index values which are determined in this way are later adapted to new quarterly data. For details, see Federal Statistical Office, Wirtschaft und Statistik, April 1999.

count of the lack of figures on employees liable to social security contributions.

#### **Prices**

Consumer prices

There was a somewhat stronger rise in consumer prices in March. The month-on-month price level increased by 0.2 % in seasonally adjusted terms, which also slightly exceeded the level at the start of the year. The year-on-year rise went up to 0.4 %, having been 0.2 % in the two preceding months. This was due, firstly, to mineral oil products becoming more expensive. In the case of light heating oil, the price rises were intensified by high demand in the run-up to the increase in energy taxes on April 1. Secondly, there were comparatively small seasonal reductions in prices for food and services.

Import prices/ industrial producer prices There were scarcely any further price reductions in the case of imports and industrial products made for sale in Germany, data for both of which are available only up to February. Latterly, the year-on-year decline in import prices, at 5.6%, has not accelerated, and the year-on-year decline in industrial producer prices, at 2.4%, has accelerated only slightly.

#### Balance of payments

Current account

Germany's current account – the combined outcome of foreign trade, services, factor income and current transfers - ran a surplus of  $\in$  0.2 billion in February 1999 compared with a deficit of  $\in$  4.3 billion in January. The main reason for the improvement is that the def-

#### Economic conditions in Germany \*

Seasona	lly	adj	usted
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Seasonally ad	justeu	Contraction Control of the Control o	OCONTRACTOR STOLLARS WAS NOW WANTED	003x00-19550-301-1994-4		
	New orders (volume); 1995 = 100					
	Manufactu					
		of which		Con-		
Period	Total	Domestic	Foreign	struction		
1998 2ndqtr	111.0	103.3 103.7	125.0 122.6	88.1 89.5		
3rd qtr 4th qtr	110.4 106.4	99.1	119.7	84.7		
Dec.	105.8	97.6	120.7	82.3		
1999 Jan. Feb.	107.8 107.0	101.2 98.7	119.7 122.1	88.2 		
	Output; 19	95 = 100				
	Manufactu	ıring				
		of which				
	Total	Inter- mediate goods industry <sup>2</sup>	Capital goods industry	Con- struction		
1998 2ndgtr	110.1	111.9	112.9	86.8		
3rd qtr	111.2 109.1	112.8 109.6	114.8 113.6	87.1 84.5		
4th qtr Dec.	109.1	109.0	113.0	83.5		
1999 Jan.	111.0	112.5	113.2	94.1		
Feb.	108.2	108.8	110.1	82.6		
	Labour ma	Labour market				
				grandermentarialisticistic recent more en-		
	Em- ployed <sup>3</sup>	Vacancies	Un- employed	Un- employ- ment		
	ployed <sup>3</sup>	Vacancies thousands	employed	employ- ment rate in % 4		
1998 3rd qtr 4th qtr	ployed <sup>3</sup>		employed	employ- ment rate		
	ployed <sup>3</sup> Number ir  34,019  34,061	446 436 432	4,209 4,130 4,089	employ- ment rate in % 4 10.9 10.7		
4th qtr 1999 1st qtr 1998 Dec.	ployed <sup>3</sup> Number ir  34,019  34,061	446 436 432 417	4,209 4,130 4,089 4,148	employ- ment rate in % 4 10.9 10.7 10.6 10.7		
4th qtr 1999 1st qtr 1998 Dec. 1999 Jan.	Ployed 3  Number ir  34,019 34,061 34,042	446 436 432 417 427	4,209 4,130 4,089 4,148 4,082	employ- ment rate in % 4 10.9 10.7		
4th qtr 1999 1st qtr 1998 Dec.	ployed 3 Number in 34,019 34,061  34,042	446 436 432 417	4,209 4,130 4,089 4,148	employ- ment rate in % 4 10.9 10.7 10.6 10.7		
4th qtr 1999 1st qtr 1998 Dec. 1999 Jan. Feb.	Ployed 3  Number ir  34,019 34,061 34,042	446 436 432 417 427 438	4,209 4,130 4,089 4,148 4,082 4,076	employ- ment rate in % 4 10.9 10.7 10.6 10.7 10.6 10.5		
4th qtr 1999 1st qtr 1998 Dec. 1999 Jan. Feb.	Number ir 34,019 34,061  34,042 	446 436 432 417 427 438 448 Producer prices of	4,209 4,130 4,089 4,148 4,089 4,076 4,073	employ- ment rate in % 4 10.9 10.7 10.6 10.7 10.6 10.5 10.5		
4th qtr 1999 1st qtr 1998 Dec. 1999 Jan. Feb.	ployed 3  Number ir  34,019 34,061 34,042 Prices	thousands 446 436 432 417 427 438 448 Producer prices of industrial	4,209 4,130 4,089 4,148 4,082 4,073 4,073	employ- ment rate in % 4 10.9 10.7 10.6 10.7 10.6 10.5		
4th qtr 1999 1st qtr 1998 Dec. 1999 Jan. Feb.	Number ir 34,019 34,061  34,042 	446 436 432 417 427 438 448 Producer prices of	4,209 4,130 4,089 4,148 4,089 4,076 4,073	employ- ment rate in % 4 10.9 10.7 10.6 10.7 10.5 Con- sumer		
4th qtr 1999 1st qtr 1998 Dec. 1999 Jan. Feb.	ployed 3  Number ir  34,019 34,061 34,042 Prices	thousands 446 436 432 417 427 438 448 Producer prices of industrial prod-	4,209 4,130 4,089 4,148 4,082 4,076 4,073 Overall construc- tion price level 6	employ- ment rate in % 4 10.9 10.7 10.6 10.5 10.5		
4th qtr 1999 1st qtr 1998 Dec. 1999 Jan. Feb. March	Prices  Import prices  1991=100  Prived 3  Number ir  34,019 34,061 34,042 Prices	446 436 432 417 427 438 448 Producer prices of industrial prod- ucts 5 1995 = 100	4,209 4,130 4,089 4,148 4,076 4,073 Overall construc- tion price level 6	employ- ment rate in % 4 10.9 10.7 10.6 10.5 10.5 Con- sumer price index 7		
4th qtr 1999 1st qtr 1998 Dec. 1999 Jan. Feb. March	Prices  Import prices  1991=100  97.4  95.5	446 436 432 417 427 438 448 Producer prices of industrial prod- ucts 5 1995 = 100 99.5 98.6	4,209 4,130 4,089 4,148 4,076 4,073 Overall construc- tion price level 6 98.9 98.8	employ- ment rate in % 4 10.9 10.7 10.6 10.5 10.5 Con- sumer price index 7		
4th qtr 1999 1st qtr 1998 Dec. 1999 Jan. Feb. March  1998 3rd qtr 4th qtr 1999 1st qtr	Prices  Import prices  1991=100  97.4  95.5	446 436 432 417 427 438 448 Producer prices of industrial prod- ucts 5 1995 = 100	4,209 4,130 4,089 4,148 4,076 4,073 Overall construc- tion price level 6	employ- ment rate in % 4 10.9 10.7 10.6 10.5 10.5 Con- sumer price index 7		
4th qtr 1999 1st qtr 1998 Dec. 1999 Jan. Feb. March	Prices  Import prices  1991=100  97.4  95.5	## Thousands ### 446 ### 436 ### 427 ### 438 ### 448  ### Producer prices of industrial products 5 ### 1995 = 100 ### 99.5 ### 99.5 ### 98.6 ###	4,209 4,130 4,089 4,148 4,076 4,073 Overall construc- tion price level 6 98.9 98.8	employ- ment rate in % 4 10.9 10.7 10.6 10.5 10.5 Con- sumer price index 7		
4th qtr 1999 1st qtr 1998 Dec. 1999 Jan. Feb. March  1998 3rd qtr 4th qtr 1999 1st qtr 1998 Dec.	Prices  Import prices  1991=100  97.4 95.5 95.0	## Thousands ### 446 ### 436 ### 427 ### 438 ### 448  ### Producer prices of industrial products 5 ### 1995 = 100 ### 99.5 ### 98.6 ### 98.4	4,209 4,130 4,089 4,148 4,076 4,073 Overall construc- tion price level 6 98.9 98.8	employ- ment rate in % 4  10.9 10.7 10.6 10.7 10.6 10.5 10.5  Con- sumer price index 7  104.5 104.5 104.5		

<sup>\*</sup> Data in many cases provisional. — 1 Excluding the food and drink industry, and tobacco products. — 2 Excluding energy supply and excluding mining and quarrying. — 3 Work-place concept. — 4 In terms of the total labour force. — 5 Domestic sales. — 6 Calculated by the Bundesbank. Mid-quarter level. — 7 All house-holds.

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icits on invisibles were smaller than in the previous month.

Foreign trade

According to calculations by the Federal Statistical Office, the surplus on foreign trade also increased again in February; it amounted to € 5.9 billion compared with € 4.5 billion in January of this year. Even so, in seasonally adjusted terms, the surplus was virtually unchanged; as in the previous month it amounted to approximately  $\in$  6 billion. In February the value of exports rose by just under 2%, seasonally adjusted, compared with January. If the first two months of the year are taken together, exports likewise rose by 2% compared with the previous period (November-December 1998). This means that, following their sharp decline towards the end of 1998, they regained the level they had reached during the autumn. The seasonally adjusted value of imports increased by just over 3 % during the period under review. There was a slight downturn of almost 1% in a two-month comparison, however, although the further fall in import prices played a major role in that.

Invisibles

The deficit on invisible transactions with non-residents was substantially lower, at € 5.5 billion, in February than it had been in January (€ 8.5 billion). This was mainly due to the balance on factor income, which is subject to significant monthly fluctuations. The deficit here declined from € 3.7 billion in January to € 0.7 billion in the month under review. Service transactions with non-residents also incurred a smaller deficit in February (€ 2.2 billion compared with € 3.4 billion in January); a seasonally-induced fall in expenditure on for-

eign travel was a significant factor here. In the case of current transfers to non-residents, by contrast, there was a rise in the deficit from  $\in$  1.4 billion in January to  $\in$  2.6 billion during the month under review.

There were diverging trends in the various segments of statistically recorded financial transactions with non-residents in February 1999. Net capital exports as a result of portfolio transactions increased to € 11.8 billion compared with € 1.3 billion in January. The larger deficit was primarily due to foreign investors' dwindling interest in German securities. They bought only € 8.4 billion worth of this paper in February after spending € 16.4 billion on it in January. It was principally German public bonds that non-residents returned on balance (minus € 5.0 billion). German residents, by contrast, again increased their investment in the foreign securities markets during the period under review (€ 20.2 billion compared with € 17.7 billion in January). Their main interest was in foreign euro or Deutsche Mark bonds (€ 13.2 billion); less interest was shown in shares (€ 3.5 billion) and foreign currency bonds issued by foreign borrowers (€ 3.3 billion).

Direct investment accounted for net outflows of  $\in$  2.1 billion in February. German enterprises provided their foreign subsidiaries with funds totalling  $\in$  2.0 billion whereas foreign proprietors withdrew  $\in$  0.1 billion from their subsidiaries in Germany.

There were also net capital outflows – of  $\in$  7.0 billion – as a result of the credit transactions of enterprises and individuals in February. By

transactions

Portfolio

Direct investment

Credit transactions contrast, the cross-border credit transactions of the public sector almost cancelled out.

As a counterpart, as it were, to the capital outflows in the aforementioned sectors, German credit institutions recorded a sharp decline in their short-term net external position ( $\in$  21.7 billion) during the month under review; their long-term operations resulted in further net capital imports of  $\in$  2.0 billion. The changes in the external assets and liabilities of the Bundesbank, which do not count towards the monetary reserves and which have likewise been recorded as part of the cross-border credit transactions since the beginning of this year, were fairly limited; there was a net influx of  $\in$  0.9 billion.

Monetary reserves of the Bundesbank The monetary reserves of the Bundesbank, as uniformly defined for the Eurosystem since the beginning of monetary union, declined, at transaction values, by  $\in$  1.0 billion in February after declining by  $\in$  12.4 billion in the previous month as a result of the transfer of monetary reserves to the ECB. The decline was primarily a reflection of the reduction in the IMF position.

# Major items of the balance of payments

	lion

EDITION	1998 1	1999 1	:
ltem	Feb.	Jan. r	Feb. p
I. Current account 1. Foreign trade 2 Exports (f.o.b.)	39.2	35,4	39.0
Imports (c.i.f.)	33.6	30.9	33.1
Balance Memo item Seasonally adjusted figures Exports (f.o.b.)	+ 5.7 40.4 34.7	+ 4.5 39.3 33.2	+ 5.9 40.2 34.3
Imports (c.i.f.)  2. Supplementary trade items 3	- 0.1	- 0.2	- 0.1
3. Services Receipts Expenditure	5.4 7.4	5.2 8.6	5.6 7.8
Balance	- 2.0	- 3.4	- 2.2
4. Factor income (net)	- 0.8	- 3.7	- 0.7
5. Current transfers from non-residents to non-residents	0.9	3.8 5.2	0.7 3.4
Balance	- 3.1	- 1.4	- 2.6
Balance on current account	- 0.4	- 4.3	+ 0.2
II. Capital transfers (net)	- 0.1	+ 0.5	- 0.2
III. Financial account (net capital exports: –) Direct investment German investment	- 0.6	- 1.3	- 2.1
abroad	- 8.6	- 3.9	- 2.0
Foreign investment in Germany Portfolio investment 4 German investment	+ 8.0 - 2.3	+ 2.6 - 1.3	- 0.1 - 11.8
abroad of which	- 13.8	- 17.7	- 20.2
Shares Bonds and notes Foreign investment in	- 6.3 - 5.9	- 8.2 - 8.0	- 3.5 - 16.5
Germany of which	+ 11.4	+ 16.4	+ 8.4
Shares Bonds and notes Financial derivatives Credit transactions 4 Credit institutions of which	+ 1.2 + 8.4 - 0.6 + 4.0 + 5.4	+ 0.1 + 16.6 - 0.7 - 34.1 - 13.5	+ 1.5 + 3.6 + 1.1 + 17.4 + 23.7
Short-term Enterprises and	+ 1.8	- 8.6	+ 21.7
individuals 5 Public authorities Bundesbank Other investment	- 1.8 + 0.2 + 0.1 - 0.2	+ 7.0 - 1.4 - 26.3 - 0.2	- 7.0 - 0.2 + 0.9 - 0.1
Overall balance on financial account	+ 0.3	- 37.6	+ 4.5
IV. Change in the monetary reserves at transaction values (increase: –) 6	- 0.8	+ 12.4	+ 1.0
V. Balance of unclassifiable transactions	+ 1.0	+ 29.0	- 5.5

1 Figures subject to major uncertainty owing to changes in the method of data collection in foreign trade. — 2 Special trade according to the official foreign trade statistics (source: Federal Statistical Office). — 3 Mainly warehouse transactions for account of residents and deduction of goods returned. — 4 Excluding direct investment. — 5 For February 1999 including the financial flows and flows of trade credits that are classified as direct investment. — 6 Excluding allocation of SDRs and changes due to value adjustments.

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The role of economic fundamentals in the emergence of currency crises in emerging markets

Following the currency crises in some Asian emerging market economies, the question as to what causes such crises has once again become the focus of interest. Occasionally the responsibility for such crises is placed on speculative capital movements detached from macroeconomic fundamentals which attack currencies at random, so to speak; i.e., completely independently of whatever the economic surroundings happen to be at that particular time. This report refutes that at times quite stereotypical view by systematically and comprehensively studying the development of macroeconomic fundamentals in the run-up to currency turbulence in 12 countries over a period of more than 25 years. It also shows that macroeconomic misalignments from the past bear at least a significant share of the responsibility for most currency crises.

#### Preliminary remarks

The eruption of the currency crises in Asia in the summer of 1997 caught many observers by surprise. The immediate cause of the outbreak of the crises was the sudden emergence of doubts concerning the sustainability of Thailand's current account deficits, the export sector having been confronted with major sales problems owing to the plunge in world market prices for semiconductors. The massive pressure on the Thai baht triggered a confidence shock among international invest-

Currency crises in Asia ...

ors which at the same time also called the sustainability of some other countries' exchange rate peg to the dollar into question. Thus, within a few weeks, the Philippine peso, the Malaysian ringgit, and the Indonesian rupee were drawn into the devaluation spiral created by the Thai baht. Following repeated speculative attacks, the South Korean won also fell sharply towards the end of 1997. In the period thereafter, the situation deteriorated considerably, which meant that the currencies involved fell to all-time lows against the US dollar in the first half of 1998. Compared with exchange rates of June 1997. the value of the Indonesian rupee had sunk by a maximum of over 80 % by the spring of 1998; the losses sustained by the currencies of Thailand, Malaysia, the Philippines and South Korea were between 35% and 50%.

... led to burdens on the real economy

Due to the relatively sizeable short-term external indebtedness, denominated in foreign currency, as well as the sudden disruptions to the exchange rate relations, the turbulence in the foreign-exchange markets spilled over quickly to the banking systems (which in some countries were already fragile to begin with) and to the real economy. The devaluations and slump in share prices intensified by the withdrawal of international lenders and residents' capital exports led to considerable losses in assets. Furthermore, the slumping growth in those countries generated considerable political and social tension. From 1986 to 1996 Thailand, Indonesia, Malaysia and South Korea had annual growth rates averaging over 7%; in 1998, however, real GDP shrank considerably in those countries. Over the past year, the decline in GDP in Thailand,

Malaysia and South Korea ranged from 6½% to 8%; in Indonesia, this figure was even as high as 15%. The sharp rise in import prices caused by devaluation, but also the fact that implementation of the necessary stabilisation measures was insufficient at first, caused inflationary risks to increase as well. In most of those countries, though, inflation picked up much less strongly than was originally feared. However, Indonesia formed the exception, its inflation rate jumping from single digits to approximately 60%.

Opinions diverge greatly on the determinants of the Asian currency crises. On the one hand, many argue that the fundamental economic data of those economies prior to the outbreak of the crisis were no cause for worry and that the crises were more likely attributable to speculative movements completely detached from macroeconomic factors. At all events, none of those countries pursued an excessively expansionary fiscal policy financed by printing money, which, according to standard theories, would have been an important factor explaining currency crises. On the contrary, the government budgets of Thailand, Malaysia and Indonesia were even running surpluses before the crises. Moreover, those countries had been showing strong growth rates for several years, and inflation was fairly restrained compared with other developing countries; therefore, for some time those countries were even regarded as a model for successful development processes.

On the other hand, rising current account deficits were pointing to increasing competi-

Cause: speculative movements or ...

... fundamental imbalances

... and rising inflation

tive problems. As long as the excessively booming securities and real-estate markets of those countries and the - in some cases - foreign-exchange-rate-oriented domestic monetary policy were ensuring ample inflows of foreign capital, though, "bankrolling" those deficits did not appear to be a problem. The short-term nature of the incoming capital from abroad, though, also magnified the danger of setbacks and sudden capital withdrawals. The risk potential was increased also by the fact that a large portion of this capital was denominated in foreign exchange and flowed into those countries upon confidence in an alleged exchange rate guarantee for those domestic currencies vis-à-vis the US dollar. To make matters worse, the problem was not completely understood by lenders for a long time because there was insufficient transparency in the banking systems of many emerging market economies, which were insufficiently supervised. Only when the persistent strength of the dollar threatened to severely weaken the competitiveness of many South-East Asian countries (owing to the pegging of their currencies to the dollar), which are strongly dependent on exports, and enterprises and banks were increasingly encountering difficulties, did the market participants become more and more aware of the risks.

# The term "currency turbulence" and its definition

Systematic analysis The following empirical analysis of the economic fundamentals prior to currency turbulence spans a period between January 1970

#### Selected economic data

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Country	198696 1	995 1	1996	1997	1998
	Growth (%	per year)			
Thailand	9.1	8.8	5.5	- 0.4	- 8.0
Malaysia	7.8	9.5	8.6	7.8	- 6.4
Philippines	3.7	4.8	5.7	5.1	- 0.6
Indonesia	7.4	8.2	8.0	4.6	- 15.0
South Korea	8.6	8.9	7.1	5.5	- 7.0
	Inflation (%	6 per year)			
Thailand	4.5	5.8	5.9	5.6	9.0
Malaysia	2.6	3.4	3.5	2.7	6.0
Philippines	8.9	8.1	8.4	6.0	10.0
Indonesia	8.2	9.4	7.9	6.6	60.0
South Korea	5.7	4.5	4.9	4.4	8.5
	Balance on	current ac	count (as	s a % of GI	OP)
Thailand	- 4.9	- 7.9	- 7.9	- 2.0	10.7
Malaysia	- 2.6	- 10.0	- 4.9	- 4.8	6.5
Philippines	- 2.5	- 4.4	- 4.7	- 5.2	- 1.5
Indonesia	- 2.8	- 3.3	- 3.3	- 1.8	2.5
South Korea	0.9	- 1.9	- 4.7	1.8	12.9

Source: IMF.

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and June 1997. It includes 12 emerging market economies which for the most part have been classified by the World Bank as middle-income countries and which have a sufficiently well-developed domestic financial system and a somewhat liberal capital account. These countries are Argentina, Brazil, Chile, Indonesia, South Korea, Malaysia, Mexico, the Philippines, South Africa, Thailand, Uruguay and Venezuela. For this relatively homogeneous group of countries, the development of selected fundamentals in the year prior to the onset of currency turbulence ("run-up period") was compared to that in periods of tranquillity.

To make such a comparison, it is necessary at first to operationalise the term "currency turbulence". That means a catalogue containing

Operationalisation of the term "currency turbulence"

a sufficient number of such crisis phases in the selected countries must be compiled. There are basically two possible approaches. One is to compile a catalogue of currency turbulence according to how it is judged by economic history in that particular country. The other is to identify currency turbulence using a pressure indicator constructed for precisely that purpose.

Collecting episodes by studying the literature The compilation of a catalogue of crises using the first of the two methods would have the disadvantage that this relatively historically based selection method would not be neutral in its judgement of the outcome of the crisis. Speculative attacks that have been warded off relatively quickly and successfully are generally given considerably less attention, historically speaking, than more protracted crises which in the end led to a sharp devaluation of the currencies involved. Hence, there would be the danger that the study would ultimately be limited to a certain category of currency turbulence and would therefore unnecessarily narrow the scope.

Developing a pressure indicator using crisis symptoms Some recent scholarly papers have therefore proposed identifying turbulence in the foreign exchange markets using an indicator relying on the known symptoms of such episodes of currency turbulence:1

- an extremely sharp devaluation of the affected country's currency;
- plummeting foreign exchange reserves;
   and
- an abrupt rise in interest rates.

This study basically follows the aforementioned approach. However, since for many

emerging economies there was often a lack of interest rate data having a sufficient guality, this variable was dropped. This procedure seems to be justified methodologically, since there is a close correlation between interest rate increases and foreign exchange market interventions to sustain exchange rates in times of speculative attacks.<sup>2</sup> The devaluation criterion here is based on the movement of the real (US dollar) exchange rate of the currencies under observation, since the economic environment in some of the emergina economies being studied here was characterised at times by high inflation. The pressure indicator used here is thus calculated as a weighted average of the percentage change of the real exchange rate and of the foreign exchange reserves (each vis-à-vis the previous month), with the weights corresponding to the ratio of the different variances of those two variables.3

Speculative strains on a given currency cause the pressure indicator calculated in this manner to fluctuate sharply, since the exchange rate generally nose-dives and/or the foreign exchange reserves of the country in question are considerably depleted. A country's foreign

Identification of currency crises

<sup>1</sup> See, for example, Eichengreen, B. et al. (1995), Exchange Rate Mayhem, The Antecedents and Aftermath of Speculative Attacks, Economic Policy, Vol. 21, pages 249 to 312; Sachs, J.D. et al. (1996), Financial Crises in "Emerging Markets": The Lessons from 1995, Brookings Papers on Economic Activity, No. 1, pages 147 to 198; Kaminsky, G. et al. (1998), Leading Indicators of Currency Crises, IMF Staff Papers, Vol. 45, No. 1, pages 1 to 49. 2 See Corsetti, G. et al. (1998), Paper Tigers? A Model of the Asian Crisis, NBER Working Paper No. 6783, Cambridge, MA, page 22.

<sup>3</sup> See Schnatz, B. (1998), Macroeconomic determinants of currency turbulences in emerging markets, Discussion paper 3/98, Economic Research Group of the Deutsche Bundesbank, for a more thorough description and critique of this calculation method.

exchange trends can thus be termed "currency turbulence" once the indicator has exceeded a given threshold. Here, this threshold has been set at 1.5 times the standard deviation of the indicator calculated for all countries. The extreme values of the indicator determined in this manner often show up at rather short intervals. This is a reflection of the fact that in many cases speculative attacks precede currency crises or that currency crises become exacerbated over time, as could be observed in several Asian countries. In order to be able to define the length of a currency crisis more precisely, the beginning of the crisis was set at the time where the pressure indicator crosses the critical threshold for the first time following a period of tranquillity. The end of a crisis is that time when the indicator remains below the threshold value for the following three quarters. Using this definition, a total of 49 cases of foreign exchange market turbulence were identified in the 12 countries concerned.

#### On selecting possible explanatory factors

Fundamental determinants of currency turbulence In order to more precisely specify the explanatory approach, there are basically a number of fundamental determinants to choose from. For this study, seven factors were selected which in earlier studies proved to be relevant and quite robust against alternative specifications. 4 These factors are:

- the deviation of the real exchange rate from the trend;
- export growth,
- balance on current account as a percentage of GDP,

- foreign exchange reserves in terms of a broadly defined monetary aggregate,
- domestic credit growth (as a percentage of GDP).
- the inflation differential between the country in question and the US, and
- the international interest rate level, represented by the US money market rate.

Restricting the study to those variables is the

result of a compromise between capturing a broad range of determinants, the corresponding data availability and the desirable high frequency of data. In order to take account of the fast reactions in the financial markets, it seemed necessary to take recourse to data published at least monthly; even quarterly data may obscure much of the information used by foreign exchange market agents in their actions. Unfortunately, this means that some explanatory factors which do share some part of the responsibility for the currency crises of the past few years will have to be dropped owing to their low data frequency. They include, in particular, data on the composition, denomination and maturity structure of foreign debt. Moreover, in such an analysis there are also a number of other influencing factors of a more qualitative nature which are difficult to capture. Some of these are the institutional terms of the exchange rate regime and the underlying political, legal and cultural conditions. These limitations must be taken into account when interpreting the results presented here. In the final analysis, the results do

not claim to comprehensively explain the evo-

lution of currency turbulence, but are instead

Data frequency versus data availability

<sup>4</sup> Schnatz (1998), page 45 ff.

meant to classify important macroeconomic data within this context.

Comparison of mean values

A simple comparison of the mean values of the seven aforementioned macroeconomic variables in the period prior to the outbreak of currency crises with their mean values in periods of tranquillity may provide some clues. Specifically, the mean values of the variables during periods of tranquillity were compared with their corresponding mean values in the twelve months prior to the onset of a crisis.

Real exchange rate and export growth

Such a comparison of real exchange rates shows initially that those currencies tended to be overvalued prior to speculative attacks. In the case of Asia, too, the test calculations for most currencies usually point to such overvaluation prior to the outbreak of the crises.5 Consequently, export growth generally declines visibly in the run-up to currency turbulence - including the period prior to the outbreak of the currency crises in Asia, when export growth of Thailand, Malaysia and South Korea declined noticeably over past levels. Taken as an average of all cases of currency turbulence, export growth in the run-up period was down by more than ten percentage points over its level in tranquil phases. Current-account deficits, too, were around 1% of GDP higher in the periods prior to currency turbulence than in periods of tranquillity; in most of the Asian countries, in 1996 they were even over 3% higher than their average in tranquil periods.

Large credit growth and inflation differential

The other variables being examined also show striking differences in both phases. Thus, domestic credit growth (as a percent-

age of GDP) is an average of around five percentage points higher than in periods of tranquillity. For one thing, this could indicate that those countries are conducting an excessively expansionary economic policy in the run-up to currency crises. One argument in favour of this interpretation is the fact that the inflation differential vis-à-vis the industrial countries (represented here by the United States) is higher on average. Prior to the currency crises in Asia, though, the impact exerted by this differential is likely to have played a relatively minor role in this general form. More important in this context, though, was asset price inflation, especially real estate and equities. For another thing, a relatively large level of domestic credit growth could also indicate excessive lending which, in many cases, is financed by the exchange-rate-oriented monetary policy in those particular countries. The impetus was often provided by large inflows of short-term funds from abroad received by the banks of some Asian emerging economies which were then used to refinance their own lending to their domestic economies.

Besides, prior to currency turbulence the countries under observation tend to show, on average, lower levels of foreign exchange reserves (in terms of broad monetary aggregates) than during tranquil periods. This observation also fits in with the theoretically expected pattern of development. What is less clear in this simple comparison, however, is the influence the level of international inter-

Foreign exchange reserves and inflation differentials

<sup>5</sup> See also Chinn, M. D. (1998), Before the Fall: Were East Asian Currencies Overvalued?, NBER Working Paper No. 6491, Cambridge, MA.

est rates has on the vulnerability of the emerging economies under observation to crises. This applies in any event if the interest rate variable is approximated using US money market rates, as has been done here. For example, at the beginning of the eighties, those rates - prior to the outbreak of the international debt crisis - had reached quite a high level. By contrast, in the run-up to the Asian crisis, they were even below their average during periods of tranquillity. On average, prior to currency crises international interest rates were only marginally higher than in periods of tranquillity. However, the simple method of comparing mean values is too imprecise for drawing reliable conclusions concerning the relevance of the variables observed here.

#### Results of a systematic analysis of data

Results

Hence, the analysis was run using a more sophisticated method. This was based on regressions, with the help of which the interaction of the variables under observation was captured. The method used and the results obtained are explained in more detail in the overviews on pages 22 and 23. On the whole, the interrelationships presented in the preceding text can be confirmed in this manner; all variables are in a reliable and plausible relationship (in terms of the sign) to the situation in the foreign exchange markets under observation. The interest rate variable also proves to be relevant.

Crisis indicator

In order to gain an impression of the accuracy of the results, these estimations were then

#### Selected fundamentals prior to currency turbulence and in periods of tranquillity

	Service of the servic	Mel entre titori altococce entre com entre con en-	
	Average in		
	the 12 months	THE PARTY OF THE P	
	<b>'</b>	periods of	
	currency	periousor	
ltem	turbulence	tranquillity	
Real exchange rate 1	- 11.53	0.54	
Export growth 2	3.31	14.69	
Credit growth 2, 3	7.36	2.16	
Inflation differential	47.22	20.14	
Foreign exchange reserves 4	19.31	25.66	
Balance on current account 3	- 2.77	- 1.54	
US money market rate 5	7.30	6.71	

1 Deviation of the real exchange rate from the trend; real exchange rates based on consumer price movements compared with the US. -2 Change from the previous year in %. -3 As a % of GDP. -4 In terms of the (broadly defined) money stock. -5 Per year, in %.

#### Deutsche Bundesbank

used to calculate forecast values for the resulting "crisis indicator", and on the basis of those values the forecast accuracy of the indicator was tested. The estimated indicator is interpreted as a crisis warning signal if it exceeds a given threshold value.

Defining the threshold value means striking a balance between two opposing goals. If the value is set at a relatively low level so as not to miss a crisis warning if at all possible, the danger exists that warning signals would be received not just prior to currency turbulence but frequently also (erroneously) in tranquil periods. Yet if the threshold value is set at a relatively high level to avoid this problem, there is the risk of the appropriate early warning signal not being received. Therefore, the decision on the threshold value for each of

#### Methodological explanations

To perform the econometric calculations, a method was used which incorporated "pooled" data. In simple terms, this means combining the traditional time-series analysis with the cross-country analysis. This made it possible to include the time series of all countries in the estimations simultaneously. The idea is basically to explain the state of each individual country's foreign exchange market by the developments of a series of macroeconomic variables. One thing that makes this more difficult than standard quantitative analysis methods is that there is no simple method of measuring this state - or, more precisely, the vulnerability of a country to currency turbulence. Therefore, for the purpose of this estimation, the latent variable  $Y^{\star}_{it}$  (called latent because it is actually impossible to observe) is represented by the binary variable Yit, which is equal to 1 twelve months prior to the onset of currency turbulence and 0 in the remaining periods of tranquillity. 1

The variable  $Y_{it}$  thus specified for country i at time t is defined by the vector of the fundamentals  $X_{it}$  for country i and period t.

Specifically,  $X_{it}$  is made up of the following variables:

- the deviation of the real exchange rate from its trend;
- year-on-year growth of exports;
- year-on-year growth of domestic credit (as a percentage of GDP);
- the inflation differential compared with the United States:
- holdings of foreign exchange reserves in terms of broad money;
- the current account deficit as a percentage of GDP; and
- US money market rates.

1 A similar method is also used by Berg, A. and C. Pattillo (1998). — 2 For a discussion of this method see, e.g., Mad-

For the estimation, a (multivariate) logit model was estimated using the maximum likelihood method. <sup>2</sup> The expected value of the binary variable is represented by:

$$E(Y_{it} | X_{it}, \beta) = F(\beta'X_{it}),$$

where E denotes the expectation operator and F the underlying logistical distribution function, which serves here as a probability transformation.

In the first step, the estimations were conducted using monthly data from 12 developing countries and emerging market economies between the beginning of 1970 and mid-1997 (Estimation I). However, the values observed during the period of currency turbulence itself were excluded, and only the data that occurred during the run-up to such crises and during periods of tranquillity were entered into the calculations. To be able to test the goodness of fit of the forecasts outside the observation period, as a second step the calculation was limited to data up to December 1993 (Estimation II). The remaining observations were then used to calculate the forecast values on the basis of the estimation results.

All in all, the results support the central hypothesis that the macroeconomic situation in the run-up to currency turbulence differs from that during periods of tranquillity. In the first estimation, all coefficients show the expected sign and are statistically significant given an error probability of less than 5%. The second estimation, run using the abbreviated estimation period, largely supports these results. Apart from the growth of domestic credit, which is no longer significant at the usual levels of confidence, the correlation between all other variables remains well protected.

dala, G. S. (1992), Introduction into Econometrics, 2nd ed., New York et al., page 322ff.

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#### Logit estimations

	Estimation I	ng ann van ann airm ann an an ann an ann an an an an an an	Estimation II 1	
Variable	Coefficient	z value	Coefficient	z value
Real exchange rate 2	- 0.035	- 9.697 **	- 0.033	- 8.224 <b>*</b> *
Export growth 3	- 0.028	- 8.858 **	- 0.034	<b>- 9.612 **</b>
Credit growth 3, 4	0.010	2.710 **	0.005	1.151
Inflation differential	0.009	8.678 **	0.014	10.554 **
Foreign exchange reserves 5	- 0.018	- 4.181 **	- 0.014	- 2.718 <b>*</b> *
Balance on current account 4	- 0.045	- 2.845 **	- 0.044	– 2.427 <b>*</b>
US money market rate 6	0.037	1.996 *	0.110	4.843 **
Constant	- 1.993	- 10.340 **	- 2.950	- 11.833 **
Number of observations	2.595	00000000000000000000000000000000000000	2.113	on vocame about distance of the contract of th
Mc Fadden's R <sup>2</sup>	0.153		0.228	and and a second
Chi <sup>2</sup> (7) 7	341.0	(0.000)	383.6	(0.000)

\*\*/\* Significant at a level of 1%/5%. — 1 Estimated up to December 1993. — 2 Deviation of the real exchange rate from the trend. Real exchange rates based on consumer price movements compared with the US. — 3 Change

from the previous year in %. — 4 As a % of GDP. — 5 In terms of the (broadly defined) money stock. — 6 Per year, in %. — 7 In parentheses: error probability.

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the countries under observation was taken using a uniform formula, with allowances being made for the past experience of each individual country, though. Specifically, the value was set as the percentile of the distribution of the appropriate crisis indicator forecast values. The rank of the percentile was set as a ratio of the overall number of values available in the year prior to currency turbulence to the total number of the observations available for that country. Using this method, in nearly 70 % of all cases of currency turbulence, at least one value exceeded the critical limit in the preceding year, thus signalling that particular country's vulnerability to currency turbulence.

However, false signals were also given; this meant that prior warnings were not followed

by turbulence. There are two possible reasons: one is that they might be random forecasting errors. The other is that this may be a sign that the countries affected recognised the looming misalignments in a timely manner and used the remaining room for manoeuvre to undertake a lasting economic policy reversal which then heightened their currencies' resistance to crises. In that case, the susceptibility of those currencies to speculative attacks would have been accurately flagged but would have ended up not being accurate to the extent that it was possible to prevent the outbreak of the crisis in time.

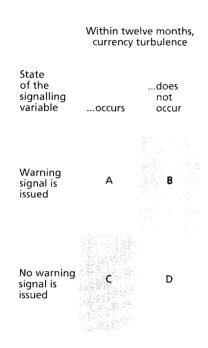
The range of possible cases can be split up into four categories (see chart on page 24):<sup>6</sup>

Categorisation of signals

Interpretation of false signals

6 See: Kaminsky, G. et al. (1998).

# Framework for classifying signals



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The signals are correct if

- the crisis indicator exceeds a given threshold value and currency turbulence ensues within the predefined run-up period (here: twelve months) (A);
- the crisis indicator remains below the threshold value and no currency turbulence ensues within the run-up period (D).

The signal is false if:

- the threshold value is exceeded yet currency turbulence does not occur (B);
- the threshold value is not exceeded although currency turbulence occurred (C).

This can be used as a basis for calculating a measure of the goodness-of-fit of the results, known as the "adjusted noise-to-signal" ratio. This ratio is the quotient of

- the number of false warning signals divided by the number of observations in tranquil periods (B/(B+D))
- and the number of correct warning signals divided by the number of observations in the run-up period (A/(A+C)):

$$Q = \frac{(B / (B + D))}{(A / (A + C))}$$

This quotient has the following features:

- In the case of a purely random process, it is expected to be 1;
- it approaches 0 the more correct warning signals are sent prior to currency turbulence or the fewer false signals are sent during periods of tranquillity.

This sample yields a value of 0.25, which is clearly less than 1 and therefore shows that the explanatory ability of this approach is rather reliable.

This observation is tempered somewhat. though, when the Asian currency crises are analysed. In the cases of Indonesia, Malaysia and the Philippines, none of the forecast values exceeds the calculated threshold value. The framework presented here would have yielded no clues, based on the data used, for an increased vulnerability of these countries to speculative attacks. For Thailand and South Korea, too, this framework only provides very isolated indications of the thenlooming crisis. If the regression is limited to the period prior to 1994 and the resulting relationships are taken as a basis for analysing the behaviour of the indicator during the Asian crisis, the estimated indicators did not

Applied to Asian crises

# BERICHTIGUNG

Der SCAN des vorhergehenden Schriftstückes wurde wiederholt, um volle Lesbarkeit zu gewährleisten. Das Schriftstück erscheint unmittelbar nach diesem Hinweis.

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#### Logit estimations

	Estimation I		Estimation II 1	
Variable	Coefficient	z value	Coefficient	z value
Real exchange rate <sup>2</sup>	- 0.035	- 9.697 **	- 0.033	-8.224 *
Export growth <sup>3</sup>	- 0.028	- 8.858 **	- 0.034	– 9.612 <b>*</b>
Credit growth 3, 4	0.010	2.710 **	0.005	1.151
Inflation differential	0.009	8.678 **	0.014	10.554 *
Foreign exchange reserves 5	- 0.018	- 4.181 **	- 0.014	– 2.718 <b>*</b>
Balance on current account 4	- 0.045	- 2.845 **	- 0.044	– 2.427 <b>*</b>
US money market rate 6	0.037	1.996 *	0.110	4.843 *
Constant	- 1.993	- 10.340 **	- 2.950	11.833 *
Number of observations	2.595	(\$900000 MARKOO)	2.113	derit mindelikaria
Mc Fadden's R <sup>2</sup>	0.153	WOMEROWOOO	0.228	Art of the second secon
Chi <sup>2</sup> (7) 7	341.0	(0.000)	383.6	(0.000

\*\*/\* Significant at a level of 1%/5%. — 1 Estimated up to December 1993. — 2 Deviation of the real exchange rate from the trend. Real exchange rates based on consumer price movements compared with the US. — 3 Change

from the previous year in %. — 4 As a % of GDP. — 5 In terms of the (broadly defined) money stock. — 6 Per year, in %. — 7 In parentheses: error probability.

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the countries under observation was taken using a uniform formula, with allowances being made for the past experience of each individual country, though. Specifically, the value was set as the percentile of the distribution of the appropriate crisis indicator forecast values. The rank of the percentile was set as a ratio of the overall number of values available in the year prior to currency turbulence to the total number of the observations available for that country. Using this method, in nearly 70 % of all cases of currency turbulence, at least one value exceeded the critical limit in the preceding year, thus signalling that particular country's vulnerability to currency turbulence.

However, false signals were also given; this meant that prior warnings were not followed

by turbulence. There are two possible reasons: one is that they might be random forecasting errors. The other is that this may be a sign that the countries affected recognised the looming misalignments in a timely manner and used the remaining room for manoeuvre to undertake a lasting economic policy reversal which then heightened their currencies' resistance to crises. In that case, the susceptibility of those currencies to speculative attacks would have been accurately flagged but would have ended up not being accurate to the extent that it was possible to prevent the outbreak of the crisis in time.

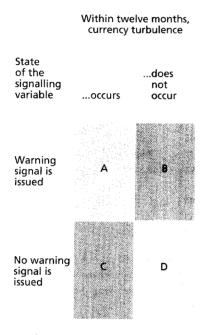
The range of possible cases can be split up into four categories (see chart on page 24):<sup>6</sup>

Categorisation of signals

Interpretation of false signals

**6** See: Kaminsky, G. et al. (1998).

## Framework for classifying signals



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The signals are correct if

- the crisis indicator exceeds a given threshold value and currency turbulence ensues within the predefined run-up period (here: twelve months) (A);
- the crisis indicator remains below the threshold value and no currency turbulence ensues within the run-up period (D).

The signal is false if:

- the threshold value is exceeded yet currency turbulence does not occur (B):
- the threshold value is not exceeded although currency turbulence occurred (C).

This can be used as a basis for calculating a measure of the goodness-of-fit of the results, known as the "adjusted noise-to-signal" ratio. This ratio is the quotient of

- the number of false warning signals divided by the number of observations in tranquil periods (B/(B+D))
- and the number of correct warning signals divided by the number of observations in the run-up period (A/(A+C)):

$$Q = \frac{(B / (B + D))}{(A / (A + C))}$$

This quotient has the following features:

- In the case of a purely random process, it is expected to be 1;
- it approaches 0 the more correct warning signals are sent prior to currency turbulence or the fewer false signals are sent during periods of tranquillity.

This sample yields a value of 0.25, which is clearly less than 1 and therefore shows that the explanatory ability of this approach is rather reliable.

This observation is tempered somewhat, though, when the Asian currency crises are analysed. In the cases of Indonesia, Malaysia and the Philippines, none of the forecast values exceeds the calculated threshold value. The framework presented here would have yielded no clues, based on the data used, for an increased vulnerability of these countries to speculative attacks. For Thailand and South Korea, too, this framework only provides very isolated indications of the thenlooming crisis. If the regression is limited to the period prior to 1994 and the resulting relationships are taken as a basis for analysing the behaviour of the indicator during the Asian crisis, the estimated indicators did not

Applied to Asian crises provide any clues whatsoever that would point to increased vulnerability to crises.

Modification of the analysis

Yet this cannot be construed to mean that speculative movements and not fundamental weaknesses are responsible for the Asian currency crises. It is just as possible that the market participants may have learned from past experience and now react more sensitively to macroeconomic disequilibria than, for instance, prior to the outbreak of the international debt crisis at the beginning of the eighties. Technically speaking, that would mean that the threshold value is not to be regarded as a constant – as specified up to now – but would have to be set considerably lower than in the seventies and early eighties.

Limiting the period to the nineties

In order to test this hypothesis, the threshold values used were not calculated based on the distribution of the series over the entire observation period starting in 1970 but were calculated solely from their distribution over the nineties. Following this adjustment, the results improved considerably. The number of correct warning signals prior to the outbreak of currency turbulence rose considerably without impairing the quality of the results in terms of the noise-to-signal ratio. In both test calculations, warning signals are sent out prior to almost all episodes of currency turbulence in the countries under observation during the nineties. Only in the year before the unsuccessful speculative attack against the Argentine peso following the Mexican crisis did the indicator not show an unambiguous crisis warning.

According to those calculations, crisis warnings were given for both Thailand and Malay-

## Signalling behaviour prior to currency turbulence

Item	In-sample 1	Out-of- sample <sup>2</sup>			
Period between 1990 and 1997		TOTAL DESCRIPTION OF THE PROPERTY OF THE PROPE			
Number of turbulences	14	14			
Percentage signalled	100	92.8			
Noise-to-signal ratio	0.216	0.275			
Percentage signalled in Asia in 1997	100	100			
Entire estimation period	ASSESSMENT				
Number of turbulences	35	35			
Percentage signalled	68.6	62.8			
Noise-to-signal ratio	0.245	0.276			
Percentage signalled in Asia					
in 1997	40.0	0.0			

1 Forecast values based on the estimation over the entire estimation period. — 2 Forecast values based on the estimation up to December 1993.

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sia in the last 18 months prior to the outbreak of the Thai currency crisis of July 1997, whereas the indicator showed no conspicuous movement between January 1990 and December 1995. In the case of Thailand, the signal values were, on average, more than twice as high as during the period of tranquillity in the nineties, and for Malaysia the corresponding figures were nearly twice as high.

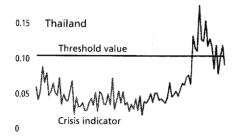
Clear signals in Thailand and Malaysia

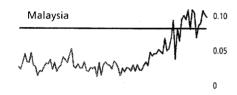
Prior to the outbreak of the Thai currency crisis, the crisis indicator considerably exceeded its average value during periods of tranquillity in the other three countries (the Philippines, Indonesia, South Korea) as well, by around 50%. The indicator, having sent at least five concrete warning signals between January 1996 and July 1997, does flag a certain vulnerability of those countries to speculative

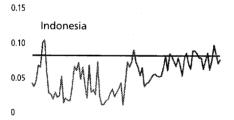
... and signs of suspicion in other countries

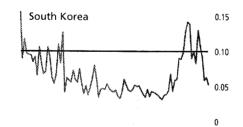
### Estimated indicator for Asian crisis countries

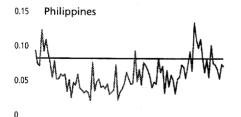
Monthly values











"Out-of-sample" 1

1990 1991 1992 1993 1994 1995 1996 97 1 Forecast going beyond the estimation period

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attacks at that time. However, the indicator sent occasional false signals for those countries at the beginning of the nineties, too.

#### Summary and conclusions

On balance, it can be concluded that currency crises in the emerging markets studied here are, on the whole, not the accidental results of speculative movements detached from macroeconomic fundamentals; rather, in the run-up to the crises, there were very often macroeconomic misalignments. At any rate, in the past the movements of the macroeconomic variables examined here during the year prior to currency turbulence were markedly different from conditions during periods of tension-free foreign exchange markets. On the whole, this means macroeconomic misalignments are likely to bear at least a significant share of the responsibility for much of the turbulence in the foreign exchange markets of the emerging markets.

Result: turbulence is not an accident

However, one must not expect too much of such a crisis indicator. This is especially the case regarding the indicator's suitability as an early warning system for looming currency crises, which some recent studies have set out to demonstrate.<sup>7</sup>

No reliable early warning system

Thus, it is hardly possible to predict with sufficient accuracy the point in time when turbulence will break out. The most that can be

<sup>7</sup> See Kaminsky, G. et al. (1998), for a critique and comprehensive analysis of different strategies: Berg, A. and C. Pattillo (1998), Are Currency Crises Predictable? A Test, IMF Working Papers 98/154, Washington, D. C.

achieved is to ascertain a greater degree of vulnerability to speculative attacks. Besides, one must not forget the risk that, in addition to many correct warning signals in the run-up to currency turbulence, false alarms are sounded now and then in periods of tranquillity, too. This harbours the danger, which must not be underestimated, that the announcement of such (erroneous) forecasts can trigger otherwise preventable currency crises if it influences market sentiment and encourages market participants to withdraw their funds accordingly.

Furthermore, there is another fundamental problem. If the market participants are given

a basically functioning instrument to predict currency crises, they would use that new information when making their decisions and then change their behaviour. The structural relationships recognised while analysing the past would no longer carry over to the future, thus calling the value of the early warning indicator into question. At any rate, the studies presented here provide some indications that the market participants do not always react at the same constant speed. These reactions have become faster as the financial systems have become more integrated and the markets have become more globalised.

# Development of public sector investment, and its financing

Investment plays a special role within public expenditure. From a budgetary point of view, it differs from consumption spending in that - at least in part - it increases the stock of government assets. From a macroeconomic perspective, specific growth-promoting effects are ascribed to it. Owing to its direct impact on the economic process and its flexibility, capital formation by the public sector is also often regarded as a suitable tool of an anti-cyclical fiscal policy. For both budgetary and macroeconomic reasons, it is often concluded that the debt-financing of public sector investment is acceptable or even desirable. The following article traces the development of public sector investment1 since the beginning of this decade and, in particular, examines its financing aspects. The article shows, specifically, that by no means all public sector investment increases the future growth potential and that financing it through borrowing can lead to substantial future burdens.

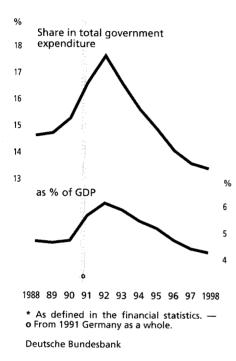
Development of investment expenditure by the central, regional and local authorities

After the weight of public sector investment had tended to decline in the eighties, it then rose appreciably for a time following German

Overall development

<sup>1</sup> Unless otherwise stated, excluding the investment of the social security funds, which is only of minor importance.

# Investment expenditure of the central, regional and local authorities\*



unification. In eastern Germany (now referred to as the new Länder) there was an enormous need for public investment, above all in the transportation infrastructure, urban renewal and municipal utilities. In addition, much of the publicly owned housing stock and educational buildings required fundamental renovation. As a result, public sector investment, as defined in the financial statistics (for a detailed definition of public sector investment see the box on page 31), increased very steeply from just over DM 100 billion in 1989 to almost DM 190 billion in 1992. It should be pointed out, however, that a considerable part of this extra spending was neutralised by the sharp rise in construction prices, which itself was partly attributable to government activities. Once the most pressing pent-up demand had been met, however, public sector investment declined again from 1993. In 1998 its share of both general government expenditure and gross domestic product (GDP) in Germany was below the corresponding levels in 1989 (see chart).

Within public sector investment, the emphasis has shifted from direct capital formation by the central, regional and local authorities to the acquisition of financial assets and measures aimed at encouraging private sector capital formation. Whereas in 1989 expenditure on tangible fixed assets had accounted for as much as 60% of total public sector investment, this figure fell to 54% in 1998. The increased importance of indirect investment (i.e. investment not leading to public sector capital formation) relates mainly to the massive promotion of private sector capital formation in the new Länder, especially in the first few years after unification. Besides expanding investment grants, the Federal Government and the ERP Special Fund, in particular, stepped up their lending programmes significantly. 2 There has also been a substantial increase in spending on the acquisition of participating interests, although this was offset, especially in recent years, by a far higher volume of privatisations undertaken

Breakdown by type of investment

principally by the Federal Government, so

<sup>2</sup> Furthermore, government promotion of private sector capital formation in the new Länder also took the form of tax breaks and separate loan programmes launched by publicly owned promotional banks, notably the Reconstruction Loan Corporation (Kreditanstalt für Wiederaufbau – KfW) and the German Equalisation Bank (Deutsche Ausgleichsbank). However, these measures are not contained in the figures for public sector investment. See Deutsche Bundesbank, Progress in the adjustment process in eastern Germany and the contribution of economic promotion measures, Monthly Report, July 1995, pages 37 ff.

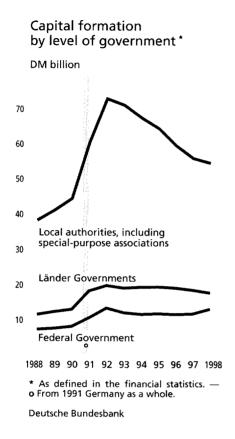
## The different definitions of public sector investment in the financial statistics and in the national accounts

The financial statistics and the national accounts represent two different measuring concepts. Whereas the financial statistics record the transactions entered in the government budget accounts – and hence indicate inter alia the extent to which the budget plans have been implemented – the national accounts include public finance as part of the process of generating total output. Owing to these different approaches, government receipts and expenditure are defined in different ways. This applies not least to investment.

In the sectoral breakdown the two concepts differ from one another, in particular, in the treatment of publicly owned enterprises. These figure in the financial statistics if all receipts and expenditure are contained in the budgets of the central, regional and local authorities. By contrast, in the national accounts publicly owned enterprises are allocated to the enterprise sector. The definition of investment used in the financial statistics is very broad. In formal terms it comprises the main groups 7 (construction measures) and 8 (other capital spending and investment promotion measures) of the system of classification by object pursuant to section 10 of the Budget Principles Act. This includes non-military capital formation (construction measures and the purchase of real estate and movable goods, provided that they exceed a threshold value laid down in the respective applicable budgetary law and that they are available over the longer term), investment grants and the acquisition of financial assets (purchase of participating interests and securities, granting of loans, calls on warranty commitments). Depreciation is generally not recorded as part of the financial statistics, which are geared to payment flows, as the consumption of fixed capital does not entail any actual disbursements of funds. Besides the restructuring and extension of existing plant, repairs are also classified as investment provided that they exceed certain threshold values. The time of entry of the figures is determined by the time at which the transaction is booked in the budget, which largely corresponds to the date of disbursement.

In the national accounts the concept of investment ("gross fixed capital formation") comprises only expenditure on tangible fixed assets, comprising construction measures and net purchases of land and machinery. The consumption of fixed capital is shown - except in the case of underground and road construction. For the latter a certain percentage of construction expenditure is included in other operating expenditure as repair costs. Investment grants are classified in the national accounts as capital transfers. The acquisition of financial assets is treated not as expenditure that affects the fiscal deficit but rather as financial transactions, that is an exchange between different government financial assets. In the national accounts the time of recording depends on the production principle: machinery and equipment plus buildings are shown as capital formation in line with the state of production progress even if they have not yet been paid for during the period in question. Use of the national accounts seems advantageous, especially for macroeconomic analyses as well as longer-run studies and for international comparisons, as these data series have been recorded over an extended period without any major conceptual changes and are internationally comparable to a large extent.

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that, on balance, the stock of publicly owned participating interests declined substantially.

Capital formation by level of government

The decline in expenditure on capital formation - the "core area" of public sector investment – was thus particularly pronounced from 1993 onwards. The main factor responsible was the decrease in capital formation by the local authorities, which in 1998 had fallen by one-quarter compared with the level of 1992. Despite this sharp decline, at DM 55 billion, the local authorities still accounted for almost two-thirds of all public sector capital formation. This means that they are the most important level of government as far as the development of the public infrastructure is concerned.3 Capital formation by the Länder Governments fell by one-tenth to DM 18 billion. By contrast, the Federal Government last

year regained the level of capital formation of 1992 (just under DM 14 billion) following temporary slight reductions; a major role in this capital formation was played by construction measures connected with the relocation of the seat of government to Berlin (see chart).

One rather "technical" reason for the decline in capital formation is the increased tendency that has been evident in recent years for local authorities to release facilities from their core budgets. These institutions were previously operated as public enterprises whose accounts form an integral part of the accounts of other public entities – especially in the utilities sector. Following their transformation into autonomously operating enterprises still owned by the local authorities or even more radical forms of outsourcing, these institutions, which have high capital formation requirements, no longer appear in the public sector budgets. The portion of the decline attributable to this factor therefore does not imply a neglect of the infrastructure but is merely the result of the recording limits of the financial statistics.4 However, such outsourcing only explains a fairly small part of the decline of almost 5 % per year in capital formation since 1992.

Causes of the decline: restructuring and ...

<sup>3</sup> The weight of the local authorities is lessened considerably, however, if the yardstick used is the financing of these tasks. Thus if the capital transfers from other levels of government are deducted from the total investment (including the acquisition of financial assets and investment promotion measures) of a given level of government, the Federal Government is the main financer of public sector investment. Judged by this criterion, the local authorities rank even lower than the Länder Governments.

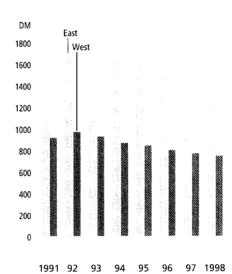
<sup>4</sup> The private sector financing models for public sector capital formation that have recently been developed (leasing etc.) may have a similar effect.

... tight situation of municipal finance

The tight budgetary situation of the local authorities had a bigger impact. Not least the reduced grants they received from the Länder Governments and the trend towards a growing expenditure burden – caused to some extent by the labour market situation - led to a decline in the current account surplus of the municipal budgets, which (after redemptions) is available to the local authorities for financing investment. Thus the local authorities were obliged to respond to this by curbing their capital formation just for reasons of budgetary law. This spending policy was alleviated by the fact that the infrastructure in many west German local authorities has now reached guite a high level, so that new capital spending appears necessary only to a limited degree. This does not mean to say, however, that a protracted decline in the weight of capital formation would be macroeconomically sustainable. In the long term there is a danger of damage by fiscal consolidation if the public infrastructure needed by industry grows obsolete because of neglected capital formation. According to surveys carried out by the Deutsches Institut für Urbanistik, the need for replacement investments during the nineties probably amounts to around twothirds of total municipal capital formation reauirements.5

Differences between old and new Länder A decline in expenditure on tangible fixed assets from 1993 can be seen in both the old (i. e. western) and the new Länder. Following initial difficulties in 1991, the *per capita* capital formation of the east German Länder Governments and their local authorities rose sharply in 1992. It exceeded the west German level by more than 70%. In the years 1993

# Per capita capital formation in the west and east German Länder\*



\* As defined in the financial statistics. The figures comprise the capital formation of the Länder Governments and local authorities, excluding special-purpose associations. The west German Länder include Berlin.

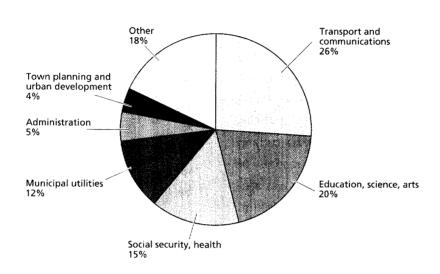
Deutsche Bundesbank

and 1994 capital formation in the west declined at a faster rate, with the result that the investment lead of the east German Länder widened to over 90%. Once the most pressing infrastructural requirements had been met (and some capital formation projects had turned out to be oversized), per capita capital formation then fell more sharply in eastern Germany in the subsequent years. Nevertheless, the "investment intensity" in the eastern part of the country remained far higher than in the west, so that the desired process of catching-up in the new Länder persisted (see chart).

**<sup>5</sup>** See Reidenbach, Michael et al., Der kommunale Investitionsbedarf in den neunziger Jahren, Difu-Beiträge zur Stadtforschung, Berlin 1992, page 274 f.

#### Breakdown of capital formation by purpose in 1996\*

#### Total volume DM 94.5 billion



\* As defined in the financial statistics, including capital formation of the social security funds.

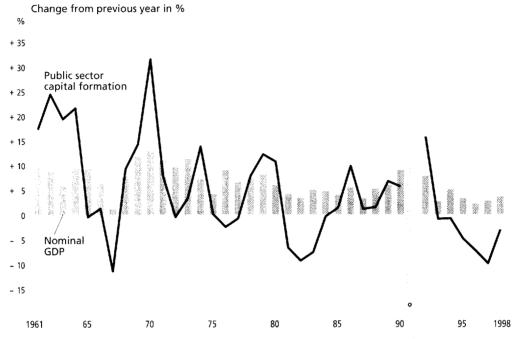
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Breakdown of capital formation by purpose A breakdown of capital formation (including that of the social security funds) by purpose shows that transport and communication – which notably includes public road construction – is by far the largest single item of capital formation. In 1996 (the latest year for which figures are available) it accounted for 26% of total expenditure (compared with almost 29 % ten years earlier).6 Education, science and the arts likewise had a large share in public sector capital formation, at 20%. Schools and colleges played a major role in this. The importance of this segment increased by 4 percentage points during the last ten years; among other things, this reflects the extra capital spending necessitated by the stipulation of guaranteed kindergarten places. The sector social security and health, which primarily comprises spending on hos-

pitals and sports amenities, recorded a share of 15% in 1996. Its importance has likewise grown somewhat, with hospitals constituting a focal point of capital formation activity. By contrast, the share of municipal utilities declined distinctly by nearly 4 percentage points to 12%, though this should not be taken to imply a uniform, across-the-board decrease in capital formation in this sector, which includes important responsibilities in the field of environmental protection such as waste management and water treatment. It is more likely that the aforementioned "outsourcing" of certain municipal facilities is felt particularly strongly. Administration accounted for only 5% of public sector capital formation, while

**<sup>6</sup>** This sector also has a great weight in respect of investment grants. In particular, the extensive capital formation by the railways is largely financed in this way.

#### GDP and public sector capital formation \*



 $\star$  As defined in the national accounts, including capital formation by the social security funds. — o From 1991 Germany as a whole.

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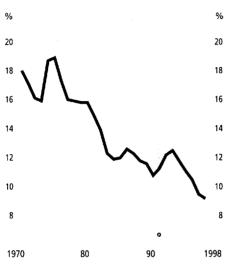
the share of town planning and urban development came to just 4%. The category "Other", which makes up 18%, mainly includes real property not allocatable to specific sectors and the capital formation of public enterprises whose accounts form an integral part of the accounts of other public entities.

Capital formation in the course of the business cycle Calls are sometimes made to use public sector capital formation as a means of moderating cyclical fluctuations. A longer-run view of the development of public sector capital formation (as defined in the national accounts) shows no such pattern of response. Contrary to the intentions of the Economic Stability and Growth Act of 1967, no anti-cyclical trend is discernible in public sector capital formation on a longer-term view. Instead, the rates of change of public sector gross capital

formation correlate positively with those of GDP (see chart). One plausible explanation for this are the above-mentioned financial constraints on the local authorities, which are the foremost public investor. During recessionary phases the tax receipts, the level of which fluctuates sharply in line with the cyclical momentum, do not yield sufficient revenue to finance an increase in capital formation. An additional factor is that the investment grants received from the Länder Governments have not had a steadying influence either.

Public sector capital formation was less susceptible to cyclical swings than that of the enterprise sector, however. Thus the public sector's share in the expenditure on tangible fixed assets of the economy as a whole rose Share in aggregate expenditure on tangible fixed assets

Share of aggregate expenditure on tangible fixed assets accounted for by the public sector



\* As defined in the national accounts, including respective expenditure by the social security funds. — o From 1991 Germany as a whole.

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appreciably during the downswings of 1974-5 and 1992-3. Only during the economic lull of 1980-2 did public sector capital formation decline more sharply than asset formation by enterprises. However, this was partly due to the fact that the ending of a government economic stimulation package ("Programme of Future Investment") launched in 1977 coincided with the start of the downturn.7 On a longer-run view, however, the weight of the public sector in aggregate capital formation has declined considerably. Whereas public sector expenditure on tangible fixed assets had accounted for around 41/2 % of GDP in 1970, this fell to less than 2 % last year. On the other hand, the share of capital formation accounted for by the enterprise sector remained fairly constant, at almost one-fifth. Consequently, the public sector's share of aggregate expenditure on tangible fixed assets fell by half between 1970 and 1998 from 18% to just over 9% (see chart). As past experience has shown, public sector capital formation is rather problematical as a macroeconomic control variable. Besides the difficulties of getting the timing right, anti-cyclical programmes are *per se* not a suitable antidote if the economic weakness has supply-side causes.

Developments in the main EU member states in the recent past were similar to those in Germany. While the share of public sector gross capital formation in GDP (as defined in the national accounts) had largely stayed constant or even increased from the mid-eighties to the early nineties, it declined markedly thereafter, not least because of the efforts to reduce government deficits. In the European Union the government investment ratio fell by 0.8 percentage point to 2.2% between 1991 and 1998.8 In Germany it rose up to 1992 in the wake of unification, but subsequently it decreased sharply to 1.8% in 1998, which was among the lowest ratios in the EU. Lower government investment ratios were recorded only by Belgium, Denmark, Sweden and the United Kingdom (in the UK an important role was played by the growth of private sector financing of capital formation for the public sector). Government investment in the south European states Spain, Portugal and Greece shows fairly strong Developments in the EU

<sup>7</sup> The handling of this programme graphically illustrates the difficulties of correctly timing anti-cyclical fiscal policy measures, for the capital formation programme had an impact on demand just as the share of private sector capital formation in GDP was also rising.

**<sup>8</sup>** The figures for 1998 are European Commission estimates.

shares. These countries receive large grants from the European Structural Fund and the Cohesion Fund to improve their less well developed infrastructure.

#### The financing of public sector investment

Original rule of project-related debt-financing ...

Both in public finance literature and in budgetary practice, investment was treated very early on as a separate category which, as "expenditure for productive purposes", has an impact that extends beyond the time frame of the current budget and which helps to increase the government capital stock. This led to the conclusion that such expenditure could legitimately be debt-financed - in contrast to "ordinary" public expenditure, which should be financed out of current revenue. In the original wording of the relevant clause in the present-day Constitution (Article 115), which was largely taken over from the Weimar Constitution, it was stipulated that credit may be procured only to meet exceptional needs and, as a rule, only for expenditure for productive purposes.

... was supplemented by a more situationrelated rule With the spread of anti-cyclical fiscal policy concepts, as mirrored in the Economic Stability and Growth Act, this traditional project-related funding principle was supplemented by a situation-related approach, however. The economic policy imperative of linking budget-ary policy to the requirements of overall economic equilibrium was given the force of constitutional law in Article 109. The borrowing rule contained in Article 115 was adjusted at the same time. Although the Federal Government's borrowing may not exceed total in-

### Gross capital formation by the public sector

as % of GDP

PROCESSOR OF THE PROCES	C		E-SECTUTE BURNOWN CO. AND CO.
Country	1991	1997	1998 e
Austria	3.2	2.0	2.0
Belgium	1.3	1.4	1.4
Denmark	1.5	1.9	1.7
Finland	3.7	3.1	2.9
France	3.4	2.8	2.8
Germany	2.6	1.9	1.8
Greece	4.8	5.2	3.7
Ireland	2.1	2.4	2.5
Italy	3.3	2.3	2.9
Luxembourg	4.9	4.7	4.4
Netherlands	2.7	2.5	2.6
Portugal	3.3	4.3	4.1
Spain	4.8	3.0	3.4
Sweden	3.0	1.8	1.1
United Kingdom	2.4	1.3	1.2
EU 15	3.0	2.2	2.2

Source: European Commission.

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vestment as a rule, this ceiling may be exceeded in case of "a disturbance of the overall economic equilibrium". Article 115 relates solely to the Federal Government, but the Länder Governments have included similar provisions in their constituting laws or budget regulations. Only in the case of the local authorities is borrowing strictly tied to the implementation of investment measures, as well as being subject to additional budgetary law restrictions.

The permissibility of borrowing up to the level of total investment enshrined in Article 115 of the Constitution is ultimately substantiated by the argument of intergenerational burdensharing, according to which investment provides public capital goods that will create welfare in future periods. At the same time the

Arguments for debt-financing of investment and ...

growth of the production potential can be promoted and hence the income base of future generations broadened. According to this view, investment, in contrast to consumption spending, generates future income streams both for the government and its citizens. It is therefore considered justifiable to finance such spending by incurring debt, which is serviced by tax payments of future generations as the "fee" for using the public capital goods thus created ("pay as you use"). Servicing the debt (so the argument goes) will be made easier by the enlarged income base. These intergenerational and macroeconomic considerations are supplemented by arguments based on the longterm sustainability of budgetary policy. Analogously to private sector financial analysis, the fiscal policy trend is regarded as sustainable if the requirement of net value neutrality is observed over time, that is if new borrowing is offset by an equal value of assets created through net capital formation.

... counterarguments This substantiation for the debt-financing of public sector investment is not completely valid, however. Even the assertion that an intertemporal equalisation of burdens between different generations can only be achieved by such financing is questionable. Various concepts can be found in the literature for the definition of intergenerational equivalence. For example, an unchanging net burden on different generations over time could be deemed to be met if the relationship between the financing costs of public sector investment per inhabitant and the return on the government capital stock per inhabitant is constant in all periods. In the case of

tax-financing, the costs include the expenditure incurred by the investment and, in the case of debt-financing, the interest payments – which likewise have to be funded by tax receipts – on the government debt incurred for the purpose of creating the capital stock. If a given economy has reached the steady state of long-term growth equilibrium, the specified condition can be met for both financing alternatives.

In the long run, however, the tax burden ensuing from debt-financing is greater than that caused by tax-financing (see box on page 39). But this only holds true in the steady state in which the government capital stock grows at the same rate as national income. Whenever a new or additional investment requirement arises and public sector capital formation accelerates in the short run, the burden on the present-day generation during the adjustment period to a new steady-state growth equilibrium is greater in the case of tax-financing than for debt-financing. The burden on the present-day generation during the adjustment period is likewise greater if there is a switch to increased tax-financing. Hence choosing between the two financing alternatives implies assessing how the welfare of future generations is to be valued in relation to the current generation. Another point to bear in mind is that the fiscal burden on future generations will be greatly intensified anyway by demographic trends, in particular.9 In order to limit the overall future burdens. therefore, it would make sense to resort more

<sup>9</sup> See Deutsche Bundesbank, The fiscal burden on future generations – an analysis using generational accounting, Monthly Report, November 1997, pages 17 ff.

Financing of public sector investment and the burdens to be borne by different generations

If public sector investment is debt-financed, taxes must be sufficiently high over the long term to ensure that the interest payments can be made. On the other hand, if it is funded by taxation, the taxes must be able to finance current investment by the public sector on a long-term basis. Irrespective of the method used for financing public sector investment, a uniform intergenerational relationship can be achieved in the long run under certain conditions between the tax burden arising from the investment or the resulting debt service, on the one hand, and the return on the public investment, on the other. If it is assumed, however, that per capita public sector investment requirements remain constant over the long term, the long-run tax burden is higher under debt-financing than in the case of tax-financing.

The government must finance the public sector investment  $K_{t+1}^o - K_t^o$  and the interest payments on the government debt  $rB_t$  during period t out of the funds borrowed in period t (the change in the government debt  $B_{t+1} - B_t$ ) and the tax receipts  $T_t$ . Hence the budget constraint for the government (ignoring other government expenditure) is given by:

(1) 
$$T_t + (B_{t+1} - B_t) = (K_{t+1}^{\circ} - K_t^{\circ}) + rB_t$$
.

The public sector capital earns a return  $uK_0^{\circ}$  which flows to the private sector. A constant rate of return u and a constant growth of the population and of labour productivity (technical progress) at the rates n and a are assumed. Then in the long run the interest rate r is constant, the national income grows at the rate g=n+a, and all  $per\ capita$  variables grow at the rate of technical progress – this characterises the equilibrium growth of the economy over the long term ("steady state"). Thus the steady-state budget constraint can be approximated as follows:

(2) 
$$\tau_t = (r - g)b_t + gk_{t}^{o}$$

1 Equation (2) can be interpreted as follows. The per capita tax burden required over the long term is given by the sum of the primary balance (r-g)b<sub>t</sub> and per capita net investment by the public sector  $gk_t^o$ . — 2 This statement holds true only under steady-state conditions. If, by contrast, we consider the case of a young economy which still has to accumulate its equilibrium capital stock, or if higher net in-

where  $b_t$ ,  $k_t^{\circ}$  and  $\tau_t$  stand for the debt level, the government capital stock and the tax burden – all *per capita*. <sup>1</sup> As  $k_t^{\circ}$  and  $\tau_t$  grow at the same rate under steady-state conditions, the relationship between the tax burden and the return on public sector capital  $\tau_t$ /(u $k_t^{\circ}$ ) must also remain constant, irrespective of the way in which public sector capital formation is financed. <sup>2</sup>

The change in the steady-state tax burden ensuing from the change in the endogenous and exogenous variables can be approximated using the total differential of (2):

(3) 
$$\Delta \tau_t = b_t \Delta r + r \Delta b_t - g \Delta b_t + g \Delta k_t^{\circ}$$

If investment is exclusively debt-financed,  $\Delta b_t = \Delta k_0^5$  holds, so that (3) can be rewritten as <sup>3</sup>

(4) 
$$\Delta^{K} \tau_{t} = b_{t} \Delta^{K} r + r \Delta k_{t}^{\circ}$$

In the case of pure tax-financing,  $\Delta b_t = 0$ . Then (3) is transformed into

(5) 
$$\Delta^{\text{St}} \tau_t = b_t \Delta^{\text{St}} r + g \Delta k^{\circ}$$
.

The difference between (4) and (5) is the difference between the respective burden of pure debt-financing and pure tax-financing:

(6) 
$$\Delta^{K} \tau_{t} - \Delta^{St} \tau_{t} = b_{t} (\Delta^{K} r - \Delta^{St} r) + (r - g) \Delta k_{t}^{\circ}$$
.

It can be taken as read that in the long term the interest rate r lies above the rate of growth of national income g. Over and above this, the capital market is as a rule additionally burdened in the case of pure debt-financing, so that in this case the new steady-state interest rate is greater than under pure tax-financing, with the result that  $\Delta^{\rm K} r > \Delta^{\rm St} r$ . Hence the difference in (6) is greater than zero. The long-run tax burden is higher in the case of pure debt-financing than in the case of pure tax-financing.

vestment is required in the short term, so that the rate of growth of  $K_{\bullet}^{0}$  increases, the statement no longer holds true. This also applies to the case of a change in the financing structure. — 3  $\Delta^{K}$  and  $\Delta^{St}$  denote the absolute changes arising from pure debt-financing and pure tax-financing, respectively. The simple symbol  $\Delta$  is used for changes that do not differ in respect of the financing method.

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to tax-financing for the purpose of funding investment.

it does little to improve the prospects for macroeconomic growth.

Growth effect often lacking

Regarding the growth effect of public sector investment, which might justify the use of debt-financing, the picture is likewise mixed. The very broad definition of investment given in Article 115 of the Constitution (which corresponds to the definition used in the financial statistics, as shown in the box on page 31) contains components for which growthstimulating effects are either questionable or even non-existent. This applies, for example, to the acquisition of financial assets in the form of participating interests. 10 Investment promotion measures such as grants and lowinterest loans do nothing to promote growth to the extent that they merely lead to "profittaking" effects. If the financial aid is more of a subsidy, it could actually impede growth because it ties up both public and private sector capital that could be put to more profitable use elsewhere.

Similarly, capital formation does not always increase the growth potential. Growth is promoted only by net capital formation but not by that part of gross capital formation that is accounted for by replacement investments and which merely serves to maintain the existing level of production of the government capital stock. Furthermore, the latter can be divided into productive assets and consumption-related assets (which include such things as public recreation and sports amenities and nursing homes for old people). Although investing in the latter is an integral part of the provision of basic public services,

Certain reservations must be made even in the case of public infrastructure capital formation. Thus capital formation for the sake of environmental protection, notwithstanding its necessity, is less "productive" in the customary sense. Moreover, government capital formation includes capital goods that could be more efficiently provided and maintained by private suppliers. In general it can be said that public sector capital goods are more likely to promote growth if they complement private sector capital formation. Their influence is thus dependent on the specific overall economic framework. Studies on the effect of public infrastructure capital formation in Germany during the past years come to relatively divergent conclusions. On balance, however, such investment is said to have a productivity enhancing tendency (see box on page 41).

If by no means all investment – especially as widely defined under Article 115 of the Constitution – promotes growth, it is also a fact, on the other hand, that part of the expenditure assigned to government consumption has productivity-boosting effects. This applies, in particular, to spending on education and science, which to some extent may be regarded as an investment in human capital. Spending on health care has a similarly mixed character. On the one hand, it maintains and promotes the efficiency of the factor labour. On the other hand, the entire population's right to a high level of medical treatment is

Consumption spending may also promote growth

**<sup>10</sup>** In fact, it is conceivable that efficiency could be increased through disinvestment by way of privatisations.

#### Studies on the productivity effects of public infrastructure capital formation

Studies on the productivity effects of public infrastructure capital formation examine the relationship between the creation of public infrastructure facilities and the costs or marginal yields to enterprises in temporal, sectoral and regional comparisons. In methodological terms a distinction may be made between pure time series studies and panel analyses using cross-sectional and longitudinal data.

In a purely longitudinal study, Kitterer/Schlag (1995) examine the effect of public infrastructure capital formation on the costs (the sum of capital cost and labour cost) in the private enterprise sector in western Germany. Using an error correction model, they estimate that an increase in public sector capital formation entails no noticeable lowering of costs in the enterprise sector.

More favourable overall results are obtained by panel studies in which the private producing sector is disaggregated by region or branch of industry, although there are some considerable differences between the crosssectional units. Thus the panel study by Conrad/Seitz (1992), which is broken down into four sectors, gives values for the cost elasticities of between + 0.02 for the service sector and - 0.36 for the manufacturing sector. In the panel study by Seitz/Licht (1995), which is broken down by Länder, the largest cost elasticities appear in Bavaria, Baden-Württemberg and North Rhine-Westphalia (with values of -0.35) and the smallest in the city-states Hamburg (-0.10) and Bremen (-0.02). In their panel study, which is broken down by west German Länder, Kellermann/Schlag (1998) conclude that an increase of 1% in public infrastructure capital formation increases the value added of the private sector in the old Länder by 0.2%, with only a small variance between the individual Länder.

The present state of the discussion does not permit a definitive assessment to be made of the scale of the productivity effects of public infrastructure capital formation. The major differences in some cases in the estimated cost and output elasticities between the cross-section units in panel designs, on the one hand, and the negligible effects in pure longitudinal studies, on the other hand, suggest that the estimations should be interpreted with caution. Even so, the results indicate that public infrastructure capital formation makes a contribution – albeit a limited one – to value creation and cost reduction in the private sector.

#### Literature:

Conrad, K./H. Seitz (1992): The "Public Capital Hypothesis". The Case of Germany, Recherches Economiques de Louvain 58, pages 1–19.

Kellermann, K./C.-H. Schlag (1998): Produktivitäts- und Infrastruktureffekte öffentlicher Sachinvestitionen, Kredit und Kapital 31 (3), pages 315–342.

Kitterer, W./C.-H. Schlag (1995): Sind öffentliche Investitionen produktiv? Eine empirische Analyse für die Bundesrepublik Deutschland, Finanzarchiv 52, pages 460–477.

Seitz, H. (1995): Public Infrastructure Capital Employment and Private Capital Formation, OECD Job Study: Investment, Productivity and Employment, Paris, pages 123–154.

Seitz, H/G. Licht (1995): The Impact of Public Infrastructure Capital on Regional Manufacturing Production Cost, Regional Studies 29 (3), pages 231–240.

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the consequence of political considerations concerning income distribution.

Statutory financing rule barely operable Given this complex of problems, it is very difficult to translate the concept of coupling borrowing to the level of investment into a statutory financing rule. Moreover, from a macroeconomic point of view the implications of the two alternatives tax-financing or debt-financing for the decisions of enterprises and households should be considered as well. It needs to be borne in mind, in particular, that government borrowing may lead to rising interest rates, with the result that more interest-sensitive private sector capital formation is crowded out.

Budget policy justification likewise inadequate

The budget policy argument that financing investment through borrowing leaves the stock of government net assets intact, and that it consequently has no effect on the long-term sustainability of public finance, is rather unconvincing, not least in the light of current budgetary law. Thus borrowing is not counterbalanced by the acquisition of assets "of equal value", as the stock of government assets have no, or only a minimal, realisable market value owing to the specialised nature of their use. One also needs to take into account the follow-up costs, in the form of increased personnel and other operating expenses, which limit the government's future room for manoeuvre. A quantifiable rate of return on the individual investments is virtually impossible to calculate with any accuracy, nor does it have a direct impact on the budget – in contrast to the interest charges ensuing from the debt-financing of investment. Of the indirect forms of investment,

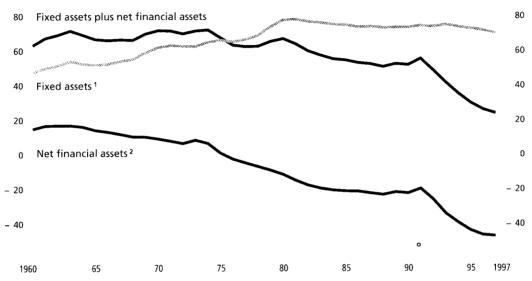
the quantitatively very significant investment grants result in no asset acquisition at all by the government. The rate of return on loans granted by the public sector is often lower than the market rate of interest; moreover, a complete recovery of the capital may not be expected in all cases.

Finally, the concept of maintaining the net government capital stock would require subtracting both the imputed cost of consumption of fixed capital and the disposal of fixed and financial assets from gross capital formation. This is graphically illustrated by the massive privatisation proceeds that have accrued during the past few years. The amount earmarked for investment in the 1999 draft Federal budget, in line with the provisions of Article 115 of the Constitution, marginally exceeds the budgeted net borrowing of just over DM 56 billion. But if disposals of fixed assets and participating interests as well as loan repayments are taken into account, the increase in the capital stock would come to not quite DM 24 billion - even without allowing for the consumption of fixed capital. In other words, consumption spending has been financed on a large scale by a decline in the Federal Government's net assets.

The same applies very much to the practice in past years and to other levels of government. In a longer-run comparison, therefore, government borrowing has for some time no longer been accompanied by a corresponding growth of the government capital stock. The chart on page 43 shows the trends in fixed assets and net financial assets (as the balance of the financial claims and liabilities of the

Negative trend in net assets

## Fixed assets and net financial assets of the public sector 1960 - 1997 as % of GDP



o From 1991 Germany as a whole. — 1 Reproducible fixed assets of the public sector at year-end recorded at replacement cost. Underground and road construction assets are gross, otherwise assets are adjusted for consumption of fixed capital. Source: Federal Statistical Office, Subject-Matter Series 18, Series 1.3. — 2 Results of the financial accounts of the Deutsche Bundesbank.

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government sector vis-à-vis other sectors) in the Federal Republic of Germany between 1960 and 1997. It shows that the ratio of fixed assets to GDP increased up to the beginning of the eighties and thereafter tended to decline slightly. 11 The ratio of net financial assets to GDP has been falling almost from the outset. Since the mid-seventies the stock of net financial assets has been used up and superseded by the accumulation of financial liabilities. If the sum of tangible fixed assets and net financial assets is taken as a rough indication of government net assets, 12 this figure stagnated in relation to GDP from 1960 to the mid-seventies. Since that time the ratio has fallen sharply. In fact, the provisions of Article 115 of the Constitution, and the similar regulations at the Länder Government level, have been unable to prevent an abso-

lute decrease in government net assets during the past few years.

Over and above the conceptual misgivings about pegging borrowing to the level of investment, Article 115 of the Constitution also has certain institutional shortcomings which further weaken its ability to promote fiscal discipline and which have likewise contributed to the depletion of the government capital stock described above. For example, the

Other shortcomings of Article 115 of the Constitution

<sup>11</sup> These figures, taken from the national accounts, probably overstate the weight of government fixed assets as no consumption of fixed capital is calculated on underground and road construction assets.

<sup>12</sup> At present no well substantiated accounting concept exists for calculating the total net assets of the public sector in Germany as a whole owing to diverse recording and valuation problems. Hence the indicator used here cannot provide exact figures for government net assets; nevertheless, it probably reflects the longer-term trend accurately.

provisions of the Article relate only to the net borrowing requirement as projected in the budget and not to the actual figure incurred during the year. 13 Moreover, the rule applies solely to the Federal budget itself and not to the off-budget special funds through which, for example, a large part of the borrowing to finance German unification was handled. Finally, the exception clause in the event of a disturbance of the overall economic equilibrium is asymmetric in that the authorisation to exceed the prescribed limit is not counterbalanced by any compensatory requirement when the economy is buoyant. After all, in ten of the years since 1970 the net borrowing figure given in the Federal budget was higher, by virtue of invoking the exception clause, than the budgeted volume of investment.

#### Fiscal policy consequences

Pressing need for investment ...

The fact that the growth effects of public sector investment cannot be estimated unambiguously and that the corresponding budgetary rules appear problematical does not imply that such spending is unimportant. Replacement investments and investment in environmental protection, as well as consumption-related assets, satisfy a somewhat pressing need and create important conditions for balanced overall economic development, not least by enhancing the country's attractiveness as a business location. 14

... does not justify its debt-financing However, the pressing need for investment and the appropriate method of financing it are two separate issues. It is true that, in principle, the debt-financing of investment is more justifiable than borrowing for consumption purposes. For the reasons explained above, however, it is difficult to regard the debt-financing of public sector investment as being generally unproblematical, especially if such investment is so broadly defined as it is in Article 115 of the Constitution. Furthermore, such debt-financing rules should not be considered in isolation from the underlying fiscal policy situation. Whereas in 1970 the gross indebtedness of the west German public sector was less than 20% of GDP and interest payments amounted to just 1% of GDP, by 1998 the government debt had increased to over 60% of GDP, while interest payments totalled almost 4% of GDP. Given this situation, which prevails to a greater or lesser extent in the other EU states, too, the European Commission - while in favour of higher public sector investment in the member states – is urging that it should be funded by restructuring government expenditure. It considers that, by contrast, the "golden rule" of debt-financing of investment offers no guarantee for a sustainable public finance situation and a control over the government debt level. 15

In the Stability and Growth Pact, which was agreed as a supporting measure for the launch of European monetary union, the

Debt-financing of investment would jeopardise goals of Stability and Growth Pact

<sup>13</sup> The Federal budget plans for 1993 and 1996, for example, envisaged that borrowing would keep within the investment limit, whereas in actual fact the amount borrowed exceeded that limit when the budget was implemented

**<sup>14</sup>** It must also be said, though, that some of these goods could be provided more efficiently by the private sector.

**<sup>15</sup>** See COM(98) 682, Commission statement on public sector investment as part of overall economic policy strategy, of December 2, 1998.

member states are pledged to achieving a medium-term budgetary position that is "close to balance or in surplus". This presupposes that the "norm" for new borrowing unlike that provided for under Article 115 of the Constitution - does not correspond to the level of investment but instead is close to zero. This more ambitious objective is designed to enable public authorities to cope with cyclically induced additional burdens without exceeding the current deficit limit of 3% of GDP stipulated by the Maastricht Treaty. It also accords with the need to reduce the currently excessive debt levels and interest charges in relation to GDP. Above all, it is necessary to take due account of the long-term burdens on public finance that are likely to ensue, in particular, from demographic developments. Thus the strongly growing burden on future generations could be limited by the formation of a government capital stock that is not debt-financed. Attempts that have been evident recently to exempt investment from the objective of achieving a balanced budget in the medium term cannot be adequately justified by budget and growth policy considerations. Instead, they would dilute the aims of the Stability and Growth Pact and make it harder to take the steps necessary in order to put public finance in the member states of the European economic and monetary union lastingly on a sound footing.

#### Investment of the central, regional and local authorities

#### DM billion

	1988	1989	1990	1991 <b>1</b>	1992	1993	1994	1995	1996	1997 р	1998 p
I. As defined in the financial			7	10000							
statistics			OR COLUMN TO SERVICE OF THE SERVICE	and	***************************************		a.a.	AND CONTRACTOR OF THE CONTRACT			
1. Capital formation	-		The state of the s	out the same of th	*						
Federal Government	7.68	7.99	8.53	11.01	13.78	12.48	12.02	12.23	11.99	12.17	13.5
Länder Governments	11.92	12.75	13.40	18.68	20.21	19.50	19.78	19.86	19.54	18.92	18.10
Local authorities	38.63	41.49	44.81	60.89	73.31	71.48	67.88	64.84	59.96	56.30	54.90
Total	58.23	62.23	66.73	90.58	107.30	103.45	99.68	96.93	91.49	87.40	86.67
2. Indirect investment	12110000000000000000000000000000000000	vette standten den stand	000000000000000000000000000000000000000	The control of the co	0x*n=0x000000000000000000000000000000000	444459HH44844594			00000	000 P P P P P P P P P P P P P P P P P P	The state of the s
a) Loans	Operate Principle			To the same of the			100			ealth and the second	and the state of t
Federal Government	6.10	6.19	7.49	6.93	7.17	11.12	15.32	14.11	10.16	11.29	6.74
Länder Governments	5.84	5.30	5.18	5.57	6.33	6.47	6.35	6.23	5.74	5.16	4.50
Local authorities	0.97	1.06	1.49	1.60	1.87	1,81	1.77	1.52	1.46	1.17	0.9
Special funds	3.56	3.73	6.50	11.44	11.79	9.60	11.30	10.62	9.47	10.81	13.40
Total	16.47	16.27	20.66	25.53	27.17	28.99	34.74	32.49	26.84	28.43	25.56
b) Grants	WPROCNUM METHOD						10000000000000000000000000000000000000				MATERIAL COMO PRIMA
Federal Government	9.76	9.76	10.27	17.38	21.86	20.21	13.88	14.20	11.59	9.87	14.0
Länder Governments	8.47	9.31	10.76	20.04	22.64	22.93	23.92	24.98	25.54	25.09	23.66
Local authorities	2.33	2.57	2.72	3.31	3.80	4.37	4.66	4.78	4.88	4.74	4.48
Total	20.56	21.63	23.74	40.73	48.30	47.51	42.45	43.95	42.01	39.70	42.15
c) Participating interests											
Federal Government	1.24	1.33	1.29	1.69	1.64	1.32	1.95	1.42	1.49	1.41	1.33
Länder Governments	0.79	0.80	0.98	1.89	1.90	1.90	0.91	1.54	3.75	1.66	3.27
Local authorities	1.37	1.11	1.23	1.43	2.36	2.47	2.17	2.61	1.94	1.80	2.20
Special funds	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00
Total	3.40	3.24	3.51	5.02	5.90	5.94	5.02	5.57	7.18	4.86	6.80
d) Total indirect investment	w.rhelifation										
Federal Government	17.10	17.28	19.04	26.00	30.67	32.64	31.15	29.74	23.25	22.57	22.08
Länder Governments	15.10	15.41	16.92	27.50	30.88	31.30	31.17	32.75	35.04	31.91	31.43
Local authorities	4.67	4.73	5.44	6.34	8.03	8.65	8.60	8.90	8.28	7.71	7.61
Special funds	3.56	3.73	6.50	11.44	11.79	9.85	11.30	10.62	9.47	10.81	13.40
Total	40.42	41.14	47.91	71.28	81.37	82.44	82.21	82.01	76.04	72.99	74.51
3. Total investment	200000000000000000000000000000000000000	903000	2000					o and a second			
Federal Government	24.78	25.27	27.57	37.01	44.45	45.12	43.17	41.96	35.24	34.74	35.63
Länder Governments	27.02	28.16	30.32	46.18	51.09	50.80	50.95	52.60	54.57	50.84	49.58
Local authorities	43.29	46.22	50.24	67.23	81.34	80.13	76.48	73.75	68.24	64.01	62.57
Special funds	3.56	3.73	6.50	11.44	11.79	9.85	11.30	10.62	9.47	10.81	13.40
Total	98.65	103.37	114.64	161.86	188.67	185.89	181.90	178.94	167.53	160.39	161.18
As defined in the netional	CELEBORATE CELEBORATE	PANATIO MODERNO SECULO	as years constitutions of the		ancias aleks, quant	MM-000-00-00-00-00-00-00-00-00-00-00-00-	aphrenews.	and the same of th	1600schoolse		
. As defined in the national accounts	C1 201 01 201 01 00 10 10	Salitetrees consuctions	172 (1820)	No.	NO PORTION CONTRACTOR	9000	выблично под пред пред пред пред пред пред пред пре		9000 H 1000 H		
Gross capital formation	47.82	51.42	54.43	73.23	85.03	84.43	84.11	79.05	74.36	67.79	65.99
Consumption of fixed capital	14.10	14.94	16.00	19.30	21.05	22.59	23.53	24.48	25.06	25.54	25.97
Net capital formation	33.72	36.48	38.43	53.93	63.98	61.84	60.58	54.57	49.30	42.25	40.02

<sup>1</sup> From 1991 including eastern Germany.

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# Taylor interest rate and Monetary Conditions Index

Two monetary policy indicators which have received a fairly large amount of attention in the nineties are the Taylor interest rate and the Monetary Conditions Index (MCI). The Taylor rule, which was constructed by the US economist John Taylor, makes the short-term interest rate dependent on current inflationary and cyclical developments. The MCI, which was developed by the Bank of Canada, combines changes in the short-term real interest rate and in the real effective exchange rate in a single variable. This is intended to take account of the role of both variables in the monetary policy transmission process. Both the Taylor interest rate and the MCI are also used by outside monetary policy analysts to assess the policy of the Eurosystem (and were used formerly to assess that of the Bundesbank). Moreover, they are recommended for use by the central banks themselves. One likely main reason for their popularity is that they appear at first glance to be simple and easy to understand. However, the following comments reveal that both indicators have some shortcomings. These are due, firstly, to uncertainties in their computation and, secondly, to weaknesses in their design. The Taylor interest rate and the MCI are therefore suitable, at best, as broad reference variables and have to be interpreted with due caution.

#### The role of monetary policy indicators

Necessity of monetary policy indicators

Long and variable time lags and the fact that the structural relationships in the economy are not fully known mean that central banks are unable to exercise direct and sufficiently precise control over either the overall price level or other possible ultimate target variables. In order to assess the current monetary situation, central banks therefore require, firstly, variables which contain information on the future development of the ultimate target variable(s) (leading indicators). Secondly, they need variables which make it possible to assess the impact of their own policy (policy indicators). Some indicators – such as the money stock M3 up to the end of 1998 in Germany - can perform both functions simultaneously in a satisfactory manner, whereas others are not able to do so at all, or only with regard to one function.

The lack of an ideal indicator in practice...

An ideal indicator, which invariably gives a reliable indication of the future development of the ultimate target variable(s) and gives clearcut information on the course of monetary policy, is not available in practice. As a rule, central banks therefore make use of a broad range of indicators. This does not preclude certain indicators being assigned a prominent role because they have particularly good indicator properties. The broadly defined monetary aggregate M3, for example, has a special position within the monetary policy strategy of the Eurosystem. The fact that there is no variable which adequately reflects all the relevant information leads to the constant development of new indicators. In the nineties, two concepts, in particular, have been given a certain amount of attention by a number of central banks,

financial market participants and international organisations: the Taylor interest rate and the Monetary Conditions Index (MCI).

#### The Taylor interest rate

The monetary policy rule presented by John Taylor in 1993 postulates that the central bank should base the setting of the short-term interest rate on the current situation with regard to inflation and the business cycle:

Taylor interest rate = real equilibrium interest

rate

+(expected) inflation rate

Construction of the Taylor

interest rate

+ a<sub>P</sub> · output gap

+  $a_1$  · inflation gap.

The output gap is the relative difference between the actual and the potential output level, the inflation gap is the difference between the measured inflation rate and the rate of inflation which the central bank aims for. Both variables are included in the Taylor interest rate with a positive weighting of ap and all, respectively. This reflects the idea that an excessive price rise and an overutilisation of production capacity should be counteracted by a higher short-term interest rate and vice versa. Accordingly, given full use of capacity and realisation of the envisaged rate of

... encourages the development of new concepts

<sup>1</sup> Strictly speaking, a monetary policy rule is understood to mean a formula-like advance determination of monetary policy. Taylor himself, however, sees the potential application of his "rule" more as a guideline and thus as a (prominent) indicator. The character of an indicator variable tends to be assigned to the Taylor interest rate in practical applications, too. As in the economic science literature, frequent reference is made to the "Taylor rule" in the present article. However, the comments made apply equally to the use of the Taylor interest rate as a monetary policy indicator.

inflation, the "real equilibrium interest rate" is the level of the real rate of interest at which the long-term equilibrium is not changed by monetary policy. The (expected) inflation rate is added to the sum of these three components to make the Taylor interest rate comparable with the relevant nominal interest rate.

Taylor achieves quite good approximation of the US shortterm interest rate...

In his original paper, Taylor applied the concept subsequently named after him to US monetary policy from 1987 to 1992.2 For his deliberately simple calculation, he selected the following approximations of the non-observable variables: he substituted the realised inflation rate of the preceding four quarters for the expected inflation rate over the same period, assumed a 2.2% annual rate of growth for the production potential (which corresponds to the trend growth of real income in the United States between 1984 and 1992), set the equilibrium real short-term rate of interest at 2 %3, and calculated the inflation gap as the difference between the current inflation rate and an inflation target which is a constant 2 %. He gave equally high weighting to the inflation and output gaps, at 0.5 each. Measured by its simplicity, the Taylor interest rate thus calculated captures the behaviour of the US Federal Funds Rate in the period reviewed quite well.

... and proposes that the Eurosystem follows his rule Taylor backs up his suggestion that this concept be used as a guideline for monetary policy in general – and, possibly with different weights, for the monetary policy of the Eurosystem in particular<sup>4</sup> – with the fact that his rule has proved itself in simulation studies (ranging over a large number of model economies) to be a good monetary policy guideline for stabilising inflation and output.<sup>5</sup> According to Taylor, although somewhat better monetary policy rules could be found for individual model economies, previous papers indicated that these (in most cases, more complicated) rules are inferior to those of the Taylor-type even under slightly changed assumptions. The robustness of a monetary policy rule in respect of changed model assumptions is important as the "true" structure of the economy is unknown.<sup>6</sup> According to Taylor, the risk of following an incorrect monetary policy rule, which is the risk associated with the uncertainty about the structure of the economy, is smaller using his rule than in the case of many others.

Calculating and using the Taylor interest rate appear at first glance to be very simple. In actual fact, however, it raises a number of practical and theoretical problems. First of all, for example, the weightings of the output and inflation gaps have to be determined. The weighting scheme used by Taylor is not necessarily appropriate.<sup>7</sup> The central bank's

Problems in calculating the Taylor interest rate on account of ...

<sup>2</sup> See Taylor, J. B. (1993), Discretion versus policy rules in practice, Carnegie-Rochester Conference Series on Public Policy 39, p.195–214.

<sup>3</sup> Taylor points out that this value is approximately equal to the assumed potential growth, i.e. compatible with a long-term equilibrium growth path.

**<sup>4</sup>** See Taylor, J. B. (1998), The ECB and the Taylor rule. How monetary policy could unfold at Europe's new central bank, The International Economy, Vol 12/5, p. 24f and p. 58f.

<sup>5</sup> See Taylor, J. B. (1998), The robustness and efficiency of monetary policy rules as guidelines for interest rate setting by the European Central Bank, Conference on monetary policy rules organized by the Sveriges Riksbank and the Institute for International Economics (Stockholm University), Stockholm, June 12–13, 1998.

**<sup>6</sup>** See McCallum, B. T. (1988), Robustness properties of a rule for monetary policy, Carnegie-Rochester Conference Series on Public Policy 29, p. 173–203.

<sup>7</sup> In the United States, too, there are doubts about the equal weighting given to the inflation and output gaps. See Ball, L. (1997), Efficient rules for monetary policy, NBER Working Paper No. 5952, Cambridge, MA.

orientation and the structure of the economy have to be taken into consideration when determining the coefficients. The weights are to be estimated and are thus method-dependent. Depending on the relative weight, however, there may be considerable differences in the Taylor interest rate at different periods resulting in a correspondingly varied assessment of current monetary policy.

... degrees of freedom in selecting the price variables ... In this connection, broadly based indices such as the consumer price index and the GDP deflator are generally suitable for calculating inflation. For Germany, both variables follow a similar path over fairly long periods. Nevertheless, there were sometimes major deviations, one of the causes of which were exchange rate movements (see below, page 54). If the real rate of interest is calculated as usual as the difference between the nominal rate of interest and the inflation rate, the choice of the price index influences that variable as well as the inflation gap.

... in estimating the output gap ... There are also different options available for estimating the output gap. Depending on the method used for determining the potential – for example, log-linear trend, Hodrick-Prescott trend or the estimation of a production function – this may produce quite major differences which are reflected directly in the level and the behaviour of the Taylor interest rate.

... and in determining the equilibrium real short-term rate of interest Finally, problems are raised by the setting of the equilibrium real rate of interest. This is frequently approximated by a multi-year average of the difference between the actual nominal interest rate and the inflation rate and therefore depends crucially on the period used for forming the average.8 Furthermore, assuming a constant equilibrium real shortterm rate of interest over long periods is not entirely without problems. Besides the (expected) rate of return on tangible fixed assets and the general propensity to save, the determinants of this variable include the general assessment of the uncertainty in the economy and the degree of credibility of the central bank. As the Taylor interest rate does not take changes in these factors into account, it may lead to inaccurate assessments. Overall, the Taylor interest rate therefore shows a wide range of variations, especially for individual points in time, which may amount to far more than 1 percentage point.

However, in addition to the above-mentioned computational problems, the Taylor interest rate also has some shortcomings in its design. From the point of view of practical monetary policy, a fundamental objection to orienting monetary policy to the traditional Taylor interest rate is that it does not take due account of the necessity of forward-looking behaviour. Because of the aforementioned time lags between the central bank taking its interest-rate measures and their impact on price movements, the monetary policy decisionmakers should, in principle, be guided by the outlook for prices rather than by current inflation. Otherwise, monetary policy decisions will systematically be taken too late. Current

Design shortcomings owing to a lack of foresight ...

**<sup>8</sup>** Most computations of the Taylor interest rate differ from Taylor's original method, which links the equilibrium real rate of interest to growth-theoretical considerations. Compared with the formation of the average, Taylor's method can lead to very low values for the equilibrium real rate of interest and hence for the Taylor interest rate.

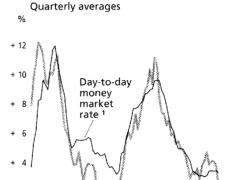
inflation and the output gap, which are included in the Taylor interest rate, do provide a certain amount of information on future price developments. Even so, the incorporation of additional information that is held to be relevant enhances the quality of the interest rate policy.<sup>9</sup>

... and, in some cases, wrong signals The Taylor rule also gives wrong signals in certain cases. For instance, it indicates a need for monetary policy action, in principle, if there is a one-off increase in the overall price level, such as one caused by an increase in valueadded tax. It is possible to argue, however, that monetary policy can tolerate the "firstround effects" of such shifts in the overall price level. This shows that a prudent application of the Taylor rule calls for a more detailed analysis of the individual determinants of price level changes. Alternatively, such misdirections can also be alleviated by basing the rule on a "core inflation rate" instead of the inflation rate recorded in the statistics. Such core inflation rates attempt to eliminate purely transitory price impulses and capture merely the longer-term price trend. 10

#### A Taylor interest rate for Germany

Calculation based on Taylor's method The chart on this page shows the behaviour of the Taylor interest rate for Germany if it is largely calculated using Taylor's original method. The inflation and output gaps are both given an equally high weighting of 0.5 and are entered simultaneously into the Taylor interest rate. The inflation rate is based on the (west German) consumer price index, and the inflation target is the upper limit of the "unavoidable rate of inflation" (or, from

#### Day-to-day money market rate and Taylor interest rate for Germany



Taylor interest rate

1979 85 90 95 1998

1 Day-to-day money market rate in Frank-

Deutsche Bundesbank

1985, the "normative inflation") used by the Bundesbank in deriving the monetary targets. The output gap is based on the Bundesbank's potential estimation for western Germany. 11 The equilibrium real short-term rate of interest is set at 3.4%. This corresponds to the

<sup>9</sup> This is the conclusion arrived at by a number of papers dealing with the relative advantages of different monetary policy rules. See, for example, Batini, N., Haldane, A. (1999), Monetary policy rules and inflation forecasts, Bank of England Quarterly Bulletin, February, 1999, pp. 60–67, and Rudebusch, G., Svensson, L.E.O., Policy rules for inflation targeting, in J. B. Taylor (eds.), Monetary policy rules (due to appear in summer 1999).

**<sup>10</sup>** There are, however, several methods of computing core inflation rates which, in some cases, lead to differing results.

<sup>11</sup> West German data were used as these formed the relevant database over the largest part of the period under review: even in the initial period after reunification, there was only a limited possibility of determining the Bundesbank's monetary policy on the basis of the data from eastern Germany – firstly, because the data were not sufficiently reliable and, secondly, because eastern Germany's structural problems could not be solved by monetary policy.

average of the (ex post) real day-to-day money market rate during the period under review of roughly two interest-rate cycles (first quarter of 1979 to fourth quarter of 1998). 12 When interpreting the Taylor interest rate calculated in this way, it should be borne in mind, however, that, in principle, other estimation periods, and, therefore, other average values are acceptable, too. 13

Interest-rate smoothing not taken into consideration

The behaviour of the observed day-to-day money market rate is smoother than the Taylor interest rate calculated as described above. Other things being equal, orientation to the Taylor interest rate would have implied greater interest rate movements than the Bundesbank actually allowed on the basis of its concept. 14 The reason for the stronger movement of the Taylor interest rate is that it does not take account of the adverse implications of an overly activist monetary policy. Given uncertainties about the current and future state of the economy and its structural relationships, it is inappropriate, for example, to react in full immediately to every piece of information that is received. 15 An additional factor is that frequent interest rate movements may entail drawbacks in the shape of higher uncertainty and more difficult expectation formation. A steady monetary policy which, as far as possible, avoids sharp interest rate fluctuations, avoids these drawbacks and facilitates stabilisation.

Although there tends to be a parallel movement with the day-to-day money market rate ... Overall, the behaviour of the day-to-day money market rate and the Taylor interest rate are quite similar. At first glance, this largely parallel movement appears to be very surprising since the output gap has not played an explicit role in Bundesbank policy. It is less surprising, however, if the similarities between the Taylor rule and monetary targeting are taken into consideration. The potential-oriented monetary targeting policy, too, has an automatic anticyclical component, for example: if gross domestic product (GDP) grows more slowly than the production potential, the central bank uses falling interest rates to provide more money than is needed to fund current growth. Furthermore, monetary targeting, too, reacts to deviations of the inflation rate from the "normative inflation" (see overview page 53).

Despite the tendency to parallel movement, fairly major deviations between the day-to-day money market rate and the Taylor interest rate can be identified at certain periods. This is most obviously the case between the beginning of 1984 and early 1987, when a growing differential between the day-to-day money market rate and the Taylor interest rate emerged. However, this noticeable differential disappears almost entirely in 1985 and 1986 if the computation of the Taylor interest rate is based on the GDP deflator rather than the con-

... there are fairly major deviations in some periods

<sup>12</sup> During this period, the hypothesis of stationarity of the real rate of interest cannot be rejected. This indicates that the real rate of interest has a tendency to revert to its mean. This property is an essential condition for the mean value to be used informatively as an estimation variable for the equilibrium real rate of interest.

<sup>13</sup> An estimation period from 1972, for example, produces an average real rate of interest of 2.6%.

<sup>14</sup> For an econometric analysis which accommodates this by incorporating a lag-dependent variable, see Clarida, R. et al. (1998), Monetary policy rules in practice: some international evidence, European Economic Review 42/6, pp. 1033–1067.

<sup>15</sup> See, for example, Brainard, W. (1967), Uncertainty and the effectiveness of policy, American Economic Review 57/2, pp.411–425, and Goodhart, C. A. E. (1999), Central bankers and uncertainty, Bank of England Quarterly Bulletin, February, pp.102–121.

#### Monetary targeting and the Taylor rule

The Bundesbank derived its target growth for the money stock  $\Delta m^T$  from the quantity equation (except in the case of interest rate i, lower-case letters stand for logarithmic variables, and  $\Delta$  stands for first differences):

(1) 
$$\Delta m = \Delta p + \Delta y - \Delta v$$
.

This was based on the inflation rate envisaged over the medium term (normative inflation)  $\Delta p^T$ , the expected rate of growth in the real production potential  $\Delta y^*$ , and the trend rate of change in the velocity of circulation  $\Delta v^*$ :

(2) 
$$\Delta \mathbf{m}^{\mathsf{T}} = \Delta \mathbf{p}^{\mathsf{T}} + \Delta \mathbf{y}^{\mathsf{*}} - \Delta \mathbf{v}^{\mathsf{*}}$$
.

If the setting of interest rates is oriented to the deviation of the money stock from its target growth

(3) 
$$\Delta i = \lambda \cdot (\Delta m - \Delta m^T)$$
, with  $\lambda > 0$ ,

and equations (1) and (2) are taken into consideration, the following interest rate rule emerges:

(4) 
$$\mathbf{i} = \mathbf{i}_{-1} + \lambda \cdot [(\Delta \mathbf{p} - \Delta \mathbf{p}^{\mathsf{T}}) + (\Delta \mathbf{y} - \Delta \mathbf{y}^{*}) - (\Delta \mathbf{v} - \Delta \mathbf{v}^{*})].$$

For better comparability with the Taylor rule, the deviation of the rate of change in the velocity of circulation can be replaced by the trend value, taking account of the money market equilibrium. Assuming a standard money demand function in the following form ( $\epsilon$  is a stochastic residual)

(5) 
$$\Delta m^d = -\gamma_1 \cdot \Delta i + \gamma_2 \cdot \Delta y + \Delta p + \Delta \varepsilon$$
, with  $\gamma_1, \gamma_2 > 0$ ,

the following applies in accordance with equation (1) in the money market equilibrium:

Deutsche Bundesbank

(6) 
$$\Delta v = \gamma_1 \cdot \Delta i + (1 - \gamma_2) \cdot \Delta y - \Delta \epsilon$$
.

Accordingly, in the long-term equilibrium for the trend rate of change in the velocity of circulation, the linear relationship with potential growth follows:

(7) 
$$\Delta v^* = (1 - \gamma_2) \cdot \Delta v^*$$
.

The interest rate rule (4) can thus be rewritten as:

(8) 
$$\begin{split} i &= i_{-1} + a_p \cdot (\Delta y - \Delta y^\star) + a_i \cdot (\Delta p - \Delta p^T) + a_l \cdot \Delta \epsilon, \\ \text{with } a_l &= \frac{\lambda}{1 + \lambda \cdot \gamma_1} \text{ and } a_p = a_l \cdot \gamma_2 \end{split}$$

Like the Taylor rule, equation (8) contains the inflation and output gaps as feedback variables. However, a closer inspection reveals some differences:

- In contrast to the Taylor rule, the target path for output relates to the growth in output and not to its level.
- The central bank responds to the feedback variables deviating from their target path by changes in the short-term interest rate from the preceding period, whereas the Taylor rule provides for an adjustment of the interest rate relative to its equilibrium value.
- Furthermore, linking interest rate policy to an intermediate monetary target as in equation (4) implies that the central bank responds not only to fluctuations in inflation and output but also to deviations of the velocity of circulation from its trend. This is based on the idea that future inflationary risks are reflected at an early stage by a rise in cash holdings.

sumer price index. <sup>16</sup> The reason for this is that the price trend in domestic overall output (which is measured by the GDP deflator) was very different from the price trend in the goods and services of domestic consumption (which is measured by the consumer price index). The marked appreciation of the Deutsche Mark in 1985 and 1986 led to lower prices for imported goods and, because imported consumer goods had become cheaper, lower rates of inflation based on consumer prices. By contrast, inflation based on the GDP deflator did not decline to the same extent.

Computation based on subsequently revised data When comparing the day-to-day money market rate with the Taylor interest rate, it should also be borne in mind that the Bundesbank would have been unable to base its monetary policy decisions completely on the real-time data used here for calculating the Taylor interest rate since it is generally only in the second half of a given quarter that the GDP (and hence also the GDP deflator) of the preceding quarter becomes known. Moreover, some of these data are subject to subsequent major statistical revisions. <sup>17</sup>

#### The Monetary Conditions Index (MCI)

Significance of the exchange rate for monetary policy Monetary policy measures affect aggregate demand and prices not only through interest rates but also through exchange rates. <sup>18</sup> Furthermore, exogenous exchange rate movements influence the monetary policy setting. For a central bank in an open economy with flexible exchange rates and capital mobility, it is therefore advisable to include the exchange rate situation in the assessment

of the underlying monetary conditions. This applies especially to small economies, in which the exchange rate has greater importance for economic developments.

Given that background, the purpose of computing an MCI is to combine interest rate and exchange rate movements in a consistent manner and thus express the change in the underlying monetary conditions in a single variable. In its original form, as developed by the Bank of Canada, the MCI is, at a given time t, the weighted sum of the (relative) change in the effective real exchange rate and the (absolute) change in the short-term real rate of interest compared with a base period: <sup>19</sup>

$$\begin{split} \text{MCI}_t &= w_e \cdot \left[ \begin{array}{c} \text{weighted real external value t} \\ \text{weighted real external value in base period} \end{array} \right. - 1 \right] \\ &\quad + w_r \cdot \left[ \begin{array}{c} \text{short-term real rate of interest in t} \\ - \text{short-term real rate of interest in base period} \end{array} \right] \end{split}$$

Interest rate movements are included in the MCI with a weight of w<sub>r</sub>, and exchange rate movements are included with a weight of w<sub>e</sub>.

Construction of the MCI

<sup>16</sup> Similarly, using the GDP deflator leads to striking deviations from the day-to-day money market rate in other periods, which do not occur when the consumer price index is used (at the end of the eighties and in 1997, for example).

<sup>17</sup> Orphanides shows for the United States that using real-time data rather than revised data leads to significant differences in the Taylor interest rate. See Orphanides, A. (1998), Monetary policy rules based on real-time data, Finance and Economics Discussion Series 1998–03, Federal Reserve Board, Washington D.C.

**<sup>18</sup>** In addition, a distinction can be made among a number of other transmission channels. See, for example, Mishkin, F.S. (1996), The channels of monetary transmission: lessons for monetary policy, NBER Working Paper No. 5464, Cambridge, MA.

**<sup>19</sup>** See Freedman, C. (1994), The use of indicators and the monetary conditions index in Canada, in Baliño, T.J.T. and Cottarelli, C. (eds.), Frameworks for monetary stability – policy issues and country experiences, IMF, Washington, p. 470.

As a rule, these weights reflect the relative effects of the respective MCI component on aggregate demand. The effect on aggregate demand which is assigned to an increase in the short-term real rate of interest by 1 percentage point is the same as that ascribed to an increase in the external value of w<sub>r</sub>/w<sub>e</sub> percent.

The base period, to which the MCI relates, is selected as desired. No independent significance is to be ascribed to the absolute level of the MCI. Its ongoing development can only indicate whether the underlying monetary conditions between two points in time have eased (decline in the MCI) or become tighter (increase in the MCI).

Use of the MCI as an operational reference variable ... MCIs are used in quite a number of ways by various institutions. In the monetary policy of the Bank of Canada, which has been pursuing an inflation targeting strategy since 1991, the MCI is used as a short-term operational reference variable. 20 On the basis of the quarterly inflation forecasts, a "desired or target path for the monetary conditions" is determined internally which is compatible with the desired development of the inflation rate.<sup>21</sup> In the period between two inflation forecasts, there is a continuous examination of the direction in which the current MCI is moving and of whether there is cause for reassessing the price outlook and thus for adjusting the MCI path which is "consistent with the inflation target". If the monetary policy course appears to be in need of correction - which is signalled by a significant discrepancy between the actual MCI and the envisaged MCI – measures are taken to effect a change in the short-term interest rates.<sup>22</sup>

Some central banks of smaller open economies (Sweden and Norway, for example), and especially international organisations, such as the IMF and OECD, and commercial banks use the MCI both as an indicator for a change in the degree of monetary policy restriction and as an indicator for future output and price developments.<sup>23</sup> In both cases, the analysis focuses primarily on the development of the current MCI, and not on a comparison with a "target path" for the MCI which is de-

... and as a monetary policy indicator

20 See, for example, Freedman, C. (1994), The use of indicators and the monetary conditions index in Canada, in Baliño, T. J. T. and Cottarelli, C. (eds.), Frameworks for monetary stability — policy issues and country experiences, IMF, Washington, pp. 458–476, and Freedman, C. (1995), The role of monetary conditions and the monetary conditions index in the conduct of policy, in Bank of Canada Review, autumn 1995, pp. 53–59. On account of the significantly more rapid availability of the necessary data, the Bank of Canada uses the nominal MCI as a basis for this, although the real MCI is, theoretically, the relevant variable. However, this poses few problems if the MCI is employed for the short-term analysis as the development of both variables is invariably very similar over short periods.

21 The path of the "desired MCI" is construed more as a range than as a precise line of development, however. See, for example, OECD (1998), Economic Surveys, Canada, p. 13 and p. 137.

22 In the last two years, the MCI played a role in the implementation of monetary policy at the Reserve Bank of New Zealand which was similar to that at the Bank of Canada. Latterly, however, its importance has been scaled down somewhat. See Reserve Bank of New Zealand (1996), Summary indicators of monetary conditions. Reserve Bank Bulletin 59/3, pp. 223-228, Reserve Bank of New Zealand (1996), Monetary Policy Statement, December, p. 22f.; Reserve Bank of New Zealand (1997), Monetary Policy Statement, June, p. 25ff.; Reserve Bank of New Zealand (1999), Monetary Policy Statement, March, in particular, p. 20f. and p. 27f., and Reserve Bank of New Zealand (1999), Reserve Bank Bulletin 62/1. 23 The IMF suggested the MCI as an inflation indicator to supplement M3 for Germany, for instance. See Corker, R. (1995), Indicators of monetary conditions, in Corker, R. et al., United Germany: The first five years - performance and policy issues, IMF Occasional Paper, No. 125, pp. 51-61. In the case of the above-mentioned central banks, the MCI has always played a secondary role and has recently been further downgraded in importance.

rived in line with the final monetary policy objective.

MCI fraught with problems

The indicator properties of MCI are debatable, however. Firstly, this is connected with the fact that it is not a clearly specified statistical variable. Instead, it is — much like the Taylor interest rate — a construction which allows a certain amount of freedom in its calculation. Furthermore, it is based on econometric estimations, the results of which are generally very sensitive with regard to the chosen specification. Secondly, movements in the MCI require a great deal of interpretation.

Selection of the MCI components

When constructing an MCI, the components to be included first have to be specified. The traditional MCI, i.e. the weighted sum of the changes in the real effective exchange rate and in the short-term real rate of interest, is by no means necessarily appropriate for every currency area. In particular, if it is construed as a yardstick of the influence which financial market prices have on the trends in real income and inflation, all the variables which are of particular relevance in the transmission process in an economy are, in principle, to be included. For countries in which long-term financing relationships play a major role, as they do, for example, in Germany, it would be logically consistent to include a long-term interest rate in addition to the short-term interest rate and the external value. 24

Exact definition of the components

The exact definition of the components included in the MCI influences the computation of the indicator, too. The day-to-day money market rate or the three-month rate is normally used as the short-term interest rate.

The expected inflation rate for the relevant period is deducted in order to calculate the real rate of interest. The expected inflation rate is generally approximated using the current rate of inflation, which may relate, in principle, to different price indices. Owing to the fact that the inflation rate develops quite slowly in the short term, approximating expected price movements by means of current ones appears generally acceptable for the short-term real rate of interest.<sup>25</sup> The choice of the deflator plays a crucial role in terms of the real external value. The deflator can be calculated, for example, on the basis of the prices for total sales, consumer prices, or unit labour costs. Since these series differ - in some cases significantly – in their development, the selection of the deflator has both a direct and – through the computation of relative weights of the MCI - an indirect influence on the movement of the MCI.<sup>26</sup>

The relative weights with which the individual components are included in the MCI are not observable and must therefore be estimated econometrically. The MCI therefore depends on the specification and the assumptions of these estimations. In the majority of analyses, the weights are determined using single

Estimation of the relative weights fraught with a high degree of uncertainty

<sup>24</sup> An "extended" MCI is not a very suitable monetary policy indicator, however. To an even greater extent than the traditional MCI, it is subject to numerous different influencing factors which are independent of monetary policy.

<sup>25</sup> By contrast, if a long-term interest rate is additionally used, this approach can, at times, be misleading. It is likely that the long-term ex post real rate of interest tends to be overestimated in periods when interest rates are very low and underestimated when inflation rates are high.

<sup>26</sup> For alternative ways of measuring the real external value, see Deutsche Bundesbank, The indicator quality of different definitions of the real external value of the Deutsche Mark, Monthly Report, November 1998, pp. 39–52.

equation-estimates. From an econometric point of view, this has a number of shortcomings and thus increases the risk of inaccurate monetary policy assessments.<sup>27</sup>

Assumed transmission process disregards important transmission channels

The weights of the MCI components are generally estimated on the basis of real-income equations even if price stability is assumed as the final objective of monetary policy. This makes the implicit assumption that monetary policy influences the inflation rate only through the output gap. In this way, other transmission channels are disregarded. For example, movements in the exchange rate may have a direct impact on the consumer price index as a result of changes in import prices. Furthermore, the liquidity gap plays a significant role in explaining the development of inflation. An MCI with weights estimated on the basis of a real-income equation, is thus likely to be of limited usefulness, at most, for the inflation forecast. 28 In principle, this criticism could be met by estimating the MCI weights on the basis of "price equations" rather than of real-income equations.<sup>29</sup>

Need to interpret the MCI Irrespective of the difficulties in constructing an MCI, there is the problem that it is by no means easy to interpret its changes in terms of their significance for current monetary policy. Whether it is appropriate or not for the central bank to take an interest rate measure in response to a change in the MCI caused by an appreciation or depreciation of the domestic exchange rate depends, in principle, on the reasons for the change in the exchange rate. If the change in the real exchange rate has its origins in the real economy – say, in an exogenous rise in foreign demand for domestic

goods - it would not be at all appropriate, with a view to the objective of price stability, to try to use monetary policy to reduce the MCI to its original level. That is because the demand shock, taken in isolation, is accompanied by an increased inflationary pressure which justifies more restrictive underlying monetary conditions. Mechanistically adjusting official interest rates in response to exchange rate movements – as suggested by an overly simple interpretation of the MCI – would by no means be appropriate. In practice, a central bank is additionally faced with the problem of being unable to identify the factors underlying a movement in the exchange rate with adequate certainty, or of being able to do so only after a considerable period. This fundamentally argues against excessive actionism on the part of monetary policy. 30

The usefulness of using an MCI is also called into question by the fact that the assumed

Constancy of weights

<sup>27</sup> See, above all, Eika, K. et al. (1996), Hazards in implementing a monetary conditions index, Oxford Bulletin of Economics and Statistics, 58, pp. 765–790. The associated problems are explained in greater detail in the annex on p. 62. As an alternative to single-equation approaches, more or less comprehensively specified econometric multi-equation models are used in some cases.

**<sup>28</sup>** Ultimately, this is an empirical question, however. For Germany, an MCI with weights estimated on the basis of a real-income equation has no significant lead over prices. See annex p. 63.

<sup>29</sup> Experience has shown, however, that simple specifications produce implausible weightings.

**<sup>30</sup>** This applies to an even greater extent to an MCI extended to include the long-term real rate of interest. The interpretation of movements in the long-term real rate of interest is subject to difficulties comparable to those encountered in the case of the real external value. Moreover, it is risky to take monetary policy countermeasures in the event of an increase in the long-term real rates of interest which is regarded as unjustified by the fundamentals. A step of that kind may lead to a rise in risk premiums and thus to a further increase in the long-term interest rate, especially in situations where there is a high level of uncertainty in the financial markets. It might not even be possible under such circumstances to steer the MCI in the desired direction.

consistency of the relative weights of the individual components is not convincing over time.31 The impact of exchange rate movements on aggregate demand depends, for example, on the domestic economic agents' relative share of indebtedness in foreign currency. A significant change in this share is likely to have an impact on the MCI weights. Furthermore, it has to be borne in mind that exchange rate movements do not affect the individual sectors of the economy equally but, instead, tend to have the biggest effect on the export-oriented sectors. Accordingly, the impact that an appreciation or a depreciation of the domestic currency has on the outlook for prices will depend on the specific economic situation in the sector of traded goods.

#### An MCI for Germany

A typical estimation of the MCI weights for Germany based on an equation for the change in the output gap over the period from the first quarter of 1975 to the fourth quarter of 1998 is (all variables with the exception of the interest rate are logarithms; t values in brackets)

$$\begin{split} & \Delta_4 \left(y-y^{\star}\right)_t = \underset{(6.14)}{0.65} \ \Delta_4 \left(y-y^{\star}\right)_{t-1} + \underset{(2.96)}{0.50} \ \Delta_4 \left(y^{a}\!\!-y^{a}\!\!\star\right)_t \\ & -0.09 \ \Delta_4 r_{t-8} - \underset{(1.30)}{0.03} \ \Delta_4 e_{t-8} + u_t \\ & \overline{R}^2 = 0.59 \ \ LM(1) = 1.96 \ (0.16) \ \ LM(4) = 8.80 \ (0.07) \end{split}$$

The expression  $\Delta_4$  represents the fourth difference, i.e.  $\Delta_4$   $y_t = y_t - y_{t-4}$ ,  $y_t$  represents real GDP and  $y_t^*$  the real production potential.  $\Delta_4$   $(y-y^*)_t$  therefore states the change in the output gap from the previous year.  $y_t^a$  and  $y_t^a$  represent the corresponding variables for

industrial countries (excluding Germany). The estimation of the production potential for Germany is based on a production function. Because of the lack of adequate data, the production potential of the industrial countries is estimated by applying the Hodrick-Prescott filter to the real GDP. The real external value et is the weighted external value vis-àvis 18 industrial countries, deflated by the price index of total sales. The real short-term rate of interest rt is the day-to-day money market rate less the current inflation rate as measured by the consumer price index. LM(1) and LM(4) give the results of the LM tests for first-order and fourth-order autocorrelation, respectively. The values in brackets in this case give the relevant marginal significance levels. It follows from the estimation that:

$$MCI_t = 0.25 (e_t - e_0) + 0.75 (r_t - r_0).$$

The ratio of the weights of the real rate of interest to the weighted real external value is hence 3:1, i.e. the relative weight of the real external value amounts to  $0.33.^{32}$  The standard error of 0.29 does have to be borne in mind, however. This implies the very broad 95% confidence interval of -0.25 to 0.91, which also contains the value of zero. Standardising this MCI to the first quarter of 1990 produces the curve in the chart on page 59.

Past weights of real rate of interest and weighted real external value for Germany 3:1

**<sup>31</sup>** See also Smets, F. (1997), Financial asset prices and monetary policy: theory and evidence, Bank for International Settlements, Working Paper No. 47, Basle, p. 11.

<sup>32</sup> In other MCI estimations for Germany, the weight of the short-term real rate of interest in relation to the real external value varies between 1.4 and 4. See, for example, Dornbusch, R. et al. (1998), Immediate challenges for the European Central Bank, Economic Policy 26, pp. 15–64; Frochen, P. (1996), Les indicateurs des conditions monétaires, Bulletin de la Banque de France, June, pp. 97–111.

Volatile curve of the MCI

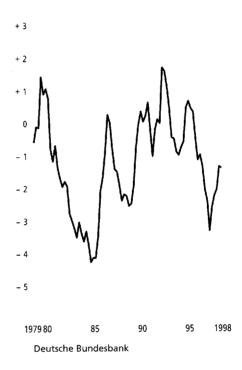
This curve is characterised, firstly, by a fairly high degree of volatility. Secondly, it shows that the underlying monetary conditions measured against the base period - were most restrictive in the early eighties and nineties, when inflationary pressures were quite high. Since the second half of 1992, there has been a marked easing of conditions as a result of the reduction in official interest rates, although this easing was obscured at times (notably in 1994-5 and at the start of 1998) by a real appreciation of the Deutsche Mark. In 1999 so far, there has been an obvious easing of the underlying monetary conditions due to a weakening of the euro exchange rate and the Governing Council of the ECB cutting interest rates in April.

#### Lead properties of the money stock, the Taylor interest rate and the MCI with regard to price movements

Investigation of the lead over price movments... Notwithstanding the indicated shortcomings of the Taylor interest rate and the MCI, the possibility that analysing them (as a supplement to M3) would have provided additional information for the Bundesbank's policy in the past cannot be ruled out a priori. That would have been the case especially if they had possessed a satisfactory predictive quality for price movements. The lead over price movements for the money stock M3, the Taylor interest rate and the MCI was therefore examined in greater depth. The relevant econometric estimations showed that the money stock had lead properties, but not the MCI and the Taylor interest rate. 33 This is also illustrated by the chart on the next page.

#### MCI for Germany

1st qtr 1990 = 0, quarterly averages



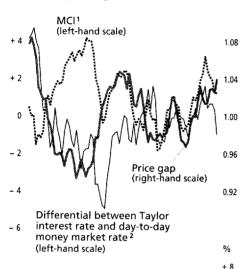
The upper panel of the chart shows the curve of the differential between the Taylor interest rate and the day-to-day money market rate, the curve of the MCI as it was previously calculated (but with a reversal of sign), and the "price gap" using the P-star approach, which reflects the pressure on prices indicated by the money stock. The rising curve of each indicator shows a monetary policy that is becoming more expansionary. Taken in isolation — with certain time lags — this ought to lead to rising rates of inflation. The lower part of the chart therefore shows the movement in the consumer price index.

It can be clearly seen that the money stock (in the form of the price gap) displays a lead over ... reveals satisfactory results for M3, ...

**<sup>33</sup>** See annex, p. 63.

### MCI, Taylor interest rate, price gap and inflation rate

#### Quarterly averages





1 1st qtr 1990 = 0; reversal of sign. — 2 Dayto-day money market rate in Frankfurt; differential in percentage points. — 3 Percentage change from the previous year in the west German consumer price index.

#### Deutsche Bundesbank

price movements during most of the period under review. The "price gap" anticipates by between two and three years both the fall in the inflation rate from early 1982 to the end of 1986 and its subsequent rise up to 1992. The "price gap" turns out to be less reliable in the period after 1992, however, when the picture of monetary growth was frequently distorted, especially by changes in tax legislation.

The Taylor interest rate differential (at least up to around 1993) shows a movement that is largely parallel with inflation. A crucial factor is likely to have been the direct inclusion of the current inflation rate in the computation of the Taylor interest rate. Overall, the differential between the Taylor interest rate and the actual interest rate is not a satisfactory indicator of future price movements.

... but not for the Taylor interest rate ...

The MCI's predictive quality for price movements is also unsatisfactory. The signals it gives for the period from early 1982 to the end of 1986, during which there was a continuous decline in inflation, are predominantly incorrect. In the period after that, its curve is very volatile – in contrast to the quite smooth development of inflation.

... and the MCI

#### Monetary policy conclusion

Both the Taylor interest rate and the MCI have significant shortcomings. How they are both calculated is subject to a large degree of freedom, and interpreting them is by no means as simple as it may appear at first sight. To that extent, they provide, at most, rough points of reference for the assessment

Taylor interest rate and MCI to be used, at most, as broad reference variables of monetary policy.<sup>34</sup> Neither of the variables is hence suitable – applied in isolation – for deriving interest rate policy recommendations.

the future trend in inflation. Ignoring these would not be appropriate for a central bank oriented to the objective of price stability.

Monetary policy of the Eurosystem not based on the Taylor interest rate and MCI

The monetary policy strategy of the Eurosystem is based just as little on the Taylor interest rate and the MCI as was the former strategy of the Bundesbank.35 Instead, the variables incorporated in them are examined individually. They are included in the broad analysis of the outlook for prices, which is the second pillar of the Eurosystem's monetary policy strategy alongside the reference value for the money stock M3. This takes account of the need to interpret the individual variables.36 In particular, consideration is given to the fact that the monetary policy environment cannot be characterised solely by current price movements and the output gap or by the situation with regard to interest rates and the exchange rate. Instead, the broadly defined monetary aggregate M3 as well as a number of other monetary, financial and real economic indicators contain valuable information on

34 Taylor himself views the interest rate which is named after him more as a reference variable than as a rule which is to be followed mechanistically. See, for example, Taylor, J.B., The ECB and the Taylor rule. How monetary policy could unfold at Europe's new central bank, The International Economy 12/5 (1998), especially pp. 58–59. Likewise, the Bank of Canada fundamentally acknowledges the shortcomings of the MCI. It therefore stresses its specific use for short-term analysis, in which some of the mentioned shortcomings are less serious, as well as the necessity of thorough interpretation. See, for example, Freedman, C., The use of indicators and the monetary conditions index in Canada, in Baliño, T.J.T. and Cottarelli, C. (eds.), Frameworks for monetary stability – policy issues and country experiences, IMF, Washington D.C. (1994), pp. 458-476.

**35** In any case, the MCI does not come into consideration as an operational variable for a large economic area with a comparatively low degree of openness.

36 The difficulties of computing the Taylor interest rate and the MCI are even greater for the euro area than for an individual country since the variables incorporated in them have to be aggregated from national data. As there are a number of possibilities of doing so, resulting in an additional freedom of scope in their computation, this leads to even greater variability in the calculated or estimated values. For the construction of an MCI for the euro area, see, for example, Verdelhan, A. (1998), Construction d'un indicateur des conditions monétaires pour la zone euro, Bulletin de la Banque de France, October, pp. 75–82.

#### Annex

## Potential deficiencies of single-equation estimations for determining the MCI from an econometric point of view

#### **Dynamics**

The relationships between changes in the exchange rate or in interest rates and the change in the inflation rate or the rate of growth of real GDP are dynamic in nature. This means that their relative effects differ in the short, medium and long term, and perhaps even in terms of the direction in which the relationship works. Since prices react with comparatively long time lags, focusing on a time horizon of six to eight quarters (medium term) for analysis, as is usual when computing MCIs, is inadequate. Even if a given interestexchange rate situation appears favourable with regard to price movements in the short-term perspective, the associated long-term trend may be undesirable from the point of view of economic policy.

#### Long-term properties

A consistent modelling of the long term is necessary even if the analysis is confined to a period of around two years. This assumes that the properties of the time series are adequately captured. If necessary, estimated or theoretical cointegration relationships have to be taken into consideration. Ignoring information of that kind leads to biases in the short and medium-term multipliers, from which the weights are derived.

#### Incorrect specification

Failure to include significant variables when the weights are derived affects the dynamics, the cointegration analysis, etc. Neglected variables lead to biases in the estimated parameters, i. e. in the relative weights. These biases may fluctuate over time.

#### Structural constancy

If conclusions are to be drawn on future price movements or the future growth of GDP, the weights must not change over time. However, unrestricted vector-autoregressive models and reduced form equations, in particular, often have widely varying coefficients if they are estimated recursively. One of the reasons for this is "over-parametrisation", i.e. the large number of parameters to be estimated.

#### Volatility clusters

The estimations for determining the weights are generally made using quarterly data. By contrast, for the current analysis daily data are included in the computation of the MCI, i.e. daily data are generated for this index. In the analysis of daily data in the financial market, however, model groups other than those for quarterly or annual data are appropriate, as the latter have different statistical properties (ARCH effects or volatility clusters). There is a risk of misinterpretation if these aspects are not taken into account.

## What informative content do the MCI and the Taylor interest rate possess when compared with the price gap?

The question of whether the MCI has informative content for the future development of inflation which goes beyond that already contained in the price gap (and thus indirectly in the money stock) has not been given attention so far in the literature and will be discussed below.<sup>37</sup>

In logarithmic terms, the price gap equals:

$$(p^* - p) = (y - y^*) + (v^* - v),$$

where  $p^*$  is the equilibrium price level, p the current price level, p the real GDP, p the production potential, p the equilibrium velocity of circulation, and p the actual velocity of circulation. A positive price gap indicates inflationary pressure, i.e. a rise in the inflation rate in the future. The reasons for this are a high level of capacity utilisation p and/or a monetary overhang p and/or a monetary overh

As the velocity of circulation for M3 shows a falling trend, this should be taken into consideration when calculating the equilibrium price level. The consumer price index is used to measure the price rise. The production potential is estimated using a production function.

The interaction between the short-term dynamics and the long-term equilibrium is depicted as an error correction model. The OLS estimation of the equation for the inflation rate gives:

$$\begin{split} \Delta_4 p_t &= \underset{(64.94)}{0.97} \Delta_4 p_{t-1} + \underset{(7.60)}{0.09} \ \Delta_4 pim_t - \underset{(5.53)}{0.08} \ \Delta_4 pim_{t-1} \\ &+ \underset{(2.70)}{0.03} \ (p^* - p)_{t-4} + u_t \end{split}$$

The development of the inflation rate is influenced not only by the long-term effects, which are captured by the price gap, but also by short-term factors. Changes in import prices (pim) are therefore included in the equation above. The adjustment coefficient of the price gap is comparatively low. This implies a slow adjustment of the actual price level to the equilibrium level.

If the change in the traditionally defined MCI is included as well, the resulting coefficient is insignificant

$$\begin{split} \Delta_4 p_t &= \underset{(65.42)}{0.97} \, \Delta_4 p_{t-1} + \underset{(5.12)}{0.08} \, \Delta_4 pim_t - \underset{(5.15)}{0.07} \, \Delta_4 pim_{t-1} \\ &+ \underset{(2.57)}{0.04} \, (p^* - p)_{t-4} - \underset{(1.05)}{0.04} \, \Delta_4 MCI_t + u_t \end{split}$$

This indicates that the MCI has no explanatory power beyond the price gap for explaining the development of inflation. The likely reason for this is that the MCI is mainly a measure of the output gap.

An estimation incorporating the differential between the Taylor interest rate and the current interest rate shows that the differential likewise has no significant explanatory power for the development of the inflation rate.

**<sup>37</sup>** For a description of the P-star approach, see Deutsche Bundesbank, The correlation between monetary growth and price movements in the Federal Republic of Germany, Monthly Report, January 1992, pp. 20-28.

## Statistical Section

#### Note

The start of Stage Three of European economic and monetary union (EMU) has led to a changed presentation of the Statistical Section of the Monthly Report. As monetary policy is now conducted and analysed in the context of the single currency area, the tables relating to monetary policy are geared to the geographical area comprising the monetary union; the relevant figures for Germany are shown as additional information. The changes result, on the one hand, from the altered composition of the range of monetary policy instruments and, on the other, from the harmonisation of national banking statistics in the EMU member countries. The newly defined reporting population for the production of banking statistics includes "monetary financial institutions (MFIs)", i.e. central banks, credit institutions as defined by Community law and certain other financial institutions which meet the MFI definition. In Germany the redefinition of the reporting population means that data reported by building and loan associations and (in the subsection "Overall monetary survey") money market funds will also have to be incorporated in the statistical presentations. The statistical breaks resulting from the changed reporting population and modified contents of individual items, which should be taken into account when examining time series for the turn of 1998-9, are reported in footnotes and are eliminated - as far as possible - from the flow figures in the time series.

In the balance of payments, further items have been harmonised on the basis of internationally binding concepts. This applies, in particular, to direct investment and portfolio investment. In addition, the changes in the monetary reserves are now shown as a separate item. The changes in all other external assets and liabilities of the Bundesbank are recorded under other financial account movements. The launch of monetary union has also resulted in a changed definition of the monetary reserves. In addition to gold holdings and the IMF position, this item now only comprises claims on non-euro-area residents in foreign currency. This in turn results in a changed presentation of the Bundesbank's external position.

Finally, the adoption of the euro is reflected in the statistics in that amounts are shown in D-Mark for the reporting periods up to the end of 1998 and in euro from January 1999, which means that the time series are continued with the denomination changing from D-Mark to euro. Only a few synoptic tables will show values in both D-Mark and euro for a transitional period.

Further information on the modifications to the Statistical Section of the Monthly Report will appear on the Internet.

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#### Abbreviations and symbols

- **e** Estimated
- **p** Provisional
- pe Partly estimated
- r Revised
- ... Figure available at a later date
- . Figure unknown or not to be published or not meaningful
- 0 Less than 0.5 but more than nil
- Nil

Discrepancies in the totals are due to rounding.

I. Key economic data for European monetary union

New table 8

## 1. Monetary developments and interest rates

	Money stock in various definitions 1								ł
	Money stock in	various definition	)s 1	Determinants of	the money stock 1		Interest rates		
	M1	M2	M3	MFI lending, total	MFI lending to enterprises and individuals	Monetary capital formation <sup>2</sup>	EONIA 3, 5	3–month EURIBOR 4, 5	Yield on Euro- pean govern- ment bonds outstanding 6
Period	Change from pr	evious year,in %	7				% p. a. as a mont	hly average	
1997 Sep.	0.0	0.0	0.0						5.8
Oct. Nov. Dec.	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	• •			· •		5.8 5.8 5.5
1998 Jan. Feb. Mar.	8.1 8.6 9.1	4.0 4.2 4.4	4.6 4.5 4.6						5.2 5.1 5.0
Apr. May June	10.6 10.3 9.8	5.1 5.2 5.2	5.1 4.9 4.8						5.0 5.1 4.9
July Aug. Sep.	8.3 8.4 8.1	4.4 4.3 4.6	4.6 4.3 4.4	6.6	8.8	3.8			4.8 4.6 4.3
Oct. Nov. Dec.	8.3 8.6 9.4	4.6 5.0 5.7	4.8 4.6 4.5	7.0 7.0 7.0	8.9 9.3 9.1	3.6 3.3 2.4			4.2 4.3 4.0
1999 Jan. Feb. Mar.	14.3 12.0	7.3 6.0 	5.6 5.2 	7.8 7.4 	10.2 9.5 	4.1 3.6 	3.14 3.12 2.93	3.13 3.09 3.05	3.8 3.9 4.2

1 Source: ECB. — 2 Longer-term liabilities to euro area non-MFIs. — 3 Euro OverNight Index Average. — 4 Euro InterBank Offered Rate. — 5 See also footnotes to table VI.5., p. 40\*. — 6 GDP-weighted yield on ten-year

government bonds; excluding Luxembourg. — 7 Statistical breaks not eliminated up to December 1998. — 8 See the note on the title page of the Statistical Section (page 1\*).

## 2. Foreign trade and payments

	Selected iten	ns of the EMU bala	ance of paymen	ts 1		AC Alexander de la constante d		Euro exchange	rates	
	Current acco	unt	Capital accour	nt					Effective excha	nge rate
	Balance	of which: Trade balance	Balance	Direct investment	Securities transactions	Credit transactions	Monetary reserves	Dollar rate	nominal	real
Period	Euro billion							US-\$/Euro	1990=100	
1997 Sep.										88.4
Oct. Nov. Dec.	i de la companya de l		Ministrative and the second se		-		The state of the s			89.4 90.9 91.1
1998 Jan. Feb. Mar.	Control of the Contro	**************************************			THE PROPERTY AND ADMINISTRATION OF THE PROPERTY ADMINISTRATION OF THE PROPERTY AND ADM				90.3 89.5 88.9	90.4
Apr. May June					CONSTRUCTION OF THE CONSTR	· ·	The state of the s	- ·	89.6 92.2 92.2	91.9
July Aug. Sep.	ndarer i statu e de la constante de la constan		an respectively.			· ·			92.0 93.3 95.2	92.1
Oct. Nov. Dec.			UNION TO THE PROPERTY OF THE P				orange canada and a		95.8 94.1 94.0	95.3 93.6 93.5
1999 Jan. Feb. Mar.				1			I	1.1208	92.7 90.9	92.1 90.5 88.9

<sup>1</sup> Initial figures are unlikely to be available until April.

## I.Key economic data for the euro area (EMU)

### 3. General economic indicators

- I		**************************************	<u></u>		I	14-1.	Lucashaura	Netherlands	Austria	Portugal	Spain	EMU
Period	Real gros	Germany s domestic	Finland product 1	France )	Ireland	Italy	Luxembourg	Netherlands	Austria	roragai	John	
1996	1.3 3.0	1.3 2.2		1.6	7.4	0.7	3.0	3.1	2.0	3.2	2.4	1.6 2.5
1997 1998	3.0 2.9	2.2 2.8	6.0	2.3 3.2	9.8	1.5 1.4	3.7 ·	3.6 3.7	2.5 3.3	3.5	3.5 3.8	3.0
1997 3rd qtr 4th qtr	3.3 3.4	2.4 2.4	6.4 6.3	2.6 3.0		2.1 2.5		3.4 4.3	2.8 3.6	3.8 4.1	3.7 3.8	2.8 3.2
1998 1st qtr 2nd qtr	4.2 3.3	4.3 1.6		3.8 3.4		2.2 1.8		4.9 3.7	4.2 4.2	3.6 3.4	3.9	3.8 3.0
3rd qtr 4th qtr	2.1	2.8 2.5	4.8	2.9 2.8		1.5		3.2 3.1	4.2 2.7 2.1	3.3	3.8 3.6	2.9 2.4
	Industria	l productio										
1996 1997	0.9 4.3	7) r 0.6 r 3.6	3.7 9.1	0.3	8.0 15.3	- 2.9 2.8	- 1.9 7.1	2.7 2.0	5.7	2.5	- 0.7 6.8	0.2 4.3
1998	3.4	r 4.5	7.6	4.5 5.0	15.7	0.7 3.3	4.6 10.8	1.1 2.6	3.4 4.5	ž.	5.4 9.0	4.2 5.2
1997 3rd qtr 4th qtr	5.9 4.3	r 4.1 r 4.6	9.5	6.2	15.1	5.7	11.5	3.3	8.6	5.2	8.5	5.9 6.6
1998 1st qtr 2nd qtr	4.6 5.8	r 7.4 r 4.6	8.9	7.5 4.8	15.1	3.0 1.3 0.7	10.1 4.5 3.4	1.3 1.9 1.5	6.4	4.9	3.6	4.6 4.0
3rd qtr 4th qtr	1.8 1.1		4.2	3.4 2.7	15.3		0.4	0.3	- 1.5		3.0	1.9
		utilisation	-							* 70.0	1 7741	90.6
1996 1997	79.5 81.6	83.5	87.2	83.6 83.7	76.2	76.5 76.7 78.3	79.0 82.8 87.8	83.8 84.4 85.3	82.0	81.0	78.5	80.6 81.5 83.1
1998 1997 4th qtr	82.6 82.9	85.4 84.4	1	84.9 84.7	1	77.8	85.3	84.8	1			82.5
1998 1st qtr	82.4 82.9	85.4 85.5		84.0 85.4		78.7 78.6	88.5 87.6	85.8 85.9				82.8 83.4
2nd qtr 3rd qtr 4th qtr	83.0 82.3	85.8 85.4	89.9	85.7 84.9	76.4	79.3	87.5 88.2	85.1 84.6	84.7	81.0	81.0	83.7 82.8
1999 1st qtr	79.6	1	1	1	ŧ	1	l .	84.1	81.4	81.2	80.8	81.9
	Unemplo	yment rat	e 4)									and the second s
1996 1997	9.7 9.2	9.9	12.7	12.3	9.8	12.0 12.1	2.8	5.2	4.4	6.8	20.8	11.6 11.6 10.9
1998 1998 July	8.8 8.8	2	1	1	i	5	2.8 2.9	3.8	4.7	4.6	18.8	10.9 10.8
Aug. Sep.	8.9 8.8	9.3	3 11.2	11.7	7.7	12.3	2.8 2.8	3.7				10.8
Oct.	8.6 8.5			11.6 11.6			2.9 2.7		4.7 4.6			10.7 10.6
Nov. Dec.	8.5	9.2	2 10.8	11.5	7.3	12.1	2.6 2.8	3.6	4.6	Ţ	1	10.6 10.5
1999 Jan. Feb.	8.4 8.4	9.0	10.8	11.4	7.0	12.0	2.8		4.6		17.6	
	Harmoni		of consum								ni 26	ŧ 22
1996 1997	1.8 1.5	1.5	5 1.2	1.5	1.2	1.9	1.4	1.9	1.2	1.9	1.9	2.2 1.6 1.1
1998 1998 Aug.	0.9	1	1	0.6	3.0	2.2	1.0	1.4	0.7	2.2	2.1	1.1
Sep. Oct.	0.8	1	1	1	1	1	i .	ŧ	ŧ	1	1	1.0 0.9
Nov. Dec.	0.6	0.4	4 0.9	0.2	2 2.2	1.7	0.5	1.5				0.8 0.8
1999 Jan.	1.0	0.	2 0.5	0.4								0.8 0.8
Feb. Mar.		and the same of th	. 0.9	0.5	5 2.0		0.6					
-	<del> </del>		nt financi		_				)	ni 21	= 26	- 2.5
1997 1998	1	- 2. 6) - 2.			0 1.1 9 2.3	- 2.7 - 2.7	2.9	- 0.9 - 0.9	- 1.5 - 2.1	- 2.! 1 - 2.	- 2.6 - 1.8	- 2.1
	General	governme	mt debt 5)						<u>-</u>	_, _	-1	v == 1
1997 1998	123.4 117.3	61. 6) 61.	5 54.9 1 49.6	58. 5 58.	61.3 5 52.1	122.4 118.7	6.7	71.2	64.	61. 1 57.	67.5 8 65.6	75.4 73.6

Sources: National data, European Commission, Eurostat, European Central Bank. Latest data are provisional . — 1 Annual percentage changes; GDP of France, Portugal, Spain and EMU are 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 (except Austria); 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. — 6 GDP results of March 1999. — 7 For the reason for the revisions see section IX, table 2.

II. Overall monetary survey in the European monetary union

New table 12

1. The money stock and its counterparts\*)

	I. Lending to in the euro a		(non-MFIs)	- Minimum - Hill All and the Language an		II. Net claims non-euro-ar			III. Moneta financial in	ry capital for stitutions (M	rmation at n	nonetary uro area	
		Enterprises and individ		Public authorities	olekterin i vietet av statistiske er år av at statistiske av på etter at statistiske er år etter at statistiske	ervenning state of the state of	Claims	Liabil- ities to		Deposits with an agreed	Deposits at agreed	Debt securities with maturities	
Period	Total	Total	of which: Securities	Total	of which: Securities	Total	on non- euro-area residents	non-euro- area residents	Total 4	maturity of over 2 years 4	notice of over 3 months	of over 2 years (net) <sup>5</sup>	Capital and reserves
	Europea	n moneta	ary unior	ı (euro bi	llion) <sup>1</sup>								
1998 Feb.	48.4	38.0	13.3	10.4	8.8	- 6.2	26.7	32.9	22.7	8.2	- 0.2	15.6	- 0.9
Mar.	65.8	52.7	20.6	13.1	15.1	2.6	54.3	51.7	20.0	1.1	- 0.8	8.5	11.1
Apr.	54.6	42.2	8.8	12.4	7.4	- 10.4	- 38.2	- 27.8	- 4.8	1.8	- 2.0	7.2	- 11.8
May	27.5	27.6	9.2	- 0.1	11.0	10.0	1.9	- 8.1	10.0	1.4	- 1.7	3.5	6.8
June	63.6	47.0	– 13.7	16.6	10.7	8.1	22.0	13.9	26.7	– 2.6	- 1.0	15.4	14.9
July	20.5	42.1	- 1.2	- 21.7	- 17.4	- 18.1	- 38.0	- 20.0	5.2	2.2	- 1.2	5.5	- 1.4
Aug.	- 5.2	6.9	- 6.1	1.6	- 0.8	5.7	6.3	0.5	11.9	4.6	- 0.9	8.9	- 0.7
Sep.	52.4	54.9	2.6	- 2.6	- 5.8	- 28.8	- 18.1	10.6	4.6	- 4.1	- 0.6	6.1	3.2
Oct.	61.4	44.0	7.4	17.5	9.7	- 40.9	6.1	47.0	- 11.9	- 3.2	- 0.2	- 6.5	- 2.0
Nov.	62.0	53.5	8.0	8.5	1.8	- 12.7	52.4	65.1	1.2	- 4.4	0.4	7.8	- 2.5
Dec.	38.0	70.4	12.8	– 32.4	- 33.4	19.5	- 63.2	– 82.8	- 1.5	5.9	5.5	- 7.4	- 5.5
1999 Jan.	74.1	59.8	4.7	14.3	11.2	- 36.6	147.1	183.6	44.7	2.2	- 0.3	25.8	17.0
Feb.	22.8	5.0	- 0.1	17.8	15.4	- 50.2	- 102.0	- 51.8	9.8	4.5	- 0.7	10.9	- 4.8
	German	contribu	tion (eur	o billion)	2								
1998 Feb.	18.8	12.6	6.0	6.2	- 2.5	3.4	5.1	1.7	19.7	5.8	- 0.1	11.5	2.5
Mar.	27.8	20.0	11.4	7.8	10.9	0.7	13.8	13.2	8.3	1.4	- 0.8	6.4	1.4
Apr.	22.2	16.3	6.9	5.9	3.5	- 5.2	- 1.6	3.6	10.1	4.3	- 2.1	7.0	1.0
May	12.2	10.3	1.6	1.9	7.8	- 3.9	8.1	12.0	5.3	3.1	- 1.7	2.0	1.9
June	10.8	5.4	- 7.1	5.4	5.4	- 2.6	- 1.9	0.6	4.1	0.5	- 0.9	2.5	2.0
July	5.3	4.3	- 1.9	1.0	- 3.7	0.4	- 7.4	- 7.8	14.7	2.6	- 1.1	12.6	0.6
Aug.	9.6	9.3	0.3	0.3	- 2.3	12.5	19.6	7.1	- 0.6	3.5	- 1.0	- 2.8	- 0.3
Sep.	6.2	15.1	0.1	- 8.9	- 6.6	– 0.9	- 8.9	- 8.0	4.1	– 1.9	- 0.6	6.8	- 0.1
Oct.	25.3	10.6	2.2	14.6	11.3	- 21.9	- 1.5	20.4	- 7.8	- 2.1	- 0.2	- 6.8	1.2
Nov.	28.2	20.0	8.6	8.2	6.3	6.3	26.2	19.9	4.7	- 1.9	0.2	5.2	1.1
Dec.	41.2	51.7	11.4	– 10.5	- 15.5	- 6.3	- 2.8	3.5	- 1.0	- 3.4	5.4	- 3.5	0.5
1999 Jan.	14.9	12.7	- 0.9	2.2	- 5.6	- 19.3	17.4	36.7	15.7	3.5	- 0.7	12.4	0.5
Feb.	11.6	0.9	0.1	10.6	1.3	- 25.5	- 30.0	- 4.5	15.2	3.3	- 1.2	9.7	3.3
	German	contribut	tion (DM	billion) <sup>2</sup>									
1998 Feb.	36.7	24.7	11.7	12.1	- 4.9	6.6	10.0	3.4	38.5	11.3	- 0.1	22.5	4.9
Mar.	54.3	39.1	22.2	15.2	21.3	1.3	27.1	25.8	16.3	2.7	- 1.5	12.5	2.7
Apr.	43.5	31.9	13.5	11.6	6.8	- 10.2	- 3.2	7.0	19.8	8.4	- 4.2	13.6	1.9
May	23.9	20.1	3.1	3.7	15.3	- 7.7	15.9	23.5	10.4	6.2	- 3.3	3.8	3.7
June	21.1	10.6	– 13.9	10.5	10.6	- 5.0	- 3.8	1.2	8.1	0.9	- 1.7	5.0	3.9
July	10.3	8.4	- 3.8	1.9	- 7.3	0.7	- 14.4	- 15.2	28.7	5.1	- 2.2	24.6	1.2
Aug.	18.8	18.2	0.6	0.6	- 4.5	24.5	38.4	13.8	- 1.2	6.8	- 1.9	- 5.5	- 0.6
Sep.	12.1	29.6	0.3	- 17.5	- 12.9	– 1.8	- 17.4	- 15.6	8.1	– 3.8	- 1.2	13.3	- 0.3
Oct.	49.4	20.8	4.2	28.6	22.1	- 42.9	- 3.0	39.9	- 15.3	- 4.1	- 0.4	- 13.2	2.4
Nov.	55.2	39.1	16.8	16.0	12.3	12.2	51.2	39.0	9.1	- 3.7	0.5	10.2	2.2
Dec.	80.6	101.2	22.2	– 20.6	- 30.2	- 12.4	- 5.5	6.9	- 2.0	- 6.6	10.6	- 6.9	1.0
1999 Jan.	29.2	24.8	- 1.8	4.3	- 11.0	- 37.8	34.0	71.8	30.7	6.8	- 1.4	24.3	1.1
Feb.	22.6	1.8	0.1	20.8	2.5	- 49.8	- 58.6	- 8.8	29.8	6.5	- 2.3	19.0	6.5

Germany up to end of 1998. — 3 For the German contribution: up to December 1998, including loans on a trust basis and bill-based lending instead of bill holdings. — 4 For the German contribution: up to December 1998, including liabilities arising from loans on a trust basis. — 5 Excluding MFIs portfolios. — 6 For the European monetary union: including the

<sup>\*</sup> 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

# II. Overall monetary survey in the European monetary union

		VI. Money st	ock M3 (bala	nce I plus II le	ss III less IV le	ss V)						
No. one are not all the contract to contra	000000000000000000000000000000000000000		Money stock	(M2			processor and the second	g-ration interest to be a second of the second of th		Money	- disconsistent of the second	
en constant	de la constitución de la constit	The second secon		Money stock	M1	grouppetine ethicis the control the contro	Deposits	David de la constante de la co	-to-different and a second	market fund	Process   1992	
IV. De- posits of central gov- ernments	V. Other factors 6	Total	Total	Total	Currency in circu- lation 7	Overnight deposits 8	with an agreed maturity of up to 2 years 8,9	Deposits at agreed notice of up to 3 months 8,10	CONTRACTOR OF THE PROPERTY OF	certificates and money market paper (net) 5	Debt securities for up to 2 years (net) <sup>5</sup>	Period
Face or management of the control of		A CONTRACTOR OF THE CONTRACTOR					Euro	pean mo	netary un	ion (euro	billion) <sup>1</sup>	
13.6					0.4	0.7 29.3	- 3.1 - 26.8	4.1 1.8	- 4.1	1.9	4.9 6.1	1998 Feb. Mar.
2.0 - 6.5 13.1	10.4	23.6	20.6		3.0 2.4 - 1.7	12.9 17.4 48.2	14.9 - 3.3 - 18.2	1.8 4.0 – 0.3	- 5.6 1.6 - 4.8	9.8 - 1.9 - 4.5	0.9 3.3 - 0.9	Apr. May June
8.2 8.8 - 1.8	- 6.2	- 14.0		- 14.8	5.2 - 5.7 - 3.1	- 39.3 - 9.0 22.3	2.3 6.8 – 10.2	0.6 3.0 - 0.2	12.1 - 7.3 - 0.5	7.2 3.8 - 3.2	5.8 - 5.5 - 5.1	July Aug. Sep.
- 1.6 - 6.7	27.9	26.9	47.3	42.1	1.5 0.9 9.4	4.2 41.2 72.5	7.9 2.9 13.6	5.6 2.3 30.7		6.2 2.1 – 13.2	8.6 - 2.6 - 13.0	Oct. Nov. Dec.
- 6.3 8.4	- 13.9	13.0	12.9	9.9			- 11.9 - 15.5			13.0 19.7		1999 Jan. Feb.
								German	contribut	ion (euro	billion) <sup>2</sup>	
0.2								2.2		2.3		
- 0.8 0.3 0.3	3 – 1.7	4.4	3.4	- 0.4	1.0 - 0.3 - 1.1		0.0 3.6 - 6.9	0.2	-	0.7 0.6 0.7	- 0.9 0.3 0.3	May
- 0 0 0.	8.2	14.3	11.2	8.4	- 1.3	9.7	2.6	0.2	-	0.5 1.5 – 0.1	1.5	Aug.
- 0.4 0.1	4 – 1.2 2 – 0.2	29.7	27.9	26.4		25.3	- 0.1		il –	0.7 2.2 - 2.6		Nov.
0.5 0.5	9 – 18.9	- 2.1	- 0.4	- 8.9	- 2.5			2.4	0.5	2.6	2.5	
								Germa	n contribu	ition (DM	billion) <sup>2</sup>	
0. - 0.					- 1.C	5.6	- 8.3	- 1.0	-	4.4	- 0.4	Mar.
- 1. 0. 1.	6 - 3.4	8.6	6.7	7 - 0.7	- 0.6	- 0.1	7.1	0.4		1.3 1.3 1.4	0.7	May June
- 0. 0. 0.	5 16.1	1 27.9	21.9	16.4	- 2.5	19.0	5.1	0.4		1.0 3.0 - 0.2	3.0	Aug.
- 0. 0. 3.	8 – 2.4 4 – 0.3	25.0 3 58.2	2 54.€	5 51.7	2.1	49.6	- 0.2	3.1	- I	4.3	- 0.8	Nov.
1.	7 – 36.9	9 – 4.3	2 - 0.7	7 - 17.5	5.0	- 12.5						

counterparts of monetary liabilities of central governments. — 7 Excluding euro-area MFIs cash in hand denominated in euros or in currencies of the euro area. — 8 For the European monetary union: including the monetary liabilities of central governments (Post Office, Treasury). — 9 For the German

contribution: up to December 1998, with maturities of less than 4 years. — 10 In Germany, only savings deposits. — 11 For the German contribution: data collected separately only from 1999. — 12 See the note on the title page of the Statistical Section (page 1\*).

II. Overall monetary survey in the European monetary union

New table 14

2. Consolidated balance sheet of monetary financial institutions (MFIs) \*

		Assets 3									
		Lending to no	n-banks (non-l	MFls) in the eu	ro area 4						
			Enterprises an	d individuals			Public authori	ties			
100											
										Claims	
a	Total assets ₃ or				Debt	Shares and other			Debt	on non- euro-area	Other
-	liabilities 5	Total	Total		securities 5	equities	Total	Advances 4	securities 6	residents	assets
	•	monetary	union (eui	ro billion)							
1998 Jan. Feb.	10,149.9 10,231.2	7,173.5 7,220.8	5,162.7 5,199.7	4,721.0 4,744.7	190.4 195.6	251.4 259.4	2,010.8 2,021.1	827.6 829.1	1,183.2 1,192.0	1,891.6 1,918.2	1,084.8 1,092.2
Mar.	10,327.5	7,286.8	5,251.7	4,776.0	199.8	275.9	2,035.1	827.2	1,207.9	1,970.7	1,070.0
Apr. May	10,364.6 10,419.5	7,338.3 7,365.0	5,291.3 5,318.2	4,806.9 4,824.7	199.9 203.5	284.4 290.0	2,047.1 2,046.8	832.1 820.9	1,215.0 1,225.9	1,932.4 1,934.6	1,093.8 1,119.9
June July	10,389.5 10,412.5	7,422.4	5,358.2	4,876.6	196.4	285.3	2,064.2	826.9	1,237.3	1,963.3	1,003.8
Aug.	10,409.0	7,442.3 7,437.4	5,396.7 5,390.0	4,917.2 4,916.7	201.8 202.4	277.7 270.9	2,045.6 2,047.3	822.5 825.0	1,223.1 1,222.4	1,925.2 1,931.5	1,045.0 1,040.2
Sep. Oct.	10,447.5 10,510.5	7,485.2 7,539.7	5,440.5 5,479.5	4,964.8 4,999.1	202.9 206.6	272.8 273.8	2,044.7 2,060.2	828.0 833.9	1,216.7	1,912.9	1,049.4
Nov. Dec.	10,640.1 10,597.4	7,601.0 7,633.3	5,532.2 5,597.9	5,043.7 5,096.6	201.3 194.9	287.2	2,068.8	840.7	1,226.3 1,228.1	1,919.1 1,971.2	1,051.7 1,067.9
1999 Jan.	10,978.6	7,687.0	5,644.3	5,104.3	207.1	306.5 333.0	2,035.4 2,042.7	841.6 838.7	1,193.7 1,204.0	1,905.0 2,053.8	1,059.1 1,237.8
Feb.	10,914.6	7,713.0	5,652.1	5,112.0	201.8	338.4	2,060.8	841.2	1,219.6	1,951.9	1,249.8
-	German c	ontributio	n (euro bill	ion) <sup>2</sup>							
1998 Jan. Feb.	3,418.7   3,440.5	2,786.6	2,093.4	1,928.5	41.9	123.0	693.2	485.6	207.6	484.9	147.2
Mar.	3,440.3	2,805.4 2,833.2	2,106.0 2,126.0	1,935.1 1,943.8	42.1 42.1	128.8 140.1	699.4 707.1	494.3 491.2	205.1 215.9	490.0 503.8	145.1 143.3
Apr. May	3,500.6 3,527.8	2,855.4 2,867.6	2,142.3 2,152.6	1,953.2 1,961.9	44.1 44.6	145.0 146.1	713.1 715.0	493.6 487.7	219.4 227.2	502.2	143.0
June	3,542.0	2,875.0	2,154.0	1,968.8	43.4	141.9	721.0	487.7	233.3	510.3 514.4	149.9 152.7
July Aug.	3,544.1 3,574.7	2,878.7 2,888.3	2,156.8 2,166.1	1,974.3 1,983.3	42.0 43.2	140.5 139.7	721.9 722.2	492.4 495.0	229.6 227.2	507.1 526.7	158.3 159.7
Sep. Oct.	3,575.9 3,602.0	2,894.5 2,919.8	2,181.2	1,998.2	43.3	139.7	713.3	492.6	220.7	517.8	163.6
Nov.	3,658.9	2,948.0	2,191.8 2,211.8	2,006.7 2,018.1	44.7 43.3	140.4 150.4	728.0 736.1	496.0 497.9	232.0 238.3	516.3 542.1	166.0 168.8
Dec. 1999 Jan.	3,695.0 3,685.9	2,987.3 2,953.1	2,261.7 2.250.5	2,056.7 2,013.7	40.3 48.4	164.8 188.4	725.6 702.6	502.8 502.6	222.8 200.0	539.5	168.2
Feb.	3,668.4	2,964.6	2,251.4	2,014.5	46.7	190.2	713.2	512.0	201.2	560.9 530.8	171.9 173.0
	German co	ontribution	n (DM billio	on) <sup>2</sup>				·	•	•	'
1998 Jan. Feb.	6,686.4	5,450.1	4,094.4	3,771.8	82.0	240.6	1,355.8	949.8	406.0	948.4	287.9
Mar.	6,729.0 6,806.9	5,486.9 5,541.2	4,119.0 4,158.2	3,784.8 3,801.7	82.4 82.3	251.8 274.1	1,367.8 1,383.0	966.8 960.7	401.1 422.4	958.4 985.4	283.8 280.3
Apr. May	6,846.5 6,899.8	5,584.7 5,608.5	4,190.0 4,210.2	3,820.2 3,837.2	86.2 87.1	283.6 285.8	1,394.6 1,398.4	965.5	429.2	982.3	279.6
June	6,927.6	5,623.0	4,212.9	3,850.6	84.8	277.5	1,410.1	953.9 953.8	444.5 456.3	998.1 1,006.0	293.2 298.6
July Aug.	6,931.7 6,991.5	5,630.2 5,649.1	4,218.3 4,236.5	3,861.3 3,878.9	82.2 84.4	274.7 273.1	1,412.0 1,412.6	963.0 968.1	449.0 444.5	991.8 1,030.1	309.7 312.3
Sep.	6,993.9	5,661.2	4,266.0	3,908.2	84.7	273.1	1,395.1	963.5	431.6	1,012.8	320.0
Oct. Nov.	7,044.9 7,156.2	5,710.6 5,765.7	4,286.8 4,325.9	3,924.8 3,947.1	87.4 84.6	274.7 294.2	1,423.7 1,439.8	970.0 973.7	453.7 466.0	1,009.7 1,060.3	324.6 330.1
Dec. 1999 Jan.	7,226.7	5,842.6 5,775.7	4,423.5 4,401.6	4,022.5 3.938.4	78.7 94.7	322.3	1,419.1	983.4	435.7	1,055.1	329.0
Feb.	7,174.8	5,798.2	4,401.6	3,940.1	94.71	368.5 371.9	1,374.1 1,394.8	983.0 1,001.4	391.1 393.4	1,097.0 1,038.2	336.2 338.3

December 1998, including trust funds and bill-based lending instead of bill holdings. — 4 For the German contribution: up to December 1998, including loans on a trust basis and bill-based lending instead of bill holdings. — 5 Including money market paper of enterprises. — 6 Including Treasury bills and other money market paper of public authorities. — 7 For the German

<sup>\*</sup> 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 For the German contribution: up to

# II. Overall monetary survey in the European monetary union

Liabilities 7				**************************************						
	Deposits of nor	n-banks (non-MF	ls) in the euro a	rea <sup>9</sup>			entropolitique de la Materia		977 - SALLES	
			Enterprises and	individuals		-d-c	CONTRACTOR OF THE STATE OF THE	-10-11-11-11-11-11-11-11-11-11-11-11-11-		
	radional descriptions				With agreed maturities of	general and a second	gge and leaken, mile Commence	At agreed notice of 13		
Currency	entrantina remarcia e de d	of which:			up to	over 1 year up to	over	up to	over	
circulation 8	Total	in euros 10	Total	Overnight	1 year		2 years 9, 12	3 months	3 months	Period
						Europea	in monetary	union (eur	o billion) '	
311.4 311.7 311.8	4,589.2 4,614.4 4,598.1	4,295.5 4,304.2 4,310.7	4,306.2 4,313.5 4,327.0	1,135.4 1,134.4 1,169.6	761.7 765.9 744.6	113.0 105.7 102.6	958.8 967.0 968.4	1,120.7 1,124.3 1,126.3	216.5 216.3 215.5	1998 Jan. Feb. Mar.
314.8 317.2 315.5	4,628.7 4,640.6 4,680.2	4,338.5 4,348.4 4,376.7	4,353.5 4,368.0 4,396.1	1,181.5 1,200.4 1,248.3	761.3 757.1 743.1	99.6 96.4 94.0	969.8 971.1 969.0	1,127.9 1,131.2 1,130.8	213.5 211.8 210.8	Apr. May June
320.6 314.9 311.9	4,650.7 4,664.0 4,665.8	4,342.6 4,343.6 4,353.0	4,357.2 4,360.7 4,364.6	1,208.6 1,200.8 1,221.7	743.9 750.5 741.3	93.2 91.7 89.9	970.6 975.2 970.1	1,131.3 1,133.7 1,133.4	209.6 208.7 208.1	July Aug. Sep.
313.4 314.3 323.7		4,359.4 4,400.5 4,529.7	4,371.1 4,410.6 4,528.9	1,225.2 1,263.6 1,334.4	744.8 751.4 760.5	89.8 86.1 83.1	966.3 962.0 971.5	1,137.0 1,139.3 1,166.0	207.9 208.3 213.4	Oct. Nov. Dec. 1999 Jan.
313.6 309.8		4,536.6 4,512.7	4,566.1 4,539.9	1,355.8 1,329.3	766.6 754.5	74.6 72.4	1	1	213.1 212.4	Feb.
						Ge	rman contr	ibution (eur	o billion) <sup>2</sup>	
123.6 124.3 123.8	1,860.2		1,718.9	311.0 312.6 315.7	192.3 191.0 187.7	10.9 11.2 11.5	505.8	482.8	215.5 215.5 214.7	1998 Jan. Feb. Mar.
124.8 124.4 123.3	1,871.2	1,786.0		321.9 321.9 330.1	188.5 188.6 182.5	11.5 11.7 11.8	514.9	480.8	212.5 210.8 210.0	Apr. May June
124.5 123.2 121.6	1,885.4			323.6 331.9 335.6	186.9 187.3 185.5	12.0 12.3 12.4	521.1 519.2	480.4 480.2	208.8 207.9 207.3	July Aug. Sep.
121.9 123.0 123.7	1,916.4	1,830.1	1,772.4 1,820.2	1	187.9 186.0 203.1	12.9 13.2 13.3	515.4 515.9	483.7 499.3	207.1 207.3 212.3 211.6	Oct. Nov. Dec.
120.4 120.7					210.6 209.3	1	528.1	503.6	210.5	Feb.
						G	ierman cont	tribution (DI	M billion) <sup>2</sup>	500
241.7 243.1 242.1	3,638.2	3,473.2	3,361.8	611.5	373.6	21.8	989.2 992.1	944.3 943.2	421.4 419.9	1998 Jan. Feb. Mar.
244.0 243.4 241.2	3,659.7	3,493.2	3,382.1	629.5		22.8	1,007.0	941.5 940.4	412.4 410.7	Apr. May June
243.6 241.0 237.8	3,657.6 3,687.5	3,490.3 3,517.4	3,404.9	649.1	366.3	24.1	1,019.2	939.7 939.2	406.5 405.4	July Aug. Sep.
238.5 240.6 242.0	3,748.2	3,579.4	3,466.4		363.7	25.9	1,008.1 1,009.1	946.0 976.5	405.4 415.3	Oct. Nov. Dec.
235.4 236.0										

contribution: up to December 1998, including liabilities incurred in the banks own name but on behalf of third parties and including endorsement liabilities on rediscounted bills. — 8 Excluding the cash in hand (in euros) of MFIs. — 9 For the German contribution: up to December 1998, including liabilities arising from loans on a trust basis. — 10 Excluding central

governments deposits. — 11 For the German contribution: up to December 1998, with maturities of 1 year to less than 4 years. — 12 For the German contribution: up to December 1998, with maturities of 4 years and more. — 13 In Germany, only saving deposits. — 14 See the note on the title page of the Statistical Section (page 1\*).

II. Overall monetary survey in the European monetary union

New table 16

2. Consolidated balance sheet of monetary financial institutions (MFIs) \* (cont'd)

	Liabilities (co	nt'd)	Million transmissioner transmissioner mendetationer er höllings er en manage			and the second state of the second	***************************************				
	Deposits of n	on-banks (non-	-MFIs) in the eu	ıro area (cont'o	<del>]</del> 3		***************************************		***************************************		
	Public author	ities						***************************************	Repo transact		
		Other public	authorities						with counters in the euro ar		
		- Complemental Association (Control of Control of Contr	RRADO PARTICIONAL	With agreed maturities of		gers	At agreed notice of 6				Money market
	Central	<del>(10.00-10.10.10.10.10.10.10.10.10.10.10.10.10.1</del>		up to	over 1 year up to	over	up to	over		of which: Enterprises	fund certificates and money
Period	governments		Overnight	1 year	2 years 4	2 years 3ü,5	3 months	3 months	Total	and individuals	market paper (net) 8
	Europear	n monetary	union (eu	ro billion)	1						
1998 Jan. Feb. Mar.	146.3 160.0 139.6	136.7 140.8 131.5	44.0 48.6 41.2	31.6 31.4 29.5	0.9 0.9 0.8	55.6 55.5 55.4	3.4 3.3 3.4	1.2 1.2 1.2	217.1 216.3 212.3	214.5 213.3 209.8	308.0 309.8 311.2
Apr. May June	141.6 135.1 148.2	133.7 137.5 135.9	43.3 43.1 43.2	29.6 33.4 32.1	0.8 0.8 0.7	55.3 55.2 54.9	3.4 3.7 3.7	1.2 1.2 1.2	206.6 208.2 203.4	203.8 205.4 200.7	320.9 319.4 315.1
July Aug. Sep.	156.4 165.2 163.3	137.1 138.2 137.8	42.4 41.7 42.8	33.6 35.1 33.7	0.8 0.9 0.9	55.2 55.3 55.4	3.8 3.9 3.9	1.2 1.2 1.2	215.5 208.2 207.7	212.4 204.9 204.4	322.3 326.2 322.5
Oct. Nov. Dec.	161.7 155.0 156.2	137.9 142.8 144.4	44.3 47.9 47.6	32.7 33.9 39.6	1.0 1.0 0.9	55.0 55.2 51.3	3.7 3.7 3.7	1.2 1.2 1.2	218.3 198.4 178.0	213.3 195.5	328.5 331.8
1999 Jan. Feb.	137.9 146.2	122.4 122.3	50.5 50.6	38.8 38.8	0.8 0.9	27.2 26.9	4.0 3.8	1.3 1.3	176.0 175.1 187.5	175.8 172.5 184.1	314.0 350.2 370.6
	German c	ontributio	n (euro bill	ion) <sup>2</sup>		·		,	•		•
1998 Jan. Feb. Mar.	55.0 55.2 55.0	84.4 86.2 84.7	8.7 10.2 10.0	19.0 19.3 18.2	0.3 0.3 0.3	52.7 52.7 52.6	2.4 2.4 2.5	1.2 1.2 1.2	<u>-</u>	_ _	28.3 30.6
Apr. May June	54.2 54.5 55.3	83.7 87.4 86.3	10.0 10.0 10.1	17.2 20.6 19.8	0.3 0.3 0.3	52.5 52.4 52.2	2.4 2.7 2.7	1.2 1.2 1.2 1.2	- - - -	- - -	31.3 32.0 32.7
July Aug. Sep.	55.1 55.4 55.5	85.6 89.1 86.9	8.9 10.3 9.7	19.8 21.6 20.2	0.4 0.4 0.4	52.5 52.7 52.6	2.8 2.8 2.8 2.8	1.2 1.2 1.2 1.2	- - - -	 - -	33.3 33.8 35.3 35.2
Oct. Nov. Dec.	55.1 55.3 56.9	85.7 88.7 92.3	10.3 11.6 13.4	19.0 20.5 26.2	0.4 0.4 0.4	52.2 52.5 48.6	2.6 2.5 2.6	1.2 1.2 1.2 1.2	- - - -	- - -	35.9 38.2
1999 Jan. Feb.	45.8 46.7	66.1 67.9	11.4 12.9	26.2 26.8	0.3 0.3	24.3 24.0	2.7 2.8	1.3 1.2	1.5 2.0	1.5 2.0	35.5 34.4 37.0
	German c	ontributio	n (DM billio	on) <sup>2</sup>					·	•	,
1998 Jan. Feb. Mar.	107.5 107.9 107.6	165.0 168.5 165.8	17.0 20.0 19.6	37.1 37.8 35.5	0.6 0.6 0.7	103.1 103.0 102.8	4.7 4.7 4.8	2.4 2.3 2.4	-   -	- <u> </u> - <u> </u>	55.4 59.8
Apr. May June	106.1 106.6 108.2	163.6 170.9 168.8	19.7 19.6 19.7	33.7 40.4 38.7	0.7 0.7 0.7	102.6 102.5 102.2	4.7 5.3	2.4 2.4	- - - -	- - -	61.3 62.6 63.9
July Aug. Sep.	107.8 108.4 108.5	167.5 174.2 169.9	17.5 20.2 18.9	38.7 42.3 39.5	0.7 0.7 0.7 0.7	102.7 103.1	5.2 5.4 5.5	2.4 2.4 2.4	- - -	- - - -	65.2 66.1 69.1
Oct. Nov. Dec.	107.8 108.2 111.3	167.6 173.5 180.6	20.1 22.8	37.2 40.2	0.7 0.7	102.9 102.2 102.6	5.4 5.1 4.9	2.4 2.4 2.4	-	- - - -	68.9 70.3 74.7
1999 Jan. Feb.	89.6 91.3	129.3 132.9	26.1 22.2 25.2	51.2 51.2 52.4	0.8 0.5 0.5	95.0 47.5 46.9	5.0 5.3 5.4	2.4 2.5 2.4	2.9 4.0	- 2.9 4.0	69.5 67.4 72.4

<sup>\*</sup> 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 For the German contribution: up to December 1998, including liabilities arising from loans on a trust basis. —

<sup>4</sup> For the German contribution: up to December 1998, with maturities of 1 year to less than 4 years. — 5 For the German contribution: up to December 1998, with maturities of 4 years and more. — 6 In Germany: only savings deposits. — 7 For the German contribution: data collected separately from 1999 only; up to December 1998, included in the deposits with agreed maturities of up to 1 year. — 8 Excluding holdings of MFIs. — 9 In Germany, bank debt securities with maturities of up to one year count as money

# II. Overall monetary survey in the European monetary union

VALCOHORO COLORO COLORO CONTRACTORIO		CONTRACTOR OF STREET	o ne manero meco e e e e e e e e e e e e e e e e e e	## # # # # # # # # # # # # # # # # # #	ung a gadinida a ag 22 december 100 con <del>dec</del> ember 100 con december 100 co	00000000000000000000000000000000000000	anderstand and the second and the se		Memo iten	<b>1</b>	***************************************			
		CARROLANA RECORDONAR PRESENTANTO ESCAPACIONES		\$	The state of the s	yearcon			Monetary	aggregates				
Debt secui	rities issued	(net) 8	water reliablishments without an about the se	HE DEFAULT KNOWN TO STREET			TOTAL PROPERTY AND A STATE OF THE STATE OF T		-			And the second s		
	of which: denom- inated	With matu	over 1 year up to	over	Liabilities to non- euro-area residents	Capital and	Excess of inter-MFI	Other				Monetary capital formation	(Post	
Total	in euros	1 year	2 years	2 years	10	reserves	liabilities	liabilities	M1 11	M2 12	M3 13	14	Treasury)15	Period
								E	uropean	moneta	iry unior	າ (euro b	illion) <sup>1</sup>	
1,311.7 1,331.6 1,346.2		17.6 19.2 21.1	55.2 58.4 62.6	1,239.0 1,254.0 1,262.5	1,484.9	695.6 694.5 703.7	- 74.8 - 62.9 - 35.8	1,339.6 1,330.9 1,343.5	1,561.9 1,562.8 1,592.5	3,647.3 3,648.9 3,654.0	4,252.5 4,261.2	3,188.5 3,206.7	125.2 122.8 124.3	1998 Jan. Feb. Mar.
1,350.6 1,355.0 1,369.1	1,167.7	19.9 21.6 16.7	64.5 65.9 70.0	1,266.2 1,267.5 1,282.5	1,501.2	691.8 698.8 711.4	- 50.8 - 28.2 - 50.1	1,393.2 1,407.3 1,327.9	1,607.6 1,627.1 1,674.0	3,684.8 3,704.6 3,733.6	4,296.7 4,319.7 4,338.8	l .	122.6 121.3 122.1	Apr. May June
1,377.5 1,381.3 1,377.0	1,192.8	22.3 19.7 21.6	70.0 67.0 59.6	1,285.2 1,294.6 1,295.8	1,496.9 1,497.4 1,508.1	711.2 710.1 713.2	- 34.6 - 35.1 - 17.6	1,352.4 1,341.9 1,359.1	1,639.2 1,624.4 1,641.9	3,700.7 3,695.6 3,700.4	4,330.8 4,316.8 4,311.8	\$	122.4 122.2 120.9	July Aug. Sep.
1,378.6 1,384.8 1,365.2	1,200.2	23.6 23.5 19.1	61.0 58.4 49.7	1,294.1 1,302.9 1,296.3	1,555.0 1,620.1 1,534.8	711.5 708.8 702.6	- 22.2 8.0 37.3	1,356.6 1,365.4 1,312.3	1,647.4 1,690.4 1,771.8	3,711.9 3,761.4 3,885.7	4,343.3 4,373.4 4,446.6		119.9 120.3 126.1	Oct. Nov. Dec.
1,390.5 1,407.0		22.3 22.3	32.0 34.8	1,336.2 1,349.9		761.9 757.2	- 17.3 8.2	1,475.5 1,415.1	ŧ	3,910.5 3,867.4	4,490.1 4,482.5	eg.	1	1999 Jan. Feb.
									Germ	any con	tributior	n (euro b	illion) <sup>2</sup>	
618.1 630.8 637.0	553.3		17.3 18.5 18.3	600.8 612.3 618.7	318.2 320.0 333.2	206.1 208.5 209.9	- 8.1 - 12.1 - 1.2	282.8 278.2 287.7	443.2 447.1 449.5	1,148.9 1,154.2 1,151.8	1,194.5 1,203.3 1,201.4	1,596.0		1998 Jan. Feb. Mar.
643.0 645.3 647.7	560.8		17.3 17.6 17.9	625.7 627.6 629.7	336.8 348.8 351.3	210.9 212.7 214.7	11.8 5.5 16.4	299.4 298.3 315.9	456.7 456.4 463.5	1,158.3 1,161.7 1,161.4	1,207.6 1,212.0 1,212.6	1,619.7	— — — — — — — — — — — — — — — — — — —	Apr. May June
659.8 658.6 665.1	573.2		19.5 19.1 18.8	640.4 639.5 646.3	343.5 350.6 342.6	215.4 215.1 214.9	- 15.9 - 17.1 - 13.6	312.9 323.7 327.5	457.0 465.4 466.9	1,159.1 1,170.3 1,168.4	1,212.4 1,224.7 1,222.4	1,637.5		July Aug. Sep.
659.0 663.8 660.5	579.1		19.4 19.0 19.2	639.6 644.8 641.3	363.0 382.9 386.4	216.1 217.2 217.7	- 14.5 - 3.4 - 6.7	329.5 320.8 308.1	474.9 501.4 513.4	1,179.8 1,207.7 1,258.2	1,235.2 1,264.9 1,313.0	1,638.4	1 -	Oct. Nov. Dec.
674.7 687.0			9.7 12.2	665.0 674.8		243.6 246.9			Į.		1	1,685.6	4	1999 Jan. Feb.
									Geri	many co	ntributio	on (DM b	oillion) <sup>2</sup>	and the second s
1,208.9 1,233.7 1,245.8	1,082.1	-	33.9 36.1 35.7	1,175.1 1,197.6 1,210.1	625.8	403.0 407.9 410.5	- 23.6	544.1	866.9 874.5 879.2	2,247.0 2,257.5 2,252.8	2,353.4 2,349.8	3,121.4 3,137.7		1998 Jan. Feb. Mar.
1,257.6 1,262.1 1,266.7	1,096.8	-	33.9 34.5 35.1	1,223.7 1,227.6 1,231.7		412.4 416.1 420.0	- 10.8	585.5 583.4 617.8	892.6	2,265.4 2,272.2 2,271.4	2,361.9 2,370.5 2,371.6	3,167.9 3,175.1	Pro-racessassas a company	Apr. May June
1,290.5 1,288.0 1,300.8	1,121.1	- -	38.1 37.3 36.7	1,252.5 1,250.8 1,264.1	685.6	421.3 420.7 420.4	- 33.5	612.0 633.0 640.5	910.3	2,267.0 2,289.0 2,285.1	2,371.2 2,395.3 2,390.7	3,202.6	-	July Aug. Sep.
1,288.9 1,298.3 1,291.9	1,132.6	-	38.0 37.3 37.6	1,250.9 1,261.0 1,254.3	748.8	422.8 424.9 425.9	- 6.6	627.4	980.6	2,307.4 2,362.0 2,460.8		3,204.5	-	Oct. Nov. Dec.
1,319.6 1,343.7	1,226.8	_	18.9 23.8	1,300.7 1,319.9		476.4 483.0				2,450.0 2,455.4				1999 Jan. Feb.

market paper. — 10 Excluding liabilities arising from securities issued. — 11 Currency in circulation, overnight deposits (excluding central governments' deposits), and (for EMU) central governments' monetary liabilities, which are not included in the consolidated balance sheet. — 12 M1 plus deposits with agreed maturities of up to 2 years and at agreed notice of up to 3 months (excluding central governments' deposits). —

<sup>13</sup> M2 plus repo transactions, money market fund certificates, money market paper and debt securities up to 2 years. — 14 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. — 15 Non-existent in Germany. — 16 See the note on the title page of the Statistical Section (page 1\*).

III. Consolidated financial statement of the Eurosystem

New Table 3

### 1. Assets \*

Euro	bil	llior

			Claims on non-eu in foreign curren	iro area residents cy			Claims on non-e residents in euro		
On reporting date	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 in foreign currency	Total	Balances with banks, security investments and loans 2	Claims arising from the credit facility under the ERM II
	Eurosystem	1							
1999 Jan. Feb. Mar.	694,6 692,6 699,4	99,6 99,6 99,6	233,0 228,8 228,5	29,1 26,0 26,6	203,9 202,8 202,0	7,4 9,3 8,9	9,1 4,4 3,8	9,1 4,4 3,8	- - -
1999 Jan. 1 8 15 22 29	697,2 685,1 687,0 667,6 694,6	99,6 99,6 99,6 99,6 99,6	230,3 234,1 235,4 235,4 233,0	29,5 29,4 29,2 29,1 29,1	200,8 204,8 206,2 206,3 203,9	6,7 5,3 6,5 7,3 7,4	8,9 8,8 8,1 7,2 9,1	8,9 8,8 8,1 7,2 9,1	- - - -
Feb. 5 12 19 26	687,3 680,2 681,9 692,6	99,6 99,6 99,6 99,6	231,7 231,4 232,2 228,8	27,0 27,0 27,0 27,0 26,0	204,7 204,4 205,2 202,8	7,5 8,1 8,4 9,3	6,7 6,2 5,3 4,4	6,7 6,2 5,3 4,4	- - - -
Mar. 5 12 19 26	698,1 693,1 668,3 699,4	99,6 99,6 99,6 99,6	228,5 227,4 228,2	26,7 26,6 26,5	201,9 200,9 201,6	8,6 9,8 9,0	4,9 4,0 4,4 3,8	4,9 4,0 4,4	
	Deutsche Bu	ındesbank							
1999 Jan. Feb. Mar.	221,8 214,8 215,2	27,5 27,5 27,5	54,0 53,0 53,0	8,5 7,1 7,1	45,6 45,9 45,9	- - -	4,5 3,7 13,7	4,5 3,7 13,7	  - 
1999 Jan. 1 8 15 22 29	214,7 230,6 238,5 219,0 221,8	29,3 27,5 27,5 27,5 27,5 27,5	64,6 54,2 54,3 54,2 54,0	8,5 8,5 8,5 8,5 8,5	56,2 45,8 45,8 45,7 45,6	_ _ _	0,1 1,7 2,2 3,9 4,5	0,1 1,7 2,2 3,9 4,5	- - - -
Feb. 5 12 19 26	218,2 217,2 210,6 214,8	27,5 27,5 27,5 27,5 27,5	52,9 52,9 53,0 53,0	7,1 7,2 7,2 7,1	45,8 45,8 45,9 45,9	 - 	10,1 15,4 19,8 3,7	10,1 15,4 19,8 3,7	- - - -
Mar. 5 12 19 26	220,4 210,8 207,4 215,2	27,5 27,5 27,5 27,5 27,5	53,2 53,1 53,1 53,0	7,1 7,1 7,1 7,1	46,0 45,9 45,9 45,9	- - -	2,1 9,1 14,2 13,7	2,1 9,1 14,2 13,7	

financial instruments are valued at market rates at the end of the quarter. Resulting changes in relation to the preceding reporting date in excess of EUR 500 million are reported in footnotes. — 1 Source: ECB. —

<sup>\*</sup> 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

## III. Consolidated financial statement of the Eurosystem

Lending to	financial sector o	counterparties	of euro area in	euro					galadi, oo o o o oo			
Total	Main refinancing operations	Longer-term refinancing operations	Fine-tuning reverse operations	Structural reverse operations	Marginal lending facility	Credits related to margin calls	Other lending	Securities of euro area residents in euro	General government debt in euro Eur	Other assets	On reporting date	g
182 186	4 139,9	45,0	_	-	8,7 0,4	0,1	1,0	22,1 24,3	60,2 60,2	80,4 79,6	1999 Jan. Feb. Mar.	
192 185 174 173 155	1 144,9 8 145,1 1 122,9 3 106,9	24,7 22,2 45,0 45,0	6,7 0,0 -		0,2 6,4 5,4 2,7 2,1	0,1 0,0 0,0 0,1 0,1	2,5 1,2	26,1 21,7 20,9 21,3 21,8	60,1 60,1 60,1 60,2	81,6 82,7 80,9	1999 Jan.	1 8 15 22
182 177 173 173 186	7 131,0 2 126,9 5 126,8	45,0 45,0 45,0			8,7 0,6 0,2 0,6 0,4	0,1 0,1 0,1 0,1 0,1 0,1	1,1 1,0 1,1 1,0 1,0 1,0 1,0	22,1 22,5 23,3 23,9 24,3	60,2 60,2 60,2 60,2 60,2		Feb.	29 5 12 19 26
190 188 165 192	9 144,8 0 141,8 3 119,0	45,0 45,0 45,0			0,1 0,2 0,2	0,1 0,1 0,1 0,1	0,9 0,9 1,0 0,9	24,6 25,4 25,0 26,1	60,2	78,6 76,6	2	5 12 19 26
								D€	eutsche Bui		St. antibliocoffstin	
95 92 99	4 65,9	26,2	_	-	0,4 0,3 0,2	-	0,0 0,0 0,0		4,4 4,4 4,4	33,8	1999 Jan. Feb. Mar.	
110 111 96 86 95	6 86,1 9 69,4 5 60,9	22,2 23,9 23,9		The second secon	2,6 3,1 2,3 1,7 0,4		0,0		4,4 4,4 4,4 4,4 4,4	31,2 53,2 42,6	0.000	1 8 15 22 29
90 84 82 92	.6 66,1 .4 60,3 .5 58,0	23,9 23,9 23,9		— — — — — — — — — — — — — — — — — — —	0,6 0,2 0,5 0,3	-	0,0	- - -	4,4 4,4 4,4 4,4	32,6 23,3		5 12 19 26
92 91 86 99	.2 64,9 .8 60,4	26,2 26,2	_	1	0,0 0,2 0,2 0,2	-	0,0		4,4 4,4 4,4 4,4	21,4		5 12 19 26

<sup>2</sup> Whereas the consolidated financial statement of the Eurosystem shows the bilateral TARGET balances of the individual non–Eurosystem NCBs as an aggregated (net) figure, the Bundesbank statement reports gross figures for

# III. Consolidated financial statement of the Eurosystem

New Table 4

### 2. Liabilities \*

Euro billion

			Liabilities to in the euro a		or counterpa	rties				Liabilities to other euro a residents in	геа	
On reporting date	Total liabilities	Banknotes in cir- culation	Total	Current accounts (covering the minimum reserve system)	Deposit facility	Fixed-term deposits	Fine- tuning reverse operations	Deposits related to margin calls	Debt certifi- cates issued	Total	General government	Other liabilities
	Eurosyst	em ¹										
1999 Jan. Feb. Mar.	694,6 692,6 699,4	326,5 325,2 327,1	85,4 100,0 100,4	84,6 99,3 100,3	0,7 0,7 0,1	- -	_ _	0,0 0,0 0,0	11,7 11,7 11,7	56,7 62,1 64,3	52,4 57,4 60,7	4,3 4,7 3,6
1999 Jan. 1 8 15 22 29	697,2 685,1 687,0 667,6 694,6	341,7 336,6 330,8 326,6 326,5	87,3 106,0 109,9 88,0 85,4	84,4 102,5 107,8 87,7 84,6	1,0 3,5 2,1 0,2 0,7	1,9 - - -	- - -	0,0 0,0 0,0 0,0 0,0	13,8 11,7 11,7 11,7 11,7	61,5 32,2 33,0 43,4 56,7	58,6 28,0 29,1 39,4 52,4	2,9 4,2 3,9 4,0 4,3
Feb. 5 12 19 26	687,3 680,2 681,9 692,6	328,3 327,3 324,5 325,2	109,1 106,0 97,3 100,0	108,1 105,8 95,4 99,3	1,0 0,2 1,9 0,7	- - -	- - -	0,0 0,0 0,0 0,0	11,7 11,7 11,7 11,7	44,0 43,6 54,9 62,1	40,1 39,4 50,7 57,4	4,0 4,2 4,2 4,7
Mar. 5 12 19 26	698,1 693,1 668,3 699,4	328,8 328,6 327,3 327,1	115,2 108,1 87,9 100,4	114,9 107,6 84,4 100,3	0,2 0,4 3,4 0,1	- - - -	- - -	0,1 0,0 0,0 0,0	11,7 11,7 11,7 11,7	49,7 53,5 49,5 64,3	45,3 49,6 46,0 60,7	4,4 3,9 3,5 3,6
		e Bundesb										
1999 Jan. Feb. Mar.	221,8 214,8 215,2	126,0 125,9 126,7	31,1 28,2 28,6	30,4 27,6 28,5	0,7 0,5 0,1	- - -	- - -	- - -	- - -	0,8 0,5 0,4	0,1 0,1 0,1	0,7 0,4 0,3
1999 Jan. 1 8 15 22 29	214,7 230,6 238,5 219,0 221,8	130,6 129,2 127,7 126,5 126,0	29,3 24,0 34,1 23,5 31,1	29,3 22,2 32,2 23,3 30,4	- 1,8 1,9 0,2 0,7	- - - -	- - - -	- - - -	- - - -	0,9 0,5 0,5 0,4 0,8	0,1 0,1 0,1 0,1 0,1	0,7 0,3 0,4 0,4 0,7
Feb. 5 12 19 26	218,2 217,2 210,6 214,8	127,1 126,9 126,0 125,9	36,0 36,0 30,9 28,2	35,0 35,9 29,2 27,6	1,0 0,1 1,7 0,5	- - -	_ _ _	- - -	- - - -	0,5 0,6 0,4 0,5	0,1 0,2 0,1 0,1	0,3 0,4 0,3 0,4
Mar. 5 12 19 26	220,4 210,8 207,4 215,2	127,4 127,3 127,0 126,7	36,4 29,3 26,4 28,6	36,3 29,2 25,8 28,5	0,1 0,1 0,6 0,1	- - -	  	_ _ _	- - -	0,5 0,5 0,4 0,4	0,1 0,2 0,1 0,1	0,4 0,3 0,3 0,3

financial instruments are valued at market rates at the end of the quarter. Resulting changes in relation to the preceding reporting date in excess of EUR 500 million are reported in footnotes. — 1 Source: ECB. —

<sup>\*</sup> 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

## III. Consolidated financial statement of the Eurosystem

A CONTRACTOR OF THE CONTRACTOR		Liabilities to non- residents in foreign currency	euro area					marina maketiken katusakan katusakan katusakan katusakan katusakan katusakan katusakan katusakan katusakan kat		
Liabilities to non-euro area residents in euro 2	Liabilities to euro area residents in foreign currency	Total	Deposits, balances and other liabilities	Liabilities arising from the credit facility under the ERM II	Counterpart of special drawing rights allocated by the IMF	Other liabilities	Revaluation accounts	Capital and reserves urosystem <sup>1</sup>	On reportin <u>c</u> date	3
14,0	0,8	6,4	6,4	_ _	5,8 5,8 5,8 5,8	77,8 62,1 62,9		51,3 51,3	1999 Jan. Feb. Mar.	
7,7 10,0 11,5 10,9 9,1	0,9 0,6 1,1 1,5 1,3	7,8 3,3 3,9 4,1 4,3	7,8 3,3 3,9 4,1 4,3	- - - -	5,8 5,8 5,8 5,8	60,7 64,0 68,4 66,5	59,9 59,7 59,7 59,7 59,7 59,7	52,6 52,8 51,2 51,3	1999 Jan.	1 8 15 22 29
14,0 8,2 7,8 8,1 7,7	1,6 0,8 0,7 0,7 0,7 0,8	4,3 5,8 6,4 7,2 6,4	4,3 5,8 6,4 7,2 6,4	- - - -	5,8 5,8 5,8 5,8 5,8 5,8	62,7 60,0 60,9	59,7 59,7 59,7 59,7 59,7	51,3 51,3 51,3	Feb.	5 12 19 26
7,1 7,8 8,1 7,7	0,8 0,8 0,9 0,9	6,9 6,9 6,7 7,8	6,7	- - -	5,8 5,8 5,8 5,8	59,6	59,7 59,7	51,3 51,3	Mar.	5 12 19 26
							Deutsche B	undesbank		
14,6 14,5 7,0	0,0 0,0 0,0	0,0 0,0 0,0	0,0 0,0 0,0	——————————————————————————————————————	1,5 1,5 1,5	17,4 13,8 20,6	25,3 25,3 25,3	5,1 5,1 5,1	1999 Jan. Feb. Mar.	
8,1 26,4 26,2 21,3 14,6	0,0 0,0 0,0 0,0 0,0	0,0 0,0 0,0 0,0 0,0	0,0 0,0 0,0 0,0 0,0	- - - -	1,5 1,5 1,5 1,5 1,5	18,1	25,3 25,3 25,3 25,3 25,3 25,3	5,1 5,1	1999 Jan.	1 8 15 22 29
8,6 8,2 7,3 14,5	0,0 0,0 0,0 0,0	0,0 0,0 0,0 0,0	0,0 0,0 0,0 0,0	- - -	1,5 1,5 1,5 1,5	14,0	25,3	5,1 5,1 5,1		5 12 19 26
10,1 7,7 6,8 7,0	0,0 0,0 0,0 0,0	0,0 0,0 0,0 0,0	0,0 0,0 0,0 0,0		1,5 1,5 1,5 1,5	14,1 15,0	25,3 25,3	5,1 5,1	Mar.	5 12 19 26

<sup>2</sup> Whereas the consolidated financial statement of the Eurosystem shows the bilateral TARGET balances of the individual non–Eurosystem NCBs as an aggregated (net) figure, the Bundesbank statement reports gross figures for

IV. Banks New table 5

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

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

	Exercise Co.	-	Lending to	banks (MFIs	) in the euro	area 3				Lending to	non-banks (	non-MFIs) ir	the .
				to banks in	the home co	ountry	to banks in	other member	countries		to non-ban	ks in the ho	me country
	ACTION OF THE PROPERTY OF THE					Secur-			Secur-			Enterprises viduals	and
	Balance- sheet	Cash			Ad-	ities		٨٨	ities				
Period	total 2	in hand	Total	Total	vances 3	issued by banks	Total	Ad- vances <sup>3</sup>	issued by banks	Total	Total	Total	Ad- vances 3
											End o	of year or	month
1989	4,438.4	İ	1,307.3	1,195.3			112.0	98.1	13.9	2,649.1	2,605.5	2,054.4	1,994.4
1990 1991	5,412.4 5,751.6	22,1 23.9	1,706.8 1,713.9	1,573.7 1,576.9	1,146.0 1,122.9	427.8 454.0	133.1 137.0	115.6	17.4 19.8	3,134.8	3,081.4	2,412.5	2,336.4
1992	6,143.1	23.9 27.8	1,713.9	1,638.4	1,122.9	470.4	141.2	117.2 116.8	24.3	3,437.9 3,727.7	3,380.2 3,665.2	2,665.2 2,898.1	2,573.7 2,775.0
1993	6,799.5	27.8	1,940.4	1,757.5	1,212.6	544.9	182.9	151.9	31.0	4,085.0	4,005.8	3,156.8	2,980.3
1994	7,205.7	26.2	2,030.1	1,854.1	1,285.1	569.1	175.9	145.0	30.9	4,411.4	4,333.2	3,391.3	3,143.2
1995 1996	7,778.7 8,540.5	27.3 30.3	2,210.2 2,523.0	2,019.0 2,301.1	1,399.8 1,585.7	619.3 715.4	191.2 221.9	158.0 181.2	33.2 40.7	4,723.3 5,084.7	4,635.0 4,981 <i>.</i> 9	3,548.8 3,812.8	3,298.7 3,543.0
1997	9,368.2	30.7	2,836.0	2,580.7	1,758.6	822.1	255.3	208.8	46.5	5,408.8	5,269.5	4,041.3	3,740.8
1998	10,355.5	29.9	3,267.4	2,939.4	1,977.4	962.0	328.1	264.9	63.1	5,833.9	5,615.9	4,361.0	3,966.5
1997 Sep.	9,063.3	25.1	2,705.3	2,469.2	1,654.9	814.4	236.1	191.1	45.0	5,312.9	5,181.3	3,958.7	3,658.3
Oct. Nov.	9,182.1 9,322.5	24.8 24.5	2,759.1 2,834.0	2,521.4 2,584.0	1,700.4 1,759.1	821.0 825.0	237.8 249.9	190.5 202.2	47.3 47.7	5,350.1 5,388.0	5,212.8 5,252.5	3,969.0 3,988.4	3,672.3 3,689.9
Dec.	9,368.2	30.7	2,836.0	2,580.7	1,758.6	822.1	255.3	202.2	46.5	5,408.8	5,269.5	4,041.3	3,740.8
1998 Jan.	9,413.4	24.9	2,847.9	2,592.6	1,756.6	836.0	255.3	208.1	47.1	5,441.4	5,293.9	4,051.0	3,728.8
Feb. Mar.	9,476.3 9,561.2	25.5 26.1	2,868.7 2,876.1	2,618.9 2,618.6	1,773.9 1,765.1	845.0 853.5	249.8 257.5	202.1 206.9	47.7 50.6	5,478.2 5,532.5	5,326.9 5,377.2	4,073.4 4,111.0	3,739.6
Apr.	9,627.2	26.0	2,903.6	2,638.8	1,769.8	869.0	264.9	200.3	49.1	5,576.0	5,421.2	4,111.0	3,755.6 3,775.9
May	9,736.1	26.7	2,970.9	2,698.7	1,817.1	881.6	272.2	221.3	50.9	5,599.9	5,430.7	4,144.6	3,7792.0
June	9,851.7	26.6	3,036.4	2,745.8	1,857.7	888.0	290.6	230.6	60.0	5,614.3	5,439.4	4,165.8	3,805.5
July Aug.	9,834.4 9,982.9	25.6 26.1	3,017.5 3,106.4	2,747.4 2,825.9	1,837.4 1,895.1	910.1 930.8	270.1 280.5	216.2 224.9	53.9 55.6	5,621.6 5,640.4	5,445.9 5,462.6	4,169.7	3,815.4
Sep.	9,982.8	26.7	3,100.4	2,820.8	1,889.9	930.9	283.6	224.9	56.1	5,652.5	5,462.6	4,184.9 4,211.5	3,830.8 3,857.0
Oct.	10,122.0	25.8	3,193.9	2,899.1	1,947.3	951.8	294.8	234.5	60.3	5,701.9	5,506.0	4,230.5	3,873.5
Nov.	10,309.8	25.2	3,277.2	2,958.9	1,996.5	962.4	318.3	255.6	62.7	5,757.0	5,555.9	4,267.3	3,894.6
Dec. 1999 Jan.	10,355.5 5,306.1	29.9 13.3	3,267.4	2,939.4	1,977.4	962.0	328.1	264.9	63.1	5,833.9	5,615.9	4,361.0	3,966.5
Feb.	5,258.1		1,709.0 1,675.4	1,516.5 1,494.7	1,015.4 988.0	501.2 506.6	192.4 180.7	178.4 165.6	14.1 15.2	2,948.3 2,959.8	2,812.3 2,828.5	2,185.0 2,188.8	1,982.8 1,985.1
													anges <sup>1</sup>
1990 1991	974.0 339.2	7.1 1.8	399.5 7.1	378.5 3.2	321.7 - 23.1	56.8 26.3	21.1 3.9	17.5 1.6	3.6 2.3	485.7 303.1	475.9 298.8	358.1 252.7	342.0 237.3
1992	391.5	3.9	65.7	61.5	45.1	16.4	4.2	- 0.4	4.6	289.8	285.0	232.9	201.3
1993 1994	656.3 406.2	0.0 - 1.6	160.8 89.7	119.1 96.6	44.6 72.4	74.5 24.2	41.7 - 6.9	35.1 - 6.9	6.6 - 0.1	357.3 326.5	340.7 327.4	258.7 234.5	205.3 162.9
1995	573.0	1.1	180.2	164.9	114.7	50.2	15.2	13.0	2.3	311.8	301.8	157.5	155.6
1996	761.8	3.0	312.8	282.1	186.0	96.1	30.7	23.2	7.5	361.5	346.9	264.0	244.3
1997 1998	827.7 987.3	0.5 0.8	313.0 431.4	279.6 358.7	172.9 218.8	106.7 139.9	33.4 72.7	27.6	5.8	324.0	287.7	228.6	197.7
1997 Sep.	12.3	0.0	7.4	- 0.8	- 6.3	5.5	8.2	56.1 9.7	16.6 - 1.5	425.2	346.4	319.7	225.7
Oct.	118.8	- 0.2	53.9	52.1	- 6.3 45.5	6.6	1.7	- 0.6		11.0	11.3	21.0	21.6
Nov.	140.4	- 0.2	74.8	62.7	58.7	4.0	12.2	- 0.6 11.7	2.3 0.4	37.1 37.9	31.5 39.7	10.3 19.4	14.0 17.6
Dec.	45.7	6.2	2.1	- 3.3	- 0.4	- 2.9	5.4	6.6	- 1.2	20.8	17.1	52.9	50.8
1998 Jan. Feb.	45.2 62.9	- 5.8	11.8	11.9	~ 2.0	13.9	- 0.0	- 0.7	0.7	32.7	24.3	9.6	- 12.0
Mar.	84.9	0.5 0.6	20.9 7.4	26.4 0.3	17.3 - 8.9	9.0 8.5	- 5.5 7.7	- 6.0 4.8	0.5 2.9	36.7 54.3	33.0 50.4	22.4 37.6	10.8 16.0
Apr.	65.9	- 0.1	27.5	20.2	4.7	15.4	7.4	8.8	- 1.4	43.5	44.0	33.8	20.3
May	108.9	0.7	67.2	59.9	47.3	12.6	7.3	5.5	1.8	23.9	9.5	18.6	16.2
June	115.6	- 0.2	65.5	47.1	40.6	6.5	18.4	9.3	9.1	14.5	8.7	2.4	13.5
July Aug.	- 17.3 148.5	- 1.0 0.6	- 18.8 88.9	1.7 78.4	- 20.4 57.7	22.1 20.7	- 20.5 10.4	- 14.4 8.7	6.1 1.7	7.2 18.8	6.5 16.7	4.0 15.2	9.9 15.3
Sep.	- 0.1	0.6	- 1.9	- 5.0	- 5.1	0.1	3.1	2.7	0.4	12.1	10.4	26.5	26.2
Oct.	139.2	- 0.9	89.4	78.2	57.4	20.8	11.2	6.9	4.2	49.4	33.0	19.0	16.5
Nov. Dec.	187.7 45.7	- 0.7 4.7	83.3 - 9.8	59.9 - 19.5	49.2 - 19.1	10.6 - 0.4	23.5 9.7	21.1 9.3	2.4 0.4	55.2 76.9	49.9 60.0	36.8 93.7	21.1 71.9
1999 Jan.	113.5	- 2.0	69.8	26.1	15.3	10.8	43.7	42.9	0.8	14.9	9.4	12.2	11.8
Feb.	- 47.8	- 0.3	- 33.5	- 21.8	- 27.3	5.6	- 11.7	- 12.8				3.9	

<sup>\*</sup> 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 Up to December 1998, absolute (unadjusted) changes; from 1999, statistical breaks have been eliminated from the flow figures. — 2 Up to December 1998,

euro area <sup>3</sup>										Claims on non-euro-a	rea		
				to non-ban	ks in other n	nember cour	ntries			residents		1900	
indi-	Public authorities				Enterprises individuals	and	Public authorities					MICCONDICTOR THE	
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 v	ear or mo	onth	Accessors and the second and the sec	Восология почет с на почет на при	Ашеричнового предоставления	Barrer en estado en el estado de el estado de el el estado de el el estado de el el estado de el el el estado d		·	Newscare and the contract of t	<u>Буру (1994) форму на Бурина у Санарија (</u>	-th	Sharing and American States and American State	
-			1000	1 42.6		1 20.4		,		י ארד פ	1 2240	109.2	1989
60.0	1				i	l .	1		8.5	ł.	i .		
76.1 91.5	668.9 715.0	527.3 582.9	141.6 132.1	53.4 57.7	34.7 35.2	34.7 35.2	18.7 22.5		12.1 15.8	425.1 437.1	394.5 399.8	123.5 138.7	1990 1991
123.1	767.1	556.3	210.8	62.5	35.1	35.1	27.5	6.7	20.8	446.1	398.5	162.0	1992
176.5 248.1	849.0 941.9	599.6 650.1	249.4 291.8	79.1 78.2	44.5 39.6	44.5 39.6	34.6 38.6		26.3 30.3	565.2 548.8		181.1 189.2	1993 1994
250.0	1,086.3	792.2	294.1	78.2 88.2	39.4	39.2	48.8		37.6	608.5		209.4	1995
269.7	1,169.1	857.8	311.4	102.8	36.8	36.8			48.8	678.1	575.3	224.4	1996
300.6	1,228.2	911.0	317.2	139.2	41.9	41.2	97.3		73.9	839.6		253.1	1997
394.5		939.1	315.8	218.0	62.5	56.0	l		119.9	922.0		302.2	1998
300.4		891.8	330.8	131.7	40.2	39.6	91.5	1	72.7	777.6	i	242.5	1997 Sep
296.7	1,243.8	912.1	331.7	137.3	40.6	39.9	96.7		78.0	799.1	672.5	249.0	Oct Nov
298.5 300.6		930.5 911.0	333.6 317.2	135.5 139.2	41.0 41.9	40.3 41.2	94.5 97.3		75.5 73.9	824.9 839.6	693.5 710.2	251.2 253.1	Nov Dec
322.2		914.8	328.0	147.6	43.4	43.1	104.2	1	77.9	833.4	703.4	265.7	1998 Jan.
333.8		932.0	321.5	151.3	45.7	45.2	105.7		79.6	842.4	708.8	261.5	Feb
355.4	1,266.2	925.7	340.6	155.3	47.2	46.1	108.1	26.3	81.8	868.5	729.9	258.0	Mai
368.9	1,276.4	930.6	345.8	154.8	45.3	44.3	109.6		83.4	864.5		257.0	Apr
371.4 360.2		918.6 918.2	348.7 355.4	169.2 174.9	46.8 47.2	45.2 45.1	122.4 127.7		95.8 100.8	868.1 898.5	727.0 745.8	270.5 276.0	May Jun
				1	l		1	1		884.9		284.9	
354.3 354.2	1,276.2 1,277.6	927.0 930.4	349.2 347.2	175.6 177.8	48.5 51.5	45.9 48.2	127.1 126.3		99.8 97.3	922.5	734.1 773.0	287.5	July Aug
354.5		927.5	334.0	179.5	54.6	51.2	124.9		97.6	904.0		295.1	Sep.
357.0		933.7	341.7	195.9	56.3	51.2			112.0	900.8		299.7	Oct.
372.7	1,288.6	937.2	351.4	201.1	58.6	52.5	142.5		114.7	945.3		305.1	Nov Dec
394.5	ĺ	939.1	315.8	218.0	62.5	56.0	Ì		119.9	922.0		302.2	
202.2 203.8		480.0 489.5		136.0 131.2	65.1 62.2	30.5 29.1			52.6 51.0	475.8 447.5		159.8 162.5	1999 Jan. Feb.
Changes		, , ,	, ,					,					
16.1		85.1	32.7	9.9	5.2	5.2	4.6	1.0	3.6	67.4	59.7	14.3	1990
15.4	46.1	55.6	- 9.5	4.3	0.5	0.5	3.8	0.1	3.7	12.0	5.3	15.2	1991
31.6		- 26.6	78.7 38.6	4.8 16.6	- 0.1 9.5	- 0.1 9.5	4.9 7.1		5.0 5.5	8.9 119.1	- 1.3 106.3	23.3 19.2	1992 1993
53.4 71.6		43.3 50.6	42.4	- 0.9	- 4.9	- 4.9	4.0		4.0	- 16.4		8.1	1994
1.9	144.3	142.1	2.3	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	5.9	11.2	69.5	49.3	15.0	1996
30.8 94.0		53.3 28.1	5.8 - 1.4	36.4 78.8	5.1 20.6	4.5 14.7	31.2 58.2		25.1 46.0	161.5 82.4		28.6 49.2	1997 1998
		1				1					- 9.4		
- 0.6	1	2.1	- 11.7	- 0.3		- 0.3	1	0.0			1		1997 Sep.
- 3.7 1.8		20.3 18.3	0.9 1.9	5.6 - 1.7	0.4	0.3 0.4			5.3 - 2.5	21.5 25.8		6.5 2.2	Oct. Nov
2.1					1.0	0.9			- 1.6	14.7		1.9	Dec
21.7	14.7	3.8	10.9	8.4	1.4	1.9	7.0	2.9	4.0	- 6.2		12.6	1998 Jan.
11.5		17.2	- 6.6	3.7	2.3	2.1			1.6	8.9		- 4.1	Feb.
21.6	1	- 6.4		4.0	1.5	0.9	I	1	2.2	26.1	21.0	- 3.5	Mar
13.5 2.5		4.9 - 12.0	5.2 2.9	- 0.5 14.4	- 1.9 1.5	- 1.8 0.9	1.4 12.9		1.6 12.4	- 4.0 3.6		- 1.0 13.5	Apr May
- 11.1	6.4			5.7		- 0.1	5.3		5.0	30.4		5.5	June
- 5.9	2.5	8.8	- 6.3	0.7	1.4	0.8	- 0.6	0.4	- 1.0	- 13.6	- 11.8	8.8	July
- 0.1	1.4	3.5	- 2.0	2.2	3.0	2.3	- 0.8	1.7	- 2.5	37.6	38.9	2.6	Aug
0.3	1	- 2.9	- 13.2	1.7	3.0	3.1	- 1.3		0.4	- 18.4	l	7.6	Sep
2.5 15.7		6.2		16.4 5.2	1.7 2.4	0.0 1.2			14.4 2.7	- 3.3 44.5		4.6 5.4	Oct. Nov
15.7 21.8		3.5 1.9				3.5			5.3	- 23.3		- 2.8	Dec
0.5	1		1	5.5	1	1.9	ž	1	5.0	25.4			1999 Jan.
1.6			2.9										

volume of business (balance-sheet total plus endorsement liabilities and bills sent for collection from the banks' portfolios prior to maturity) and trust funds. —  $\bf 3$  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.— 5 See the note on the title page of the Statistical Section (page 1\*).

New table 9

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

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

		Deposits of	banks (MFIs	***************************************	l	non-banks (	non-MFIs) in	the euro are	a 4				
	STATE OF THE STATE	in the euro						n the home				Deposits of	non-banks
	NATTRACTION AND AND AND AND AND AND AND AND AND AN	The second secon	of banks					With agree maturities	····	At agreed notice		DCD03/C	
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 <sup>5</sup>	Total	of which: up to 3 months	Total	Over- night
											End o	of year or	month
1989	4,438.4	I	1	64.0	2,159.5	2,048.7	288.2	931.7	345.2	1	i	38.3	1.9
1990	5,412.4	1,359.9	1,281.0	78.9	2,479.9	2,352.5	400.4	1,068.2	432.5	883.9	515.6	47.2	2.3
1991	5,751.6	1,365.7	1,282.7	83.0	2,617.5	2,482.5	410.5	1,182.8	511.7	889.3	513.4	49.7	2.4
1992	6,143.1	1,405.6	1,304.2	101.4	2,743.6	2,585.3	444.5	1,228.2	563.5	912.6	522.4	60.6	3.0
1993	6,799.5	1,556.3	1,438.2	118.1	2,981.8	2,810.6	489.6	1,312.6	628.5	1,008.4	587.7	70.4	3.5
1994	7,205.7	1,650.9	1,483.5	167.4	3,082.2	2,894.4	510.4	1,288.3	549.2	1,095.8	654.6	79.6	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	3,552.1	751.6	1,411.0	461.5	1,389.6	971.9	187.4	9.4
1997 Sep. Oct.	9,063.3	2,088.3	1,856.5	231.9	3,510.6	3,246.2	603.1	1,327.2	404.7	1,315.8	894.8	158.1	8.3
Nov. Dec.	9,182.1 9,322.5 9,368.2	2,149.4 2,206.0 2,195.6	1,906.0 1,959.7 1,959.1	243.4 246.3 236.5	3,523.2 3,571.6 3,647.1	3,257.0 3,303.3 3,376.2	604.6 641.4 654.5	1,336.4 1,343.0 1,364.9	407.8 410.2 426.8	1,316.0 1,318.8 1,356.9	896.2 898.9 929.2	160.3 161.4 162.5	8.4 7.3 7.3
1998 Jan.	9,413.4	2,213.3	1,963.1	250.2	3,616.8	3,344.8	616.1	1,369.5	427.0	1,359.3	935.4	164.6	8.5
Feb.	9,476.3	2,221.4	1,969.2	252.3	3,637.5	3,356.9	620.6	1,373.0	426.2	1,363.3	939.6	172.8	10.2
Mar.	9,561.2	2,243.6	1,970.6	272.9	3,634.4	3,351.4	626.7	1,363.9	414.8	1,360.8	938.6	175.5	9.4
Apr.	9,627.2	2,240.4	1,972.3	268.1	3,648.1	3,360.0	638.7	1,366.1	413.9	1,355.2	937.1	182.1	9.9
May	9,736.1	2,283.8	1,997.3	286.5	3,659.0	3,369.6	639.6	1,377.8	423.2	1,352.3	937.5	182.8	9.0
June	9,851.7	2,333.3	2,029.6	303.7	3,661.1	3,369.9	654.7	1,365.9	410.8	1,349.3	936.3	183.0	9.9
July	9,834.4	2,295.8	2,010.6	285.2	3,656.8	3,364.8	641.5	1,377.1	418.1	1,346.3	935.5	184.1	8.0
Aug.	9,982.9	2,361.5	2,073.3	288.2	3,686.5	3,388.3	659.2	1,384.3	422.2	1,344.8	935.9	190.0	9.3
Sep.	9,982.8	2,360.1	2,059.6	300.6	3,680.9	3,384.2	665.1	1,376.0	415.4	1,343.1	935.3	188.4	9.2
Oct.	10,122.0	2,426.4	2,107.0	319.3	3,697.7	3,402.3	679.1	1,377.4	419.1	1,345.8	938.5	187.7	10.7
Nov.	10,309.8	2,510.6	2,155.3	355.4	3,747.2	3,450.5	726.5	1,374.6	418.0	1,349.4	941.6	188.6	12.6
Dec.	10,355.5	2,480.3	2,148.9	331.4	3,850.8	3,552.1	751.6	1,411.0	461.5	1,389.6	971.9	187.4	9.4
1999 Jan. Feb.	5,306.1 5,258.1	1,273.9	1,068.3	205.6	1,932.1 1,944.8	1,786.6	374.7	700.0	238.4 237.6	711.9	500.5	99.8	7.8
													anges <sup>1</sup>
1990	974.0	364.4	349.5	14.9	320.4	303.7	112.2	136.5	87.3	55.0	36.3	8.9	0.4
1991	339.2	5.8	1.7	4.1	137.7	130.1	10.1	114.6	79.2	5.4	- 2.2	2.5	0.1
1992	391.5	39.9	21.5	18.4	126.1	102.8	34.0	45.5	51.8	23.3	9.0	11.0	0.5
1993	656.3	150.7	134.0	16.7	238.2	225.2	45.1	84.4	64.9	95.8	65.3	9.7	0.5
1994	406.2	94.6	45.3	49.3	100.4	83.8	20.8	– 24.3	– 79.3	87.4	66.9	9.2	0.6
1995	573.0	110.7	98.5	12.2	177.8	144.4	39.4	0.7	- 77.2	104.3	94.9	30.5	0.4
1996	761.8	213.7	198.2	15.5	256.0	225.2	88.3	29.5	- 41.4	107.3	116.2	27.2	3.0
1997	827.7	220.4	179.0	41.4	131.1	112.2	16.4	46.4	- 3.8	49.4	63.5	25.2	- 0.2
1998	987.3	284.7	189.8	94.9	203.7	175.9	97.1	46.1	34.7	32.7	42.6	24.9	2.1
1997 Sep.	12.3	- 16.1	- 9.1	- 6.9	- 4.1	- 4.8	3.0	- 7.7	- 7.8	- 0.2	1.1	1.1	1.5
Oct.	118.8	61.0	49.5	11.5	12.6	10.8	1.4	9.2	3.1	0.2	1.5	2.2	0.1
Nov.	140.4	56.6	53.7	2.9	48.4	46.3	36.8	6.6	2.4	2.8	2.7	1.0	- 1.1
Dec.	45.7	– 10.4	– 0.6	– 9.8	75.5	73.0	13.1	21.8	16.5	38.0	30.3	1.1	0.0
1998 Jan.	45.2	17.7	3.9	13.7	- 30.3	- 31.4	- 38.4	4.6	0.2	2.4	6.2	2.1	1.2
Feb.	62.9	8.2	6.1	2.1	20.7	12.1	4.5	3.5	- 0.8	4.0	4.2	8.3	1.7
Mar.	84.9	22.1	1.5	20.7	- 3.1	- 5.5	6.1	– 9.1	- 11.4	– 2.5	– 1.0	2.7	- 0.7
Apr.	65.9	- 3.1	1.7	- 4.8	13.8	8.6	12.1	2.2	- 0.8	- 5.6	- 1.5	6.6	0.4
May	108.9	43.4	24.9	18.4	10.9	9.6	0.8	11.6	9.3	- 2.9	0.4	0.7	- 0.9
June	115.6	49.5	32.3	17.2	2.1	0.4	15.1	– 11.8	- 12.4	- 2.9	- 1.2	0.2	0.9
July	- 17.3	- 37.5	- 19.0	- 18.5	- 4.3	- 5.1	- 13.2	11.2	7.3	- 3.1	- 0.8	1.1	- 1.9
Aug.	148.5	65.7	62.7	3.0	29.8	23.4	17.7	7.2	4.1	- 1.5	0.4	5.9	1.2
Sep.	- 0.1	- 1.4	- 13.7	12.3	- 5.6	- 4.1	5.9	– 8.3	– 6.8	- 1.7	- 0.5	- 1.7	- 0.0
Oct.	139.2	66.2	47.5	18.8	16.8	18.2	14.0	1.4	3.7	2.8	3.2	- 0.7	1.4
Nov.	187.7	84.3	48.2	36.0	49.5	48.2	47.4	- 2.8	- 1.1	3.5	3.1	0.9	2.0
Dec.	45.7	– 30.3	– 6.3	- 24.0	103.6	101.6	25.1	36.4	43.4	40.2	30.3	- 1.2	- 3.3
1999 Jan. Feb.	113.5 - 47.8	49.7	13.5	36.2 - 21.0	5.6 5.9	- 0.7	- 9.6	7.5	5.4 - 0.8	1.4 1.1	3.6	5.4	3.0 - 2.6

<sup>\*</sup> 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 Up to

December 1998, absolute (unadjusted) changes; from 1999, 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. —

								Debt securi	ties			A CONTRACTOR OF THE CONTRACTOR	
in other m	ember counti	ries 6	gggal-Alagain, also makeli incentrati dell'attivati	Deposits of central gov	ernments 4	Market and the second s	Money market		NEXT SELECT TO THE PARTY OF THE	on creating the	No. 100 No. 10	The second of th	
With agree	ed	At agreed		Central gov	l l	ecos	paper	***************************************		C	Name of the last o		
maturities	za granda za	notice	***************************************		of which:	ing in righter fields	and money		of which:	Liabilities			
	_ £		of which:		domestic central	Liabilities arising	market fund		with maturities	to non- euro-	Capital		
The state of the s	of which: up to		up to		govern-	from	certificates		of up to	area residents 8	and	Other Liabilities	Period
Total 4	2 years 5	Total	3 months	Total	ments	repos 7	issued	Total	2 years	residents	reserves	Liabilities	renou
End of y	year or m	ontn											
32.8	3.7	3.5	3.5	72.5	72.5	-	2.7		Ę	i	3		1989
40.5		4.4 4.6		80.2 85.3	80.2 85.3	_	2.8 4.4		33.9 36.0	203.1 213.7	209.6 229.2	238.9 266.3	1990 1991
42.6 52.0	5.9	5.6	5.6	97.6	97.6	-	9.4	1,165.7	44.6	260.9			1992 1993
60.3 68.5		6.5 7.0		100.8 108.2		_	18.7 53.8	1,309.0 1,418.7	66.8 59.4	302.5 337.3	278.3 305.2	353.0 357.8	1993
97.3			8.3	111.0	1	_	60.5		48.9	Í	325.0		1995
120.6	9.0	9.2	9.2	114.6	114.6	_	53.2	1,785.1	35.2 37.5		350.0 387.2		1996 1997
145.8 168.3				108.3 111.2			54.6 84.1						1998
140.7	7 8.2	9.1	9.1	106.3	106.3	_	54.4	1,966.7	39.7	ŧ	1		1997 Sep.
142.8			9.1	105.9 107.0		-	54.1 54.5		38.7 38.0		380.6 383.7	528.6 529.4	Oct. Nov.
145.0 145.8				107.0		_	54.6		37.5				Dec.
146.7	1	9.4		107.4		-	56.7		37.4				1998 Jan.
153.2 156.6						- 	61.5 63.8		40.2 40.0				Feb. Mar.
162.9		1	-		1	_	63.4		38.4				Apr.
164.	5 9.6	9.3	9.3	106.6	106.6		64.4 65.5		39.3 40.3				May June
163.			1	1		_	68.1			ł.	****		July
166.8 171.					108.3	-	71.2	2,172.2	42.0	673.0	407.0	611.3	Aug.
169.9				1	1	1	1		1	1		9	Sep.
167. 166.							74.1 81.0		42.5 41.5				Oct. Nov.
168.							¥			Ì	Į.		Dec.
87. 97.													1999 Jan. Feb.
Change													
7.	7 0.9												1990 1991
2. 9.								110.9	8.7	47.2	27.4	35.0	1992
8.	3 0.9	0.9	0.9				9.2 35.1						1993 1994
8.	1	1	ł	1	İ	F	1						1995
23.	3 – 2.4	0.9	0.9	3.6	3.€	; <b>!</b> -	- 7.3	198.5	- 13.7				1996 1997
25. 22.							1.3			ě			1998
- 0.						1	2.3	7.2	- 0.6	- 8.1	2.7	28.4	1997 Sep.
2.		1	1	1	4	-	- 0.2						Oct.
2.	1 0.1	0.0											Nov. Dec.
0.	l		ž.			ı	2.2	1	l .	1		1	1998 Jan.
6.		5 0.1	0.1	0.4	1 0.4	<b>↓</b>   -	4.8	31.7					Feb. Mar.
3.	1		1	1	1		- 2.3 0.4	1	ì	1	1	1	Apr.
6. 1.							- 1.0	15.4	1.0	23.6	3.7	7 11.0	May
- 0.	7 – 1.1	1 0.0	0.0	1.5			1	1		1	· ·	į.	June
3. 4.							- 2.6 - 3.1						Aug
- 1.					1 .			3 15.4	- 0	2 – 15.3	- 0.3	1	1
- 2.							- 2.1 - 6.9						
- 1. 1.													Dec.
•	.4 1.1	1 - 0.											
	.9 - 0.0	0 0.2	2 0.0	0.8	B - 0.6	5 0.!	5 2.	5 18.2	2 3.	υ <sub>1</sub> – 4.:	. 3.3	J, - 20.0	, ien.

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 loans on a trust basis. — 5 Up to December 1998, with maturities of less than 4 years. — 6 Excluding central governments' deposits. — 7 Data collected

separately only from 1999; up to December 1998, included in the deposits with agreed maturities of up to 2 years. — 8 Excluding liabilities arising from securities issued. — 9 See the note on the title page of the Statistical Section (page 1\*).

End of

1998 Sep. Oct. Nov. Dec. 1999 Jan. Feb.

1999 Jan.

1999 Jan. Feb.

1999 Jan. Feb.

1999 Jan. Feb.

1999 Jan.

1999 Jan.

1999 Jan. Feb.

1999 Jan.

1999 Jan.

1999 Jan. Feb.

1999 Jan. Feb

1999 Jan. Feb.

1999 Jan. Feb. Table changed 13

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

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

		THE PERSONAL PROPERTY.	Lending to	banks (MFIs	5)	Lending to	non-banks (	non-MFIs)				
				of which:			of which:					
Schoolson on the state of the s		Cash in hand and			REPRESENTATION OF THE PROPERTY		Loans and a not evidence by certificat	ed				
institu-	Balance sheet total 1	balances with central banks	Total	Balances and advances	Securities issued by banks	Total	up to 1 year	over 1 year	Bills	Securities issued by non-banks	Parici- pating interests	Other
All categ	ories of l	L						i yeur	Dills	[HOH-Daliks	interests	assets
3,307	9,720.4	84.9	3,347.7	2,389.6	913.7	5,833.3	755.8	4,098.8	49.1	718.1	162.5	292.0
3,284 3,250 3,246	9,858.3 10,046.8 10,087.6	76.8 82.4 93.6	3,446.5 3,556.8 3,513.1	2,465.1 2,562.0 2,521.2	935.9 947.3 946.4	5,874.4 5,939.9 5,990.1	739.3 750.6 758.4	4,126.0 4,152.1 4,244.1	48.7 45.1 34.9	739.8 770.9 738.8	163.8 165.6 192.1	296.8 302.0 298.7
3,227 3,224	5,369.5 5,321.2	50.6 50.2	1,906.4 1,837.6	1,402.8 1,329.1	497.2 502.6	3,072.1 3,089.2	384.7 386.2	2,256.0 2,267.3	8.7 9.2	374.7 381.4	88.8 89.4	251.6 254.9
Commerc												
289 288	1,431.7 1,379.7		540.9 487.0	451.2 396.9	86.8 87.2	747.7 741.8	185.7 182.0	437.2 440.0	4.5 4.8	103.8 101.2	51.3 51.6	76.2 80.5
Big bar												
4	865.4 826.5	6.4 8.6		255.8 218.0	42.3 42.5	482.9 475.5	108.5 105.9	305.7 307.5	2.9 3.2	57.3 53.2	42.0 42.3	33.7 37.8
		and othe	r comme	rcial ban	ks <sup>6, 7</sup>							
205 204	455.8 449.0	7.5 7.1	179.0 171.3	140.4 133.0	37.8 37.5	231.8 234.0	63.2 62.7	123.2   124.2	1.2 1.3	36.3 37.9	7.7 7.7	29.8 28.8
Branche	es of fore	eign bank	<b>cs</b>									
80 80	110.5 104.2	1.7 j 3.2 j	61.7   53.4	54.9 45.8	6.7 7.2	32.9 32.3	14.1 13.4	8.3 8.3	0.3 0.4	10.3 10.2	1.5 1.5	12.7 13.8
Land ban	ks <sup>8</sup>											
13 <b>1</b>	1,026.3 1,023.7	5.2 2.6	476.8 471.2	398.4 392.8	77.0 77.4	470.7 475.6	48.1 48.6	350.2 353.4	0.6 0.7	58.0 59.3	16.6 16.6	57.1 57.8
Savings b												
589 589	879.1 879.6	18.6 17.7	216.8 215.9	64.5 62.8	150.9 152.0	608.1 611.2	69.5 70.5	454.3 454.6	2.1 2.1	76.0 77.9	8.9 8.9	26.7 25.9
Regional	institutio	ons of cre	dit coop	eratives (	including I	Deutsche (	Genossens	chaftsban	k)			
4	203.4 197.5	0.6	136.2	90.41	45.8	55.1	11.4	23.6	0.3	12.9	6.2	5.3 5.8
Credit cod			128.9	83.6	45.2	56.2	13.4	23.8	0.3	11.7	6.4	5.8
2,252 2,250	514.8 515.3	10.1	137.6 137.4	60.9 60.1	76.4 77.0	346.4 347.6	53.5 53.5	256.9 256.9	1.3 1.3	33.8 34.9	2.8	17.9 17.4
Mortgage						2 17.31	33.31	230.31	1.51	34.91	2.81	17.4
32   32	738.4 746.6	0.4	167.8 169.5	143.3 142.9	24.4 26.5	543.8 551.1	6.9 7.3	486.9 489.2	-1	49.2 53.9	1.4   1.4	25.0 23.8
Building a				,	20.0 ,	33,	7.51	403.21	-,	33.51	1.41	23.0
34   34	138.7 138.7	0.1	26.3 26.5	16.0 16.1	10.3 10.4	104.6 104.6	2.1 2.0	94.2 93.7	-1	8.3 8.9	0.4 0.4	7.2 7.2
Banks wit	h special	function	ıs <sup>10</sup>				•			0.5 ,	0.41	7.2
14   14	437.3 440.2	0.0	204.1 201.3	178.1 173.8	25.7 27.0	195.8 201.0	7.5 9.0	152.8 155.6	0.0	32.6 33.6	1.3 1.3	36.1 36.5
Memo ite						_001	3.01	.55.01	0.01	33.01	1.31	30.5
147 148	241.8 226.6	4.1 5.0	120.3 103.3	103.4 87.2	16.8 15.6	89.5 89.4	29.4 27.7	39.6 39.6	0.6	19.5 19.4	2.5	25.4 26.3
of which		najority-					2,;	33.01	0.01	13.41	2.01	20.3
67 68	131.3 122.4	2.4 1.8	58.6 49.9	48.4 41.4	10.1 8.4	56.6 57.1	15.3 14.3	31.3 31.3	0.4	9.2 9.2	0.9	12.7 12.5

<sup>\*</sup> 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 Up to December 1998,

volume of business (balance sheet total plus endorsement liabilities arising from rediscounted bills and bills sent for collection from the banks' portfolios prior to maturity). — 2 Up to December 1998, including loans on a trust basis. — 3 Included in time deposits. — 4 Including subordinated negotiable bearer debt securities; excluding non-negotiable bearer debt securities; excluding non-negotiable bearer debt securities. — 5 Deutsche Bank AG, Dresdner Bank AG, Commerzbank AG and, from 1999, Bayerische Hypo- und Vereinsbank AG. — 6 From January

De	posits o	f banks (MF	ls)	Deposits o	f non-banks	(non-MFIs)	2						Capital (including		
		of which:			of which:			_	p	2000 (\$4.000 yellow) - 10.000 (\$4.000	-		published reserves,	NO.	
						Time depo	sits for		Savings de	posits			partici- pation	A CANADA STATE STA	
Tot	tal	Sight deposits	Time deposits	Total	Sight deposits	up to 1 year	over 1 year	Memo item: Liabilities arising from repos <sup>3</sup>	Total	of which: At three months' notice	Bank savings bonds	Bearer debt securities out- standing 4	rights capital, funds for general banking risks	Other	End of month
												All cat	egories o	of banks	
	2,779.2 2,873.6 2,994.3 2,962.6 1,559.1	714.8 760.2 782.0 305.3	1,948.8 2,032.8 2,110.6 2,067.7 1,253.3 1,242.5	3,757.1 3,815.0 3,910.6 2,052.8	755.0 807.8 850.8 402.2	430.4 430.3 453.1 269.2	1,024.8 1,030.2 1,034.2 1,038.3 534.9 550.4	12.3 13.8		954.8 957.9 988.7 509.3	247.4 245.1 243.9 122.3	2,222.8 2,248.6 2,247.1 1,172.5	400.1 402.3 406.9 213.2	604.6 586.7 560.4 372.0	1998 Sep. Oct. Nov. Dec. 1999 Jan. Feb.
I	1,490.6	247.7	1,242.5	2,070.4	400.3	1 2/3.5	350.4	, 15.0	, ,25.5	, 3,7,7	,		ommerci		nement spreading of
	559.6				170.3						15.2 15.0	150.0 157.5	74.5 77.2	139.4 120.8	1999 Jan. Feb.
ı	510.3	141.2	368.8	513.8	171.3	111.5	107.5	12.4	į 106.6	, 0	15.0	, 137.3		oanks <sup>5</sup>	
Academic recognists	322.3 287.5							11.6	54.7	38.4	5.3	128.7	46.0 48.5	73.3 55.2	1999 Jan. Feb.
									_				cial banl		1000
	161.1 154.0				73.3 73.6	32.7 33.1	25.7 26.2	1.0	54.4 54.1	47.1 47.1	9.7 9.6	28.3 28.6	25.2 25.4	45.3 44.4	1999 Jan. Feb.
											Bran	ches of f	oreign b	anks	TO SERVICE OF THE SER
per-rediberte	76.2 68.9	26.0 18.3				3.4	2.8		0.0			0.2	3.4 3.4	20.8	1999 Jan. Feb.
Ť	00.5	, ,		,									Lanc	l banks <sup>8</sup>	Cocondictors
all for the same	374.7 375.4						152.5 155.3	0.4	16.4 16.3		1.5	323.0 320.0		66.0 61.3	1999 Jan. Feb.
1	373.4	31.7	1 323.7	, 225.2	, 25.5				,				Savin	gs banks	***
- AMPROPRIES - AMPROPER -	179.1 178.4				120.5 122.5	64.0 64.5	6.7 6.8	-	318.4 319.2		71.3 70.3	46.1 45.9	35.9 36.0		1999 Jan. Feb.
					Regiona	al institu	tions of	credit co	operativ	es (inclui	ding Deut	tsche Gen	ossenscha	aftsbank)	Construction of the Constr
P. Carlotte	133.8					2.7	11.5 12.1		0.0		0.0			11.4 10.6	
1	127.4	35.4	1 92.0	19.5	· ;	, 3.3		, 0.2			•			eratives	College a statement
	67.1 67.4						20.0		188.4 188.8			27.4 27.4	1 25.3	17.1	1999 Jan. Feb.
							*				. 0.7	176.0		ge banks 31 22.8	1999 Jan.
Magnetic Cod Police	98.5 87.7								- 0.1 - 0.1		0.2	489.1	14.3	21.0	Feb.
												-		iations 9	
officer controller	21.4 21.4	1.9 1.7	19.5 19.7	94.3	0.2	0.6	1.6 1.6	-	91.8 92.1	3 0.2 1 0.3	0.1		6.4 3 6.5	14.8 14.3	
														nctions 10	Į.
	124.9 122.5	7.3	117.6 118.6	121.7 123.4	0.9	4.4 5.3	116.4 117.1	-	- 1 -	-   -		- 115.8 - 117.8	3 12.2 3 12.3	62.8 64.2	
•		-												banks 11	1
	130.3 112.5	52.0 5 36.1		2 50.9 4 52.3	20.4	10.8	11.7 11.9	0.5	6.2	2 5.2 1 5.0	2 1.8 0 1.5	3 12. 5 12.	2 10.0 3 10.2	38.5 2 39.2	
*		. 23.1								anks maj	ority-ow		oreign b		Percentification of the control of t
or described in the	54.1 43.7	1 26.1 7 17.8	28.0 3 25.1	0 40.9 8 41.7	16.8 7 16.9	3 7.4 9 8.2	8.9	0.1	6.3	2 5. 1 5.	1.5	7 12.0 5 12.0	0 6.0	5 17.7 8 18.0	

1999 including institutions of the discontinued category "Private bankers" and including Deutsche Postbank AG. — 7 Up to December 1998, including Bayerische Hypo- und Vereinsbank AG; see footnote 5. — 8 Previously known as: "Regional giro institutions". — 9 Assets and liabilities of building and loan associations included from 1999 only. — 10 Up to December 1998, including Deutsche Postbank AG; see footnote 6. — 11 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" — 12 Separate presentation of the banks majority-owned by foreign banks included in the categories "Regional banks and other commercial banks" and, up to December 1998, in the categories "Private bankers" and "Mortgage banks". — 13 See the note on the title page of the Statistical Section (page 1\*) and the footnotes to the changed items. Up to February 1999, this table was numbered IV.3.

IV. Banks Table changed 19

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

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

			Lending to	domestic ba	nks (MFIs) 2	, 3	fie/Wederzen-алитен-инпавичаасциах	THE STATE OF THE S	Lending to	domestic no	n-banks (no	n-MFIs) 3, 8	
Period	Cash in hand (euro-area notes and coins) 1	Balances with the Bundes- bank	Total	Balances and loans and ad- vances not evidenced by certi- ficates 3	Bills 4	Negotiable money market paper issued by banks 5	Securities issued by banks 6	Memo item: Trust loans 7	Total	Loans and advances not evidenced by certificates 3	Bills 4	Treasury bills and negotiable money mar- ket paper issued by non-banks	Securities issued by non- banks 9
						TO STATE OF THE ST						of year or	
1989	14.2	82.6	1,062.4	692.8	19.1	-	345.8	4.7	2,470.1	2,189.4	58.8	4.0	
1990 1991	21.1 22.8	96.6 90.0	1,420.8	1,001.7	16.8	-	396.8	5.5	2,875.0	2,546.9	61.1	19.7	171.7
1992	26.8	88.2	1,424.9 1,483.5	976.5 1,020.8	22.5 19.0	- -	419.5 435.1	6.3 8.6	3,147.0 3,478.2	2,813.8 3,034.9	62.5 52.1	11.7 9.6	181.5 237.8
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	3.3 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 1996	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
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 1997 Sep.	28.5 23.5	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
Oct.	23.4	49.9 54.9	2,302.7 2,350.6	1,518.5 1,560.1	17.1 17.0	1.9 2.9	753.7 759.0	11.5 11.5	4,970.6 5,001.6	4,245.6 4,278.4	46.6 47.5	3.2	490.7
Nov. Dec.	23.2 29.3	56.0 60.2	2,409.4 2,397.9	1,614.7	17.8	3.1	762.6	11.3	5,041.8	4,313.8	47.8	4.5 3.8	486.5 492.3
1998 Jan.	23.6	56.9	2,397.9	1,606.3 1,606.5	18.1 18.1	3.6 4.1	758.9 772.0	11.1 11.1	5,058.4 5,081.6	4,353.9 4,343.8	44.7 47.4	2.9 4.8	473.3 501.3
Feb. Mar.	24.0 24.5	61.6 58.0	2,431.7 2,432.9	1,618.9 1,613.4	18.0	4.8	779.5	10.5	5,111.4	4,372.0	47.7	3.7	503.7
Apr.	24.4	54.6	2,458.8	1,624.9	17.8 17.4	5.0 4.6	786.6 802.0	10.2 9.8	5,161.0 5,203.7	4,381.1 4,404.4	48.4 49.1	3.5 7.1	543.6 559.3
May June	25.0 24.7	56.4 63.6	2,516.1 2,551.8	1,670.0 1,699.8	17.1 16.8	4.4 4.4	814.6 820.9	10.0 9.8	5,214.3 5,225.2	4,409.9 4,426.1	49.8 49.2	5.5	566.0
July	23.8	52.9	2,563.2	1,689.8	16.8	6.2	840.6	9.8	5,236.6	4,448.3	50.6	5.3 5.1	562.2 551.4
Aug. Sep.	24.5 24.5	59.9 58.0	2,633.7 2,630.7	1,739.4 1,735.1	16.9 16.6	6.6 7.5	861.2 862.0	9.6 9.5	5,253.3 5,264.8	4,467.4 4,495.4	49.9 46.7	3.6 2.4	551.4 539.5
Oct.	24.4	50.7	2,714.3	1,798.5	16.3	8.9	881.0	9.5	5,297.6	4,519.2	46.4	8.0	543.1
Nov. Dec.	23.9 28.5	57.1 63.6	2,767.9 2,738.2	1,842.3 1,814.7	16.0 14.6	11.4 12.2	888.8 887.7	9.4 9.1	5,348.0 5,379.8	4,548.1 4,639.7	42.8 32.8	7.0 5.0	569.1 527.8
1999 Jan. Feb.	12.8 12.4	37.0 37.2	1,450.8 1,428.1	976.3 948.4	0.1 0.1	6.0 5.5	468.3 474.0	4.4	2,764.9	2,449.3	7.5	4.2	267.3
. 52.	1211	37.21	1,420.11	340.41	0.11	3.5 }	4/4.01	4.5	2,781.3	2,460.7	8.1	3.0	272.9
1990	+ 6.4	+ 13.9	+ 112.8	+ 56.5	- 2.21	-1	+ 57.61	+ 0.8	+ 219.9	+ 182.4	+ 2.3	+ 3.01	nanges * + 30.4
1991 1992	+ 1.7 + 2.8	- 6.6 + 6.3	+ 46.4 + 77.6	+ 13.4 + 61.0	+ 5.8 - 3.5	-	+ 26.5 + 17.8	+ 0.8 + 2.3	+ 285.7 + 294.3	+ 281.1 + 249.2	+ 1.3	- 8.0	+ 13.4
1993 1994	- 0.1 - 1.7	- 12.9 - 13.8	+ 133.3 + 99.1	+ 75.2	- 4.3	+ 0.1	+ 61.5	+ 0.7	+ 339.8	+ 259.1	- 7.4	- 2.2 - 4.5	+ 57.1 + 102.0
1995	+ 1.0	- 0.5	+ 193.5	+ 73.6 + 139.4	+ 2.7	+ 1.3 - 0.5	+ 21.3 + 54.3	+ 0.1	+ 320.5 + 312.8	+ 240.2 + 303.6	+ 1.2 + 1.0	- 3.3	+ 86.7
1996 1997	+ 2.9 + 0.4	- 1.3 + 0.5	+ 257.8 + 262.5	+ 161.8	+ 0.4	- 1.1	+ 95.8	+ 0.8	+ 336.3	+ 311.7	- 2.0	- 0.8 + 4.7	+ 2.9 + 10.6
1998	- 0.8	+ 3.4	+ 343.3	+ 160.7 + 210.3	+ 0.2 - 3.6	+ 0.2 + 8.6	+ 102.6 + 130.0	- 1.1 - 2.0	+ 285.2 + 335.3	+ 255.5 + 302.1	- 0.1 - 11.9	- 3.0 + 2.1	+ 36.5 + 52.1
1997 Sep.	+ 0.1	- 2.0	- 4.4	- 6.5	- 0.4	+ 0.1	+ 2.6	- 0.2	+ 13.3	+ 27.7	- 2.3	- 0.6	- 11.6
Oct. Nov.	- 0.1 - 0.3	+ 4.9 + 1.2	+ 48.2 + 58.6	+ 41.9 + 54.3	- 0.1 + 0.7	+ 0.9 + 0.2	+ 5.5 + 3.6	- 0.0 - 0.2	+ 31.3 + 39.9	+ 33.2 + 35.2	+ 0.9 + 0.3	+ 1.3 - 0.7	- 4.3 + 5.8
Dec.	+ 6.2	+ 4.2	- 11.3	- 8.6	+ 0.3	+ 0.5	- 3.3	- 0.1	+ 17.1	+ 40.6	- 3.1	- 0.9	- 19.0
1998 Jan. Feb.	- 5.7 + 0.4	- 3.4 + 4.8	+ 14.5 + 20.4	- 0.1 + 12.5	+ 0.0 - 0.1	+ 0.6 + 0.7	+ 14.1 + 7.9	- 0.1 - 0.5	+ 23.6 + 30.1	- 9.8 + 28.4	+ 2.7 + 0.3	+ 2.0 - 1.1	+ 28.1 + 2.5
Mar. Apr.	+ 0.5	- 3.6 - 3.4	+ 0.8	- 5.9	- 0.2	+ 0.2	+ 7.1	- 0.4	+ 49.6	+ 9.1	+ 0.7	- 0.2	+ 39.9
May	+ 0.6	+ 1.8	+ 26.4 + 57.6	+ 12.1 + 45.4	- 0.4 - 0.3	- 0.3 - 0.2	+ 15.3 + 12.6	- 0.4 + 0.2	+ 43.4 + 10.9	+ 24.0 + 5.9	+ 0.7 + 0.6	+ 3.6 - 1.5	+ 15.7 + 6.6
June July	- 0.2 - 1.0	+ 7.3 - 10.7	+ 35.0 + 11.9	+ 29.5 - 9.6	- 0.2 - 0.0	- 0.1	+ 6.1	- 0.2	+ 14.9	+ 24.5	- 0.6	- 0.2	- 8.1
Aug.	+ 0.8	+ 7.0	+ 70.5	+ 49.6	+ 0.1	+ 1.8 + 0.4	+ 19.7 + 20.6	- 0.0 - 0.2	+ 13.6 + 16.7	+ 22.8 + 19.1	+ 1.5	- 0.2 - 1.5	- 9.2 - 0.0
Sep. Oct.	- 0.1 I	- 1.9 - 7.2	- 2.1 + 83.7	- 3.3 + 63.5	- 0.3 - 0.3	+ 0.8	+ 0.8	- 0.1	+ 12.5	+ 29.1	- 3.1	- 1.2	- 11.8
Nov. Dec.	- 0.6 + 4.6	+ 6.4	+ 53.2	+ 43.4	- 0.3	+ 2.5	+ 7.8	+ 0.0	+ 32.7 + 49.9	+ 23.6 + 28.4	- 0.3 - 3.6	+ 5.6 - 1.0	+ 3.6 + 26.0
1999 Jan.	- 1.8	+ 6.5 + 4.5	- 28.7 + 17.7	- 26.8 + 11.9	- 1.5 + 0.1	+ 0.7 - 0.2	- 1.0 + 6.0	- 0.2 - 0.2	+ 37.3	+ 97.1 + 19.4	- 10.0	- 2.0	- 41.2
Feb.	- 0.4	+ 0.2	- 23.0	- 28.4	- 0.01	- 0.4	+ 5.8	+ 0.0	+ 15.9	+ 10.8	+ 3.2 + 0.6	+ 1.6 - 1.2	- 5.9 + 5.7

<sup>\*</sup> 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 6. — 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 5). — 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 2). — 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

	ACTORNO DE L'ANNO MINOR DE L'ANNO MANORE DE L'ANNO MANORE DE L'ANNO MANORE DE L'ANNO MANORE DE L'ANNO MANORE D	I	Donosits	f domestic l	nanks (MFIs	) 3. 11. 12		Deposits o	f domestic	non-banks	(non-MFIs)	3, 17		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Partici- pating interests in	Deposito O	. Gomestic	, and is			**************************************		and and analysis and an analys		The state of the s	THE PROPERTY OF THE PROPERTY O	
Equalisa- tion claims 10	Memo item: Trust loans 7	domestic banks and enterprises	Total	Sight deposits 13, 14	Time deposits 3, 14, 15	Bills redis- counted 16	Memo item: Trust Ioans 7	Total	Sight deposits 13	Time deposits 3, 15	Savings deposits	Bank savings bonds 18	Memo item: Trust Ioans 7	Period
End of	year or r	nonth *	Service Services											
1.9	71.9	31.0	902.8	110.4	697.8	73.7	20.9	2,028.2	303.0	756.6	1	Š.		1989
1.7 2.4 64.3 75.3 68.1	75.1 79.5 81.6	39.5 41.3 49.4 59.5 70.7	1,266.2 1,395.2	256.4 226.9 301.2 380.2 342.8	878.1 913.1 864.7 917.9 976.9	93.4 87.8 78.0 69.2 75.2	21.9 21.7 22.4 27.9 33.1	2,334.5 2,462.7 2,570.4 2,788.1 2,875.7	431.3	976.6 1,020.9 1,123.6	770.7 859.4	226.5 236.7 240.0 219.1 206.9	61.8 64.0 70.4 72.4 78.8	1990 1991 1992 1993 1994
71.3 81.3 76.0 71.6	88.1 106.0 107.6	83.2 89.7 95.1 129.2	1,539.4 1,731.0 1,902.3	363.9 401.1 427.6 472.5	1,065.1 1,202.4 1,349.1 1,505.2	75.5 75.4 75.6 59.4	35.0 52.2 50.0 49.7	3,021.1 3,241.5 3,341.9 3,520.3	689.8 799.5	1,109.8 1,146.9 1,194.1	1,182.1 1,211.0	2	81.6 85.8 86.1 80.9	1995 1996 1997 1998
77.6	1	93.2	1,802.2	406.9	1,266.7	76.1	52.4	3,216.1	627.4	i	ž	232.0 233.0	85.2 85.4	1997 Sep. Oct.
77.5 76.6 76.0	107.5	93.6 93.7 95.1	1,904.6		1,294.8 1,334.9 1,349.1	76.5 77.5 75.6	52.5 52.6 50.0	3,224.9 3,272.9 3,341.9	669.9	1,132.0	1,150.5	234.7 236.9	85.7 86.1	Nov. Dec.
76.1 76.1 76.4	108.1	95.6 98.7 99.2	1,910.0		1,334.5 1,333.4 1,342.2		50.7 51.0 50.4		651.2	1,158.4	1,188.4		86.7 86.3 86.6	1998 Jan. Feb. Mar.
75.9 75.9 75.4	107.2	99.5 99.5 99.5	1,939.6			76.8		3,334.5	665.4	1,162.3	1,178.1	242.3	86.4	Apr. May June
73.9 73.7 73.5	107.3 107.4	99.4 99.8	1,956.3 2,016.2	423.6 464.5	1,407.5 1,426.6	76.1	49,1 48.9 48.9		684.9	1,173.1	1,172.3	241.2	86.8 86.8 86.8	July Aug. Sep.
73.5 73.4 71.6	107.5 1 107.7	98.8 100.4	2,049.1 2,098.4	456.7 472.1	1,469.3 1,505.5	74.4 72.3	48.8 48.5	3,370.4 3,418.5	705.0 754.1	1,163.4	1,177.1	236.2	87.7	Oct. Nov. Dec.
36.5 36.5	58.0	66.4	1,067.6	152.9	914.3	0.4	30.6	1,835.4	376.5					1999 Jan. Feb.
Change	es *										27.4	· i + 24.0	+ 1.4	1990
- 0.3 - 0.3 - 1.0 - 11.4 - 6.9	- 1.9 + 1.5 + 2.1	+ 3.9 + 7.9 + 9.8	+ 37.8 + 39.7 + 145.3	- 7.9 + 74.0 + 75.1	+ 51.3 - 25.5 + 77.1	5 – 5.6 5 – 9.8 6 – 8.8	- 0.2 + 1.0 + 1.9	+ 125.0 + 126.0 + 216.7	+ 4.6 0 + 33.6 7 + 43.8	+ 110.2 + 69.6 + 96.9	2 + 0.9 5 + 16.3 9 + 88.7	+ 10.2 + 3.3 - 14.6	- 0.9 + 3.2 + 2.0	1991 1992 1993 1994
- 1.2 + 8.0 - 5.3 - 4.4	2 + 7.3 2 + 3.3 3 + 1.6	+ 12.5 + 6.5 + 5.4	+ 175.9 + 175.9	+ 36.6 + 31.6	+ 137.7 + 146.7	- 0.2 + 0.2	+ 1.7 - 2.6	+ 218.4 + 100.5	+ 94.3 + 13.0	3 + 23.2 3 + 37.1	2 + 96.9 1 + 39.1	+ 0.7 + 9.2	+ 3.3 + 2.1	1995 1996 1997 1998
- 0.1	1 + 0.1	+ 3.2	. – 11.1	- 4.0	- 5.4	- 1.6	- 0.2	ž	1	1	e e	le constant	1	1997 Sep.
- 0.1 - 0.9 - 0.6	+ 0.3	+ 0.1	+ 50.3	+ 9.1		+ 1.0		+ 47.7	7 + 41.9			3 + 1.7	+ 0.2	Oct. Nov. Dec.
+ 0.0 + 0.0 + 0.3	0.6 0 - 0.0	+ 0.4 + 3.2	- 3.9 2 + 4.9	+ 5.8	3 – 1.1	- 0.1	+ 0.3	3 + 13.1	1 + 6.9	9 + 1.6	5 + 3.7	/ + 1.3	- 0.4	1998 Jan. Feb. Mar
- 0.4 + 0.0 - 0.1	4 - 0.2 0 - 0.7	+ 0.3 + 0.0	3 + 5.8 3 + 24.3	8 + 0.6 3 - 4.6	+ 5.9 5 + 29.	9 - 0.4 1 - 0.1	- 0.4 - 0.2	+ 10.9	9 + 2.7	7 + 10.1	7 – 2.7	7 + 0.3	- 0.1	Apr. May June
- 0.3 - 0.3 - 0.3	5 + 0.2 2 + 0.1	2 - 0.1 1 + 0.4	1 - 12.1 1 + 60.0	- 34.7 + 41.0	+ 22.3 + 19.	3 + 0.4 1 + 0.0	- 0.1 - 0.1	1 – 6.5 1 + 27.4	5 – 14.6 4 + 19.5	7 + 9.	1 – 0.9	- 0.6	+ 0.0	July Aug Sep.
+ 0.0 - 0.0 - 1.8	0 + 0.2 0 + 0.2	2 + 0.4 2 + 1.0	4 + 48.0 5 + 48.8	) + 7.0 3 + 14.9	+ 41.0 + 36.3	0 + 0.0 2 - 2.0	- 0.1 - 0.1	1 + 16.! 3 + 47.	5 + 13.4 7 + 48.1	4 + 1. 7 – 2.	2 + 3.2	2 – 2.3	3 + 0.4	Nov
- 0.0 - 0.0	1 + 0.7	2 + 0.0	+ 18.9	+ 39.2	2 - 9.	4 – 10.9	- 0.	1 - 1.0	Į.	6 + 9.	3 + 1.			

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 Including liabilities arising from non-negotiable bearer debt securities. — 19 See the note on the title page of the Statistical Section (page 1\*) and the footnotes to the changed items. Up to February 1999, this table was numbered IV.4.

Table changed 10

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

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

	Until the e	nd of 1998	DM billion	, from 1999	euro billio	n		***************************************	<del></del>					
		Lending to	foreign ba	nks (MFIs)	2	PROFESSION	PROVINCE OF THE PROPERTY OF TH	·	Lending to	foreign no	on-banks (n	on-MFIs) 2		
	Cash in hand			nd loans ar not evidenc s, bills 3		Negotiable money					advances r by certifica		Treasury bills and negotiable	
Daviad	(non- euro-area notes and			Short-	Medium and long-	market paper issued by	Securities issued by	Memo item: Trust			Short-	Medium and long-	money market paper issued by	Securities of
Period	coins) 1	Total	Total	term	term 2	banks 4	banks 5	loans 6	Total	Total	term	term 2	non-banks	non-banks
	NAME OF THE PROPERTY OF THE PR											End o	f year or	month *
1989	8.0	358.6	345.2	270.9	74.3	-	9.8	3.6	137.8	110.9	20.0	90.8	1.0	18.3
1990 1991	1.0 1.1	422.4 419.6	400.6 395.8	303.3 266.5	97.3 129.3	-	14.6 17.5	7.2 6.4	167.5	130.9	29.2	101.7	0.6	24.0
1992	1.0	405.6	377.4	250.0	127.4	_ _	21.3	6.8	188.7 217.8	142.6 157.3	27.7 30.2	114.8 127.1	1.4 0.4	31.3 45.2
1993 1994	1.2 1.2	533.8 492.3	498.3 455.0	360.5	137.7	0.1	24.3	11.2	262.5	184.0	48.3	135.7	0.0	63.0
1995	1.2	538.4	455.0 500.8	309.0	146.0	0.1	23.7	13.5	257.4	173.0	35.0	138.0	0.6	66.5
1996	1.4	588.9	544.2	349.7 386.6	151.1 157.6	0.1 0.3	25.6 31.5	11.8 13.0	289.2 352.0	191.1 230.4	42.1 60.2	148.9 170.2	1.7 4.9	79.7 103.9
1997	1.5	689.1	635.3	456.1	179.2	0.2	43.1	10.5	474.8	312.7	96.2	216.5	6.0	140.3
1998	1.5	774.9	706.9	533.6	173.3	0.4	58.7	9.0	610.3	364.9	93.9	270.9	11.6	211.0
1997 Sep.	1.6	632.7	580.0	410.1	169.9	0.4	39.6	12.6	444.5	284.5	85.9	198.6	8.7	137.0
Oct. Nov.	1.5 1.4	653.9 680.5	599.4 626.0	426.1 451.6	173.4 174.4	0.5 0.5	41.3 41.3	12.7 12.7	452.5 463.0	286.5	85.7	200.8	6.6	144.5
Dec.	1.5	689.1	635.3	456.1	174.4	0.5	43.1	10.5	462.0 474.8	293.3 312.7	89.8 96.2	203.5 216.5	6.8 6.0	146.9 140.3
1998 Jan.	1.4	688.2	632.2	452.9	179.3	0.3	44.5	11.1	478.9	312.6	88.1	224.5	4.1	146.1
Feb. Mar.	1.6 1.7	680.2 704.3	623.5	441.6	181.9	0.3	45.4	11.0	492.2	321.0	94.8	226.2	4.8	149.9
Apr.	1.7	1	642.5	455.7	186.8	1.9	49.1	10.8	504.8	328.3	98.3	230.0	5.0	154.3
May	1.7	703.5 709.9	645.2 650.9	457.0 462.0	188.2 188.9	0.5 0.5	47.4 48.1	10.4 10.4	508.2 526.2	325.5 329.6	97.2 98.8	228.3 230.9	5.8 5.5	158.1 172.0
June	1.9	731.8	665.4	475.4	190.0	0.6	55.8	10.1	558.9	343.7	108.6	235.2	6.2	188.7
July	1.9	699.3	638.4	448.2	190.2	0.4	50.5	10.1	555.4	345.5	106.8	238.7	7.0	182.9
Aug. Sep.	1.7 2.3	740.4 717.1	678.4 655.0	485.9 465.6	192.5 189.4	0.2 0.4	51.8 51.7	10.0 9.9	565.0 568.6	355.6 361.5	113.3 120.5	242.3 241.1	6.9 6.0	180.1
Oct.	1.5	732.2	667.0	478.6	188.4	0.5	54.9	9.9	576.8	348.5	105.6	242.9	9.2	178.6
Nov.	1.4	789.0	720.1	533.2	186.9	0.4	58.6	9.9	591.9	356.8	107.3	242.9	11.2	196.7 201.8
Dec.	1.5	774.9	706.9	533.6	173.3	0.4	58.7	9.0	610.3	364.9	93.9	270.9	11.6	211.0
1999 Jan. Feb.	0.5 0.6	455.7 409.5	426.6 380.8	336.6 291.0	90.1 89.8	0.2 0.1	28.9 28.6	4.9 4.9	307.2 307.9	192.6 193.9	49.7 46.3	142.9 147.6	7.2 5.5	107.4
						0	20.01	4.51	307.51	155.5 ;	40.5 ;	147.01		108.5
1990	- 0.3	+ 50.71	+ 41.5	+ 16.5	+ 25.0		. 531	. 201	. 26.41	. 1501	0.21	671		nanges *
1991	+ 0.1	- 3.6	- 5.9	- 38.1	+ 32.2	-1	+ 5.3 + 3.2	+ 3.9	+ 26.4 + 22.6	+ 15.9 + 12.3	+ 9.2 - 1.3	+ 6.7 + 13.7	- 0.2 + 0.7	+ 6.3 + 8.0
1992 1993	- 0.1 + 0.1	- 18.4 + 117.3	- 22.6 + 117.2	- 20.4 + 103.9	- 2.2	-	+ 3.8	+ 0.4	+ 28.6	+ 13.6	+ 2.5	+ 11.0	- 1.0	+ 14.1
1994	+ 0.0	- 24.0	- 27.5	+ 103.9	+ 13.3 + 13.9	- 0.0 - 0.0	+ 0.5	- 0.4 + 3.4	+ 31.9 - 1.6	+ 12.6 - 5.5	+ 6.2 - 12.3	+ 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 1997	+ 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
1998	+ 0.1 - 0.0	+ 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 - 6.4	+ 39.3 + 49.1	+ 0.7	+ 32.9
1997 Sep.	- 0.1	+ 5.1	+ 3.9	- 0.6	+ 4.6	- 0.1	+ 1.5	- 0.2	+ 2.8	+ 1.4	- 0.6	+ 49.1	+ 5.5 + 0.6	+ 66.0
Oct.	- 0.1	+ 25.5	+ 23.3	+ 19.0	+ 4.3	+ 0.1	+ 2.0	+ 0.1	+ 10.8	+ 4.0	+ 0.3	+ 3.7	+ 0.6 - 1.9	+ 0.8
Nov.	- 0.1	+ 24.3	+ 24.5	+ 23.6	+ 0.8	+ 0.0	- 0.2	- 0.0	+ 6.9	+ 4.6	+ 3.7	+ 0.8	+ 0.3	+ 8.2 + 1.9
Dec.	+ 0.1	+ 6.0	+ 6.9	+ 2.5	+ 4.4	- 0.3	+ 1.7	- 2.3	+ 11.3	+ 18.3	+ 6.1	+ 12.2	- 0.8	- 6.9
1998 Jan. Feb.	- 0.1 + 0.2	- 5.1 - 6.4	- 6.7 - 7.4	- 6.4 - 10.3	- 0.2 + 2.9	+ 0.1 - 0.1	+ 1.4 + 1.1	+ 0.0	+ 1.5 + 14.3	- 2.0 + 9.2	- 8.6 + 6.9	+ 6.6	- 2.0	+ 5.3
Mar.	+ 0.1	+ 20.7	+ 15.9	+ 11.9	+ 4.0	+ 1.6	+ 3.5	- 0.2	+ 9.8	+ 5.0	+ 6.9 + 3.1	+ 2.4	+ 0.7 + 0.1	+ 4.0 + 4.1
Apr.	+ 0.1	+ 5.4	+ 8.3	+ 5.3	+ 2.9	- 1.4	- 1.1	- 0.3	+ 8.1	+ 0.6	- 0.4	+ 1.0	+ 0.8	+ 4.8
May June	+ 0.1	+ 10.6 + 10.4	+ 9.5 + 7.2	+ 7.2 + 7.1	+ 2.3 + 0.2	+ 0.0	+ 1.0	+ 0.0	+ 20.1	+ 5.4	+ 1.9	+ 3.5	- 0.2	+ 14.7
July	- 0.0	- 27.2	- 22.1	- 23.5	1		+ 3.6	- 0.4	+ 17.9	+ 6.6	+ 3.9	+ 2.7	+ 0.6	+ 9.5
Aug.	- 0.2	+ 41.6	+ 40.4	+ 38.0	+ 1.4 + 2.4	- 0.2 - 0.1	- 4.9 + 1.3	+ 0.0	+ 0.1 + 10.1	+ 4.1 + 10.5	- 1.2 + 6.6	+ 5.2 + 3.9	+ 0.8	- 4.6 - 2.7
Sep.	+ 0.6	- 13.7	- 14.6	- 14.0	- 0.6	+ 0.2	+ 0.7	+ 0.0	+ 12.0	+ 12.1	+ 8.4	+ 3.7	- 0.7	+ 0.1
Oct. Nov.	- 0.8 - 0.1	+ 13.1	+ 10.2	+ 11.0	- 0.8	+ 0.1	+ 2.8	- 0.0	+ 8.7	- 11.8	- 14.8	+ 3.1	+ 3.3	+ 17.2
Dec.	+ 0.1	+ 52.6 - 1.3	+ 49.3	+ 52.0 + 0.9	- 2.7 - 1.5	- 0.1 + 0.0	+ 3.4	- 0.0 - 0.9	+ 11.2	+ 5.1	+ 1.1 - 13.2	+ 4.0 + 11.1	+ 2.0	+ 4.7
1999 Jan.	- 0.2	+ 60.8	+ 62.0	+ 61.1	+ 0.9	- 0.0	- 1.2	+ 0.2	+ 11.0	+ 10.6	+ 7.7	+ 3.0	+ 0.3	+ 9.0 - 0.8
Feb.	+ 0.1	- 48.9	- 48.4	- 47.5	- 0.8	- 0.1	- 0.5	+ 0.0	- 1.7	- 0.7	- 3.8	+ 3.2	- 1.8	+ 0.7

<sup>\*</sup> 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 5. — 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 Up to November 1993, included in securities; see also

(Acceptation of the Street of the Control of the Co		Deposits o	f foreign ba	inks (MFIs) a	2			Deposits o	f foreign no	on-banks (n	on-MFIs) 2	magaine de compres de compres de la compressión	Ē	
	Partici- pating interests	Debosits 0	. Torcigii De	**************************************	sits (includi	ng bank				Time depo	sits (includi posits and b	ng sank	And and a second	
Memo item:	in foreign banks and		normal and the state of the sta		A STATE OF THE STA	Medium and	Memo item: Trust		Sight		Short-	Medium and long-	Memo item: Trust	
Trust loans 6	enter- prises 7	Total	Sight deposits 8	Total 9	Short- term <sup>9</sup>	long- term <sup>2</sup>	loans 6	Total	deposits 8	Total 9	term <sup>9</sup>	term 2	loans 6	Period
End of	year or m	onth *											Octobra management	
7.7	16.2	196.3	40.8	150.6	71.2	79.4	4.9	70.5	10.4	58.6	18.4	40.2	1.6	1989
11.9	20.9	246.0	54.6	182.1	74.5	107.5	9.3	83.0	11.6	65.9 76.1	21.6 24.2	44.2 51.8		1990 1991
13.5 14.8		253.3 297.0	58.8 66.7	184.2 219.7	88.3 119.2	95.9 100.5		93.0 125.8	11.5 15.8	103.6	34.4	69.2	6.4	1992
15.5	1	328.1	82.9	236.0	122.5	113.5	9.2	162.8	16.9	139.2	39.1		6.7 5.6	1993 1994
17.3	34.0	402.3	111.6	283.7	150.8	132.9		181.5	20.6	1	41.7	1		1995
16.7	38.8	463.7		339.7 335.7	191.6 172.0	148.2 163.7	7.0 3.8	224.4 273.5	22.1 34.3		45.3 50.0			1996
12.7 15.7		486.5 670.3		440.2	254.3	185.9	1	333.9	43.5	285.7	63.0	222.7		1997
22.9	1			562.5	359.1	203.4	Į.	390.3	51.3		1	1		1998
14.4	53.3	612.7	193.8	415.0	233.0	181.9	1	1	40.0	1	58.0	1	l I	1997 Sep.
14.8		658.5		435.1	252.4	182.8		325.2	39.1 41.6	282.0 289.6				Oct. Nov.
15.0 15.7		670.2 670.3		444.8 440.2	259.3 254.3	185.5 185.9			41.6	8	63.0		ž.	Dec.
1	-	690.4		449.4	260.2		1	340.7	44.7	291.3	64.0	227.3		1998 Jan.
16.1 16.5				457.6	267.4	190.2	3.8	348.8			62.1			Feb. Mar.
17.2		734.2	255.0	475.8		1	1	1	1		1	•		
18.9				483.3				373.2 376.2						Apr. May
19.0 20.3				500.4 495.8	1									June
20.1			1	511.0	İ	1	3.1	375.0	45.3					July
22.5		768.7	249.2	516.3	321.9	194.4			49.2					Aug. Sep.
22.5	64.0	777.8	1	i i	1		1			1		İ		Oct.
22.4				563.4 605.0									2	Nov.
22.0 22.9					6					1		257.8	9.5	Dec.
11.6			152.4	339.1	241.9	97.2								1999 Jan.
11.8				336.4	248.6	87.8	1.9	237.9	27.0	210.9	54.5	156.4	5.1	Feb.
Change	es *													1000
+ 4.5														1990 1991
+ 1.6							2		Ē	+ 27.0	+ 10.1	+ 16.9	+ 1.2	1992
+ 0.2		+ 23.8	+ 14.1	+ 11.1	- 0.4									1993 1994
- 1.7	7 + 4.2					i	1	E a	1	į.	1	8	and the same of th	1995
- 0.3													* 5	1996
- 2.3 + 2.3		1		+ 89.5	+ 71.8	+ 17.7	7 + 0.1	+ 51.0	+ 5.4					1997 1998
+ 7.7	7 + 8.8	+ 215.6	5 + 87.7	1	1	1	1			8		250		1997 Sep.
+ 0.0	0 + 1.0	.8.5	5 – 3.7	ł	1			-				į.		
+ 0.														Oct. Nov.
+ 0.							1 -					1	_ 1	Dec.
+ 0.						a de la composição de l								1998 Jan.
+ 0.	4 + 0.	1 + 7.	1 - 1.5	5 + 9.1	+ 8.0	) + 1	2 – 0.							Feb. Mar.
+ 0.	6 + 0.4	1	ğ	1	1			1	1		1	-		Apr.
+ 1.		1									4 + 2.	1 + 6.	3 + 0.1	May
+ 0.													1	June
- 0.		1			1 + 19.									
+ 2.	4 + 0.	1 + 8.	8 + 3.0	0 + 5.7	7 + 6.1	6 – 0.								
+ 0.	1		1					1		1				
+ 0. - 0.							1	3 + 7.	4 + 3.	3 + 4.	4 + 2.	7 + 1.	8 - 0.4	Nov.
+ 1.	1 -					ž		0 – 5.	1	1				1
- 0.														
+ 0.	.1 + 0.	2 - 39.	5 – 40.	3 + 0.	81 + 4.	01 – 3.	2 + 0.	∪≰ + II.	э; т °.				ember 1998	

footnote 4. — 5 Up to November 1993, including negotiable money market paper; excluding registered debt securities. — 6 From 1999, no longer included in loans and deposits. — 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. — **10** See the note on the title page of the Statistical Section (page 1\*) and the footnotes to the changed items. Up to February 1999, this table was numbered IV.5.

Table changed 12

# 5. Lending of banks (MFIs) in Germany to domestic non-banks (non-MFIs) \*

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

	Until the end of 1998 DM bi	lion, from 1999	euro billion							
	Supplemental de la constant de la co	Short-term le	ending			_			Medium and	long-term
	Lending to domestic		to enterprise	s and individu	ais 1	to public aut	norities			to enter-
Period	non-banks, total 1, 2 including   excluding negotiable money market paper, securities, equalisation claims	Total	Total	Loans and advances not evi- denced by certifi- cates and bills 3, 4	Negoti- able money market paper	Total	Loans and advances not evi- denced by certifi- cates	Treasury bills 5	Total	Total
						American constant or constant property and the second seco	American services and the services are services and the services and the services and the services are services and the services and the services and the services are services and the services and the services and the services are services and the services and the services are services and the services and the services are services and the services are services and the services are services and the services are services and the services are services and the services are services and the services are services and the services are services and the services are services and the services are services and the services are services and the services are services are services and the services are services and the services are services are services are services are services are services are services are	End	d of year o	L
1989	2,470.1 2,320.	385.6	375.2	374.7	0.5	10.5	6.91	3.5	2,084.4	1,547.6
1990 1991 1992 1993 1994	2,875.0 2,681. 3,147.0 2,951. 3,478.2 3,166. 3,826.4 3,417. 4,137.2 3,633.	602.0 597.2 3 563.2 1 583.5	575.8 571.2 544.2 549.1	575.5 571.0 540.8 548.6	0.1 0.4 0.2 3.4 0.4	27.1 26.1 26.0 19.0 34.4	7.5 14.7 16.7 16.8 32.7	19.6 11.4 9.3 2.2 1.8	2,326.9 2,545.0 2,881.0 3,263.2 3,553.7	1,750.5 1,941.8 2,167.5 2,441.8 2,661.9
1995 1996 1997 1998 1997 Sep.	4,436.9 3,936. 4,773.1 4,248. 5,058.4 4,506. 5,379.8 4,775. 4,970.6 4,399.	7 662.2 2 667.8 1 704.3	617.2 625.8 661.3	583.3 616.2 624.8 660.8	0.7 1.0 1.0 0.5	31.3 45.1 41.9 43.0	30.5 40.2 40.1 38.5	0.8 4.9 1.9 4.5	3,821.7 4,110.8 4,390.6 4,675.5	2,785.5 3,007.2 3,223.4 3,482.4
Oct. Nov. Dec.	4,970.6 4,399. 5,001.6 4,433. 5,041.8 4,469. 5,058.4 4,506.	659.4 665.7	613.8 606.8 604.9 625.8	611.7 605.0 603.4 624.8	2.0 1.7 1.5 1.0	42.2 52.7 60.7 41.9	41.1 49.9 58.5 40.1	1.2 2.8 2.3	4,314.6 4,342.1 4,376.1	3,154.1 3,170.5 3,192.2
1998 Jan. Feb. Mar.	5,081.6 4,499. 5,111.4 4,527. 5,161.0 4,537.	649.8 661.3	609.1 609.5 617.6	606.9 607.7 615.9	2.3 1.9 1.7	40.6 51.8 44.6	38.0 49.9 42.8	1.9 2.6 1.9 1.8	4,390.6 4,431.9 4,450.1 4,498.8	3,223.4 3,248.8 3,266.9 3,296.2
Apr. May June	5,203.7 4,561.4 5,214.3 4,566.3 5,225.2 4,582.3	665.4 671.3	623.4 630.5 635.3	621.6 628.5 634.0	1.8 2.0 1.3	49.6 34.9 36.0	44.4 31.4 31.9	5.3 3.5 4.0	4,530.7 4,548.9 4,553.9	3,323.6 3,336.3 3,335.6
July Aug. Sep. Oct.	5,236.6 4,606.3 5,253.3 4,624.0 5,264.8 4,649.4 5,297.6 4,673.3	673.6 686.7	625.9 627.0 639.9	625.0 626.0 638.8	0.9 0.9 1.1	45.4 46.6 46.8	41.2 44.0 45.5	4.2 2.7 1.3	4,565.3 4,579.7 4,578.0	3,354.6 3,367.9 3,382.3
Nov. Dec. 1999 Jan.	5,348.0 4,698.6 5,379.8 4,775.4	695.2 704.3	636.7 639.3 661.3	635.2 638.0 660.8	1.4 1.3 0.5	53.6 55.9 43.0	47.1 50.2 38.5	6.6 5.7 4.5	4,607.3 4,652.9 4,675.5	3,404.7 3,438.3 3,482.4
Feb.	2,764.9 2,456.9 2,781.3 2,468.8		321.0 319.2	320.0 318.8	1.1 0.4	26.9 32.9	23.7 30.3	3.2 2.6	2,417.0 2,429.1	1,816.8 1,822.6
1990	210.01								(	Changes *
1991 1992 1993 1994	+ 219.9 + 186.7 + 285.7 + 280.5 + 294.3 + 240.3 + 339.8 + 253.7 + 320.5 + 244.0 + 312.8 + 311.9	+ 70.9 + 16.9 - 15.1 + 13.2	+ 73.5 + 72.0 + 18.1 - 9.2 + 7.0	+ 73.9 + 71.7 + 18.3 - 11.9 + 9.9	- 0.4 + 0.2 - 0.1 + 2.7 - 2.9	+ 3.0 - 1.0 - 1.2 - 5.9 + 6.2	- 0.4 + 7.2 + 0.8 + 1.2 + 6.6	+ 3.4 - 8.2 - 2.0 - 7.2 - 0.4	+ 143.4 + 214.7 + 277.4 + 354.9 + 307.2	+ 104.8 + 186.9 + 229.7 + 251.7 + 249.1
1996 1997 1998 1997 Sep.	+ 336.3 + 312.9 + 285.2 + 256.9 + 335.3 + 285.5 + 13.3 + 25.6	+ 33.9 + 44.3 + 2.7 + 51.7 + 8.3	+ 37.9 + 32.6 + 5.9 + 50.6 + 11.0	+ 37.7 + 32.2 + 5.9 + 51.2 + 11.0	+ 0.2 + 0.4 + 0.0 - 0.6	- 1,9 + 11.7 - 3.2 + 1.1 - 2,7	- 1.0 + 7.4 - 0.1 - 1.6 - 2.1	- 1.0 + 4.3 - 3.0 + 2.7	+ 276.9 + 292.0 + 282.5 + 283.6	+ 185.1 + 221.5 + 219.9 + 258.3
Oct. Nov. Dec.	+ 31.3 + 39.9 + 17.1 + 37.6	+ 3.9 + 6.0 + 1.1	- 6.5 - 2.1 + 19.9	- 6.2 - 1.9 + 20.4	- 0.3 - 0.2 - 0.5	+ 10.4 + 8.1 - 18.8	+ 8.8 + 8.6 - 18.4	- 0.6 + 1.6 - 0.5 - 0.4	+ 4.9 + 27.4 + 34.0 + 16.0	+ 12.1 + 16.3 + 21.7 + 32.7
1998 Jan. Feb. Mar.	+ 23.6 - 6.5 + 30.1 + 28.6 + 49.6 + 9.6	- 17.7 + 11.7 + 0.0	- 16.4 + 0.5 + 7.2	- 17.6 + 0.9 + 7.4	+ 1.2 - 0.4 - 0.2	- 1.3 + 11.2 - 7.1	- 2.0 + 11.9 - 7.1	+ 0.7 - 0.7 - 0.1	+ 41.3 + 18.4 + 49.5	+ 25.4 + 18.1 + 30.1
Apr. May June July	+ 43.4 + 24.6 + 10.9 + 5.8 + 14.9 + 23.7 + 13.6 + 24.5	+ 11.5 - 7.3 + 14.2	+ 6.5 + 7.5 + 13.1	+ 6.4 + 7.2 + 13.8	+ 0.1 + 0.2 - 0.7	+ 5.0 - 14.7 + 1.1	+ 1.6 - 13.0 + 0.6	+ 3.5 - 1.7 + 0.5	+ 31.9 + 18.2 + 0.7	+ 27.5 + 12.7 - 4.0
Aug. Sep. Oct. Nov.	+ 16.7 + 18.4 + 12.5 + 25.8 + 32.7 + 23.5	+ 0.5 + 2.3 + 14.4 + 3.5	- 8.9 + 1.1 + 14.2 - 3.4	- 8.5 + 1.1 + 14.0 - 3.7	- 0.4 + 0.0 + 0.2 + 0.4	+ 9.4 + 1.3 + 0.2 + 6.8	+ 9.2 + 2.8 + 1.5 + 1.6	+ 0.2 - 1.5 - 1.4 + 5.2	+ 13.1 + 14.4 - 1.8 + 29.3	+ 20.6 + 13.3 + 14.3 + 22.4
Dec. 1999 Jan. Feb.	+ 49.9 + 25.0 + 37.3 + 82.2 + 18.3 + 22.6 + 15.9 + 11.4	+ 4.4 + 14.2 + 4.5 + 3.6	+ 2.1 + 27.1 - 0.8 - 2.4	+ 2.3 + 27.9 - 1.7 - 1.8	- 0.1 - 0.9 + 0.8 - 0.6	+ 2.2 - 12.9 + 5.3 + 6.1	+ 3.1 - 11.8 + 4.5 + 6.6	- 0.9 - 1.1 + 0.8 - 0.6	+ 45.6 + 23.1 + 13.7 + 12.3	+ 33.6 + 44.4 + 14.1 + 5.9
	* See table IV 2 feetnets to the								·- •	

<sup>\*</sup> 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 other negotiable money market paper; excluding mobilisation and liquidity paper. — 6 From 1999, breakdown of lending against securities by medium

lending 2, 6				gyrgyynigdi wy dyffiddiad ac cyclolog ac 142000 f ar th	***************************************							
	dividuals 1, 2	gyggggggyng, eng mann, gygng yf fallath ann this 1800 er 1900 000		***************************************	to public aut	horities 2				Quarter and a commence of the Commence of the		
Loans and ac evidenced by	dvances not	yydii 200-40-40-40-00-00-10-10-00-00-00-00-00-00-00-00-00				Loans and ac evidenced by		man ni dažštan mež zgonidnih gozgán nogdego ún nive				
Total	Medium- term 7	Long- term <sup>8</sup>	Securitíes <sup>6</sup>	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 <sup>9</sup>	Period
End of ye	ear or mor	nth *									70	
1,446.4	138.6	1,307.9	41.2	60.0	536.8	420.3	30.7	389.6	102.8	1.9	11.8	1989
1,635.9 1,814.1 2,011.5 2,241.5 2,390.4	159.9 213.7 263.5 253.9 228.3	1,476.0 1,600.3 1,748.0 1,987.5 2,162.0	53.1 65.8 90.3 134.2 203.2	61.5 62.0 65.7 66.1 68.3	637.1 682.9 734.1 821.4 891.8	443.7 472.0 487.8 537.1 577.0	42.8 51.3 47.6 36.8 34.5	401.0 420.8 440.2 500.3 542.5	118.7 115.5 147.2 193.5 230.5	1.7 2.4 64.3 75.3 68.1	12.4 13.1 13.9 15.5 16.1	1990 1991 1992 1993 1994 1995
2,522.0 2,713.3 2,900.0 3,104.5	214.1 215.8 216.2 206.8	2,307.9 2,497.5 2,683.8 2,897.8	192.9 205.9 234.1 292.4	70.6 88.0 89.3 85.4	1,036.2 1,103.6 1,167.2 1,193.2	713.0 773.0 833.8 868.8	74.5 69.5 53.0 33.1	638.4 703.6 780.8 835.7	234.4 231.3 239.2 235.4	71.3 81.3 76.0 71.6	17.3 18.0 18.3 17.3	1996 1997 1998 1997 Sep.
2,831.6 2,851.6 2,870.7 2,900.0	215.1 215.2 214.9 216.2	2,616.5 2,636.4 2,655.7 2,683.8	233.5 229.8 232.2 234.1	88.9 89.1 89.3 89.3	1,160.6 1,171.7 1,183.9 1,167.2	807.8 819.3 829.1 833.8	56.6 54.9 55.5 53.0	751.2 764.5 773.6 780.8	257.1 256.7 260.1 239.2	77.6 77.5 76.6 76.0	18.1 18.2 18.3	Oct. Nov Dec.
2,906.1 2,916.2 2,924.1	214.4 214.1 213.3	2,691.7 2,702.1 2,710.7	260.6 282.1	89.9 90.1 90.0 89.8	1,183.0 1,183.2 1,202.6 1,207.1	840.3 845.9 846.8 849.3	50.1 49.4 43.8 44.0	1	248.4 243.1 261.5 263.8	76.1 76.1 76.4 75.9	18.3 18.1 18.0 18.0	1998 Jan. Feb. Mar Apr.
2,938.3 2,949.3 2,959.3 2,982.7	213.5 213.2 212.3 213.9	2,724.8 2,736.0 2,747.0 2,768.9	295.5 297.8 287.0 282.2	89.3	1,212.6	850.6 849.9 850.1	42.9 41.2 38.1	807.7 808.7	268.2 275.2 269.2	75.9 75.4	17.9 17.8 17.6	May June July
2,996.4 2,996.4 3,011.0	213.0 213.5	2,783.4 2,797.5		89.8 89.7	1,211.9 1,195.7	850.8 846.8 851.4	36.0 35.6	814.8 811.2 815.6	260.1	73.5	17.6 17.6 17.6	Aug Sep Oct
3,050.4 3,104.5 1,662.8	210.7 206.8	2,839.7 2,897.8	1	85.4	1,214.6 1,193.2 600.2	1	33.1	835.7	271.2 235.4 113.3	71.6	17.6 17.3 8.9	Nov Dec 1999 Jan.
1,666.3									116.6	36.5	8.9	Feb.
Changes			,			30.4	. 42.4		+ 18.2	- 0.3	+ 0.5	1990
+ 91.1 + 175.2 + 204.1 + 214.1 + 198.7	+ 39.4 + 29.6 - 28.9	+ 135.8 + 174.5 + 243.0	+ 14.2 + 24.8 + 37.1	- 2.4 + 0.8 + 0.5	+ 33.1 + 41.2 + 104.1	+ 28.3 + 15.7 + 48.2	+ 8.5 - 3.6 - 10.8	+ 19.8 + 19.3 + 59.0	- 0.9 + 32.2 + 65.1	- 0.3 - 1.0 - 11.4	+ 0.5 + 0.7	1991 1992 1993 1994
+ 176.0 + 204.4 + 189.0 + 205.7	- 1.9 + 1.6 + 0.3	+ 177.9 + 202.8 + 188.7	+ 3.3 + 14.0 + 29.5	+ 5.9 + 3.1 + 1.4	+ 70.4 + 62.6	+ 65.7 + 60.6	- 5.5 - 18.0	i + 71.2 + 78.6	- 3.3 + 7.0	+ 8.0 - 5.3	+ 0.2	1995 1996 1997 1998
+ 12.6	+ 0.8	+ 11.8	- 0.6	+ 0.0	- 7.1	+ 3.9	+ 0.0	+ 3.9	- 11.0		+ 0.1	1997 Sep
+ 20.0 + 19.1 + 30.9	- 0.3	+ 19.4	+ 2.4	+ 0.2	+ 12.3	+ 9.8	+ 0.6	+ 9.2	+ 3.3	- 0.9	+ 0.1	Oct. Nov Dec
+ 6.1 + 10.2 + 8.7	- 0.3	+ 10.5	+ 7.7	+ 0.2	+ 0.3	+ 5.7	- 0.7	+ 6.4	- 5.2	+ 0.0	- 0.2 - 0.1	1998 Jan. Feb Mai
+ 14.2 + 11.0 + 10.1	0.2	+ 11.2	+ 2.3	- 0.5	i + 5.5	+ 1.3	- 1.1 - 1.7	+ 2.4	+ 4.3 + 6.0	+ 0.0	- 0.1 - 0.1	Apr May Jun
+ 23.4 + 13.7 + 14.4	7 – 0.8	+ 14.5	- 0.6	+ 0.1 - 0.1	+ 1.1 - 16.1	+ 0.7 - 4.0	– 2.0 – 0.4	) + 2.8 1 - 3.6	+ 0.5 - 11.9	0 – 0.2 0 – 0.3	- 0.0 + 0.0	Aug Sep
+ 20.9 + 18.5 + 54.5	5 - 2.3 5 - 3.8	+ 20.8 + 58.3	3 + 14.9 3 - 5.5	+ 0.2	+ 12.0 5 – 21.3	+ 1.0 3 + 16.5	) – 1.5 – 1.2	+ 2.5 2 + 17.7	+ 11.1	- 0.0 7 – 1.8	+ 0.0	Nov Dec
+ 14.9												

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. — 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. — 12 See the note on the title page of the Statistical Section (page 1\*) and the footnotes to the changed items. Up to February 1999, this table was numbered IV.6.

### IV. Banks

6. Lending to domestic enterprises and individuals, housing loans, sectors of economic activity \*

DM	hil	lior

	DIVI DIIIION													
	Lending to	domestic e	enterprises a	and individu	ials (excludi	ng portfoli	os of negot	iable mone	y market pa	per and ex	cluding secu	urities portf	olios)	
	-	ما در اما											······	
		of which Housing lo	oans		Lending to	enterprise	s and self-e	mployed pe	rsons					
								l				Transport		
	Manage de la companya del companya de la companya del companya de la companya de			***************************************		ī	SHEET COLUMN					telecomm	unications 	4
	Consequence of the consequence o		Mortgage loans	Notice control of the			TAMPOLOGISTHESIS OF THE STATE O		Andrews	d mindels of philosophy of the			of which	Financial institu- tions 3
			secured by	041		.6.121	Professional Profe	Energy and			Agri- culture		German Railways,	and insur-
Period	T-4-1	T-4-1	residen- tial real	Other housing		of which Housing	Manufac-	water supply,	Construc-	Distribu-	and forestry,		post office,	ance enter-
renou	Total	Total	estate	loans	Total	loans	turing	mining 1	tion	tion 2	fisheries	Total	Telekom	prises
1005	Lending		_									End of y	year or o	ıuarter *
1995 1996	3,175.9 3,417.4	1,303.8 1,433.7	807.8 887.1	496.0 546.5	1,965.3 2,111.1	481.8 534.7	316.9 320.6	61.9 64.1	117.2 121.0	310.6 323.2	56.9 58.9	76.1 75.4	14.1 10.6	87.5 101.8
1997 Dec.	3,614.1	1,543.9	968.2	575.7	2,225.2	574.4	318.5	66.6	122.7	334.9	60.5	77.2	8.0	, ,
1998 Mar. June	3,629.9 3,682.6	1,560.9 1,579.2	983.0 993.7	577.9 585.5	2,233.9 2,266.6	582.1 589.1	321.3 324.5	67.1 69.0	123.4 124.9	330.3 333.7	60.9 62.1	78.4	6.9	117.5 120.4
Sep. Dec.	3,739.5 3,850.8	1,579.2 1,606.5 1,654.9	1,012.4	594.1 614.0	2,233.9 2,266.6 2,297.0 2,367.1	598.3 614.9	324.4	69.0 67.9 70.7	125.3 124.2	336.4 343.1	63.8	80.1 80.6 80.9	6.6 6.7	124.9
	Short-term		1,040.5	014.01	2,307.11	014.5	331.3	70.7	124.2	343.1	1 63.7	1 80.9	5.9	1 132.8
1995 1996	583.3 616.2	33.4 35.9	-	33.4 35.9	495.3 524.5	24.4 26.8	116.9 116.2	5.7	39.6	122.3 126.1	9.1	12.7	1.9	17.6 23.3
1997 Dec.	624.8	34.6	_	34.6	534.4	26.3	116.2	6.5 6.1	38.7 37.5	126.1 132.0	9.2 8.7	11.7 11.8	0.4 0.6	23.3
1998 Mar. June	615.9 634.0	33.2 33.9	-	33.2	528.8	25.2	117.0		38.5	128.7 130.8	8.8	12.4	0.8	
Sep. Dec.	638.8	34.5	_ _	33.9 34.5	542.8 543.8	25.7 25.6	120.0 119.8	6.3 7.3 6.5	39.2 38.7	130.4	9.4 9.7	13.6 13.5	0.7 1.1	27.7 25.9 26.4
Dec.	660.8	36.7 erm lending	i - i	36.7	561.3	27.9	120.6	8.8	36.1	133.9	8.8	12.1	0.8	26.4 28.5
1995	214.1	39.7 41.5	,   -	39.7	135.2 135.6	16.6	18.4	2.2	11.3	18.0	4.4	8.1	1 13	1 153
1996 1997 Dec.	215.8 216.2		-	41.5		16.6 17.3	18.4 18.4	2.2 1.8	10.5	18.0 17.4		8.0	1.3 0.6	15.3 15.8
1998 Mar.	213.3	42.3 42.3	_ _	42.3 42.3	137.8 135.9	17.8 18.2	17.6 16.9	1.6	10.0 9.8	16.7 16.9	4.7	7.7	0.2	17.0
June Sep.	212.3 213.5	42.3 42.0 41.4	- -	42.0 41.4	134.2 135.8	18.1 17.8	16.6 16.5	1.4 1.7 1.7	9.6	16.4 16.7	4.6 4.7	7.5 7.2 7.0	0.2 0.1	16.9 16.9
Dec.	206.8	39.3	- 1	39.3	132.2	17.4	16.1	1.5	9.7 9.3	16.1	4.8 4.5	7.0 6.8	0.0 0.0	17.2 17.3
1005	Long-term													
1995 1996	2,378.5 2,585.5	1,230.7 1,356.3	807.8 887.1	422.9 469.1	1,334.8 1,451.1	440.7 490.7	181.6 186.0	54.0 55.8	66.2 71.7	170.3 179.6	43.3 45.1	55.2 55.6	11.0 9.7	54.6 62.7
1997 Dec.	2,773.1	1,467.0	968.2	498.8	1,553.0	530.3	186.5	58.9	75.2	186.1	47.2	57.7	7.2	71.1
1998 Mar. June	2,800.7 2,836.3	1,485.5 1,503.3	983.0 993.7	502.5 509.5	1,569.3 1,589.6	538.6 545.2	187.4 187.8	59. <b>4</b> 60.0	75.1 76.1	184.7 186.5	47.4 48.1	58.6 59.3	6.0 5.8	72.9 77.6
Sep. Dec.	2,887.2 2,983.2	1,530.7 1,578.9	1,012.4 1,040.9	518.3 538.0	1,617.5 1,673.5	554.8 569.6	188.1 194.8	59.6 60.4	76.8 78.8	189.4 193.1	49.3 50.4	60.1 62.0	5.6 5.1	81.4 87.0
	Lending,	total							, 5.5	.55.1,				
1000 1et et											(	Change o	during q	uarter *
1998 1st qtr 2nd qtr	+ 16.3 + 62.1	+ 13.8 + 21.2	+ 13.0 + 13.9	+ 0.8 + 7.3	+ 9.4 + 39.2	+ 5.6 + 7.1	+ 3.4 + 3.2	+ 0.6 + 1.8	+ 0.7 + 1.5	- 4.1 + 3.5	+ 0.4 + 1.3	+ 1.3 + 1.7	- 1.1 - 0.3	+ 1.6 + 8.8
3rd atr 4th atr	+ 58.5 + 116.1	+ 28.7 + 49.0	+ 19.0 + 27.3	+ 9.7 + 21.7	+ 30.3 + 74.6	+ 9.1 + 17.0	- 0.1	- 0.9	+ 0.3	+ 2.4	+ 1.7	+ 0.7	+ 0.2	+ 3.0
	Short-term	lending						•			5	. 0.51	0.01	7 7.5
1998 1st qtr 2nd qtr	- 9.3 + 27.5	- 1.4 + 0.8	-1	- 1.4 + 0.8	- 6.0 + 23.4	- 1.1 + 0.5	+ 2.6 + 3.0	+ 0.2 + 1.0	+ 1.1 + 0.7	- 3.8	+ 0.1	+ 0.5	+ 0.2	- 0.2 + 6.9
3rd qtr 4th qtr	+ 6.6 + 26.5	+ 0.5	-1	+ 0.5 + 2.6	+ 2.5 + 22.0	- 0.1 + 2.3	+ 3.0 - 0.2 + 0.9	+ 0.2 + 1.0 - 0.8 + 2.3	+ 0.7 - 0.5 - 2.4	+ 2.2 - 0.7 + 3.6	+ 0.6 + 0.3	+ 1.3	- 0.1 + 0.4	+ 0.5
	Medium-te		- ;	+ 2.01	+ 22.01	7 2.31	+ 0.91	+ 2.31	- 2.41	+ 3.6	- 0.91	- 1.4	- 0.4	+ 2.1
1998 1st qtr 2nd qtr	- 2.4	- 1.4 - 0.3	-1	- 1.4	- 1.4	- 0.9 - 0.2	- 0.2 - 0.3	- 0.2 + 0.2	- 0.1	+ 0.2	- 0.1 j	- 0.1	- 0.11	- 0.0
3rd qtr	- 1.1 + 1.2	- 0.6	-  -	- 0.3 - 0.6 - 1.9	- 1.4 - 1.6 + 1.5	- 0.21	- 0.1	+ 0.1	- 0.1 - 0.2 + 0.1	- 0.4 + 0.2	+ 0.1 + 0.1	- 0.3 - 0.1	- 0.0 - 0.1	- 0.1 + 0.3
4th qtr	- 6.6 Long-term	- 1.9   lending	-1	- 1.9	- 3.5	- 0.5	- 0.4	- 0.2	- 0.4	- 0.5	- 0.31	- 0.2	+ 0.0	
1998 1st qtr	+ 28.1	+ 16.6 (	+ 13.0	+ 3.61	+ 16.81	+ 761	+ 1.0	+ 0.6	- 0.2	_ 051	וכח ב	. 001	4 3 4	
2nd qtr 3rd qtr	+ 35.6 + 50.7	+ 20.8 + 28.8	+ 13.9 + 19.0	+ 3.6 + 6.9 + 9.8	+ 16.8 + 17.5 + 26.3	+ 7.6 + 6.7 + 9.4	+ 04	+ 0.61	+ 1.0 + 0.7	+ 1.8 + 2.9	+ 0.3 + 0.7 + 1.2	+ 0.8	- 1.2 - 0.2 - 0.2	+ 1.8
4th qtr			+ 27.3	+ 21.0	+ 56.1	+ 15.1	+ 0.2	- 0.2 + 0.7	+ 2.0	+ 2.9 + 3.8	+ 1.2 + 1.1	+ 0.9 + 1.9	- 0.2 - 0.2 - 0.5	+ 2.2 + 5.7
	e de la													

<sup>\*</sup> Excluding lending of foreign branches and of building and loan associations; including lending to building and loan associations. From June 1990 including lending of east German credit institutions. Statistical alterations have been eliminated from the changes. From March 1995 the figures have been collected and published on the basis of the "Klassifikation der Wirt-

schaftszweige" ("Classification of economic activities") of the Federal Statistical Office, Edition 1993 (WZ 93). The switch from the "old" to the "new" classification of economic sectors has resulted in a multitude of changes between the individual areas and sectors. The statistical adjustment of the

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	0	f which		e comital a figure pod a Confederação do America		nde Sol é sud alláhóun é nvikölélentettá		_endin	g to		ведный прадпинатипациороду «мень» і дедно (поврождаже		Biggisssachatassache drammenend defoafere		OSSELLARIA AND AND AND AND AND AND AND AND AND AN		y projectoj se se se se se se se se se se se se se	O1 44		Debit balances on wage and salary accounts			ofb	ich	
		lousing		vestment	t e		ŀ	self- emplo		Lendin craft	_	<b>-</b>		Hous		T-4-		Insta credi		and pension accounts	Tot	t al	of wh Housi loans		Period
Total		nterprises			e	enterprise	sir	oerson	S ]	enterp	rises	iotai		loans		Tota		creu	16 -	accounts	1101	Lendi		otal	Teriod
		ar or qu				216	4 T	7	<b>N2 2 l</b>	. 1	2121	1	18/13		813.7	ı	370.6		182.1	40.5	. 1			8.3	1995
938 1,046		217.6 249.9		41.3 47.6	5	216. 247.	4		03.3 50.2	t .	31.3 36.2		,184.3 ,279.3		890.5		388.8		192.5	42.2	2	26.3 27.0 28.5		8.4 8.6	1996 1997 Dec.
1,128 1,134	1	277.6 285.0		56.3 61.0	-	270. 266.			81.1 82.8		39.8 41.0		,360.4 ,368.1		960.8 970.1		399.6 398.0		201.7 203.2	42.6 41.9	9	27.9		8.7	1998 Mar.
1,151 1,173	.8	285.0 288.8 296.4		64.1 63.4	1	271. 277.	1 [	7	92.1 01.1	1	42.2 42.8 43.6	1	,368.1 ,387.8 ,413.4		981.4 999.6		406.4 413.9		205.0 206.9	43.0 44.9 44.6	9	28.2 29.1	Control of the Contro	8.8	June Sep.
1,220		305.9	1	70.1		285.	8	8	21.2	1	43.6	1	,455.0	1	,031.2	l	423.7		207.7	44.6	<b>)</b>	28.8 Short-te		8.8 nding	Dec.
171	.4	29.0 33.4	) [	15.5 18.7		43.	9	1	05.8 07.7		34.9		85.6 89.2		8.9		76.8 80.2		4.0 3.9	40.5 42.2		2.4 2.4		0.1 0.1	1995 1996
192 195	- 1	33.4 34.9		18.7 21.5	- 8	53. 54.	- 1		07.7		34.3 33.0		89.2 87.3		9.0 8.2		79.1		4.2	42.4	-1	3.1		0.1	1997 Dec.
189	.5	35.8	3	23.9		49. 48.	- 6		00.4 02.3		34 n		84.6		7.9 8.1		76.8 80.5		4.3 4.4	41.9 43.9		2.5 2.6 3.0		0.1 0.1	1998 Mar. June
196 198	.8	38.6 39.1 41.5	1	26.4 24.1 26.6	1	48. 50. 54.	8	1	02.3 02.7 06.6		34.4 34.0 32.3		88.6 92.1 97.0		8.8 8.8		83.3 88.2		4.1 4.4	44.9	9 [	3.0 2.5		0.0	Sep. Dec.
212	. D §	41.3	) į	20.6	) }	J4.	2 ;	ļ.	VO.0	F	J2.J	,	37.0		0.0		00.2			*		/ledium-t	erm lei	nding	
57 58	.3	8.3 8.9	3 [	3.8 3.9	3	12. 13.	4		40.9 41.2	0.000	6.7 6.9		78.2 79.3		23.0 24.1		55.1 55.2		41.4 41.2	distribution -	-1	0.8 0.9		0.1 0.1	1995 1996
62	1	10.8	1	5.1	1	13.	- 1		40.2	-	6.6		77.8		24.3		53.4		39.3	-	- Carron	0.7	program are already	0.1	1997 Dec.
61 61	.8	10.9 10.8	) [ }	5.1 4.8	1	13. 12.	2		39.3 39.0		6.6 6.5		76.9 77.4		23.9 23.8	-	52.9 53.6 53.7 52.2		38.8 38.9	-	-   -   -	0.6 0.6 0.6	a-va-va-va-va-va-va-va-va-va-va-va-va-va	0.1 0.1	1998 Mar. June
62 60	.1	10.6 10.0	5	4.8 4.7 5.3	7	13. 12.	2		39.0 36.8	политичения полит	6.4 6.4		77.1 74.0		23.4 21.8		53.7 52.2		38.6 37.6	-	-	0.6 0.6	00000	0.1 0.1	Sep. Dec.
																	2227		425.5		ı	Long-t		nding 8.1	1995
709 794	.5	180.2 207.7	2	22.1 25.0	<u></u>	160. 181.			56.6 501.3	and the second s	89.7 95.1	1	1,020.5 1,110.8		781.9 857.4		238.7 253.4		136.6 147.5		-	23.1 23.6		8.2	1996
870		231.8	-	29.8	1	203.	- 1		37.5	§	00.2	I	1,195.4	- Andread of the last of the l	928.3		267.1		158.3	-	-	24.7 24.8	1	8.5 8.5	1997 Dec. 1998 Mar.
883 894 912	.1	238.4 239.4 246.6	1	32.0 32.9 34.0	9	204. 209. 213.	8	(	543.1 550.8 559.4 577.9	1 1	00.4 01.3 02.3		1,206.6 1,221.7 1,244.2		938.3 949.4 967.4		268.3 272.3 276.9		160.1 161.7 164.2		- 1 - 1	25.0 25.5 25.7		8.6 8.6	June Sep.
947	.1 }	254.4	1	38.	1 ]	219.	.1	(	577.9	1	04.9	1	1,283.9	1 1	1,000.6	***************************************	283.3	attee	165.8	over .	- 1	Lend		8.7 letal	Dec.
_		luring c							2.5			¥ .	7.5		0.1		0.6		15	ì O	ΩΙ	- 0.6		0.1	1998 1st qtr
+ 17 + 23 + 50	.6 7.5 3.2	+ 5.5 + 4.5 + 7.5 + 9.5	5 7	+ 3.5 + 3. - 0.5 + 6.6	1			+ + +	2.5 9.3 9.0 20.6	++	1.2 1.1 0.6 0.8	+	27.4	+	8.1 14.1 19.7 31.9	+++	0.6 8.4 7.7 9.9		1.5 1.8 1.9 1.4	+ 1.	0	+ 0.3 + 0.8 - 0.3	+ - +	0.1 0.1 0.1	2nd qtr 3rd qtr 4th qtr
																	2.2	4 .	0.1		0	Short-t		nding 0.0	1998 1st gtr
+ +	7.8 7.8 3.9 7.6	- 0.5 + 2.5 + 0.5 + 2.7	8 5	+ 2. + 2. - 2. + 2.	5	- 3 - 0 + 2 + 7	.51 .5 .4	+ + +	2.6 1.9 0.4 4.2	+ -	1.0 0.3 0.4 1.6	++		+ +	0.3 0.2 0.7 0.3		2.3 3.8 3.1 4.7	+	0.1 0.1 0.0 0.3	+ 2.	0	+ 0.7 + 0.4 - 0.5	+	0.0 0.0 0.0	2nd qtr 3rd qtr 4th qtr
L) on I and then three I														,			0.5	E	0.5	i	ı	Medium-t 0.0		nding 0.0	1998 1st qtr
- (	0.8   0.7   0.9   1.5	+ 0.9 - 0.9 - 0.9	1 2	+ 0. - 0. - 0. + 0.	3	- 0 + 0	.3.4.5.6	- - -	0.4 0.3 0.0 2.2	-	0.0 0.1 0.1 0.0	+	1.0 0.6 0.3 3.1	-	0.5 0.1 0.3 1.5	++	0.5 0.7 0.1 1.6					- 0.0 - 0.0 - 0.0	+	0.0 0.0 0.0	2nd qtr 3rd qtr 4th qtr
Constitution 40	. ,														_			*		. 8	3	_	term le	_	1000 100 000
+ 10	3.0 0.4 3.4 4.1	+ 5.° + 1.° + 7.° + 7.	4	+ 1. + 0. + 1. + 3.	9	+ 4 + 3	.0	+ + + +	5.6 7.7 8.6 18.6	+ +	0.1 0.9 1.1 2.5	+ +	17.9 24.0	+ +	8.9 14.0 19.4 33.1	++	4.6	+ +	1.9 1.5 2.2 2.1			+ 0.1 + 0.2 + 0.4 + 0.3	+ -	0.1 0.1 0.1 0.1	1998 1st qtr 2nd qtr 3rd qtr 4th qtr
1 + 3	<del>+</del> ,   }	+ /.	υţ	т Э.	<b>~</b> [	- U	+ 1		. 5.0				33.3		,										

consequent breaks was possible only in part. 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 the extraction of stones and earths. — 2 Including the mainten-

ance and repair of motor vehicles and consumer goods. — 3 Excluding credit institutions (with the exception of building and loan associations). — 4 Excluding mortgage loans and housing loans, even in the form of instalment credit.

Table changed 9

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

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

	Until the	ena ot 195	8 DM billi	on, from 1	999 euro b	illion	*******************************			***************************************	·	·	·		**************************************
		Sight dep	osits 2	ŗ	Time dep	osits 1, 3, 4	T	Million Commence of the Commen		Marie de la companione de la companione de la companione de la companione de la companione de la companione de			Memo ite	m:	
							for more	than 1 yea	r		Management of the Control of the Con			-	
								of which:						Subordin-	Included
	AND THE PROPERTY OF THE PROPER					for up				for				ated liabilities	in time deposits:
Period	Deposits, total 1	Total	on demand	for less than 1 month	Total	to and including 1 year 4	Total	for up to 2 years	for less than 4 years	4 years and more 1	Savings deposits	Bank savings bonds 5	Loans on a trust basis 6	(excluding negoti- able debt securities)	liabilities arising from repos 7
		tic non-	banks, 1	otal 8									End o	f year or	month *
1996 1997 1998	3,241.5 3,341.9 3,520.3	675.1 689.8 799.5	646.7 659.7 760.2	28.4 30.2 39.3	1,109.8 1,146.9 1,194.1	387.9 382.0 398.8	721.9 765.0 795.3	,	11.1 10.9 13.4	710.8 754.0 781.9	1,143.0 1,182.1 1,211.0	227.8 236.9 234.9	85.8 86.1 80.9	33.7 40.9 45.6	
1998 Apr. May June	3,323.8 3,334.5 3,337.7	663.0 665.4 680.2	642.6 644.9 662.4	20.3 20.6 17.9	1,151.6 1,162.3 1,153.6	373.5 381.0 372.2	778.0 781.2 781.4		11.5 11.5 11.6	766.6 769.7 769.8	1,180.8 1,178.1 1,175.2	241.9 242.3 242.0	86.5 86.4 86.6	42.4 42.6 42.8	
July Aug. Sep.	3,330.8 3,358.1 3,353.9	665.2 684.9 691.6	646.3 666.0 671.8	19.0 18.9 19.8	1,163.9 1,173.1 1,164.5	376.8 380.8 373.6	787.1 792.3 791.0		12.0 12.4 12.3	775.1 779.8 778.6	1,173.1 1,172.3 1,170.9	241.7 241.2 240.1	86.8 86.8 86.8	43.2 43.5 43.9	
Oct. Nov. Dec.	3,370.4 3,418.5 3,520.3	705.0 754.1 799.5	684.4 732.3 760.2	20.6 21.8 39.3	1,165.6 1,163.4 1,194.1	374.1 370.8 398.8	791.4 792.6 795.3		13.2 13.5 13.4	778.3 779.1 781.9	1,174.0 1,177.1 1,211.0	238.5 236.2 234.9	87.3 87.7 80.9	44.2 45.1 45.6	
1999 Jan. Feb.	1,835.4 1,838.6	376.5 379.4	376.5 379.4		629.4 630.6	228.5 228.4	400.9 402.2	3.8 3.7	·		711.9 713.0	117.6 115.6	41.6 41.7	23.6 23.9	0.1 0.1
															hanges *
1997 1998	+ 100.5 + 179.3	+ 13.0 + 110.6	+ 11.3 + 101.5	+ 1.7 + 9.1	+ 37.1 + 47.2	- 6.0 + 16.8	+ 43.0 + 30.4		- 0.2 + 2.5	+ 43.2 + 27.9	+ 39.1 + 28.9	+ 9.2 - 2.1	+ 2.1 - 5.3	+ 7.3 + 4.7	
1998 Apr. May June	+ 5.9 + 10.9 + 2.9	+ 10.7 + 2.7 + 14.5	+ 10.2 + 2.5 + 17.2	+ 0.5 + 0.3 - 2.7	- 0.7 + 10.7 - 8.6	- 3.7 + 7.5 - 8.9	+ 3.0 + 3.2 + 0.2		+ 0.0 + 0.1 + 0.1	+ 3.0 + 3.2 + 0.1	- 5.0 - 2.7 - 2.9	+ 1.0 + 0.3 - 0.2	- 0.0 - 0.1 + 0.2	+ 0.6 + 0.2 + 0.2	
July Aug. Sep.	- 6.5 + 27.4 - 3.4	- 14.6 + 19.7 + 7.5	- 15.7 + 19.8 + 6.7	+ 1.1 - 0.1 + 0.9	+ 10.3 + 9.1 - 8.5	+ 4.6 + 4.0 - 7.3	+ 5.7 + 5.2 - 1.3		+ 0.4 + 0.5 – 0.1	+ 5.3 + 4.7 – 1.2	- 2.1 - 0.9 - 1.3	- 0.3 - 0.6 - 1.1	+ 0.2 + 0.0 + 0.0	+ 0.4 + 0.3 + 0.4	
Oct. Nov. Dec.	+ 16.5 + 47.7 + 101.9	+ 13.4 + 48.7 + 45.6	+ 12.6 + 47.4 + 28.1	+ 0.8 + 1.2 + 17.5	+ 1.1 - 2.2 + 30.7	+ 0.6 - 3.3 + 27.9	+ 0.5 + 1.2 + 2.7	· ·	+ 0.8 + 0.3 - 0.1	- 0.4 + 0.8 + 2.8	+ 3.1 + 3.2 + 33.8	- 1.5 - 2.3 - 1.4	+ 0.5 + 0.4 - 6.8	+ 0.3 + 0.9 + 0.5	· ·
1999 Jan. Feb.	- 1.0 + 2.9	- 9.6 + 2.6	- 9.6 + 2.6		+ 9.3 + 1.2	+ 7.5 - 0.1	+ 1.9 + 1.3	- 0.1	.		+ 1.7 + 1.1	- 2.4 - 2.0	+ 0.2 + 0.0	+ 0.2 + 0.3	+ 0.0
	Domest	ic publi	c autho	rities									End o	f year or	month *
1996 1997 1998	280.5 280.0 288.3	36.3 31.6 36.7	30.5 24.1 29.1	5.8 7.5 7.6	158.9 162.2 170.3	34.7 37.8 44.8	124.2 124.4 125.5		1.4 0.8 1.0	122.8 123.6 124.5	5.4 5.9 6.4	5.3 6.3 6.3	74.5 74.0 68.7	2.5 2.6 2.6	
1998 Apr. May June	265.9 273.2 272.8	22.9 23.5 24.7	19.4 19.4 21.3	3.4 4.0 3.4	156.6 162.8 161.3	32.6 38.4 38.0	124.1 124.4 123.4		0.9 0.8 0.9	123.2 123.6 122.5	5.9 6.5 6.5	6.5 6.4 6.2	74.1 73.9 74.2	2.5 2.5 2.6	
July Aug. Sep.	271.6 277.5 273.6	22.0 24.1 23.6	18.5 20.3 19.4	3.6 3.8 4.3	162.2 165.9 162.4	37.3 40.1 37.8	124.9 125.7 124.6		1.0 1.0 1.0	124.0 124.7 123.6	6.7 6.8 6.7	6.2 6.2 6.2	74.4 74.6 74.6	2.6 2.6 2.6	
Oct. Nov. Dec.	271.6 278.0 288.3	23.7 26.6 36.7	19.6 22.4 29.1	4.1 4.2 7.6	160.1 163.3 170.3	34.9 37.9 44.8	125.1 125.4 125.5		1.0 0.9 1.0	124.2 124.4 124.5	6.4 6.2 6.4	6.2 6.2 6.3	75.1 75.6 68.7	2.6 2.6 2.6	. encountry
1999 Jan. Feb.	110.4 111.9	12.8 14.6	12.8 14.6		91.3 91.2	27.8 28.0	63.5 63.2	0.4 0.4			4.0 4.0	2.3 2.1	35.2 35.3	1.2 1.2	-1
одоминением									·				33.31		nanges *
1997 1998	+ 0.9 + 8.3	- 4.7 + 5.1	- 6.4 + 5.0	+ 1.7 + 0.1	+ 2.9 + 8.3	+ 3.0 + 7.2	- 0.1 + 1.1		- 0.6 + 0.2	+ 0.5 + 1.0	+ 0.5 + 0.5	+ 1.0 + 0.1	+ 1.2 - 5.7	+ 0.1   - 0.0	
1998 Apr. May June	- 2.9 + 7.4 - 0.1	- 1.1 + 0.6 + 1.2	+ 0.1 + 0.0 + 1.8	- 1.2 + 0.6 - 0.7	- 1.5 + 6.3 - 1.2	- 1.3 + 5.9 - 0.4	- 0.2 + 0.4 - 0.8		+ 0.0 - 0.0 + 0.0	- 0.3 + 0.4 - 0.8	- 0.1 + 0.6 - 0.0	+ 0.0	- 0.2 - 0.1	- 0.0 + 0.0	
July Aug.	- 1.5 + 5.9	- 2.7 + 2.0	- 2.8 + 1.8	+ 0.2 + 0.2	+ 0.6 + 3.6	- 0.7 + 2.8	+ 1.3 + 0.8	- extraordiscontracer	+ 0.1 + 0.0	+ 1.2 + 0.8	+ 0.2 + 0.1	- 0.3 + 0.1 - 0.0	+ 0.2 + 0.2 + 0.2	+ 0.0 + 0.0 - 0.0	
Sep. Oct. Nov.	- 3.9 - 2.0 + 6.4	- 0.4 + 0.1 + 2.9	- 0.9 + 0.2	+ 0.5	- 3.5 - 2.3	- 2.3 - 2.9	+ 0.6		- 0.0 + 0.0	- 1.1 + 0.6	- 0.1 - 0.3	+ 0.0	+ 0.1 + 0.5	+ 0.0	
Dec. 1999 Jan.	+ 6.4 + 10.6	+ 2.9 + 10.1	+ 2.8 + 6.7	+ 0.1 + 3.4	+ 3.2 + 7.2	+ 3.0 + 7.0	+ 0.2		- 0.0 + 0.1	+ 0.3 + 0.1	- 0.2 + 0.1	+ 0.0 + 0.0	+ 0.4 - 6.8	+ 0.0 - 0.0	
Feb.	- 1.5 + 1.4	- 2.1 + 1.7	- 2.1 + 1.7		+ 1.2	+ 1.0	+ 0.2 - 0.3	+ 0.0	.1		+ 0.2 + 0.0	- 0.9 - 0.3	+ 0.1 + 0.1	- 0.1 - 0.0	-

<sup>\*</sup> 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 deposits from loans on a trust basis; see also footnote 6. — 2 Up

to December 1998, including time deposits for less than 1 month. — 3 Including subordinated liabilities and liabilities arising from registered debt securities. — 4 Up to December 1998, excluding time deposits for less than 1 month; see also footnote 2. — 5 Including liabilities arising from

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

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

	Until the	end of 19	***************************************	ion, from				@0.000-A.0000-A-000 <del>00-A</del> 0000 200	**************************************	1127 TTOMES : ** THE GREET - TH* ** TT = TH		T	W.C. CO. C. W. C. C. C. C. C. C. C. C. C. C. C. C. C.	A	
		Sight dep	osits 2	_	Time dep	osits 1, 3, 4	***************************************	000 (\$100 <b>-</b> 000 000 000 <del>100 000</del> 000 000 000	- ANT RESERVE OF TENANCE SERVICE AND CO.	ON NOTES AND THE PROPERTY OF THE PERSON OF T		***************************************	Memo ite	em:	1
	ļ						for more	than 1 yea	ar			ADMINISTRATION OF THE PROPERTY		2	4000000
								of which:	E2004-14030-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	y - MIN				Subordin- ated	Included in time
										_				liabilities	deposits:
				for less		for up to and		for	for less	for 4 years		Bank	Loans on	(excluding negoti-	liabilities arising
Dariad	Deposits,		on demand	than	Total	including	Total	up to 2 years	than 4 years	and more 1	Savings deposits	savings bonds 5	a trust basis 6		from repos 7
Period	total 1	Total		1 month	-		TOTAL	2 years	4 years	more ·	ueposits	Donus 3	Lamenton, story and	f year or	A
		tic ente				-								•	
1996 1997	2,961.1 3,061.8	638.8 658.2	616.2 635.5	22.6 22.7	950.9 984.7	353.2 344.2	597.7 640.5		9.7 10.1	588.0 630.4	1,137.6 1,176.2	222.5 230.6	11.3 12.1	31.1 38.3	
1998	3,231.9	762.8	731.2	31.7	1,023.8	354.0	669.8		12.4	657.4	1,204.6	228.6	12.1	43.0	
1998 Apr. May	3,057.9 3,061.2	640.1 642.0	623.2 625.4	16.9 16.5	995.0 999.4	341.0 342.6	654.0 656.8		10.6 10.7	643.4 646.1	1,175.0 1,171.6	235.4 235.8	12.4 12.5	39.9 40.0	
June	3,064.9	655.5	641.1	14.5	992.3	334.2	658.1		10.7	647.3	1,168.8	235.9	12.4	40.2	
July	3,059.2 3,080.7	643.2 660.8	627.8 645.7	15,4 15.1	1,001.7 1,007.2	339.5 340.7	662.2 666.5		11.0 11.4	651.2 655.1	1,166.4 1,165.5	235.5 235.0	12.4 12.2	40.6 40.9	- Internation
Aug. Sep.	3,080.3	667.9	652.4	15.5	1,007.2	335.7	666.4		11.4	655.1	1,164.2	233.8	12.2	41.3	
Oct.	3,098.8	681.2	664.8	16.4	1,005.5	339.2	666.3		12.2	654.1 654.7	1,167.6	232.3 230.0	12.2 12.1	41.6 42.5	
Nov. Dec.	3,140.6 3,231.9	727.5 762.8	709.9 731.2	17.6 31.7	1,000.1 1,023.8	332.9 354.0	667.2 669.8		12.6 12.4	657.4	1,170.9 1,204.6	230.0	12.1	42.5 43.0	
1999 Jan.	1,725.0	363.7	363.7		538.2	200.8	337.4	3.4			707.9	115.3	6.4		0.1
Feb.	1,726.7	364.8	364.8		539.4	200.4	339.0	3.3	!		709.0	113.5	6.4		1
															hanges *
1997 1998	+ 99.6 + 171.0	+ 17.8 + 105.5	+ 17.7 + 96.5	+ 0.1 + 9.0	+ 34.2 + 38.8	- 9.0 + 9.6	+ 43.2 + 29.3		+ 0.4 + 2.3	+ 42.7 + 26.9	+ 38.6 + 28.4	+ 8.2 - 2.2	+ 0.9 + 0.4	+ 7.1 + 4.7	
1998 Apr.	+ 8.8	+ 11.8	+ 10.1	+ 1.7	+ 0.8	- 2.4	+ 3.2		+ 0.0	+ 3.2	- 4.9	+ 0.9	+ 0.1	+ 0.6	
May June	+ 3.6 + 3.0	+ 2.1 + 13.3	+ 2.5 + 15.3	- 0.3 - 2.0	+ 4.5 - 7.4	+ 1.6 - 8.4	+ 2.8 + 1.0		+ 0.1 + 0.1	+ 2.7 + 1.0	- 3.4 - 2.8	+ 0.4 + 0.0	+ 0.0 - 0.1	+ 0.2 + 0.2	
July	- 5.0	- 11.9	- 12.9	+ 0.9	+ 9.7	+ 5.3	+ 4.3		+ 0.2	+ 4.1	- 2.3	- 0.3	- 0.0	+ 0.3	
Aug. Sep.	+ 21.5 + 0.5	+ 17.6 + 7.9	+ 17.9 + 7.6	- 0.3 + 0.4	+ 5.5 - 5.1	+ 1.1 - 4.9	+ 4.4 - 0.1	,	+ 0.5 - 0.1	+ 3.9 - 0.0	- 1.0 - 1.2	- 0.6 - 1.1	- 0.2 - 0.0	+ 0.3 + 0.4	- Linear Company
Oct.	+ 18.5	+ 13.3	+ 12.4	+ 0.9	+ 3.4	+ 3.5	- 0.1		+ 0.8	- 0.9	+ 3.3	- 1.5	- 0.0	+ 0.3	
Nov. Dec.	+ 41.3 + 91.3	+ 45.8 + 35.5	+ 44.7 + 21.4	+ 1.2 + 14.1	- 5.4 + 23.5	- 6.3 + 20.9	+ 0.9 + 2.6		+ 0.4 - 0.1	+ 0.6 + 2.7	+ 3.3 + 33.7	- 2.3 - 1.4	- 0.0 + 0.0	+ 0.9 + 0.6	
1999 Jan.	+ 0.6	- 7.5	- 7.5		+ 8.1	+ 6.5	+ 1.7				+ 1.5	- 1.5	+ 0.2	+ 0.3	- 4
Feb.	+ 1.5	+ 0.9	+ 0.9		+ 1.2	- 0.3	+ 1.6	- 0.1			+ 1.1	- 1.8	- 0.0		+ 0.0
	of whi	ch: Don	nestic er	nterpris	es <sup>8</sup>								End o	f year or	month *
1996	967.6		227.1	17.8		118.8	547.1		4.5	542.6	8.6		10.5 11.5	18.0 20.7	
1997 1998	1,020.8 1,108.1	244.4 292.1	227.1 267.8	17.3 24.3	713.5 748.9	123.9 128.9	589.6 620.0	<i>.</i>	4.6 5.9	585.0 614.0	9.7 11.1		11.5	24.1	
1998 Apr.	1,007.7	217.3	204.8	12.5	725.2	121.9	603.2		4.8	598.5	10.2		11.8	21.6	
May June	1,009.5 1,011.5	213.6 219.8	200.9 209.4	12.7 10.4	730.1 726.1	123.5 118.1	606.6 608.0		4.8 4.9	601.8 603.1	10.3 10.2		11.9 11.8	21.7 21.9	
July	1,011.1	211.6	200.3	11.3	733.4	121.5	611.9		5.1	606.8	10.4		11.8	22.2	
Aug. Sep.	1,028.5 1,032.9	223.8 231.6	212.9 220.3	10.9 11.3	738.4 734.8	122.1 118.8	616.3 616.0		5.5 5.3	610.8 610.7	10.5 10.7	44.1 44.2	11.6 11.5	22.4 22.7	-
Oct.	1,045.4	240.5	228.6	11.9	738.3	121.3	617.0		5.9	611.1	10.8		11.6	22.9	
Nov. Dec.	1,056.2 1,108.1	254.6 292.1	241.9 267.8	12.7 24.3	735.0 748.9	117.0 128.9	618.0 620.0		6.1 5.9	611.8 614.0	10.8 11.1	44.3 44.3	11.5 11.8	23.6 24.1	
1999 Jan.	545.7	126.1	126.1		200.0	79.1	310.8	1.4			6.4		6.2	12.6	
Feb.	543.7	122.8	122.8		391.2	78.8	312.4	1.3			6.3	23.5	6.2		İ
							•• -					2 . 4 .			hanges *
1997 1998	+ 51.7 + 88.6		- 1.8 + 41.6	- 0.5 + 7.0	+ 47.8 + 35.5	+ 5.0 + 5.0	+ 42.8 + 30.5		+ 0.1 + 1.3	+ 42.8 + 29.2	+ 1.1 + 1.4		+ 1.0 + 0.6	+ 2.7 + 3.4	
1998 Apr.	+ 10.5	+ 6.9	+ 5.6	+ 1.3	+ 2.8	- 0.7	+ 3.6		+ 0.0	+ 3.6	+ 0.1	+ 0.4	+ 0.1	+ 0.2	
May June	+ 2.0 + 1.7	- 3.5 + 5.9	- 3.6 + 8.2	+ 0.2	+ 4.9 - 4.0	+ 1.6 - 5.4	+ 3.4 + 1.4		+ 0.0 + 0.0	+ 3.3 + 1.3	+ 0.1 - 0.1	+ 0.4	+ 0.0 - 0.1	+ 0.2 + 0.1	
July	+ 0.2	- 7.8	- 8.7	+ 0.9	+ 7.5	+ 3.4	+ 4.1		+ 0.2	+ 3.9	+ 0.2	+ 0.4	- 0.0	+ 0.3	
Aug. Sep.	+ 17.4 + 5.3	+ 12.2 + 8.6	+ 12.6 + 8.2	- 0.4 + 0.4	+ 5.0 - 3.6	+ 0.6 - 3.3	+ 4.4 - 0.2		+ 0.4 - 0.2	+ 4.0 - 0.1	+ 0.2 + 0.2	+ 0.2 + 0.1	- 0.2 - 0.1	+ 0.2 + 0.3	
Oct.	+ 12.5	+ 8.9	+ 8.3	+ 0.6	+ 3.5	+ 2.6	+ 0.9		+ 0.6	+ 0.3	+ 0.1	+ 0.0	+ 0.0	+ 0.3	
Nov. Dec.	+ 10.4 + 52.0		+ 12.8 + 26.1	+ 0.9 + 11.6	- 3.4 + 13.9	- 4.4 + 11.9	+ 1.0 + 2.0	· ·	+ 0.3 - 0.2	+ 0.8 + 2.2	+ 0.0 + 0.2	+ 0.1 + 0.0	- 0.0 + 0.2	+ 0.7 + 0.5	
1999 Jan.	- 2.4	- 7.9	- 7.9		+ 4.8	+ 3.9	+ 0.9				- 0.1	+ 0.8	+ 0.2	+ 0.3	.
Feb.	- 2.2		- 3.6		+ 1.3	- 0.3	+ 1.7	- 0.1			- 0.1	+ 0.1	- 0.0	+ 0.1	+ 0.0

non-negotiable bearer debt securities. — 6 From 1999, no longer included in time deposits. — 7 Collected separately from 1999 only. — 8 Up to December 1998, including liabilities to domestic building and loan associations and money market funds. — 9 See the note on the title page

of the Statistical Section (page 1\*) and the footnotes to the changed items. Up to February 1999, this table was numbered IV.11. The former tables IV.8 to IV.10 have been discontinued (see the Statistical Supplement "Banking statistics").

Period

1996 1997 1998 1998 Sep. Oct. Nov. Dec.

1997 1998 1998 Sep. Oct. Nov. Dec.

1999 Jan. Feb. Table changed 9

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

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

	Sight depo	sits 2					Time depos	its 1, 3, 4				
		by creditor	group					by creditor	group			
Deposits		Domestic ir	ndividuals					Domestic in	dividuals			
of domestic individuals and non- commercial organisa- tions, total 1	Total	Total	Self- employed	Employees	Other individuals	Domestic non-com- mercial organisa- tions	Total	Total	Self- employed	Employees	Other individuals	Domestic non-com- mercial organisa- tions
	<del>При водало и подгоски и се одоски на у</del> ко <b>д</b> иски	Caracan en estado en en entre en entre en entre en entre en en entre en en entre en en entre en en en entre en	Mazone e e e e e e e e e e e e e e e e e e							End o	f year or	month *
1,993.5 2,041.0 2,123.9	393.8 413.8 470.8	376.1 396.5 452.1	78.7 79.7 93.4	248.5 264.3 298.0	48.9 52.4 60.7	17.7 17.3 18.6		252.8 240.9 243.5	75.2 73.3 72.3	129.8	39.9 37.8 38.7	30.3
2,047.4	436.3	418.5	83.6	277.0	57.9	17.8	267.3	236.1	70.7	127.9	37.5	31.2
2,053.4 2,084.3 2,123.9	440.7 472.9 470.8	423.0 454.4 452.1	86.8 92.0 93.4	279.2 302.0 298.0	56.9 60.4 60.7	17.8 18.4 18.6	267.2 265.2 275.0	236.8 235.7 243.5	70.9 69.9 72.3	128.3 128.4 132.6	37.6 37.4 38.7	29.4
1,179.3 1,183.0	237.5 242.0	228.5 232.9	45.5 45.7	151.4 155.2	31.7 31.9	9.0 9.2	148.3 148.2	131.7 131.3	38.9 38.0	72.6 72.2	20.2 21.1	16.6 16.9
											C	hanges *
+ 47.9 + 82.5	+ 20.1 + 57.0	+ 20.3 + 55.6	+ 1.0 + 13.7	+ 15.5 + 33.5	+ 3.8 + 8.4	- 0.2 + 1.3	- 13.6 + 3.3	- 11.9 + 2.8	- 2.0 - 1.0	- 7.8 + 2.7	- 2.1 + 1.0	
- 4.8	- 0.7	- 1.4	- 2.6	- 0.7	+ 1.9	+ 0.7	- 1.5	- 1.3	- 0.6	- 0.7	- 0.0	- 0.2
+ 6.0 + 30.9 + 39.3	+ 4.4 + 32.1 - 2.1	+ 4.5 + 31.5 - 2.3	+ 3.3 + 5.1 + 1.4	+ 2.2 + 22.8 - 4.2	1.0 + 3.5 + 0.4	- 0.1 + 0.7 + 0.2	0.1 - 2.0 + 9.6	+ 0.7 - 1.1 + 7.8	+ 0.2 1.0 + 2.4	+ 0.5 + 0.0 + 4.1	+ 0.0 - 0.1 + 1.4	
+ 3.0 + 3.7	+ 0.4 + 4.5	+ 0.1 + 4.3	- 0.8 + 0.2	- 0.1 + 3.9	+ 1.0 + 0.3	+ 0.3 + 0.2	+ 3.3 - 0.1	+ 3.7 - 0.3	+ 1.1 - 0.9		- 0.1 + 0.9	- 0.3 + 0.2

<sup>\*</sup> 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 deposits arising from loans on a trust basis; see also footnote 6. — 2 Up to December 1998, including time deposits for less than 1 month. — 3 Including subordinated liabilities and liabilities arising from registered debt securities. — 4 Up to December 1998, excluding time deposits for less

Table changed 7

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

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

	Deposits 1												
		Federal Gov	ernment ar	ıd its special	funds 2			Länder Gov	ernments				
				Time depos		_				Time depos	its 4		
Period	Domestic public authorities, total	Total	Sight deposits 3	for up to and including 1 year	for more than 1 year 1	Savings deposits and bank savings bonds 5	Memo item: Loans on a trust basis 6	Total	Sight deposits 3	for up to and including 1 year	for more than 1 year 1	Savings deposits and bank savings bonds 5	Memo item: Loans on a trust basis 6
											End o	f year or	month *
1996 1997 1998	280.5 280.0 288.3	114.6 108.3 111.2	5.1 1.9 4.0	3.5 3.6 1.9	81.2 79.8 80.9	0.1 0.1 0.0	24.6 23.0 24.3	82.4 83.0 80.1	6.1 4.5 6.8	1.1 1.1 1.9	25.3 26.5 27.1	0.1 0.1 0.2	49.7 50.8 44.2
1998 Sep.	273.6	108.4	2.0	2.9	80.2	0.1	23.2	82.1	2.9	1.7	26.1	0.2	51.2
Oct. Nov. Dec.	271.6 278.0 288.3	107.7 108.1 111.2	1.4 1.5 4.0	2.2 2.2 1.9	80.7 80.9 80.9	0.0 0.0 0.0	23.4 23.4 24.3	82.5 82.8 80.1	3.0 3.1 6.8	1.7 1.3 1.9	26.1 26.2 27.1	0.2 0.2 0.2	51.5 51.9 44.2
1999 Jan. Feb.	110.4 111.9	45.2 44.6	1.9 0.9	1.7 2.4	41.5 41.3	0.0 0.0	12.4 12.4	17.6 17.3	2.4 2.4	1.4 1.0	13.8 13.8	0.1 0.1	22.7 22.7
												C	hanges *
1997 1998	+ 0.9 + 8.3	- 4.9 + 2.5	- 3.3 + 2.2	+ 0.1 - 1.7	- 1.4 + 1.1	+ 0.0 - 0.0	- 0.3 + 0.9	+ 1.0 - 2.9	- 1.6 + 2.4	- 0.0 + 0.8	+ 1.2 + 0.6	+ 0.0 + 0.0	+ 1.5 - 6.6
1998 Sep.	- 3.9	+ 0.1	+ 0.4	+ 0.7	- 1.0	- 0.0	+ 0.0	+ 0.5	+ 0.3	+ 0.4	- 0.2	- 0.0	1
Oct. Nov. Dec.	- 2.0 + 6.4 + 10.6	- 0.7 + 0.4 + 3.1	- 0.6 + 0.1 + 2.6	- 0.7 + 0.0 - 0.3	+ 0.5 + 0.3 - 0.1	- 0.0 - 0.0 + 0.0	+ 0.2 - 0.0 + 0.9	+ 0.5 + 0.2 - 2.6	+ 0.1 + 0.1 + 3.7	- 0.0 - 0.4 + 0.5	- 0.0 + 0.1 + 0.9	+ 0.0	+ 0.3 + 0.4 - 7.7
1999 Jan. Feb.	- 1.5 + 1.4	+ 0.7 - 0.6	+ 0.0 - 1.0	+ 0.5 + 0.6	+ 0.2 - 0.2	+ 0.0 + 0.0	- 0.1 + 0.1	- 0.8 - 0.3	- 0.9 + 0.1	+ 0.2 - 0.4	- 0.1 + 0.0	+ 0.0 - 0.0	+ 0.1

<sup>\*</sup> 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 following Monthly Report, are not specially marked. — 1 Up to December 1998, including deposits arising from loans on a trust basis; see also footnote 6. — 2 Federal Railways Fund, Indemnification Fund,

VANDALAN CANADO COMO LOS COMOS DE SECO	oboke en Colice o mendiski pre en projektivi i jeji je projektivi o od	ALIE OF CHILDREN WAS A CONTROL OF THE STEP	ggggggan, yan 184, ph. 200 mark (2000) mark 200000 et 100 mark (2000)		Savings dep	osits			Memo item:			
by maturity		Add to the second of the secon					04.00.00000000000000000000000000000000		an completely produced and prod		overline of the second	
	more than 1	year					Anna Marian Caranta Ca		and an and an an an an an an an an an an an an an	Subordinated	Included	
		of which:			er-con-con-con-con-con-con-con-con-con-con		Domestic		A CONTRACTOR OF THE CONTRACTOR	liabilities (excluding	in time deposits:	
up to and including 1 year 4	Total	up to and including 2 years	less than 4 years	4 years and more 1	Total	Domestic individuals	non-com- mercial organisa- tions	Bank savings bonds 5	Loans on a trust basis 6	negotiable debt securities) 7	liabilities arising from repos 8	Period
End of ye	ear or mo	nth *	***************************************									
234.4 220.3 225.1	50.6 50.9 49.9	•	5.1 5.5 6.5	45.5 45.4 43.4	1,166.5	1,148.6		184.9 188.9 184.2	0.8 0.6 0.4	13.2 17.6 18.9		1996 1997 1998
217.0	1		6.1	44.3	1,153.5	1,134.5	19.0	189.6	0.6	18.6		1998 Sep.
217.9 215.9 225.1	49.3 49.2 49.9	1 .	6.3 6.4 6.5	43.0 42.8 43.4	1,160.0	1,137.4 1,141.1 1,174.1	19.3 19.0 19.4	188.1 185.7 184.2	0.6 0.6 0.4	18.7 18.8 18.9	en contraction and contraction	Oct. Nov. Dec.
121.7 121.7	26.7	2.0	1	e-	701.5 702.7	691.3 692.4	10.2 10.3	91.9 90.0	0.2 0.2	9.7 9.9	—	1999 Jan. Feb.
Changes	*											
- 14.0 + 4.6			+ 0.4	- 0.0 - 2.3	+ 37.5 + 27.1		+ 1.0 + 1.6	+ 4.0 - 4.7		+ 4.4 + 1.3		1997 1998
- 1.6			+ 0.1	+ 0.0	1	\$	1	- 1.2	+ 0.0	+ 0.1		1998 Sep.
+ 0.9 - 2.0 + 9.0	- 0.1		+ 0.2 + 0.1 + 0.1	- 1.3 - 0.2 + 0.5	+ 3.3	+ 3.0 + 3.6 + 33.0	- 0.3	- 1.5 - 2.5 - 1.4		+ 0.1 + 0.1 + 0.1		Oct. Nov. Dec.
+ 2.6 - 0.0		+ 0.0	- CONTRACTOR CONTRACTO		+ 1.6 + 1.2	+ 1.5 + 1.1		- 2.3 - 1.9	+ 0.0	+ 0.1 + 0.2	· _	1999 Jan. Feb.

than 1 month; see also footnote 2. — 5 Including liabilities arising from non-negotiable bearer debt securities. — 6 From 1999, no longer included in time deposits. — 7 Included in time deposits. — 8 Collected separately from 1999 only. — 9 See the note on the title page of the Statistical Section (page

1\*) and the footnotes to the changed items. Up to February 1999, this table was numbered IV.12. The former tables IV.8 to IV.10 have been discontinued (see the Statistical Supplement "Banking statistics").

- CANADA - CANADA DA AND CANADA CONTRACTOR DE CONTRACTOR D	all along the same and along the		COLUMN TO THE PARTY OF THE PART			99.480 <del>0</del>	o. <u>1999</u> 2200		gen gran visitati visitati visitati visitati visitati visitati visitati visitati visitati visitati visitati vi			
		al authority a				Social securi	ty funds					
DOLDEN AND DESCRIPTION OF THE PARTY OF THE P		Time deposi	ts 4					Time deposi	ts 4	C	Memo	
Total	Sight deposits <sup>3</sup>	for up to and including 1 year	for more than 1 year 1	Savings deposits and bank savings bonds 5	Memo item: Loans on a trust basis 6	Total	Sight deposits <sup>3</sup>	for up to and including 1 year	for more than 1 year 1	Savings deposits and bank savings bonds 5	item: Loans on a trust basis 6	Period
End of y	ear or mo	onth *										
39.4 39.8 45.3	14.5	17.0	1.8 2.0 2.4	5.6 6.1 6.6	0.2 0.0 0.1	44.1 48.9 51.7	10.8	13.9 16.0 21.2	15.8 16.2 15.2	5.8	0.2	1996 1997 1998
40.4	ŧ.	9	2.2	6.5	0.1	42.6	6.7	13.6	16.0	i	1	1998 Sep.
40.4 43.6 45.3	15.3	19.4	2.3 2.3 2.4	6.4 6.5 6.6	0.1 0.1 0.1	41.0 43.6 51.7	6.0 6.7 9.3	12.7 15.0 21.2	16.1 16.0 15.2		0.2	Oct. Nov. Dec.
22.9 26.2	6.2	1	1.3 1.2	4.1 4.1	0.0 0.0	24.7 23.8	2.3 3.3	13.3 11.7	6.9 6.9	2.2 1.9	0.1 0.1	1999 Jan. Feb.
Changes	5 *											
+ 0.5	5  - 1.1	+ 0.8	+ 0.2 + 0.3	+ 0.5 + 0.5	± 0.0 + 0.0	+ 4.3 + 3.1	+ 1.2	+ 2.2 + 5.4	- 0.1 - 0.9	+ 1.0 + 0.1		1997 1998
- 3.1		1	- 0.0	+ 0.0	+ 0.0	- 1.4	+ 1.1	- 2.4	+ 0.0	1	- 0.0	1998 Sep.
- 0.0 + 3.2 + 1.8	2 + 2.0	) + 1.1	+ 0.0 - 0.0 + 0.1		+ 0.0 + 0.0 + 0.0	- 1.7 + 2.6 + 8.3		- 0.9 + 2.2 + 6.4	+ 0.1 - 0.1 - 0.8	- 0.2 - 0.2 + 0.0	-	Oct. Nov. Dec.
- 0.8 + 3.2	3 - 1.2	+ 0.3	+ 0.2	+ 0.0 + 0.0	+ 0.0	- 0.7 - 0.9	+ 0.0 + 0.9			- 0.8 - 0.3		1999 Jan. Feb.

Redemption Fund for Inherited Liabilities, ERP Special Fund, "German Unity" Fund, Equalisation of Burdens Fund. — 3 Up to December 1998, including time deposits for less than 1 month. — 4 Up to December 1998, excluding time deposits for less than 1 month; see also footnote 3. — 5 Including liabilities arising from non-negotiable bearer debt securities. — 6 From 1999,

no longer included in time deposits. — 7 See the note on the title page of the Statistical Section (page 1\*) and the footnotes to the changed items. Up to February 1999, this table was numbered IV.13. The former tables IV.8 to IV.10 have been discontinued (see the Statistical Supplement "Banking statistics").

Period

1996 1997 1998 1998 Oct. Dec. 1999 Jan. Feb.

1998 1998 Oct. Nov. Dec. 1999 Jan. Feb.

Table changed 4

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

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

Savings depo	osits		CONT						Bank saving	gs bonds, 2 s	old to	
	of residents					of non-res	idents	]		domestic no	on-banks	
	Millandenia ovververoveo	at three mo notice	onths'	at over thre notice	e months'			Memo item:			of which:	
Total	Total	Total	of which: Special savings facilities 1	Total	of which: Special savings facilities 1	Total	of which: At three months' notice	Interest credited on savings deposits	non-banks, total	Total	With maturities of more than 2 years <sup>3</sup>	foreign non-banks
End of ye	ar or mon	th *	•	**************************************		Accessor and the second		A.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	hit in the second secon	Acres establishment of the second	<u> </u>	<u> </u>
1,165.8 1,205.0 1,234.2		865.8 928.8 971.4	459.6 531.7 582.8	277.2 253.2 239.6	219.5 201.4 189.6	22.9	16.3 16.9 17.3	38.8	234.7 244.6 243.9		206.6 216.7 211.1	6.9 7.7 9.1
1,196.5 1,199.7 1,234.2	1,177.1	938.0 941.1 971.4	560.7 563.3 582.8	235.9 236.0 239.6	188.1 187.9 189.6		16.7 16.7 17.3	1.0 1.1 29.8	247.4 245.1 243.9	238.5 236.2 234.9	215.5 212.8 211.1	8.9 8.9 9.1
724.2 725.5	711.9 713.0	500.5 502.9	313.3 321.7	211.4 210.2	96.0 94.6		8.9 8.9	0.7 0.6	122.3	117.6	108.5	4.7
Changes <sup>1</sup>	*											
+ 39.2 + 29.2		+ 60.0 + 41.6	+ 67.2 + 51.2	- 20.9 - 12.7	- 18.0 - 12.1	+ 0.2 + 0.3	+ 0.6 + 0.4		+ 10.0 - 0.7	+ 9.2 - 2.1		
+ 3.2 + 3.2 + 34.5	+ 3.1 + 3.2 + 33.8	+ 3.3 + 3.1 + 29.6	+ 3.0 + 2.6 + 19.5	- 0.3 + 0.1 + 4.2	- 0.4 - 0.2 + 1.7	+ 0.1 + 0.1 + 0.6	+ 0.0 + 0.0 + 0.6		- 1.6 - 2.3 - 1.2	- 1.5 - 2.3 - 1.4	- 2.0 - 2.7 - 1.7	- 0.0 + 0.1 + 0.1
+ 1.7 + 1.3	+ 1.7 + 1.1	+ 3.7 + 2.4	+ 2.8 + 14.7	- 2.0 - 1.3	- 0.8 - 1.4		+ 0.0 + 0.0		- 2.3 - 2.0	- 2.4 - 2.0	- 2.2 - 2.0	+ 0.1

<sup>\*</sup> 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 Savings deposits bearing interest at a rate which exceeds the minimum or basic rate of interest. — 2 Including liabilities arising from non-negotiable bearer debt securities. —

Table changed 8

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

Until the end of 1998 DM billion, from 1999 eurobillion

	Negotiable	bearer de	ot securities	and mone	y market pa	per				iable beare market pa	r debt secu per 7	rities		ounce production and the second
		of which:		percentage and the second	·					of which	-i+: f		C. I	1
	MANAGEMENT AND AND AND AND AND AND AND AND AND AND				C-4ifi	with matu	rities of			with matu	rities of		Subordina	
Period	Total	Floating- rate notes 1	Zero- coupon bonds 1, 2	Foreign currency bonds 3, 4	Certifi- cates of deposit	up to and including 1 year	over 2 years 5	over 4 years 6	Total			over 4 years 6		non- negotiable debt securities
	End of y	ear or n	nonth *)		h			otto en a						
1996 1997 1998	1,756.3 1,942.2 2,200.4	184.0 217.7 289.2	6.9 7.8 10.6	103.9 160.5 204.3	6.0 11.8 14.3	18.6 24.1 47.2	1,734.4 1,914.9 2,147.0	1,362.7 1,539.6 1,787.7	6.3 5.1 4.7	0.6 0.9 1.0	5.6 4.2 3.6	2.2 1.8 1.5	38.9 45.5 46.6	0.4 2.6 2.9
1998 Oct. Nov. Dec.	2,177.3 2,203.0 2,200.4	270.5 282.5 289.2	10.6 9.9 10.6	202.1 205.6 204.3	16.0 16.5 14.3	37.0 43.9 47.2	2,135.6 2,153.5 2,147.0	1,772.1 1,789.1 1,787.7	4.7 4.7 4.7	1.0 1.0 1.0	3.7 3.6 3.6	1.6 1.6 1.5	45.4 45.5 46.6	2.8 2.8 2.9
1999 Jan. Feb.	1,148.3 1,167.4	151.0 155.0	7.1 7.1	79.3 86.2	2.3 3.5	21.9 23.7	1,110.6 1,124.9		2.3 2.2	0.5 0.5	1.2 1.2		24.2 25.0	1.5 1.6
	Change	s *												
1997 1998	+ 186.8 + 258.3	+ 30.9 + 67.5	+ 0.9 + 2.8	+ 51.0 + 38.8	+ 5.8 + 2.5	+ 5.3 + 23.1	+ 181.4 + 232.2	+ 177.5 + 250.1	- 1.2 - 0.3	+ 0.3 + 0.1	- 1.5 - 0.6	- 0.4 - 0.3	+ 6.6 + 1.2	+ 2.2 + 0.3
1998 Oct. Nov. Dec.	+ 10.4 + 25.7 - 2.6	+ 2.2 + 12.0 + 6.7	+ 1.6 0.7 + 0.7	+ 1.1 + 3.5 - 1.3	+ 0.8 + 0.5 - 2.2	+ 1.2 + 6.9 + 3.4	+ 8.9 + 17.9 - 6.5	+ 7.5 + 17.0 - 1.4	- 0.1 + 0.1 - 0.0	+ 0.0 - 0.0 - 0.0	- 0.1 - 0.1 - 0.1	- 0.0 - 0.0 - 0.1	- 0.5 + 0.1 + 1.1	+ 0.0 + 0.0 + 0.1
1999 Jan. Feb.	+ 21.4 + 19.2	+ 2.5 + 4.0	+ 1.7 - 0.0	+ 0.7 + 6.9	- 5.0 + 1.1	- 2.3 + 1.8	+ 14.6 + 14.4	-	- 0.0 - 0.1	- 0.0 - 0.0	- 0.5 - 0.1		+ 0.4 + 0.7	+ 0.0 + 0.2

<sup>\*</sup> 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 debt securities denominated in foreign currencies. — 2 Issue value when floated. — 3 Including floating-rate notes and zero-coupon bonds denominated in

foreign currencies. — 4 From 1999, bonds denominated in non-euro-area currencies. — 5 Up to December 1998, 2 years and more. — 6 From 1999, no longer collected. — 7 Non-negotiable bearer debt securities are classified among bank savings bonds; see also table IV. 10, footnote 2. — 8 See the note on the title page of the Statistical Section (page 1\*) and the footnotes to the changed items. Up to February 1999, this table was numbered IV.15.

<sup>3</sup> Up to December 1998, of 4 years and more. — 4 See the note on the title page of the Statistical Section (page 1\*) and the footnotes to the changed items. Up to February 1999, this table was numbered IV.14. The former tables IV.8 to IV.10 have been discontinued (see the Statistical Supplement "Banking statistics").

## 12. Building and Ioan associations (MFIs) in Germany \* Interim statements

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

	Onthi ti	ie enu oi	1990 DIVI D	illion, iloi	11 1333 EU	O DIMON			400 TO THE RESERVE TO			C0000+00000000000000000000000000000000	egyCattyn-exchanges or transmired to Minner	goese, escripio mariamento, 2001 (	Account to the same of the same	from the second
Annual contract of the contrac	general de la constantina		Lending t	o banks (I	∕IFIs)	Lending t	o non-bar	ıks (non-M	1FIs)	Deposits (MFIs) 6	of banks	Deposits banks (no		990 900 900 900 900 900 900 900 900 900		000000000000000000000000000000000000000
######################################						Building l	oans	on and the same throughout the	Secur-	(1911 13)		Darres (ne				Memo item:
et controller en en en en en en en en en en en en en		hand (60) (10) (60)	Bal-						ities (in- cluding				na na na na na na na na na na na na na n	Bearer debt	Capital	New con-
La company	Num-	200000000000000000000000000000000000000	ances and			Loans under			bills	Deposits under		Deposits under	economic de la constante de la	secur-	(includ-	tracts
	ber of	Balance	loans (except		Bank debt	savings and loan	Interim and	Other	and Treasury	savings and loan	Sight		Sight and time	ities out-	ing pub- lished	into in
End of year		sheet		Building Ioans 2	secur- ities 3	con- tracts		building loans 4	discount paper) 5	con- tracts	and time deposits		deposits 7	stand- ing	reserves) 8	year or month 9
or month	******************	A	and lo	***************************************	<u> </u>			Manual Annual	popo.		1	CONTRACTOR OF THE PROPERTY OF	I	J	Ammanua arccanos	A
						_						1700	5.9	3.5	12.5	153.0
1998	34				20.2	•					i .		5.9	3.5	i	-
1998 Dec.	34	272.3	31.8	0.3	20.2	95.9		19.8	15.7	2.4		178.9				
1999 Jan. Feb.	34 34	138.7 138.7	16.0 16.0	0.2 0.2	10.3 10.4	48.9 48.2			8.3 8.9	1.3 1.2	20.2 20.2	91.5 91.9		1.7 1.8		
reu.	Priva		ding ar		·											20,000
1998 Dec.	21	193.3	24.7	0.2	11.6	64.6	56.9	18.8	12.8	1.7	38.6	123.5	5.8	3.5	8.1	13.5
1999 Jan.	21	98.6		0.1	5.9	32.9		4.4	6.8		14.3		2.8	1.7 1.8		
Feb.	21			0.1			29.0	4.4	7.4	0.9	14.5	63.4	2.8	1.0	4.2	4.4
	Publi	c build	ing an	loan	associa	itions										
1998 Dec.	13	79.0	7.1	0.1	8.5	31.4	26.4	1.0	2.8	0.7	12.4	55.4	0.1	-		
1999 Jan.	13			0.1	4.4										1	
Feb.	13	40.0	3.3	0.1	4.5	15.8	13.6	; U.5	1.5	, 0.3	, 3.7	<sub>2</sub> 20.3	į 0.0	*	, 2.5	

### Trends in building and loan association business

	Until the	end of 19	98 DM bill	ion, from	1999 euro	billion				6.600-4-600-2004-0-0022000- <del>0-1-002</del> 2007	9999 major (1622-2000) kirjonovije (1600-000)	gacotiona antigras de descriptione		generalism menerolism in the		Percent Recommendation of Company
		in deposits	5	Capital pi	omised	Capital pa	id out			00°40°****	grammer to enterior decided (2000)	Outpayn		Interest a repaymer		
	under sav loan cont		gra				Allocatio	ns	*****************	mahasan di CERTIFICA (1970) (1	or commenced	commitr outstand end of p	ding at	received building	on	
		Simulari prevional, no conscientario di	Repay- ments				Deposits savings a loan cont	nd	Loans un savings a loan cont	nd	Newly granted				The state of the s	maarina en aritaren derenen derenen derenen dere
	savings accounts under savings	credited on deposits under savings and loan con-	of deposits under cancelled savings and loan con- tracts	Total	of which: Net alloca- tions 12	Total	Total	of which: Applied to settle- ment of interim and bridging loans	Total	ment of interim		Total	of which: Under alloc- ated con- tracts	Total	of which: Repay- ments during quarter	Memo item: Housing bonuses received 13
	All bu	ilding	and loa	in asso	ciations											
1998	44.4	5.2	8.5	99.2	65.0	92.8	37.8	10.4	23.4	7.9	31.6	19.0	13.1	31.9	26.1	0.6
1998 Dec.	5.1	4.5	0.8	7.9	4.6	8.2	2.9	0.8	1.8	0.6	3.5	19.0	13.1	3.5	6.9	0.1
1999 Jan. Feb.	1.9 2.1		0.3 0.4	3.7 3.5	2.7 2.4	3.5 3.1							6.9 7.1			0.0
	Private	e buildi	ng and	loan	associa	tions										
1998 Dec.	3.3	3.1	0.5	5.7	3.1	5.7	1.9	0.5	1.1	0.4	2.8	11.1	6.4	2.5	4.8	0.0
1999 Jan. Feb.	1.3 1.5			2.8 2.5												0.0
	Public	buildir	ng and	loan a	ssociati	ons										nateropeatify peak
1998 Dec.	1.8	1.4	0.3	2.2	1.5	2.5	1.0	0.2	0.7	0.2	0.7	7.9	6.7	0.9	2.1	1
1999 Jan. Feb.	0.6 0.6			0.9 1.0									1			0.0

<sup>\*</sup> 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 Up to December 1998 including loans on a trust basis. — 5 Including equalisation claims. — 6 Including liabilities to building and loan associations. — 7 Including small amounts of savings \* Excluding assets and liabilities and/or transactions of the foreign branches.

deposits. — 8 Including participation rights capital; from December 1993 including fund for general banking risks. — 9 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. — 10 For outpayments of deposits under savings and loan contracts arising from the allocation of contracts see "Capital paid out". — 11 Including housing bonuses credited. — 12 Only allocations accepted by the beneficiaries; including allocations applied to settlement of interim and bridging loans. — 13 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".

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

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

	Until the	end of 199	8 DM billio	n, from 19	99 euro bil	lion			West to a comment of the comment of						
	Number o	f		Lending t	o banks (M	FIs)			Lending t	o non-banl	s (non-MF	ls)	<u> </u>		
	German				Balances a not eviden	nd loans an ced by certi	d advances ficates 3				advances nced by cer	tificates 3			
	(MFIs)										to residen	ts			
Period	with foreign branches and/or foreign subsi- diaries	foreign branches 1 and/or foreign subsi- diaries	balance sheet total 2	Total	Total	German banks (MFIs) 4	Foreign banks	Money market paper, secur- ities 5, 6	Total	Total	Total	of which enter- prises and indi- viduals	to foreign non- banks	Money market paper, secur- ities 5	Other assets 7
	Foreign	brancl	nes									E	nd of ye	ear or m	onth *
1996 1997 1998	61 62 68	162 165 183	1,305.6 1,837.4 2,195.3	784.5 1,068.1 1,230.0	670.3 927.0 1,069.2	140.7 207.5 279.2	529.6 719.4 789.9	114.2 141.1 160.8	498.0 728.4 875.7	371.4 505.8 624.7	63.8 68.1 66.1	30.3 35.2 37.0	307.5 437.7 558.6	126.6 222.6 251.0	23.1 40.9 89.6
1998 June	65	171	2,081.8	1,179.0	1,024.4	268.6	755.8	154.6	841.8	585.0	68.2	35.3	516.8	256.7	61.1
July Aug. Sep.	65 65 66	173 174 172	2,045.0 2,051.5 2,045.4	1,121.9 1,119.3 1,139.3	966.5 961.6 981.2	247.5 227.6 247.7	719.1 733.9 733.4	155.4 157.8 158.1	857.4 863.1 844.7	603.0 611.0 601.7	66.6 65.9 70.2	33.8 33.6 34.1	536.4 545.1 531.5	254.4 252.1 243.0	65.6 69.0 61.4
Oct. Nov. Dec.	66 67 68	174 179 183	2,231.8 2,296.9 2,195.3	1,249.1 1,320.7 1,230.0	1,080.9 1,151.6 1,069.2	277.7 313.5 279.2	803.2 838.1 789.9	168.2 169.1 160.8	915.5 903.5 875.7	641.3 650.4 624.7	73.5 78.5 66.1	34.8 36.6 37.0	567.8 571.9 558.6	274.2 253.1 251.0	67.2 72.7 89.6
1999 Jan.	65	180	1,127.9	631.9	544.3	142.9	401.4	87.6	452.0	331.7	31.4	18.4	300.3	120.3	44.0
1997			442.01	222 71	242.04										nges *
1998	+ 1 + 6	+ 3 + 18	+442.8 +406.2	+232.7 +187.9	+212.8 +163.5	+ 66.2 + 71.9	+146.6 + 91.5	+ 19.9 + 24.5	+192.8 +168.5	+106.0 +136.2	+ 3.4 - 1.6	+ 4.1 + 2.1	+102.5 +137.8	+ 86.8 + 32.3	+ 17.3 + 49.8
1998 June	-	-	+ 17.9	+ 8.8	+ 4.1	+ 11.8	- 7.7	+ 4.7	- 2.9	- 9.8	- 0.9	- 0.1	- 8.9	+ 6.9	+ 12.1
July Aug. Sep.	- - + 1	+ 2 + 1 - 2	- 7.5 + 6.0 + 41.3	- 43.4 - 2.5 + 43.8	- 45.7 - 4.9 + 39.5	- 21.0 - 19.8 + 20.4	- 24.8 + 14.9 + 19.2	+ 2.4 + 2.5 + 4.2	+ 31.0 + 5.1 + 4.3	+ 28.6 + 7.8 + 7.6	- 1.4 - 0.8 + 4.6	- 1.3 - 0.2 + 0.8	+ 29.9 + 8.5 + 3.0	+ 2.5 - 2.7 - 3.3	+ 4.9 + 3.4 - 6.8
Oct. Nov. Dec.	+ 1 + 1	+ 2 + 5 + 4	+171.9 + 47.3 –103.5	+105.6 + 61.2 – 89.5	+ 94.8 + 62.4 - 82.0	+ 29.9 + 35.6 - 34.3	+ 64.9 + 26.8 - 47.8	+ 10.8 - 1.2 - 7.5	+ 60.3 - 18.9 - 31.1	+ 34.3 + 3.4 - 27.7	+ 3.4 + 4.8 - 12.4	+ 0.7 + 1.7 + 0.4	+ 30.9 - 1.4 - 15.4	+ 26.0 - 22.3 - 3.4	+ 6.0 + 5.0 + 17.2
1999 Jan.	- 3	- 3	- 10.3	- 13.4	- 17.7	- 15.1	- 2.7	+ 4.3	+ 5.8	+ 15.8	- 2.5	- 0.6	+ 18.3	- 10.0	- 2.6
	Foreign	subsid	iaries									E	nd of ye	ar or m	onth *
1996 1997 1998	39 37 37	125 131 137	673.8 764.9 830.8	392.3 429.5 469.0	333.7 366.8 373.1	102.5 122.1 160.1	231.3 244.6 213.0	58.5 62.7 95.9	251.9 292.0 311.0	183.3 214.4 237.5	63.9 67.5 71.4	45.8 54.9 62.3	119,4 147.0 166.1	68.6 77.6 73.5	29.6 43.4 50.8
1998 June	39	136	862.5	469.2	393.2	138.2	255.1	76.0	340.9	239.0	67.1	54.4	171.9	101.9	52.4
July Aug. Sep.	39 39 38	136 137 137	857.0 860.8 855.1	460.5 467.2 475.1	383.7 389.4 393.8	140.0 138.4 143.7	243.7 251.0 250.2	76.8 77.8 81.3	344.1 341.4 331.9	243.2 246.4 241.6	67.6 68.1 67.7	55.0 55.6 57.4	175.6 178.3 174.0	101.0 95.0 90.3	52.4 52.2 48.0
Oct. Nov. Dec.	38 38 37	138 137 137	859.1 848.5 830.8	489.3 478.0 469.0	404.1 388.5 373.1	153.6 154.5 160.1	250.5 234.0 213.0	85.3 89.5 95.9	324.0 322.1 311.0	245.7 247.5 237.5	71.2 71.0 71.4	59.5 61.1 62.3	174.4 176.6 166.1	78.4 74.6 73.5	45.7 48.4 50.8
1999 Jan.	36	135	442.8	232.0	185.6	72.7	112.8	46.5	165.6	117.1	37.1	33.0	80.0	48.5	45.2
														Cha	nges *
1997 1998	- 2 ± 0	+ 6	+ 62.5 + 79.5	+ 19.8 + 47.8	+ 17.2 + 13.7	+ 16.9 + 39.7	+ 0.3	+ 2.6 + 34.1	+ 29.4	+ 23.3 + 27.0	+ 3.1	+ 8.7 + 7.5	+ 20.2 + 22.9	+ 6.1 - 2.8	+ 13.4 + 7.5
1998 June	+ 1	+ 1	- 6.7	- 1.5	- 5.8	+ 3.3	- 9.2	+ 4.4	- 1.3	+ 1.1	- 1.0	- 2.2	+ 2.1	- 2.4	- 3.9
July Aug. Sep.	-   - 1	+ 1	- 0.1 + 4.0 + 4.9	- 5.5 + 6.8 + 14.3	- 6.7 + 5.9 + 10.1	+ 2.4 - 1.6 + 6.6	- 9.1 + 7.4 + 3.5	+ 1.2 + 1.0 + 4.2	+ 5.4 - 2.7 - 5.4	+ 5.8 + 3.2 - 1.6	+ 0.6 + 0.5 - 0.3	+ 0.7 + 0.6 + 1.9	+ 5.1 + 2.7 - 1.3	+ 0.4 - 6.0 - 3.8	+ 0.0 - 0.1 - 4.0
Oct. Nov. Dec.	— — — — — — — — — — — — — — — — — — —	+ 1 - 1	+ 5.2 - 15.5 - 16.0	+ 15.2 - 14.5 - 7.8	+ 11.0 - 18.3 - 14.4	+ 10.3 + 0.1 + 5.9	+ 0.7 - 18.4 - 20.3	+ 4.2 + 3.9 + 6.6	7.7 - 3.6 - 10.6	+ 4.2 + 0.5 - 9.6	+ 3.4 - 0.3 + 0.4	+ 2.1 + 1.5 + 1.2	+ 0.8 + 0.9 - 10.1	- 11.9 - 4.1 - 1.0	- 2.3 + 2.6 + 2.4
1999 Jan.	- 1	- 2	+ 15.7	+ 5.4	+ 8.4	+ 1.0	+ 7.4	- 3.0	+ 6.6	- 4.4	+ 0.7	+ 1.3	- 5.0	+ 11.0	+ 3.7

<sup>\*</sup> 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. 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 Several branches in a given country of domicile are regarded as a single branch. — 2 Up to December 1998, volume of business (balance sheet total plus endorsement liabilities arising from rediscounted bills and bills sent for collection from

the banks' portfolios prior to maturity); for foreign subsidiaries, volume of business even after 1998. — 3 For foreign branches: up to December 1998, including bill-based lending (bill holdings plus endorsement liabilities and bills sent for collection from the banks' portfolios prior to maturity); from 1999, including bill holdings; up to December 1998, including loans on a trust basis. For foreign subsidiaries, bill-based lending included even after 1998; up to December 1998, including loans on a trust basis (see

Deposits 8	erenciale week town and construction of the	eccumo en susemble como con el debello c			X+XXIII					OVER THE STATE OF				
	of banks (	MFIs)		of non-ba	nks (non-N	IFIs)						L. F. Constantial Collection	***************************************	
					German n	on-banks (ı	non-MFIs) <sup>9</sup>	)			Manay	a work discounting and		
		and or many and a second and a		ogga-gra-gra-gra-gra-gra-gra-gra-gra-gra-		Short-tern	n	Medium a	and long-term		Money market	er (De-Constraint)	in the state of th	
Total	Total	German banks 4	foreign banks	Total	Total	Total	of which enter- prises and indi- viduals	Total	of which enter- prises and indi- viduals	Foreign non-banks	L	capital and own funds	Other liabilities	Period
End of y	ear or n	nonth *									Fo	reign b	ranches	
1,091.2 1,518.6 1,756.4		203.1 221.3 259.6	515.0 781.5 921.7	373.1 515.7 575.1	163.3 164.9 173.6	159.7 161.2 171.1	136.1 145.9	3. 3. 2.	7 3.6 5 2.2	350.9 401.5	198.0 270.0	17.3 20.0	103.5 148.8	1996 1997 1998
1,724.4	1,047.3	235.4	811.9	677.1	204.0	200.0	167.7	4.			208.7	18.2	130.6	1998 June
1,693.1 1,697.3 1,667.8	1,031.2 1,041.3 1,016.7	218.6 222.2 218.3	812.6 819.1 798.3	661.9 656.0 651.1	200.9 195.7 201.8	197.1 191.7 197.7	161.8 168.7	3. 4. 4.	0 3.8 1 3.8	460.4 449.3	204.1 210.1 218.7	18.8 19.0 23.8	129.0 125.1 135.1	July Aug. Sep.
1,827.2 1,880.9 1,756.4	1,153.1 1,235.8 1,181.3	227.9 264.9 259.6	925.1 971.0 921.7	674.2 645.1 575.1	211.0 200.7 173.6	205.5 197.0 171.1	1	5. 3. 2.	7 3.4 5 2.2	444.4 401.5	235.0 258.3 270.0		133.5 148.8	Oct. Nov. Dec.
913.7	610.4	126.3	484.1	303.2	81.1	79.8	69.8	1.	3 1.2	222.2	158.7	10.4	45.2	1999 Jan.
Changes	s *													
+ 355.6 + 278.4	+202.7	+ 17.0 + 39.3	+221.8 +163.5	+ 75.6	+ 9.2		- 0.8 + 10.3 - 5.0	- 1.	2 – 1.4	+ 66.5	+ 41.9 + 72.0 - 0.5		+ 41.5 + 53.2 + 3.7	1997 1998 1998 June
+ 14.6 - 9.3	- 13.9 - 3.5	+ 10.1 - 16.5	- 24.0 + 13.0	+ 28.5 - 5.8	- 2.1 - 2.9	- 2.5	+ 0.5	+ 0. - 0.	1		- 4.6	8	+ 5.8	July
+ 4.5 + 9.1	- 3.5 + 10.9 - 1.1	+ 3.6	+ 7.3 + 2.0	- 6.4 + 10.2	- 5.2 + 6.6	- 5.4 + 6.4	- 6.1 + 7.3	+ 0. + 0.	2 + 0.2 2 + 0.0	- 1.2 + 3.6	+ 6.0 + 8.6	+ 0.2 + 4.8	- 4.7 + 18.8	Aug. Sep.
+ 152.5 + 36.2 - 122.1	+131.8 + 72.0 - 52.4	+ 9.8 + 36.5 - 5.0	+122.0 + 35.4 - 47.4		+ 9.2 - 10.6 - 27.1	+ 7.8 - 8.8 - 25.8	+ 9.7 - 11.0 - 21.8	+ 1. - 1. - 1.	8 – 1.8	- 25.2	+ 16.3 + 23.3 + 11.7	+ 0.1	- 12.3	Oct. Nov. Dec.
+ 4.0	- 2.1	- 6.9	+ 4.8	+ 6.1	- 7.7	- 7.7	- 4.8	+ 0.	1 + 0.1	+ 13.7	+ 20.7	+ 0.1	- 35.0	1999 Jan.
End of y	ear or r	nonth *									Fore	ign sub	sidiaries	
540.3 600.8 638.7		58.2	354.1	188.5	59.6 52.1 50.2	52.1 45.0 44.2	42.0	7.	1 7.0	136.4	74.0 84.4 87.7	27.0	52.7	1996 1997 1998
689.4	9	66.2	422.8	1	49.7	43.7	42.1	6.	į.	1	84.3		e e	1998 June
673.6 675.2 674.7			415.5 411.3 411.7	199.9	51.6 51.2 48.9	45.4 44.9 42.5	42.6		3 6.3	148.7	87.9 90.2 84.3	30.2	65.2	July Aug. Sep.
681.2 664.1 638.7		80.5	411.1 393.5 365.0		50.4 48.7 50.2	44.0 42.9 44.2	41.1	5.	.7 5.7	141.5		30.8	70.2	Oct. Nov. Dec.
331.7	243.3	50.5	192.8	88.4	22.5	21.5	21.2	1.	0.9	65.9	45.9	17.0	48.2	1999 Jan.
Change	s *													and the control of th
+ 35.2 + 51.6	+ 48.4	+ 28.1	+ 20.3	+ 3.2	- 1.4	- 0.4			1	+ 4.6	+ 3.2	+ 6.8	+ 17.9	1997 1998 1998 June
- 6.4 - 10.5 + 1.6	- 7.9 - 2.0	- 3.9 + 2.1	- 6.0 - 4.0 - 4.1	- 2.6 + 3.6	- 0.3	- 0.5	+ 1.4 - 0.7	+ 0 + 0	.1 + 0.1 .1 + 0.1	- 4.6 + 3.9	+ 3.6 + 2.3	+ 0.4 - 0.1	+ 6.4 + 0.1	July Aug. Sep.
+ 9.8 + 8.7 - 22.3	+ 8.0 - 18.9	+ 6.8 + 2.4		+ 0.7 - 3.4	+ 1.6 1.9	+ 1.5 - 1.2	+ 1.6 - 1.0	+ 0	.1 + 0.1 .7 - 0.7	- 0.9 - 1.4	- 2.7 + 1.8	+ 0.1 + 0.7	- 0.9 + 4.3	Oct. Nov. Dec.
- 23.4	1	1	1	1	1	1	W.		.2 + 0.2 .3 - 0.3	1	1	900	l	1999 Jan.
+ 18.3	+ 15.4	+ 7.5	+ 7.9	+ 3.0	- 1.4	g - 1.1	4 – U.I	. – 0	– اد.	., → →	; T 1.1	, . 0.5	., 3.4	, ,555 3011.

also footnote 7). — 4 In the case of foreign branches, from December 1993 including transactions with the head office and with other branches in Germany; in the case of foreign subsidiaries, including transactions with the parent institution. — 5 Treasury bills, Treasury discount paper and other money market paper, debt securities. — 6 Including own debt securities. — 7 From 1999, including loans on a trust basis. — 8 Up to Dezember 1998, including liabilities arising from

loans on a trust basis (see also footnote 11). — 9 Excluding subordinated liabilities and non-negotiable debt securities and money market paper. — 10 Issues of negotiable and non-negotiable debt securities and money market paper. — 11 Including subordinated liabilities. From 1999, including liabilities arising from loans on a trust basis. — 12 See the note on the title page of Statistical Section (page 1\*) and the footnotes to the changed items.

#### V. Minimum reserves

### 1. Reserve ratios Germany

% of liabilities subject to reserve requirements

70 Of Habilities subj	ect to reserve requi	Terreiro	
Applicable from	Sight liabilities	Time liabilities	Savings deposits
1995 August 1	2	2	1.5
	Manager dans de la company de la company de la company de la company de la company de la company de la company		
	GRANINA CONTRACTOR CON		

#### European monetary union

% of reserve base 1

70 OTTESCIVE DASE	· · · · · · · · · · · · · · · · · · ·	
Applicable from	Ratio	
1999 January 1		2
SS SS SS SS SS SS SS SS SS SS SS SS SS		
ORACO CONTRACTOR CONTR		
	Į.	

<sup>1</sup> Article 3 of the ECB Regulation governing 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

averagé 1

1995 Dec.

1996 Dec.

1997 Dec.

1998 Dec.

Liabilities subject to reserve requirements Excess reserves 4 Required as % of the Total Sight liabilities Time liabilities Savings deposits Actual reserves 3 Shortfall, total required reserve 2.066,565 579.337 519.456 967.772 36 492 37 337 845 2,201,464 1,071,639 655,483 474,342 38,671 39,522 851 2,327,879 734,986 476,417 1,116,477 40,975 41,721 2.576.889 865.444 564.878 1.146.567 45.805 46 432

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	Reserve base 2	Required reserves before deduction of lump-sum allowance 3	Lump-sum allowance 4	Required reserves after deduction of lump-sum allowance	Actual reserves 5	Excess reserves 6	Shortfall, total 7
	European mone	tary union (euro	billion)				
1999 Jan. r Feb. <b>P</b> Mar.	4,947.1 5,057.7		:	98.3 100.6	99.3 101.5		0.1 0.1
Apr. May June	- Andrews designation of the state of the st						
July Aug. Sep.	· .						
	Of which: Germ	any (euro millior	n)				
1999 Jan. r Feb. p Mar.	1,499,039 1,524,794		317 318	29,664 30,178	29,961 30,452	297 273	17 17
Apr. May June							
July Aug. Sep.							

<sup>1</sup> 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 ECB Regulation governing 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 ECB Regulation governing 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.

<sup>1</sup> 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

#### VI. Interest rates

### 1. ECB interest rates on standing facilities

### 2. Discount and lombard rates of the Bundesbank

### 3. Base rate per Discount Rate Transition Act

% p.a.		
	Interest rates for	
Applicable from	Deposit facility	Marginal lending facility
1999 Jan. 1 1 Jan. 4 Jan. 22 Apr. 9	2.00 2.75 2.00 1.50	4.50 3.25 4.50 3.50

% p.a.		generalistica app. 2004 et 22000 esperanto de 115 establisme et sug
Applicable from	Discount rate	Lombard rate 2, 3
1993 Feb. 5 Mar. 19 Apr. 23 July 2 July 30 Sep. 10 Oct. 22	8 7 1/2 7 1/4 6 3/4 6 1/4 5 3/4	9 9 8 ½ 8 ¼ 7 ¾ 7 ¼ 6 ¾
1994 Feb. 18 Apr. 15 May 13	5 1/ <sub>4</sub> 5 4 1/ <sub>2</sub>	6 <sup>3</sup> / <sub>4</sub> 6 <sup>1</sup> / <sub>2</sub> 6
1995 Mar. 31 Aug. 25 Dec. 15	4 3 ½ 3	6 5 ½ 5
1996 Apr. 19 to 1998 Dec. 31	2 1/2	4 1/2

	% p.a.		
3	Applicable from	Base rate 4	
	Bridge or processor and a school control of the con	1	
0	1999 Jan. 1	2.50	֡
-		PH District	
l			
1			
1		-	
0.40104-0		T-P-COLOR	
i		rearcher control	
-			
240431			
-	98.		
-			
-			
- 2	1	>	

1 On December 22, 1998 the European Central Bank (ECB) announced that at the beginning of Stage Three the interest rate for the deposit facility would be set at a level of 2.00 % and the interest rate for the marginal lending facility at a level of 4.50 %. As a transitional measure – between January 4 and 21, 1999 – a narrow band of 50 basis points was applied by way of exception. This was designed to ease the transition to the new system for market participants. — 2 From August 1, 1990 to December 31, 1993 this was also the rate for cash advances; since January 1, 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 (see footnote 4). — 3 Pursuant to the Discount Rate Transition Act, read in conjunction with the Lombard 1 On December 22, 1998 the European Central Bank (ECB) announced that

Rate Transition Regulation, the lombard rate is replaced from January 1, 1999 by the rate applied by the ECB for its marginal lending facility wherever the lombard rate is used as a reference variable for interest and other payments. — 4 Pursuant to the Discount Rate Transition Act, read in conjunction with Regulation Governing the Use of the Base Rate as a Reference Variable, this rate replaces the discount rate from January 1, 1999 until December 31, 2001 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 December 31, 1998. It changes from January 1, May 1 and September 1 of each year, and will change for the first time on May 1, 1999 if the interest rate applied by the ECB to its longer-term refinancing operations has changed by at least 0.5 percentage points.

## 4. Eurosystem monetary policy operations executed through tenders \* Main refinancing operations

Date of settlement

1999 Jan. Jan. 13 Jan. 20 27 Jan. reb. 3 Feb. 10 Feb. 17 Feb. 24 Mar. 3 Mar. 10 Mar. 17 Mar. 31 Apr. 7 Apr. 14

		Fixed rate tenders	Variable rate tenders		e-sacrange
Bids Amount	Allotment Amount	Fixed rate	Marginal rate	Weighted average rate	ner er er er er er er er er er er er er e
EUR millions	Annaharangia Sara-asag annaha ay ay ay ay ay ay ay ay ay ay ay ay ay	%. p.a.	Specific States with the hold decrease about 1980 200 to 1988 about 1990 access on 1990 at 1987 1988 1990 access on 1990 acces		Running for days
481,625	75,000	3.00		_	1
563,409		3.00	_	-	1
593,418	59,000	3.00	_	-	1
689,467	69,000	3.00	-	_	•
757,724	62,000	3.00	_	_	•
911,302	65,000			_	
896,138		3.00		-	
991,109		3.00	<del>-</del>	_	
1,100,797	67.000	3.00	_	—	-
950,369	75.000	3.00		<del>-</del>	and the second of the second o
335,249		3.00			
372,647		3.00		-	
118,683		3.00	-	_	
67,353	67 353	3.00	_	-	
781,721		2.50		-	

## Longer-term refinancing operations

Date of settlement

是一个人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人					
guardiante en concentration de la company de	And the state of t	Fixed rate tenders	Variable rate tenders		
Bids Amount	Allotment Amount	Fixed rate	Marginal rate	Weighted average rate	Running for
EUR millions		%. p.a.			days
79,846 39,343 46,152 77,300 53,659	15,000 15,000 15,000		3.13 3.10 3.08 3.04	- - - - 2.97	42 70 105 91 98

<sup>\*</sup> Source: ECB.

#### VI. Interest rates

#### 5. Money market rates, by month

% p.a.

Period 1998 Mar.

> June July Aug. Sep. Oct. Nov. Dec

1999 Jan. Feb. Mar

Money ma	rket rates i	epoi	rted l	y Frankfurt	banks 1			FIBOR 2, 3						Old-style FIB	OR 2, 4
Day-to-day	money			Three-mon	th funds			Day-to-day money (overnight)	One- month funds	ı	Three- month funds	Six- month funds	Twelve- month funds	Three- month funds	Six- month funds
Monthly averages	Lowest ar highest ra			Monthly averages	Lowest a highest r			Monthly ave	rages						
3.45	3.36	-	4.15	3.50	3.45	_	3.58	3.49	3.4	18	3.52	3.60	3.77	3.60	3.68
3.41 3.41 3.47	3.25 3.34 3.38	-	3.52 3.70 4.40	3.61 3.60 3.54	3.55 3.52 3.51	_	3.65 3.64 3.57	3.44 3.44 3.51	3.5 3.5 3.4	55	3.63 3.63 3.56	3.73 3.73 3.66	3.94	3.71	3.79 3.81 3.74
3.39 3.48 3.48	2.50 3.32 3.36	-	4.20 4.50 4.40	3.52 3.48 3.46	3.48 3.43 3.42	-	3.55 3.51 3.55	3.43 3.51 3.51	3.4 3.4 3.4	16	3.54 3.50 3.49	3.64 3.59 3.56	3.73	3.57	3.72 3.68 3.58
3.41 3.42 3.14	3.38 3.38 5 2.96	-	3.70 3.65 4.00	3.54 3.61 3.36	3.50 3.55 3.17		3.59 3.65 3.64	3.44 3.44 3.17	3.5 3.5 3.4	54	3.57 3.63 3.38	3.55 3.59 3.29	3.53	3.72	3.60 3.60 3.33
									EURIBOR 7						
								EONIA 6	One- week funds	- 1	One- month funds	Three- month funds	Six- month funds	Nine- month funds	Twelve- month funds
								Monthly ave	ages						
3.14 3.11 2.93	3.00	- :	3.28 3.20 3.13	3.11 3.07 3.03	3.02 3.03 2.94	-	3.21 3.11 3.11	3.14 3.12 2.93	3.1 3.1 3.0	3	3.16 3.13 3.05	3.13 3.09 3.05	3.04	3.03	3.06 3.03 3.05

1 Money market rates are not fixed or quoted officially; the monthly averages computed from daily quotations are unweighted. — 2 Frankfurt Interbank Offered Rate. Pursuant to the Discount Rate Transition Act, read in conjunction with the FIBOR Transition Regulation, these FIBOR rates have been replaced as a reference variable for interest and other payments by the corresponding EURIBOR rates (old-style FIBOR rates are additionally adjusted by applying a conversion factor). — 3 Day-to-day money (overnight): since July 1, 1996 rate ascertained by Telerate; time deposits: from July 2, 1990 until December 30, 1998 rate ascertained by Telerate on a broader basis than before and calculated by the method of computing interest on the

basis of act/360. — 4 Rate calculated since August 1985 by Privatdiskont AG, and from January 1996 until December 30, 1998 by Telerate, by the method of computing interest on the basis of 360/360 days (from July 1990 only as a basis for maturing transactions). — 5 At the end of December 3.50% to 4.00%. — 6 Euro OverNight Index Average: weighted average overnight rate for interbank operations calculated by the European Central Bank since January 4, 1999 on the basis of real turnover according to the act/360 method and published via Bridge Telerate. — 7 Euro Interbank Offered Rate: unweighted average rate calculated by Bridge Telerate since December 30, 1998 according to the act/360 method.

#### 6. Euro area retail bank interest rates \*, o

% p.a.; period averages; lending interest rates are provisional

Deposit interes	t rates					Lending intere	st rates		
	With agreed m	aturity	9	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
1.94 1.47 1.11	4.09 3.41 3.20	4.69 3.63 3.22	4.40 4.06	3.05 2.80 2.61	3.16 3.09 3.25	8.64 7.27 6.42	6.69 5.94	11.03 9.97 9.39	7.76 6.8° 5.98
1.25	3.32	3.36	4.31	2.76	3.30	6.76	6.30	9.69	6.41
1.25	3.30	3.33	4.26	2.74	3.32	6.73	6.19	9.63	6.31
1.20	3.27	3.30	4.26	2.71	3.30	6.62	6.12	9.49	6.15
1.12	3.24	3.26	4.27	2.71	3.33	6.55	6.09	9.46	6.15
1.12	3.27	3.28	4.19	2.58	3.34	6.47	6.04	9.46	6.08
1.08	3.25	3.26	4.15	2.56	3.29	6.35	6.00	9.39	5.9 <sup>4</sup>
1.06	3.23	3.24	4.05	2.55	3.30	6.31	5.91	9.39	5.88
1.05	3.17	3.18	3.88	2.53	3.21	6.30	5.78	9.37	5.75
1.04	3.12	3.13	3.75	2.49	3.14	6.19	5.65	9.15	5.58
0.94	3.06	3.05	3.70	2.48	3.12	6.07	5.57	9.03	5.52
0.87	2.81	2.81	3.56	2.44	3.03	5.91	5.26	8.92	5.38
0.79	2.67	2.67	3.43	2.36	2.86	5.77	5.17	8.89	5.20
0.74	2.60	2.59	3.38	2.33	2.78	5.68	5.09	8.82	5.12

1996 1997 1998 1998 Feb. Mar. Apr. May July Aug. Sep. Oct. Nov. Dec. 1999 Jan. Feb.

Period

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 the monthly 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.

<sup>\*</sup> These euro area retail bank interest rates should be used with caution and for statistical purposes only, primarily for analysing 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

o Tables and notes taken from the ECB.

#### VI. Interest rates

#### Lending and deposit rates of banks (MFIs) in Germany \* Lending rates

% p.a

Current account cre	edit					Bills discounted	
less than DM 200,0	00	DM 200,000 and mo but less than DM 1		DM 1 million and m but less than DM 5		Bills of less than DN rediscountable at the Bundesbank	
Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread
10.02 10.03	1	£		7.68 7.65	1	1	\$
10.03 9.99 9.99	7.75 - 11.75	9.02 9.00 8.99	6.75 - 11.25		6.00 - 10.50	4.76	3.15 - 7.00
9.98 9.97 9.94	7.75 - 11.75	8.95	6.75 - 11.25	. 7.57	6.00 - 10.50	4.88	3.25 – 7.25
9.93 9.92 9.89	7.50 - 11.75	8.89	6.75 - 11.25	7.53	6.00 - 10.50	5.32	3.50 - 8.50

1998 May June July Aug. Sep. Oct. Nov. Dec. 1999 Jan. Feb. Mar.

Reporting period 1

onggggjopogggggggggggggggggggggggggggggg	jaken cog gagging unter selem en en en en en en en en en en en en en	Instalment cred	lits			Long-term fixed to enterprises a (excluding lend			aggicio a del proposicio del composicio --	--	---------------------------	----------------------------	------------------------------	------------------------------	--	-------------	-----------------------------------	--
Personal credit	lines	DM 10,000 and	more but not m	ore than DM 30	,000 2	DM 200,000 an but less than D		DM 1 million a but less than D										
(overdraft facili granted to indi	ties	Monthly rate <sup>3</sup>		Effective annual interest	rate 4	Effective intere	st rate											
Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread									
11.26 11.26	9.75 – 12.25 9.75 – 12.25	E .	0.32 - 0.49 0.32 - 0.49	10.60 10.65	8.42 - 12.63 8.42 - 12.63		1	6.18 6.14	5.47 - 7.61 5.30 - 7.61									
11.25 11.24 11.26	9.75 – 12.25 9.75 – 12.25 9.75 – 12.25	0.41	8	10.76 10.69 10.63	ž.	6.24			5.20 - 7.39									
11.23 11.23 11.22	9.75 – 12.25 9.75 – 12.25 9.75 – 12.25	0.40	0.32 - 0.49	10.43	8.26 - 12.73	5.94	4.84 – 7.75	5.69	4.70 - 7.39									
11.22 11.22 11.22		0.39	1		8.20 – 12.58	5.54	4.50 - 7.50	5.27	4.32 - 6.72									

Reporting period 1 1998 May June July Aug. Sep. Oct. Nov. Dec. 1999 Jan.

Feb

Mar.

	Mortgage loans sec	ured by residential	real estate	00040000000000000000000000000000000000			**************************************	
	with interest rates	fixed (effective inte	rest rate) 6		galancia con con con con con con con con con con		with variable intere	act rates
	for 2 years		for 5 years		for 10 years		(effective interest r	
ing 1	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread
lay une	5.42 5.38	5.03 - 5.96 5.01 - 5.91	5.64 5.58	5.40 - 6.06 5.38 - 6.06	6.07 6.00		6.14 6.14	5.12 - 7.61 5.12 - 7.61
ıly ug. ep.	5.35 5.28 5.05	4.96 - 5.91 4.89 - 5.91 4.59 - 5.75	5.53 5.41 5.19	5.33 - 6.06 5.17 - 5.91 4.80 - 5.85	5.93 5.81 5.63	5.75 - 6.38 5.60 - 6.31 5.36 - 6.28	6.11 6.08 5.98	
ct. ov. ec.	4.88 4.87 4.70	4.44 - 5.64 4.44 - 5.57 4.18 - 5.48	4.99		5.49 5.48 5.29	9	5.88 5.86 5.78	4.76 - 7.23
an. eb. 1ar.	4.52 4.46 4.51	4.01 - 5.12	4.53		5.11 5.05 5.20		5.67 5.61 5.63	4.41 - 7.18 4.35 - 7.16 4.40 - 7.01

Reporting period 1

1998 May June
 July Aug. Sep.
 Oct. Nov. Dec.

1999 Jan. Feb.

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. Up to and including December 1998: with agreed maturities and interest rates locked in for four years and more. — 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).

<sup>\*</sup> 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. — 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

# VI. Interest rates

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

% p.a.

Reporting period 1 1998 May

Reporting period 1 1998 May June July Aug. Sep. Oct. Nov. Dec. 1999 Jan. Feb. Mar.

July Aug. Sep. Oct. Nov. Dec. 1999 Jan. Feb. Mar.

		Time deposit	with agreed ma	iturities			7,200		
Higher-yielding		of 1 month						of 3 months	
sight deposits of individuals 7	•	less than DM	100,000	DM 100,000 ar less than DM 1		DM 1 million a less than DM 5		DM 100,000 an less than DM 1	
Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread
1.98 2.00			1	1	2.50 - 3.25 2.45 - 3.25	1		1	2.50 - 3.35 2.50 - 3.40
1.99 2.01 2.00	0.50 - 3.	00 2.5	4 2.00 - 3.00	2.88	2.40 - 3.25	3.14	2.70 - 3.40	2.99	2.50 - 3.38 2.50 - 3.35 2.50 - 3.30
1.98 1.99 1.98	0.50 - 3. 0.50 - 3. 0.50 - 3.	00 2.5	3 2.00 - 3.00	2.87	2.50 - 3.25	3.13 3.12	2.70 - 3.40 2.70 - 3.40 2.65 - 3.40	2.98 3.00	2.50 - 3.30 2.50 - 3.40
1.93 1.90 1.88	0.50 - 3. 0.50 - 3. 0.50 - 2.	2.3	3 1.90 - 2.7	2.63	2.25 - 3.00	2.82	2.50 - 3.20 2.50 - 3.10 2.50 - 3.10	2.70	2.30 - 3.13 2.25 - 3.00

Donk anvince he		Savings deposit	ts						
Bank savings bo with regular interest payme		with minimum return 8	rates of	with higher rat (without a dura		t being agreed)			<del></del>
				with agreed no	otice of 3 mont	15			
maturity of 4 ye	ears	with agreed no of 3 months	tice	less than DM 1	0,000	DM 10,000 and but less than D		DM 20,000 and but less than D	
Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread	Average interest rate	Spread
4.23 4.21	3.81 - 4.55 3.80 - 4.50		1.50 - 2.00 1.50 - 2.00		1.75 - 3.00 1.75 - 3.04		2.00 - 3.25 2.00 - 3.25		2.25 - 3.3 2.25 - 3.3
4.19 4.09	3.75 - 4.50 3.71 - 4.50	1.55			1.75 - 3.04 1.75 - 3.00		2.00 - 3.25 2.00 - 3.23	1	2.25 - 3.3 2.25 - 3.2
3.88 3.69	3.40 - 4.50 3.25 - 4.25		1.50 - 2.00 1.25 - 2.00		1.75 - 3.00 1.75 - 3.00		2.00 - 3.10 2.00 - 3.10		2.25 - 3.2 2.25 - 3.2
3.64 3.49	3.25 - 4.25 3.00 - 4.10				1.75 - 3.34 1.75 - 3.00		2.00 - 3.09 2.00 - 3.09	2.71	2.20 - 3.2 2.20 - 3.1
3.30 3.20 3.21	3.00 - 4.00 2.87 - 3.90 2.90 - 3.75	1.45	1.00 - 2.00	2.19		2.37	2.00 - 3.00 1.80 - 2.80 1.75 - 2.85	2.51	2.00 - 3.0 2.00 - 3.0 2.00 - 3.0

3.23   2.68 - 3.75   3.86   3.00 - 4.83   4.51   3.30 - 5.75   3.33   2.50 - 3.80   4.31   3.40 - 4.50   3.22   2.68 - 3.75   3.82   3.00 - 4.31   4.46   3.30 - 5.60   3.29   2.70 - 3.65   4.28   3.40 - 4.50   3.11   2.60 - 3.50   3.50   3.60   3.00 - 4.25   4.27   3.10 - 5.60   3.21   2.70 - 3.50   4.07   3.45   4.83   3.40 - 4.50   3.00   4.50   3.30   5.60   3.20   2.70 - 3.65   4.28   3.40 - 4.50   3.30   3.50	with agreed no and a duration	tice of 3 month of contract of	S		n en anno a con		(MERCHANI ALCOHOMO CARO NACIONALIA	marinettus alphassa	with agreed no and a duration			
3.23   2.68 - 3.75   3.86   3.00 - 4.83   4.51   3.30 - 5.75   3.33   2.50 - 3.80   4.31   3.40 - 4.50   3.22   2.68 - 3.75   3.82   3.00 - 4.31   4.46   3.30 - 5.60   3.29   2.70 - 3.65   4.28   3.40 - 4.50   3.11   2.60 - 3.50   3.50   3.60   3.00 - 4.25   4.27   3.10 - 5.60   3.21   2.70 - 3.50   4.07   3.45   4.83   3.40 - 4.50   3.00   4.50   3.30   5.60   3.20   2.70 - 3.65   4.28   3.40 - 4.50   3.30   3.50	up to and inclu	ding 1 year			to	more than 4 ye	ars		up to and inclu	ding 1 year	more than 4 ye	ears
3.23	Average interest rate	Spread		Spread			Spread			Spread		Spread
3.23     2.60 - 3.75     3.88     3.00 - 4.70     4.50     3.30 - 5.60     3.34     2.70 - 3.80     4.31     3.40 - 4.31       3.22     2.68 - 3.75     3.82     3.00 - 4.31     4.46     3.30 - 5.60     3.29     2.70 - 3.65     4.28     3.40 - 4.31       3.19     2.70 - 3.75     3.71     2.80 - 4.25     4.37     3.10 - 5.60     3.30     2.70 - 3.75     4.18     3.40 - 4.31       3.11     2.60 - 3.50     3.60     3.00 - 4.25     4.27     3.10 - 5.60     3.21     2.70 - 3.50     4.07     3.45 - 4.31       3.06     2.50 - 3.50     3.48     2.77 - 4.25     4.11     3.10 - 5.60     3.14     2.70 - 3.50     3.86     3.00 - 4.31       3.05     2.50 - 3.50     3.47     2.77 - 4.25     4.09     3.33 - 5.60     3.12     2.50 - 3.50     3.84     3.10 - 4.31	3.23	2.68 - 3.75	3.86	3.00 –	4.83	4.51	3.30 –	5.75	3.33	2.50 - 3.	30 4.31	3 40 - 4
3.19 2.70 - 3.75 3.71 2.80 - 4.25 4.37 3.10 - 5.60 3.30 2.70 - 3.75 4.18 3.40 - 4.25 3.40 - 3.20 3.00 3.00 - 4.25 4.27 3.10 - 5.60 3.21 2.70 - 3.50 4.07 3.45 - 4.28 3.00 3.05 2.50 - 3.50 3.48 2.77 - 4.25 4.11 3.10 - 5.60 3.14 2.70 - 3.50 3.86 3.00 - 4.25 3.05 2.50 - 3.50 3.47 2.77 - 4.25 4.09 3.33 - 5.60 3.12 2.50 - 3.50 3.84 3.10 - 4.25 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20	3.23	2.60 – 3.75	3.88	3.00 -	4.70	4.50	3.30 -	5.60				1
3.19     2.70 - 3.75     3.71     2.80 - 4.25     4.37     3.10 - 5.60     3.30     2.70 - 3.75     4.18     3.40 - 4.25       3.11     2.60 - 3.50     3.60     3.00 - 4.25     4.27     3.10 - 5.60     3.21     2.70 - 3.50     4.07     3.45 - 4.25       3.06     2.50 - 3.50     3.48     2.77 - 4.25     4.11     3.10 - 5.60     3.14     2.70 - 3.50     3.86     3.00 - 4.25       3.05     2.50 - 3.50     3.47     2.77 - 4.25     4.09     3.33 - 5.60     3.12     2.50 - 3.50     3.84     3.10 - 4.25	3.22	2.68 - 3.75	3.82	3.00 –	4.31	4.46	3.30 -	5.60	3.29	2.70 - 3.	55 4.28	340 - 4
3.11 2.60 - 3.50 3.60 3.00 - 4.25 4.27 3.10 - 5.60 3.21 2.70 - 3.50 4.07 3.45 - 4.27 3.06 2.50 - 3.50 3.48 2.77 - 4.25 4.11 3.10 - 5.60 3.14 2.70 - 3.50 3.86 3.00 - 4.25 3.05 2.50 - 3.50 3.47 2.77 - 4.25 4.09 3.33 - 5.60 3.12 2.50 - 3.50 3.84 3.10 - 4.25 3.25 3.25 3.25 3.25 3.25 3.25 3.25 3	3.19	2.70 - 3.75	3.71	2.80 –	4.25	4.37	3.10 -	5.60				1
3.05 2.50 - 3.50 3.47 2.77 - 4.25 4.09 3.33 - 5.60 3.12 2.50 - 3.50 3.84 3.10 - 4	3.11	2.60 - 3.50	3.60	3.00 –	4.25	4.27	3.10 –	5.60	3.21	2.70 - 3.		1
3.05 2.50 - 3.50 3.47 2.77 - 4.25 4.09 3.33 - 5.60 3.12 2.50 - 3.50 3.84 3.10 - 4.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	3.06	2.50 - 3.50	3.48	2.77 –	4.25	4.11	3.10 -	5.60	3.14	2.70 - 3.	50 3.86	300 - 4
206 245 250 224 252 400 400 240 240	3.05	2.50 - 3.50	3.47	2.77 -	4.25	4.09	3.33 –	5.60				1
	2.96	2.45 - 3.50	3.34	2.53 -	4.00	4.00	3.10 -	5.40	3.03			1
$2.85 \mid 2.35 - 3.30 \mid 3.10 \mid 2.50 - 4.00 \mid 3.96 \mid 2.90 - 5.40 \mid 2.86 \mid 2.50 - 3.25 \mid 3.47 \mid 2.78$	2.75	2.25 - 3.25										
2.75 2.75 2.75 2.76 2.70 2.70 2.70 2.70 2.70 2.70 2.70	2.73	2.25 - 3.25	2.98					5.32	2.79		5 3.30	4

For footnotes \*,1 to 6 see page 43\*. — 7 Only such interest rates are taken into account as are above the relevant standard terms of the banks included in the survey. — 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 premium or a bonus is granted. — 10 Rate of return which is paid when savings plans are held until maturity or when savings objectives have been achieved.

Reporting period 1 1998 May June July

June
July
Aug.
Sep.
Oct.
Nov.
Dec.
1999 Jan.
Feb.

Mar.

#### VI. Interest rates

#### 8. Selected central bank rates abroad

	New rat	e	Previous	rate		New rat	e	Previous	rate
Country/Interest rate	% p.a.	Applicable from	% p.a.	Applicable from	Country/Interest rate	% p.a.	Applicable from	% p.a.	Applicable from
1. EU-countries 1		No.	and a company of the		3. Non-European countries			CONTRACTOR OF THE CONTRACTOR O	Atthensive and Property
Denmark Discount rate Repurchase/CD selling rate	2 <sup>3</sup> / <sub>4</sub> 2.90	Apr. 9, '99 Apr. 9, '99	3 ½ 3.40	Feb. 4, '99 Mar. 1, '99	Discount rate	5	Mar. 31, '99	5 1/4	Nov. 18, '98
Greece Deposit rate <sup>2</sup> Repurchase rate Lombard rate	11.50 12 13 ½	Jan. 14, '99 Jan. 13, '99 Jan. 14, '99	12 1/4	Dec. 10, '98 Dec. 9, '98 Dec. 10, '98	Japan Discount rate United States Discount rate	4 1/2	Sep. 8, '95 Nov. 17, '98 Nov. 17, '98	1 4 <sup>3</sup> / <sub>4</sub>	Apr. 14, '95 Oct. 15, '98 Oct. 15, '98
Sweden Deposit rate Repurchase rate Lombard rate	2.90	Feb. 17, '99 Mar. 25, '99 Feb. 17, '99	3.15	Nov. 12, '98 Feb. 17, '99 Nov. 12, '98	Federal funds rate 5	4 7/4	NOV. 17, 90	comu umo qui di dandi programa del colorida	T. J.
United Kingdom Repurchase rate <sup>3</sup>	5 1/4	Apr. 8, '99	5 1/2	Feb. 4, '99	MARKATAN PARAMANANAN PARAMANAN d and the second	THE PROPERTY OF THE PROPERTY O	MANAGE CONTRACTOR		
Switzerland     Discount rate	1/2	Apr. 9, '99	1	Sep. 27, '96	neocipiezzy ( ) The Control of the C	**************************************	VIII.	A parente de la constante de l	

Hona Kona

Tokyo

Euro-Dollar market

# 9. Money market rates abroad

Monthly or weekly averages of daily figures 1

New York

% p.a.

	London		New York		Tokyo		Zurich	Hong Kon	9	EUIO-DOII	II IIIdIKEL					
Month or	Day-to- day money <sup>2</sup>	Treasury bills (three months) Tender rate 3	Federal funds 4	Treasury bills (three months) Tender rate 3	Day-to- day money	Gensaki rate (three months)	Three- month funds 5	Day-to- day money 6	Exchange fund bills 7	Day-to- day money 8	One- month funds <sup>9</sup>	Three- month funds 9	Memor item Swap ra open m US\$/DN Euro/U	ates in narket 1	the	and the manuscript of the filter manuscript on the distribution of the second of the s
week 1997 Jan. Feb. Mar.	5.94 6.10 5.86	6.01 5.81 5.92	5.25 5.19 5.39	5.05 5.00 5.14	0.48 0.50 0.51	0.26 0.24 0.25	1.09 1.28	4.87 5.28 5.27	4.53 4.69 5.04	5.30 5.29 5.38	5.40 5.33 5.41	5.51 5.41 5.55	<del>-</del> -	2.39 2.26 2.32	- - -	3.19 2.99 2.93
Apr. May June	5.98 6.20 6.40	6.09 6.15 6.37	5.51 5.50 5.56	5.17 5.13 4.92	0.50 0.49 0.50	0.29 0.30 0.32	1.19 0.63 0.78	5.65 5.57 5.65	5.36 5.40 5.66	5.56 5.55 5.59	5.61 5. <b>5</b> 9 5.58	5.73 5.7 <b>4</b> 5.72	_ _ _	2.57 2.62 2.63	- - -	3.13 3.27 3.53
July Aug. Sep.	6.68 6.88 6.93	6.58 6.84 6.89	5.51 5.54 5.54	5.06 5.13 4.97	0.49 0.49 0.50	0.36 0.36 0.33	0.94 0.81 0.88	5.79 6.50 6.76		5.54 5.54 5.60	5.58 5.54 5.58	5.66 5.65 5.62	- - -	2.53 2.40 2.39	- -	3.78 3.87 3.90
Oct. Nov. Dec.	6.91 7.11 7.17	6.94 7.09 7.02	5.50 5.52 5.50	4.95 5.15 5.16	0.48 0.49 0.39	0.33 0.31 0.23	1.31 1.38 1.00	11.23 5.43 4.53		5.53 5.59 5.60	5.58 5.64 5.85	5.68 5.80 5.82	- - -	2.15 2.08 2.12	- - -	3.67 3.77 3.84
1998 Jan. Feb. Mar.	7.13 7.15 7.09	6.80 6.88 6.98	5.56 5.51 5.49	5.09 5.11 5.03	0.44 0.43 0.43	0.24 0.26 0.26	0.46	7.06 4.68 4.43	7.02	5.53 5.54 5.53	5.54 5.54 5.58	5.58 5.58 5.58	_ _ _	2.05 2.09 2.12	- - -	3.89 3.93 3.91
Apr. May June	7.09 7.13 7.47	7.02 6.99 7.29	5.45 5.49 5.56	5.00 5.03 4.99	0.44 0.43 0.44	0.27 0.28 0.28	1.08	4.47 5.13 6.72		5.55 5.53 5.61	5.55 5.58 5.56	5.65 5.63 5.63	- -	2.02 2.04 2.09	- - -	3.78 3.76 4.04
July Aug. Sep.	7.29 7.37 7.44	7.22 7.19 6.95	5.54 5.55 5.51	4.96 4.94 4.74	0.43	0.29 0.29 0.18			7.86 9.78 8.37		5.59 5.59 5.52	5.63 5.63 5.45	- - -	2.14 2.14 2.00	-	4.13 4.11 3.89
Oct. Nov. Dec.	7.44 6.55 6.21	6.54 6.31 5.71	5.07 4.83 4.68	4.08 4.44 4.42	0.24 0.20 0.25	0.11 0.11 0.12	0.50 0.94 0.69	4.61	6.33 5.60 5.22	5.13	5.20	5.22 5.28 5.20	-  -  -	1.69 1.67 1.89	- - -	3.52 3.21 3.04
1999 Jan. Feb. Mar. P	5.87 5.63 5.43		4.63 4.76 4.81	4.34 4.45 4.48		0.14 0.13 0.08	0.56	4.99	5.63	4.74	4.94	5.00 5.00 5.01	+ + +	1.85 1.87 1.95	+ +	2.61 2.27 2.24
week ending P		Dec 017500		Balance Control					gase on a second						-	
1999 Feb. 26	5.64	5.19	4.75	4.53	0.12	0.11	0.56	5.51	5.64	4.80	4.95	5.01	+	1.90	+	2.24
Mar. 5 12 19 26	5.65 5.33 5.25 5.49	5.12 5.08	4.79	4.51 4.47	0.04 0.03	0.08 0.07		4.99 4.15 3.66 4.99	5.24 5.17	4.79	4.94	5.00	++	1.90 1.91 1.92 2.01	++	2.23 2.26 2.23 2.25

Zurich

deposits. — 9 From January 1999 US dollar-denominated London Interbank Offered Rate (LIBOR). Previously the rates were based on quotations reported by Frankfurt and Luxemburg banks. — 10 Rates for three-month contracts. Owing to the indirect quotation, the forward points between the euro and the foreign currency for the repurchase date of the swap are calculated in the foreign currency as from January 1999; previously the calculation was expressed in DM. As a result the previous discount (–) changes into a premium (+).

<sup>1</sup> Only those member countries which are not participating in the euro area for the time being. — 2 Basic tranche. — 3 Bank of England key rate. —

 $<sup>\</sup>bf 4$  Bank of Canada's ceiling rate for call money. —  $\bf 5$  Rate targeted for interbank trade in central bank money.

<sup>1</sup> Unless stated otherwise. — 2 Overnight money rate in the interbank market. — 3 Months: average of the tender rates in the weekly Treasury bill auctions; weeks: average of the tender rates on the day of issue. — 4 Weekly average (Thursday to Wednesday) — 5 Three month deposits with big banks in Zurich; months: average of end-of-month figures. Figure for the fourth week is that for the last day of the month. — 6 Hong Kong dollar-denominated Hong Kong Interbank Offered Rates (HIBOR). — 7 Money market paper issued regularly by the Hong Kong Monetary Authority; maturity of 91 days. — 8 From January 1999 rates for overnight

# VII. Capital market

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

	Sales						Purchases				
	Domestic del	ot securities 1					Residents	**************************************		<del></del>	
Sales = total pur- chases	Total	Bank debt securities	Indus- trial bonds	1600-000-sus-100-rus	Public debt secur- ities 2	Foreign debt secur- ities <sup>3</sup>	Total 4	Credit in- stitutions including building and loan assc. 5	Non- banks <sup>6</sup>	Bundes- bank open market oper- ations 5	Non- residents 7
DM million	pr										
103,497 112,285 88,425 118,285 244,827 231,965 291,762 395,110 303,339 227,099 254,099 254,095 327,315	87,485 88,190 35,100 78,409 220,340 219,346 284,054 382,571 276,058 203,029 233,519 250,688 308,201	29,509 28,448 11,029 52,418 136,799 131,670 106,857 151,812 117,185 162,538 191,341 184,911 254,367		200 27 100 344 67 667 175 200 65 350 649 ,563	57,774 59,768 46,228 25,649 83,609 87,011 177,376 230,560 158,939 40,839 41,529 64,214 50,691	16,012 24,095 53,325 39,876 24,487 12,619 7,708 12,539 27,281 24,070 20,573 76,627 109,234	45,927 78,193 86,657 96,073 225,066 173,099 170,873 183,195 279,989 141,282 147,266 198,471 249,935	31,192 45,305 36,838 20,311 91,833 45,095 132,236 164,436 126,808 49,193 117,352 144,177 203,342	13,667 33,599 49,417 76,448 133,266 127,310 37,368 20,095 154,738 94,409 30,767 54,294 46,593	402 - 686 - 33 694 1,269	57,57 34,09 1,76 22,21 19,76 58,86 120,88 211,91 23,34 85,81 106,82 128,84 167,50
25,627 16,642	27,280 11,125	23,025 16,804		- 19	4,256 - 5,699	- 1,653 5,517	- 3,188 8,009	17,715 - 8,515	- 20,903 16,524	 	28,81 8,63
27,105 47,705 6,327	16,822 34,387 - 6,548	3,213 23,539 1,210		130 154 500	13,479 10,695 – 8,258	10,283 13,318 12,875	37,100 27,558 – 10,771	41,179 24,409 – 27,622	- 4,079 3,149 16,851	- - -	- 9,99 20,14 17,09
uro million	Per terla recensional construction of the cons		- William - The Control of the Contr								
38,961 30,989	30,946 14,494	19,953 16,234	_	51 -	11,044 - 1,740	8,015 16,495	22,630 24,881	- 5,132 9,089	27,762 15,792	-	16,33 6.10

Shares		Control of the Contro	THE PERSON AND ASSESSMENT OF THE PERSON OF T			····	
	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	
DM million					£		
32,371 15,845 21,390 35,511	16,394 11,889 7,528 19,365	15,976 3,955 13,862 16,147	17,195 16,439 18,436 10,231	5,022 2,153 1,177 4,913	12,173 14,286 17,259 5,318		15,174 594 2,953 25,277
50,070 33,478 32,595 39,355 55,125	28,021 13,317 17,226 19,512 29,160	22,048 20,161 15,370 19,843 25,966	52,631 32,247 40,651 30,871 54,466	7,215 2,466 2,984 4,133 1,622	45,416 29,781 37,667 26,738 52,844	-	2,561 1,230 8,055 8,485 659
46,422 71,693 114,694 235,597	23,600 34,212 22,239 48,796	22,822 37,481 92,454 186,800	49,354 55,164 91,876 134,422	11,945 12,627 8,547 20,252	37,409 42,537 83,329 114,170	-	2,931 16,529 22,818 101,176
12,186 9,794	6,85 <b>8</b> 876	5,328 8,918	12,626 9,647	- 2,527 - 4,571	15,153 14,218	-	440 147
11,170 62,288 14,125	1,300 1,460 5,820	9,870 60,828 8,305	20,213 10,849 18,387	168 15,554 12,481	20,045 - 4,705 30,868	- -	9,043 51,439 4,262
Euro million							
10,299 4,411	1,341 617	8,958 3,794	10,228 2,920	3,425 1,498	6,803 1,422		71 1,491

<sup>\*</sup> Excluding 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 investment funds. — 7 Net purchases or net sales (—) of domestic debt securities (including money market paper issued by banks) by non-residents; transac-

Period

1999 Jan. Feb.

Nov. Dec.

1998 Aug. Sep. Oct. Nov. Dec.

1999 Jan.

tion 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 \*

DM million nominal value, as from 1999 euro million nominal value

	DIVI MIIIION NOM	inal value, as from	commence of the company of the compa	nominal value			Memorandum		
		Bank debt securi	ties 1			granten operation of the second secon		Sample Andread Comments	item
			Mortgage bonds	Communal bonds	Debt securities issued by spe-		may and an and an and an an and an an an an an an an an an an an an an	Total Action Control	DM debt securities
		All bank debt	(Hypotheken-	(Öffentliche	cialised credit	Other bank debt securities	Industrial bonds 2	Public debt securities 3	issued by
Period	Total Gross sales 4	securities	pfandbriefe)	Pfandbriefe)	institutions	I debt securities	Dorius 2	uebt securities >	non-residents
	<del>                                     </del>						z.		35.460
1990 1991	428,698 442,089	286,709 292,092	14,923 19,478	70,701 91,489	89,755 80,738	111,326 100,386	707	141,990 149,288	32,832
1992	572,767	318,522	33,633	134,363	49,195	101,333	_	254,244	57,282 87,309
1993 1994	733,126 627,331	434,829 412,585	49,691 44,913	218,496 150,115	34,028 39,807	132,616 177,750	457 486	297,841 214,261	61,465
1995	620,120	470,583	43.287	208,844	41,571	176,877	200	149,338	102,719 112,370
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	
1998 June	71,790	59,633	8,463	19,941	3,830	27,399	305	11,852	19,920
July	108,229	84,972	4,972	37,207 28,564	8,791 6,146	34,003 21,969	786	22,471 17,304	23,151 9,845
Aug. Sep.	78,317 85,972	61,014 72,315	4,336 8,961	29,343 29,343	9,629	24,383	20	13,637	1,875
Oct.	76,432	50,026	5,798	22,177	3,830	18,222	130	26,276	2,483
Nov. Dec.	83,731 77,539	59,239 58,540	6,026 3,365	27,668 25,443	2,445 5,496	23,100 24,237	150 500	24,342 18,499	11,986 10,674
500.	Euro million			<u> </u>	Control of the second s	East of the second seco		*	
1999 Jan.	68,192	46,904	3,390	29,019	4,238	10,257		21,288	5,319
Feb.	47,787		2,477	21,003	3,461	13,961	-	6,886	
	of which: De	ebt securities	with a matur	rity of over 4	vears 5				ananonanan
1000	<del> </del>					£ 52.425	1	139 295	29,791
1990 1991	272,642 303,326	133,347 172,171	10,904 11,911	65,642	54,878	52,425 39,741	707	139,295 130,448	22,772
1992	430,479 571,533	211,775	28,594 43,365	99,627 160,055	40,267 26,431	43,286 66,923	230	218,703 274,524	51,939 82,049
1993 1994	429,369	244,806	36,397	109,732	29,168	69,508	306	184,255	53,351
1995	409,469	271,763 322,720	30,454	141,629	28,711	70,972 91,487	200 1,702	137,503 149,139	85,221 92,582
1996 1997	473,560 563,333	322,720 380,470	27,901 41,189	167,811 211,007	35,522 41,053	87,220	1,820	181,047	98,413
1998	694,414	496,444	59,893	288,619	54,385	93,551	2,847	195,122	139,645
1998 June	38,360	1	7,693	17,771	2,790	6,028	ž	3,773	9
July Aug.	77,582 52,573	36,725	4,572 2,745	34,104 23,722	7,146 4,100	9,733 6,158	241	21,786 15,848	9,089
Sep.	53,954	48,574	7,802	25,192	8,256	7,323	20	5,360	1
Oct. Nov.	52,003 58,166	27,040 34 431	3,651 4,701	13,499 22,527	2,967 1,338	6,924 5,866		24,833 23,585	2,418 10,922
Dec.	43,638		2,860	18,185	3,817	8,468	500	9,808	
	Euro million				**************************************		ngeriosiae es o sia con suito e se suito e se suito e se suito e se suito e se suito e se suito e se suito e s	-	
1999 Jan.	53,031		1,657	24,729		3,097 6,170	-	20,306 6,050	5,205 5,754
Feb.	31,501	25,451	1,991	14,266	3,024	1 6,170	-	, 6,030	, J, J4
	Net sales 6								war on the contract of the con
1990	226,707	140,327	- 3,922	_ 72	73,287	71,036		86,449	21,717
1991 1992	227,822 304,751			22,290 58,235		46,390 24,864	558 - 175	87,868 189,142	
1993	403,212	159,982	22,496	122,917	- 13,156	27,721	180	243,049	43,701
1994	270,088	1	1		i	1	1	153,630 32,039	1
1995 1996	205,482 238,427		18,260 11,909	121,929	6,020	55,199	585	42,788	69,951
1997 1998	257,521 327,991		16,471 22,538						
1998 June	22,520		4,323	B .	1	1	i i	§	1
July	61,028	45,809	325	27,155	4,883	13,446	1,745	13,474	
Aug.	26,871 16,306	25,178	1,782 2,520					1,693 - 4,341	
Sep. Oct.	19,244	1	1,121	6,626	1	114	130	12,214	- 6,064
Nov.	38,809	25,347	4,272	14,504		8,050	150	13,312	6,931
Dec.	- 13,235	5 – 2,831	_ 1,632	- 1,2/1	1,770	1,545	1		A
	Euro million	,	4.554	47.725	1 020	1 240	-51	10,500	3,377
1999 Jan. Feb.	31,337 14,850	20,888	1,664 778	17,625 9,434		-1,240 4,414		-1,529	4,444
	,,	,							

<sup>\*</sup> 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 private 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 \*

DM million nominal value, as from 1999 euro million nominal value

		Bank debt securi	ies 1						
End of year or month	Total	All bank debt securities	Mortgage bonds (Hypotheken- pfandbriefe)		Debt securities of specialised credit institutions	Other bank debt securities	Industrial bonds	Public debt securities	Memo item DM debt securities issued by non- residents
	DM million		THE RESERVE OF THE COLUMN TWO COLUMN TO THE COLUMN TWO						
1990 1991 1992 1993 1994	1,458,943 1,686,765 1,991,515 2,394,728 2,664,814	900,977 1,040,374 1,156,162 1,316,142 1,432,661	138,025 142,757 155,862 178,357 196,541	369,901 392,190 450,424 573,341 627,657	155,045 221,031 240,616 227,463 219,214	238,005 284,396 309,259 336,981 389,249	2,604 3,161 2,983 3,163 3,101	555,362 643,230 832,370 1,075,422 1,229,053	223,176 241,760 275,873 319,575 341,210
1995 1996 1997 1998	2,870,295 3,108,724 3,366,245 3,694,234	1,606,459 1,801,517 1,990,041 2,254,668	214,803 226,711 243,183 265,721	723,781 845,710 961,679 1,124,198	222,286 228,306 240,782 259,243	445,589 500,790 544,397 605,507	2,746 3,331 4,891 8,009	1,261,090 1,303,877 1,371,313 1,431,558	402,229 472,180 535,359 619,668
1998 Aug. Sep.	3,633,111 3,649,416	2,204,626 2,225,252	259,439 261,959	1,092,253 1,104,339	260,037 263,461	592,897 595,493	7,209 7,229	1,421,276 1,416,935	616,505 614,496
Oct. Nov. Dec.	3,668,660 3,707,469 3,694,234	2,232,152 2,257,499 2,254,668	263,081 267,353 265,721	1,110,965 1,125,469 1,124,198	262,500 261,019 259,243	595,607 603,658 605,507	7,359 7,509 8,009	1,429,149 1,442,461 1,431,558	608,432 615,363 619,668
	Euro million								
1999 Jan. Feb.	1,920,169 1,935,019	1,173,681 1,190,060	133,635 134,413	592,418 601,85		313,262 317,676	4,044 4,044	742,444 740,915	320,208 324,652
	Breakdown	by remainin	g period to n	naturity 2		Posi	tion at end-f	ebruary 199	9
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	541,916 509,575 388,080 195,761 175,674 23,568 48,064 52,379	372,002 327,167 244,808 118,923 102,719 18,634 2,357 3,450	40,366 36,903 30,203 11,617 14,468 843 9 5	156,450 164,273 141,63 71,90 58,819 8,442 277 56	39,034 22,580 3 11,795 5 14,656 2 3,938 7 582	132,712 86,953 50,397 23,607 14,781 5,411 1,488 2,329	568 1,568 500 838 467 102	169,346 180,841 142,771 76,000 72,488 4,832 45,708 48,929	77,504 66,212 29,867 50,568 16,256 2,515

<sup>\*</sup> 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

DM million nominal value, as from 1999 euro million nominal value

			Change in dome	stic public limited	companies' capita	ll due to	ST PROGRAM SHOWING TO SHOW				
Period	Share capital= circulation at end of period under review	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,	merger and trans of assets	fer	change of legal form	reduction of capita and liqui	1
	DM million										
1990 1991 1992 1993 1994 •	144,686 151,618 160,813 168,005 190,012 211,231 2 216,461 221,575	6,932 9,198 7,190 14,237 21,217 7,131	7,362 3,656 4,295 5,224 6,114 5,893 4,164	751 610 728 772 1,446 1,495 1,355 2,722	3,715 2,416 1,743 387 1,521 1,421 396 370	407 1,073 876 1,883 1,421 1,684		43 182 732 10 447 623 3,056 2,423	1,284 411 3,030 707 5,086 13,739 833	- - - -	1,466 386 942 783 1,367 2,133 2,432 1,678
1998	238,156		6,086	2,566	658		_	4,055	3,905	_	1,188
1998 Aug. Sep.	230,200 233,360	1,359 3,160	550 276	46 323	5 5	205 508	_	501 617	66 2,717	- -	13 51
Oct. Nov. Dec.	233,286 239,147 238,156	- 73 5,860 - 991	479 651 638	274 99 640	51 17 20	21 5,067 362	- - -	894 57 2,526	7 167 – 10	- - -	12 85 114
	Euro million										
1999 Jan. Feb.	122,487 122,876	720 390	805 197	43 42	19 11	5 114	_	162 340	- 257 374	-	57 7

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

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

#### VII. Capital market

#### 5. Yields and indices on German securities

Yields on bor	nds outstanding	issued by res	idents 1				Price indices 2	.,3	e excessivitación sim contributable (15 -140 -	
	Public bonds			Bank debt se	curities			Bonds	Shares	America con sin minostrato martes per
		Listed Federal secu	rities			and or the control of	Memo- randum		A LANGE OF THE PROPERTY OF THE	
Total	With residual maturities of over 9 Total Total to 10 years 4			Total	With re- sidual matur- ities of over 9 to 10 years	Industrial bonds	item DM bonds issued by non- residents 1, 5	German bond index (REX)	CDAX share price index	German share index (DAX)
% p.a.								Average daily rate	End- 1987=100	End- 1987=1000
8.9		8.8	8.7	9.0	8.9	9.0	9.2	93.50		1,398.2
8.7		8.6	8.5	8.9	8.6	8.9 8.7	9.2	96.35 101.54	148.16	1,577.9 1,545.0
8.1 6.4	8.0 6.3	8.0 6.3	7.8 6.5	8.3 6.5	8.1 6.8	6.9	8.8 6.8	101.34	134.92 191.13	
6.7		6.7	6.9	6.8	7.2	7.0	6.9	99.90	176.87	2,106.5
6.5	6.5	6.5	6.9	6.5	7.2	6.9	6.8	109.18	181.47	2,253.8
5.6		5.6	6.2	5.5	6.4	5.8	5.8	110.37	217.47	2,888.6
5.1		5.1	5.6	5.0	5.9	5.2	5.5	111.01	301.47	4,249.6
4.5	4.4	4.4	4.6	4.5	4.9	5.0	5.3	118.18	343.64	5,002.3
4.4	4.3	4.3	4.4	4.4	4.8	5.0	5.3	116.13	334.70	4,833.8
4.1	4.0	4.0	4.1	4.1	4.6	4.8	5.6	117.23	311.18	4,474.5
4.0	4.0	4.0	4.1	4.1	4.5	4.7	5.6	116.72	322.83	4,671.1
4.1		4.0	4.1	4.1	4.6	4.7	5.3	117.57		
3.8	3.7	3.7	3.9	3.8	4.3	4.7	5.1	118.18	343.64	5,002.3
3.6		3.5	3.7	3.6	4.1	4.4	4.9	119.48	354.47	5,159.9
3.7		3.7	3.9	3.7	4.2	4.4	5.0	117.60	341.57	4,911.8
3.8	3.8	3.8	4.0	3.8	4.4	4.5	5.2	118.20	337.39	4,884.2

1 Bearer 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	and certifica	ites			NA ARBO - MARCHEN AND THE CONTRACT OF THE SECTION	Purchases		No. AT THE REAL PARTY AND ADDRESS OF THE PARTY	C. SORGICO OF THE CO.	non-microscopeniologyma (Arrilla	<b>4</b> 000000000000000000000000000000000000
	Domestic 1	funds (sales	receipts)				on the second	Residents					
		Investmen general pu	t funds ope ablic 1	n to the			CONTRACTOR CONTRACTOR	No.	Credit instit including b and loan ass	uilding	Non-banks	. 3	
	of which						nawa (pagganoon	nonination (code	and loan ass	-	Non-Dank		oecoposes su su su su su su su su su su su su su
Sales = total pur- chases	Total	Total	Money market funds	Secur- ities- based funds	Open- end real estate funds	Special- ised invest- ment funds	Foreign funds 4	Total	Total	of which Foreign invest- ment fund cer- tificates	Total	of which Foreign invest- ment fund cer- tificates	Non-resi dents <sup>5</sup>
DM millio	n	Europe - America America America		**************************************		Olive de La Calabata de La Calabata de Cal		000000000000000000000000000000000000000		######################################			
25,788 50,064 81,514 80,259 130,995	26,857 37,492 20,474 61,672 108,914		- - - 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	12,572 61,040 18,587	25,766 49,890 81,518 76,258 125,943	4,296 8,594 10,495 16,982 9,849	- 362 - 5 2,152 2,476 - 689	21,470 41,296 71,023 59,276 116,094	- 707 12,577 58,888 16,111 22,770	2 17 - 4,00 5,05
55,246 83,386 153,879 190,794	79,110 138,945	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	107,445	1,175 4,276 14,934 21,046	56,295 85,704 158,022 193,563	12,172 19,924 35,924 43,937	188 1,685 340 961	44,123 65,780 122,098 149,626	987 2,591 14,594 20,085	- 1,04 - 2,31 - 4,14 - 2,76
17,151 9,642	15,991 9,005	3,838 73	1,266 - 192	2,491 281	81 - 16	12,153 8,932	1,160 637	16,771 11,011	4,074 2,796	- 15 - 301	12,697 8,215	1,175 938	38 - 1,36
10,224 12,832 27,099	10,889	744 5,781 1,679	847 20 – 391	- 771 4,919 1,464	317 594 483	7,742 5,109 26,340		15,862	2,904 1,881 8,390	166 - 169 2,031	7,269 13,981 17,145	1,572 2,112 – 2,951	- 3,03 1,56
Euro milli	on						Name (1977)	agerom to transmission research of the			-grant-u	<b>***</b> *********************************	Shannon tarana mayayar
14,757 9.924	14,020 8.782		1,447 673	3,162 2.894	1,870 954	7,497 4,185	737 1,142	13,468 9,516		– 727 693	13,031 7,289	1,464 449	1,28 40

1 From October 1998 including pension investment mutual funds (Altersvorsorgefonds). — 2 Book values. — 3 Residual. — 4 Net purchases or net sales (–) of foreign investment fund certificates by residents; transaction values. — 5 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.

1996 1997 1998 1998 Aug. Sep. Oct. Nov. Dec.

Period

1990
1991
1992
1993
1994
1995
1996
1997
1998
1998 Aug.
Sep.
Oct.
Nov.
Dec.
1999 Jan.
Feb.
Mar.

1999 Jan. Feb.

# VIII. Public finance in Germany

1. Finances of the public sector \*

#### DM billion

	Central, re	gional an	d local aut	local authorities 1							Social sec	urity funds	2	Public sec	tor, total	
	Receipts		Expenditu	ire												
				of which												
Period	Total	of which Taxes <sup>3</sup>	Total 4	Person- nel ex- pend- iture	1	Current grants	Interest paid	Capital forma- tion	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
1987 1988 1989	602.0 620.3 678.6	468.7 488.1 535.5	653.0 673.6 700.8	211.1 216.5 222.8	103.4 105.0 110.5	182.4 192.6 202.6	58.6 60.4 61.2	57.2 58.2 62.2	39.9 40.4 41.1	- 51.0 - 53.3 - 22.2	374.2 393.3 413.7	370.7 394.8 400.5	+ 3.5 - 1.5 + 13.2	933.7 966.9 1,042.8	981.3 1,021.7 1,051.8	
1990 1991 7 1992 1993 1994	703.1 849.5 957.9 987.6 1,057.0	549.7 661.9 731.7 749.1 786.2	749.4 971.3 1,068.3 1,119.6 1,163.2	236.1 294.7 324.5 339.2 358.8	118.5 143.5 153.5 156.9 159.1	214.9 294.0 299.8 334.8 346.5	64.7 77.3 100.9 102.3 114.2	66.7 90.6 107.5 103.5 99.7	47.9 71.3 81.4 82.4 82.2	- 46.3 - 121.8 - 110.4 - 132.0 - 106.1	442.7 562.8 621.0 673.0 706.2	426.5 549.6 628.8 670.2 705.4	+ 16.2 + 13.1 - 7.9 + 2.8 + 0.9	1,094.3 1,342.6 1,501.6 1,563.1 1,670.2	1,124.4 1,451.3 1,619.9 1,692.3 1,775.5	- 30.1 - 108.7 - 118.3 - 129.2 - 105.2
1995 p 1996 pe 1997 pe	1,090.8 1,065.5 1,080.5	814.2 800.0 797.2	1,201.1 1,188.3 1,177.5	370.3 372.2 372.5	158.4 159.7 159.5	360.7 355.6 348.0	129.1 130.9 132.5	96.9 91.5 87.5	82.0 76.0 73.0	- 110.3 - 122.8 - 97.0	744.1 784.0 810.5	754.7 795.5 806.0	- 10.6 - 11.5 + 4.5	1,740.7 1,744.0 1,784.5	1,861.6 1,878.5 1,875.5	- 120.8 - 134.5 - 91.0
1997 1st qtr 2nd qtr 3rd qtr 4th qtr	229.9 238.7 246.3 293.6	187.1 187.4 192.8 230.1	262.0 255.6 267.9 315.8	75.0 74.8 77.2 94.9	30.9 31.6 32.3 40.2	93.0 89.9 88.4 85.6	37.5 27.9 33.0 33.1	11.9 15.9 19.6 29.3	15.1 14.0 17.7 31.0	- 32.1 - 16.9 - 21.5 - 22.2	197.1 200.8 199.3 214.0	199.5 201.1 200.0 205.5	- 2.3 - 0.3 - 0.7 + 8.4	397.7 410.0 420.7 485.2	432.0 427.2 443.0 499.0	- 17.2 - 22.2
1998 1st qtr 2nd qtr 3rd qtr	241.0 263.5 250.8	188.3 199.1 204.6	271.4 255.6 273.4	74.0 75.6 77.2	31.2 30.2 32.3	99.6 92.3 91.2	41.0 24.9 34.4	11.9 15.9 19.7	14.6 15.3 18.6		199.3 203.2 204.5	199.0 205.9 203.4		408.0 435.3 425.8	438.1 430.0 447.3	

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, hospitals keeping commercial accounts 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 From 1991 including public authorities in eastern Germany.

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

#### DM billion

	Federal Govern	ment	Länder Govern	ments			Local authorities				
			Western 2, 3		Eastern 3		Western 3	***************************************	Eastern 3		
Period	Receipts 1	Expenditure	Receipts	Expenditure	Receipts	Expenditure	Receipts	Expenditure	Receipts	Expenditure	
1987	243.6	271.5	244.4	263.9			176.7	179.2			
1988	242.2	278.2	253.7	270.1			185.1	184.4			
1989	277.9	292.9	275.1	282.7			196.0	194.3			
1990	290.5	311.4	280.2	299.6			205.8	209.9			
1991	354.1	406.1	312.5	330.8	67.4	77.9	222.9	228.9	50.2	48.2	
1992	398.4	431.7	334.9	353.0	75.2	88.2	241.4	250.8	57.4	64.9	
1993	401.6	462.5	342.7	369.0	79.4	95.5	252.7	261.6	63.1	67.5	
1994	439.6	478.9	347.6	375.6	82.4	99.1	260.9	266.8	63.1	67.8	
1995	439.3	489.9	357.8	389.8	91.8	104.9	258.3	270.6	68.5	70.4	
1996	411.9	490.4	364.4	399.8	96.9	108.7	259.8	265.9	65.2	67.9	
1997 pe	415.5	479.0	372.0	398.5	97.5	107.5	255.5	262.5	62.0	63.5	
1998 pe	438.5	495.0									
1997 1st qtr	86.8	116.5	80.3	87.5	23.3	21.3	49.5	53.0	10.9	11.2	
2nd qtr	101.6	114.7	79.6	87.1	21.0	22.6	53.3	53.2	12.4	12.5	
3rd qtr	98.6	115.0	87.3	90.3	22.9	25.1	54.1	55.6	12.8	13.0	
4th qtr	128.7	132.9	100.4	110.2	26.9	34.7	65.2	64.7	15.7	16.8	
1998 1st qtr	92.8	118.7	83.4	89.0	21.2	20.7	49.2	52.6	10.4	11.0	
2nd qtr	104.5	119.3	85.5	87.2	22.0	25.3	55.3	52.5	11.8	12.1	
3rd qtr	101.5	121.8	87.1	91.5	24.2	25.3	57.8	54.9	13.0	12.8	
4th qtr P	139.5	135.2	102.9	111.8	28.3	33.4					

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. From 1991 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 hospitals keeping commercial accounts and various special accounts.

# VIII. Public finance in Germany

#### 3. Finances of the Government in the national accounts

DA4	h :1	1:

DM billion	angermannen en same		ptn ommersor or	Total Control of the			T		gaannegaan maarin tari	, miser	
Item	1990		1991 1	1991 2	1992	1993	1994	1995 <b>3</b> , p	1996 р	1997 p	1998 р
Receipts	10	068.4	1 197.7	1 300.4	1 438.0	1 488.2	1 580.8	1 631.2	1 646.8	1 674.7	1 724.3
of which				APPATER.			##COMPO		E-SE		antaes (Cristori
Taxes	9	573.2	653.3	689.2	754.7	772.9	811.5	838.8	819.2	822.4	861.6
Social security contributions		410.5	450.3	513.0	562.9	596.4	642.6	672.7	706.4	730.1	736.9
Expenditure	11	118.1	1 287.4	1 395.0	1 525.2	1 600.0	1 668.0	1 751.6	1 771.6	1 776.2	1 803.2
Government consumption		144.1	466.5	556.7	616.4	634.9	658.6	686.6	705.1	703.4	710.1
Interest		63.4	74.5	76.7	100.4	104.2	112.2	131.1	131.8	135.9	134.5
Current transfers	-	521.7	620.3	621.7	665.3	720.6	765.0	801.3	812.5	821.9	836.8
Capital transfers		33.3	66.2	64.9	55.9	53.5	45.9	50.1	45.4	45.5	54.1
Gross capital formation		55.5	59.9	75.0	87.2	86.8	86.4	82.5	76.8	69.5	67.7
Financial balance	-	49.7	- 89.7	- 94.7	- 87.2	- 111.8	- 87.3	- 120.4	- 124.8	- 101.5	- 78.9
as a percentage of the gross				THE STATE OF THE S	namental de la constante de la		***				
domestic product	-	2.1	- 3.4	- 3.3	- 2.8	- 3.5	- 2.6	- 3.5	- 3.5	- 2.8	- 2.1
Memo item	ACCESS OF THE PARTY OF THE PART			AMARIA COCI MILI DELL'ANNO COCI MILI DELL'ANNO COCI MILI DELL'ANNO COCI MILI DELL'ANNO COCI MILI DELL'ANNO COCI	m de manuel ( , de c) de de la constante de la			Cypendializacion	And the state of t		44444
Deficit of the Treuhand agency	-	4.3	- 19.9	- 19.9	- 29.6	- 38.1	- 37.1				10000000000000000000000000000000000000
Items as defined in Maastricht	***************************************			**************************************	uniter (security security		control de la co	Service Concession (Service)		And the second s	
Treaty					nan danungan			s de la companya de l			000000000000000000000000000000000000000
as a percentage of the gross					an and an addition of			LONG-MICH.	Errande Own Date		100
domestic product 4				7 March 1971	Market Control			Transferondo	T000-000		110000000000000000000000000000000000000
Financial balance				- 3.1	- 2.6	- 3.2	- 2.4	- 3.3	- 3.4	- 2.7	- 2.0
Debt				41.4	44.0	48.0	50.2	58.3	60.8	61.5	61.1

Source: Federal Statistical Office. — 1 Western Germany. — 2 Germany as a whole. — 3 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 10.1% of GDP. — 4 The financial balance shown here deviates

from the figures shown above, mainly because of the transfer of hospitals from one sector to another; owing to some conversions, indebtedness deviates from the debt level shown in tables VIII. 7 and VIII. 8. Level according to the figures of the national accounts of March 1999.

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

Period	
1997 6 1998	
1998 4th qtr 1998 Nov. Dec.	
1999 Jan. Feb.	

1999 Jan. Feb.

And the second s	Federal and Lände	er Governments an	d European Union			Local authoritie	ς 4	Programment of the second	
			Länder Governme	nts		The state of the s	<b>6</b> 1.1.6	D-1	_ (
Total	Total 1	Federal Government <sup>2</sup>	Total	of which New Länder	European Union <sup>3</sup>	Total	of which in the New Länder	Balance of untransfortax share	erred
DM million				-glasbook.Xiiphaniitiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii			egico comunica se veneralmento provincia e contrata de la composició de la contrata de la contrata de la contra	para-week-ressure-ress	a.e. «ман» «паре» «
797,154	700,739 727,887	368,244 379,499	1	and the second s	41,724 42,271	96,531	7,703	_ +	117 291
	214,584	118,100	87,315		9,170			_	7,412
	50,904 111,564	1		I .	3,673 1,818	l .	COCRAPTION AND AND AND AND AND AND AND AND AND AN	Company of the compan	
	55,648 50,549	1	1	3	7,648 2,983	ł .			
Euro million									CLAN-ANDERS > - NO.
	28,452 25,845			i .	3,910 1,525		e-calciana de calciana tered and the second		

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. — 6 From 1991 including the tax revenue in the new Länder.

#### VIII. Public finance in Germany

#### 5. Tax revenue, by type

		Joint taxes												Memo
		Income taxe	<sub>S</sub> 2				Turnover ta	1xes 5, 6						item Local
Period	Total 1	Total	Wage tax 3	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, 9	Länder taxes 8	EU customs duties <sup>9</sup>	author- ities' share in income taxes 10
	Old Länd	<u>er</u>												
	DM million						ordets a reservation control of the tendence and calculation a			*******				
1997 1998		319,461 346,038	250,231 260,191	11,079 16,837	32,719 35,113	25,432 33,897	223,127 231,588	183,251 186,317	39,875 45,270	8,710 10,226		29,859 32,457		3,919,644 4,155,413
1998 4th qtr		103,677	77,186	9,304	11,635	5,551	60,504	48,488	12,016	4,963		7,432		1,297,358
1998 Nov. Dec.	· ·	18,761 65,536	19,442 38,350	- 1,645 12,438	- 520 12,555	1,483 2,194	21,010 20,171	17,077 15,950	3,933 4,222	679 2,446		2,386 2,496		266,958 761,816
1999 Jan. Feb.		30,885 18,822	23,706 19,483	25 - 2,298	342 - 54	6,813 1,692	20,935 22,220	17,591 19,070	3,344 3,149	10 139		2,824 2,759		355,956 257,768
	Euro million	<u>*************************************</u>	Anna ann ann an Anna ann an Anna ann an Anna ann an Anna ann an Anna ann an Anna ann an Anna ann an Anna ann a		***************************************	Barracous en extracerentes en entra	THE PERSON NAMED OF THE PERSON NAMED OF	3	\$		L	A		
1999 Jan. Feb.	Germany	15,791 9,624 as a whol		13 1,175	175 – 28	3,483 865	10,704 11,361	8,994 9,750	1,710 1,610	5 71		1,444 1,411		181,997 131,794
				NACES AND DESCRIPTION OF THE PARTY AND DESCRI		Washington to the desired of the second				***************************************				
	DM million	1	and the second second second			***************************************		T		r		r		
1997 1998	740,272 775,027	313,794 340,231	248,672 258,276	5,764 11,116	33,267 36,200	26,092 34,640	240,900 250,214	199,934 203,684	40,966 46,530	8,732 10,283	135,264 130,513	34,682 37,300	6,900 6,486	39,533 47,140
1998 4th qtr	229,272	104,317	78,043	8,540	12,024	5,709	65,652	53,292	12,361	5,000	44,013	8,614	1,677	14,688
1998 Nov. Dec.	54,044 120,029	18,034 67,752	19,200 39,729	- 2,144 12,763	- 541 13,017	1,519 2,243	22,853 21,866	18,786 17,532	4,067 4,334	685 2,473	9,178 24,431	2,746 2,932	548 576	3,140 8,466
1999 Jan. Feb.	59,802 53,424	29,317 16,607	22,325 17,637	- 371 - 2,688	322 - 65	7,042 1,722	22,543 24,337	19,131 21,124	3,412 3,213	14 139	3,563 8,806	3,270 3,135	1,095 401	4,153 2,876
	Euro million	But the second s	the entire military or an enterprise constructive and an enterprise of	Terresconde en commune de servición de entresent		Accession and the second	Nation 1990 1990 1990 1990 1990 1990 1990 199	4		<del></del>		**************************************	ter carrierania e incarania	
1999 Jan. Feb.	30,576 27,315 Source: Feder		11,414 9,018 Finance			3,600 880 at in Table	11,526 12,443 VIII Lär		1,744 1,643 ments. Fro				560 205 5.63% v	

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 which, in part, is shown only for the whole of Germany. — 4 From February 1993 including revenue from the tax on interest income, in which the local authorities have a share of 12%. — 5 The Federal Government's share: 63% in both 1993 and 1994, 56% in 1995, 50.5% in both 1996 and 1997;the remainder went to the

Länder Governments. 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. 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 Receipts from Federal taxes and from customs duties accruing to the EU are only recorded for the whole of Germany. — 10 From 1998 including the share in turnover taxes.

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

	Federal tax	es					Länder taxe	:5				Local autho	rity taxes	
Period	Mineral oil tax	Tobacco tax	Spirits tax		Other capital trans- action taxes 1	Other Federal taxes 2	Motor vehicle tax	Property tax	Inherit- ance tax	Beer tax	Other Länder taxes	Trade tax 3	Taxes on land and buildings	Other local taxes 4
	DM million													
1997 1998	66,008 66,677	21,155 21,652	4,662 4,426	14,127 13,951	_ _	29,312 23,807	14,418 15,171	1,757 1,063	4,061 4,810	1,698 1,662	12,749 14,594	48,601	15,503 16,237	1,509 1,529
1998 4th qtr	25,753	7,594	1,635	2,141	-	6,890	3,008	253	1,275	375	3,703		3,551	340
1998 Nov. Dec.	5,682 14,744	1,014 3,841	255 996	916 609	<u>-</u>	1,311 4,241	986 961	78 87	407 458	122 121	1,153 1,305			
1999 Jan. Feb.	245 2,036	513 914	110 52	774 4,511	<u>-</u>	1,921 1,293	1,365 1,034	96 64	409 458	147 107	1,253 1,472			
	Euro millior	ו												
1999 Jan. Feb.	125 1,041 Source: Fed	262 467		396 2,306		982 661			209 234		641 753			

Source: Federal Ministry of Finance. — 1 Revenue from the capital transfer taxes (levied until the end of 1990 and 1991, respectively). — 2 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. — 3 On returns and capital. — 4 Including tax-like receipts. — 5 From the beginning of 1991 including tax receipts in the new Länder.

# VIII. Public finance in Germany

# 7. Indebtedness of the public sector \*

DM	million	

	DM million			-		po:			-	COS MANO IZANCIMANTI III PROPRIO PRANCESCO			
								Direct	Loans from	non-banks	Old debt		
End of year or month	Total	Bundes- bank advances	Treasury discount paper	Treasury notes 1	5–year special Federal bonds 1	Federal savings bonds	Debt secur- ities 1	lending by credit institu- tions 2	Social security funds	Other <sup>2</sup>	owing to German unifica- tion <sup>3</sup>	Equalisa- tion claims	Other 4
	Public au	ıthorities											CONTROLOGICAL
1992 1993 1994 1995 1996 1997 Sep. Dec. 1998 Mar. June Sep.	1,345,224 1,509,150 1,662,150 1,995,974 2,129,344 2,197,848 2,219,163 2,249,630 2,252,436 2,269,989		36,186 30,589 20,506 8,072 27,609 24,923 26,336 25,631 25,721 24,885	109,733 150,138 169,181 219,864 217,668 234,556 241,268 239,755 245,081 233,880	153,825 188,767 181,737 170,719 176,164 187,862 177,721 172,919 181,627 189,693	35,415 46,093 59,334 78,456 96,391 99,633 99,317 97,182 97,547 96,664	362,230 402,073 465,408 607,224 631,696 655,378 670,755 692,381 690,601 705,134	539,235 578,352 646,855 767,253 839,501 872,500 882,190 902,120 893,744 905,857	6,076 5,329 4,971 4,168 3,935 3,715 3,512 3,475	18,132 19,267 25,127 37,033 36,157 29,483 26,956 25,218 23,672 21,546	1,391 1,360 1,330 1,337 1,315 1,268 1,283	77,269 86,181 87,098 87,079 89,826 88,062 89,376 89,427 89,471 87,409	188 196 184 198 203 216 216 218 214 205
	Federal (	Governme	ent <sup>5</sup>										K SANGEY GENERAL THE SANGEY GENE
1993 1994 1995 1996 1997 Sep. Dec. 1998 Mar. June Sep. Dec.	685,283 712,488 756,834 839,883 902,329 905,691 932,277 946,364 964,454 957,983		23,276 15,870 8,072 26,789 24,573 25,286 25,021 24,986 24,685 24,666	60,565 66,987 52,354 55,289 73,556 78,848 85,443 95,495 91,104 84,760	188,767 181,737 170,719 176,164 187,862 177,721 172,419 181,127 189,193 199,274	46,093 59,334 78,456 96,391 99,633 99,317 97,182 97,547 96,664 92,698	325,201 359,833 402,307 434,295 465,014 481,619 500,252 501,046 508,272 519,718	26,129 16,654 26,572 32,988 39,012 31,845 41,435 33,053 41,185 24,125	63 23 10 10 10 10 10 10	3,211 862 8,111 7,761 2,468 865 340 2,928 3,188 2,603		9,698 9,576 8,684 8,684 8,684 8,684 8,684 8,684 8,684 8,684	194 183 176 183 197 197 201 197 189 186
	West Ge	rman Län	der Gove	rnments									
1993 1994 1995 1996 1997 Sep. Dec. 1998 Mar. June Sep. Dec. P	393,577 415,052 442,536 477,361 493,144 505,297 510,857 514,028 516,586 525,598		- 320 150 350 - - 520	62,585 68,643 72,001 80,036 78,048 79,901 81,427 80,259 79,242			22,450 20,451 19,151 11,934 7,059 6,739 5,304 4,208 4,130 4,489	293,845 311,622 339,084 372,449 395,871 406,499 415,098 417,764 422,974 431,559	1,632 1,333 874 716 705 575 539 526	10,399 10,444 10,965 11,747 11,298 11,102 10,976 10,088 8,697 9,376		2,563 2,259 - - - - - - -	2 2 2 2 2 2 2 2 2
	East Ger	man Länd	ler Gove	nments									
1993 1994 1995 1996 1997 Sep. Dec. 1998 Mar. June Sep. Dec. P	40,263 55,650 69,151 80,985 84,324 90,174 90,372 92,573 94,555 98,192		500 200 700 610 735 200 445	18,115 19,350 23,845 25,320 26,013 26,040 24,925 25,695 27,160 25,778			1,000 1,000 1,500 1,500 1,500 1,500 1,500 1,500 1,500	21,003 35,065 43,328 53,483 56,384 61,697 63,100 64,406 65,468 70,242	5 17 - 15 15 15 15	212	TO CONTRACT THE THE THE THE THE THE THE THE THE TH	The contract outcomes are not to the contract outcomes and the contract outcomes are not to the contract outcomes and the contract outcomes are not to the contract outcomes and the contract outcomes are not to the contract outcomes and the contract outcomes are not to the contract outcomes and the contract outcomes are not to the contract outcomes and the contract outcomes are not to the contract outcomes and the contract outcomes are not to the contract outcomes and the contract outcomes are not to the contract outcomes a	
	West Ge	rman loca	al author	ities <sup>6</sup>									accus per measurement
1992 1993 1994 1995 1996 1997 Sep. Dec. 1998 Mar. June Sep.	140,132 149,211 155,663 159,575 161,395 161,100 163,141 163,200 162,600 161,700			200 300 300 300 300 300		TOTAL DE LA CANADA DEL CANADA DE LA CANADA DEL CANADA DE LA CANADA DEL	150 100 1,000 1,280 1,330 1,330 1,330 1,330	143,940 149,745 153,323 154,989 154,570 157,024 157,120 156,520	3,264 3,186 3,006 2,746 2,720 2,537 2,500 2,500	2,007 2,632 2,246 2,180 2,180 1,950 1,950			
	+	man loca	l authori	ties <sup>6</sup>	к	×	£	1 ****	h ====	,	ı ê	8	ELL CONTRACTOR OF THE PROPERTY
1992 1993 1994 1995 1996 1997 Sep. Dec. 1998 Mar. June Sep.	14,462 23,648 32,465 37,024 39,218 40,050 38,979 39,000 39,100			125 225 225 225 225 225 225 225 225			300 400 400 400 400 400 400 400 400 400	31,046 35,609 38,163 39,025 37,913 37,955 38,055	339 371 349 309 300 274 5 250 250	282 523 441 121 100 167 170 170		(Меррия) и дельными на нализивания принципальными на нализивания принципальными на нализивания на на на на на на на на на на на на на	

For footnotes see end of the table.

# VIII. Public finance in Germany

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

D.	۱л	m	ίH	ior

	PHILIPPIN TO THE PROPERTY OF T	-	THE PARTY OF THE P	-									
							-		Loans from	non-banks	Old debt		
End of year or month	Total	Bundes- bank advances	Treasury discount paper	Treasury notes 1	5-year special Federal bonds 1	Federal savings bonds	Debt secur- ities 1	Direct lending by credit institu- tions <sup>2</sup>	Social security funds	Other <sup>2</sup>	owing to German unifica- tion <sup>3</sup>	Equalisa- tion claims	Other 4
	Federal F	Railways	Fund <sup>5</sup>			***************************************		ikaan massaan massaan massaan massaan massaan massaan massaan massaan massaan massaan massaan massaan massaan					
1994 1995 1996	71,173 78,400 77,785			5,208 3,848 1,882			29,467 28,992 28,749	29,232 39,005 41,537	65 140 130	7,200 6,415 5,489			Annual de constitución de cons
1997 Sep. Dec.	78,078 77,254			1,860 1,927	_ _		26,825 25,634	44,432 44,807	116 115	4,845 4,772			
1998 Mar. June Sep. Dec.	77,445 76,391 78,276 77,247		AND THE PROPERTY OF THE PROPER	1,874 - -	500 500 500 500		26,427 26,468 28,105 31,648	44,440 45,771 46,549	103 102 86 79	4,101 3,550 3,037 2,532			
	"German		und <sup>5</sup>	,	, 300		, 31,040	42,400	, ,,,	2,332			
1993 1994 1995 1996	87,676 89,187 87,146 83,547		1,876 897 - -	8,873 8,867 8,891	-		43,804 43,859 44,398 44,312	31,566 33,744 31,925 38,020	5 5 5	1,552 1,816 1,927 1,210			
1997 Sep. Dec.	81,333 79,663			- -			44,293 44,293	36,390 34,720	5 5	645 645			
1998 Mar. June Sep. Dec.	79,530 79,323 79,475 79,270	-		- - - -			48,135 47,988 48,240 47,855	30,755 30,705 30,625 30,975	5 5 5	635 625 605 440			
	ERP Spec	ial Fund	5				,		,				· .]
1993 1994 1995 1996	28,263 28,043 34,200 34,135						9,318 10,298 10,745 10,750	18,945 17,745 23,455 23,385		- - -			
1997 Sep. Dec.	33,491 33,650		,				10,746 10,810	22,745 22,840	and the second	- -			
1998 Mar. June Sep. Dec.	34,720 34,660 34,696 34,159						10,810 10,700 11,921 11,944	23,910 23,960 22,775 20,988	**************************************	- - - 1,227			
	Debt-Pro	cessing F	und / Rec	lemption	Fund for	Inherite	d Liabilit	ies <sup>5</sup>					
1993 1994	101,230 102,428		5,437 3,740				-	20,197 22,003	- 2	1,676 1,420		73,921 75,263	
1995 1996	328,888 331,918		- -	58,699 54,718			98,731 98,468	72,732 81,380	98 95	6,468 7,468	13,745 8,630	78,395 81,142	21 19
1997 Sep. Dec.	320,773 322,032		_ _	54,554 54,028			98,170 98,377	80,851 81,616	54 54	7,735 7,233	15 15	79,378 80,692	17 17
1998 Mar. June Sep. Dec.	318,915 303,976 297,370 304,978		- - -	48,085 41,939 34,833 31,633			98,150 96,874 101,120 110,006	85,066 80,176 78,946 79,226	54 54 54 54	6,825 4,140 3,689 4,167	–24 –9 –11 –20	80,743 80,788 78,726 79,899	16 15 14 15
	"Use of H	lard Coal	"Equalisa		d / Inden	nificatio		,		,,,,,,		,5,033 (	
1995 1996	2,220 3,117				4			2,220 3,108	-	-			
1997 Sep. Dec.	3,261 3,283		WANTED AND AND AND AND AND AND AND AND AND AN					3,221 3,229	-	—			
1998 Mar. June Sep. Dec.	3,314 3,420 3,577 4,114		GERRACHAMANA AND AND AND AND AND AND AND AND AND	SOURCE CONTRACTOR CONT		• •	443	3,241 3,334 3,460 3,671	- - - -				

Source: Bundesbank calculations based on data from the Federal Statistical Office. — \* Excluding public authorities' mutual indebtedness. — 1 Excluding paper in the issuers' portfolios. — 2 Mainly loans against borrowers' notes. Including loans raised abroad. Other loans from non-banks, including liabilities arising from the investment assistance levy. — 3 Old liabilities arising from residential construction and liabilities arising from residential construction and from residential construction in connection with the return of the troops of

the former USSR in eastern Germany to their home country. — 4 Old debt mainly expressed in foreign currency, in accordance with the London Debts agreement; excluding debt securities in own portfolios. — 5 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. — 6 Data other than end-of-year figures have been estimated. Including indebtedness of municipal special-purpose associations and municipal hospitals.

#### VIII. Public finance in Germany

#### 8. Changes in public sector indebtedness \*

DM million			00000000000000000000000000000000000000			#0017****/Po		~-110E0001	The second second	<b></b>	enforcements conserve powers o			eriess all PSS	pgyrenn i den groupe, (MSA)	U-1000	
				Ne	t borrowi	ing	1	INMEN-WHISCOOL	president company in the last			9.00 <b>***</b> ************		Of Electricians	H1. 44 TIAN 4005 (200-4010)		M HII 560 AM MARKET 30
	Level at end	of		199	97	m-1000-04/0000	g/j)-6//6/je-ng-i040-k-i02000	ga	ner men eren in its militar	propression		199	8	21 pr +100 3/8-	soalesseer	MH-0023074	
Item	1996	1997	Sep. 1998	Tot	al	1st-	3rd qtr	1st	half	3rd	qtr	1st-	3rd qtr	1st	half	3rd	qtr
Borrowers																	000000000000000000000000000000000000000
Federal Government	839,883	905,691	964,454	1	65,808	+	62,446	+		+	. 1				40,673		
"German Unity" Fund ERP Special Fund Federal Railways Fund Inherited Liabilities Fund "Use of Hard Coal" Equal-	83,547 34,135 77,785 331,918	79,663 33,650 77,254 322,032	79,475 34,696 78,276 297,370	  -	3,884 485 531 11,037	- + -	2,214 644 293 11,430	- - + -	1,677 500 277 11,028	- + -	537 144 16 402	+ + -	188 1,047 1,022 24,753	+ -	340 1,010 863 18,094	+ + + -	152 36 1,885 6,660
isation Fund Indemnification Fund	3,108 9	3,229 54	3,460 117		121 45	+	113 31	+ +	64 20	+	49 11	+	231 63	++	105 33	+	126 30
West German Länder Governments East German Länder Governments West German local authorities <sup>2</sup> East German local authorities <sup>2</sup>	477,361 80,985 161,395 39,218	505,297 90,174 163,141 38,979	516,586 94,555 161,700 39,300	++	27,936 9,189 6,129 2,477	+ + + +	15,783 3,339 3,420 832	+ + + +	14,177 239 2,470 482	+ + + +	1,605 3,100 950 350	+ + - +	11,289 4,382 185 321	+ + + +	8,731 2,400 715 121	+ + - +	2,558 1,982 900 200
Total	2,129,344	2,219,163	2,269,989	+	95,769	+	71,970	+	51,860	+	20,110	+	51,991	+	34,491	+	17,500
Types of debt																	
Treasury discount paper <sup>3</sup> Treasury notes <sup>4</sup> Five-year special Federal bonds <sup>4</sup> Federal savings bonds Debt securities <sup>4</sup>	27,609 217,668 176,164 96,391 631,696	26,336 241,268 177,721 99,317 670,755	24,885 233,880 189,693 96,664 705,134	+++	1,557	+ + +	2,686 16,887 11,697 3,242 23,682	+ + +		+	1,852 6,077 7,579 242 696	- + - +	2,654		614 3,813 3,906 1,770 19,846	- + -	837 11,201 8,067 883 14,533
Direct lending by credit institutions 5 Loans from social security funds Other loans 5	839,501 4,168 36,078	882,190 3,715 26,877	905,857 3,435 21,467	-	454 9,201	+ - -	36,714 233 6,674	<del>-</del>	9,147 162 5,626	+	27,567 71 1,047	+ - -	280 5,409	+ -	240 3,283	+	12,113 40 2,126
Old debt 6 Equalisation claims Investment assistance levy	10,163 89,826 79	1,531 89,376 79	1,485 87,409 79	1 -	8,633 1,600 0	- - -	8,611 2,049 0		8,622 10 0	+	12 2,059 0	-	45 2,058 0	- + +	34 57 0		12 2,115 0
Total	2,129,344	2,219,163	2,269,989	+	95,769	+	71,970	+	51,860	+	20,110	+	51,991	+	34,491	+	17,500
 Creditors																	
Banking system												ĸ		4		4	
Bundesbank Credit institutions	8,684 1,133,500		8,684 1,213,200	+	43,900	+	58,300	+	31,600	+	26,700	+	42,000	+	52,500	-	10,500
Domestic non-banks				- Constitution			200	e de la composition della composition della comp	200	STATISTICAL STATISTICS OF STATIST OF STATIST OF STATIST OF STATIST OF ST	400		200		200		100
Social security funds 7 Other 8	4,200 358,660	329,380	3,400 289,706	-		-	,	-		-	100 22,790	-	•	-		-	100 17,000
Foreign creditors Pe	624,300	705,000	755,000	4		<u></u>	52,900	-þannar	36,600		16,300	+	Chiefard Linconnector	\$	4,900		45,100
Total	2,129,344	2,219,163	2,269,989	+	95,769	+	71,970	+	51,860	+	20,110	+	51,991	+	34,491	+	17,500

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 Data other than end-of-year figures have been estimated. Including indebtedness of municipal special-purpose associations and municipal hospitals. — 3 Excluding mobilisation and liquidity paper. — 4 Excluding paper in the issuers' portfolios. — 5 Including loans raised abroad. — 6 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. — 7 Excluding public bonds acquired by supplementary pension funds for government employees. — 8 Ascertained as a difference.

# 9. Loans raised by public authorities against borrowers' notes

DM million

End of year or month

1994
1995
1996

1997
Sep.
Dec.
1998
Mar.
June
Sep.

Total 1	Federal Govern- ment 2	"German Unity" Fund	Debt-Pro- cessing Fund	ERP Special Fund	Länder Govern- ments 3	Local authorities 3, 4, 5	Federal Railways Fund	Inherited Liabilites Fund	"Use of Hard Coal" Equal- isation Fund
661,675 790,631 853,533	31,807		· -	17,745 23,455 23,385	387,309	187,125			
872,036 885,840				22,745 22,840			49,393 49,694		
895,614 893,250 895,378	23,669	31,335	-	23,910 23,910 22,775	489,191	188,635 188,019 188,372		84,369	3,334

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 From 1991, in the whole of Germany. — 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

Treasury Indebtedness discount paper 1 to non-banks Direct of which Debt lending Bundes-Social security funds 5 Federal by credit institu-Treasury special Federal secur-End of year bank advances Total financing Treasury savings ities Other or month Total paper paper 2 bonds 2 bonds tions 4 DM million 22,904 14,578 7,681 7,166 5,221 4,558 1993 <sup>9</sup> 1994 1995 1996 1997 685,283 712,488 756,834 839,883 905,691 957,983 23,276 15,870 8,072 26,789 25,286 24,666 60,565 66,987 52,354 55,289 78,848 84,760 188,767 181,737 170,719 176,164 177,721 199,274 46,093 59,334 78,456 96,391 99,317 325,201 359,833 402,307 434,295 481,619 519,718 26,129 16,654 26,572 32,988 31,845 730 63 23 10 1998 92,698 24,125 1998 Mar. 932,277 25,021 5,124 85,443 172,419 97,182 500,252 41,435 10 25,058 25,003 24,986 942,079 936,754 4,899 4.844 Apr. May 86,985 87,724 174,121 180,295 181,127 97,535 97,700 97,547 504,502 501,520 501,046 40,849 30,596 33,053 10 10 10 June 946,364 4,827 95,495 956,484 958.085 24,735 24,751 24,685 95,743 92,826 91,104 4,737 4.754 182,024 187,432 189,193 96,973 96,505 96,664 July 503,829 505,240 40,129 10 505,240 508,272 41,185 Sep 964,454 4,688 975,098 977,714 24,759 24,727 24,666 4,652 4,620 4,558 Oct. Nov. 96,001 93,898 92,698 92,525 187,787 521,638 39.508 93,495 84,760 36,398 24,125 Dec. 957,983 Euro million 503,655 505,807 506,319 2,197 2,094 2,019 44,077 42,990 41,245 103,276 105,561 106,040 1999 Jan. 12,254 12,151 12,077 46,678 45,438 45,425 274,373 273,077 277,684 16,581 20,175 17,438 Feb. p Mar. p

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 In 1980 the Federal Government took over the debts of the Equalisation of Burdens Fund. Since then they have been recorded among the Federal Government's figures together with the Federal debt proper.

Old debt

owing to

Equal-

isation

claims

9,698 9,576 8,684 8,684

8,684

8.684

8,684

8,684 8,684

8,684 8,684 8,684

8,684 8,684 8,684

4,440 4,440 4,440 Other 8

183 197 186

201

197 195 197

195 195 189

185

187 186

> 96 96 96

German unifica-

> 1,421 1,391 1,360 1,330

> 1,300 1,270

1,292

1,292 1,292 1,292

1,292 1,292 1,292

1,290 1,290 1,270

> 649 649 645

tion 7

3,211 862 8,111 7,761 865

2,603

2,847 3,735 2,928

2,873 3,368 3,188

2,723 2,723 2,603

1,230 1,230 1,230

340

# 11. Federal finance on a cash basis

	The state of the s	***************************************	Financing	3							1	
		OPPONYMENTAL	Change								1	
Cash	Cash expenditure	Cash surplus (+)	in cash resources	4	in Bundes- bank ad- vances		in market debt		Items in course of settlement	Seigniorage	Cash surplus or defic cumula from	it (-), tive
receipts 1	1, 2	or deficit (-)	(a)		(b)		(c)		(d)	(e)	beginn of year	
DM billion											***************************************	
450.28 463.72 501.56 532.67 568.83 597.48 50.28 35.09 46.89 52.75 47.06	512.30 497.55 549.77 609.26 638.04 655.33 55.05 42.37 45.37 62.35	- 62.01 - 33.83 - 48.20 - 76.60 - 69.21 - 57.84 - 4.78 - 7.28 + 1.52 - 9.60	+ + +	12.95 6.12 3.49 6.62 3.33 5.43 2.11 2.55 3.80 0.04	-	4.35 - - - - - -	+ + + + + + + + + + + + + + + + + + + +	78.54 27.21 44.35 83.05 65.81 52.29 2.63 9.80 5.32 9.61	- - - - - -	0.7 0.5 0.3 0.1 0.0 0.1 0.0 0.0 0.0	77 - 77 - 79 - 79 - 79 - 79 - 79 - 79 -	62.01 33.83 48.20 76.60 69.21 57.84 30.20 37.48 35.96 45.56
45.04 51.58	48.90 54.58	- 3.87 - 3.00	- +	2.27 3.40		_ _	+++	1.60 6.37	- - -	- 0.00 - 0.00	) -	54.01 57.88 60.88
40.43 55.64 90.69	54.28 57.88 71.57	- 13.86 - 2.23 + 19.12	- + -	3.22 0.38 0.63		- - -	+ + -	10.64 2.62 19.73	- - -	- 0.0 - 0.0 - 0.0	)   -	74.73 76.96 57.84
Euro billion								***************************************				
25.48 20.47 28.93	35.10 24.99 30.96	- 9.62 - 4.52 - 2.04	+ - -	4.22 2.38 1.54		<u>-</u>	+ + +	13.85 2.15 0.51	_ _ _	- 0.00 - 0.0 - 0.0	-	9.62 14.14 16.18

<sup>1</sup> The cash transactions recorded as cash receipts and cash expenditure comprise payments into and out of the accounts carried by the Bundesbank for the Federal Government. The cash receipts and cash expenditure differ from those shown in the official financial statistics primarily because these transactions are recorded not at the time they are entered in the budgetary accounts but at the time of the actual inflow or outflow, and because transactions are recorded not at the time of the actual inflow or outflow, and because transactions are recorded not at the time of the actual inflow or outflow, and because transactions are recorded not at the time of the actual inflow or outflow, and because transactions are recorded not at the time of the actual inflow or outflow, and because transactions are recorded not at the time of the actual inflow or outflow.

actions on behalf of the European Communities (which are not entered in the Federal budget) are conducted through the accounts of the Federal Government. — 2 Including small amounts of special transactions. — 3 Cash balance = column (a) less (b) less (c) less (d) less (e). — 4 Deposits at the Bundesbank and in the money market.

Period

Apr. May June July Aug.

Aug. Sep. Oct. Nov. Dec.

1999 Jan. Feb. p Mar. p

<sup>1</sup> Excluding mobilisation and liquidity paper. — 2 Excluding paper in the issuers' portfolios. — 3 From January 1991 including debt securities taken over from the Federal Railways totalling DM 12,622 million. — 4 Including loans raised abroad; 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

# VIII. Public finance in Germany

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

	DM million			AND MARKET THE PARTY OF THE PAR			ç	pe-qualitye-ejecución ensens	ge angement and the second second second second	o pportromonomy - po ado sejespo adocer - 11 (1948) 11 11	TO THE RESERVE TO SERVE			
	Receipts 1			Expenditure	1				Assets 5	VII (MARKO ) VII (MARKO ) VII		ga seksasisi ilka episikan makan ma	good and the second	
		of which		Property of the second	of which		Bala	ince				Mort-	Trees agency on the	Memor- andum
Period	Total	Contri- butions 2	Federal payments	Total	Pension pay- ments 3	Pen- sioners' health insurance 4	of r and exp	eceipts end-	Total	Deposits 6	Securities	gage and other loans 7	Real estate	item Adminis- trative assets
	Western	Germany												
1993	243,119	196,357	41,837	248,866	207,633	13,064	į -	- 5,747	39,786	29,957	8,499	1,100	229	6,297
1994	267,265		48,108	266,443	220,744	14,375	+	822	33,578	24,194	8,170	909	305	6,890
1995	276,302	225,324	47,979	279,226	230,222	15,923	-	2,924	21,756	16,801	3,948	746	262	7,800
1996 8	288,761	236,036	50,478	288,716	237,464	16,809	4	- 45	14,456	9,608	2,119	2,500	1	8,863
1997 P	305,606	248,463	54,896	295,635	245,857	17,892	4	9,971	14,659	10,179	1,878	2,372	1	9,261
1998 ts	317,465	250,066	65,312	304,415	254,552	18,613	4	- 13,050	18,197	14,201	1,493	2,278	225	9,595
1998 1st qtr	74,315	59,036	14,827	75,224	63,105	4,561	-	- 909	11,808	7,507	1,720	2,351	i .	1 '
2nd qtr	77,581	60,111	16,902	74,398	63,175	4,565	-	3,183	11,657	7,506	1,584	1	l l	9,324
3rd qtr	79,131	61,935	16,766	76,389	64,145	4,746	-	- 2,742	11,040	1 '	1,511	5	1	1
4th qtr	85,689	68,984	16,117	77,405	64,127	4,741	1 -	8,284	18,197	14,201	1,493	2,278	225	9,595
	Eastern (	Germany												
1993	53,241	36,051	10,834	55,166	45,287	2,834	-	- 1,925						
1994	63,001	40,904	13,783	65,811	53,136	3,376	-	- 2,810						
1995	70,774	44,970	16,408	77,780	63,812	4,362	-	- 7,006						
1996	74,790	46,580	17,910	83,830	68,316	4,851	3	- 9,040	9					
1997 p	79,351	48,939	20,065	87,424	70,585	5,388	-	- 8,073	1			-		
1998 ts	80,942	47,757	23,555	90,608	73,156	5,738	-	- 9,666		e.				
1998 1st qtr	19,582	11,559	5,457	22,489	1	1	1	- 2,907	1		·			
2nd qtr	18,861	11,417	6,044	22,591	18,194	1	3	- 3,730	1		· ·			
3rd qtr	19,979	11,788	5,994	22,698	1	1	8	- 2,719	I	om tadas				
4th qtr	22,020	12,993	6,060	22,830	18,333	1,448		- 810		1				•

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

	DM million				eronacione managemente de la calife	ogg-ykde-sisaes N-€ (12 20 N-6 (			······································		. accompanied #800,000 Feb. 00 million in accompanied accomp		1
	Receipts			Expenditure				men kilopopolokoo karaskoi vaalaheen - 44.88884 4446	0000-0000000-000000-000000-000000-000000		gggiy V dyyyaqua mili Saabada 2000-y		Subsidies
		of which			of which			signatur uz manaro com monentation manara la mal		cova vicas menos atem menos vicinos (1.54 de de de	grammatic and the state of the		or work-
					Unemployn	nent relief 3,	4	Promotion of training 4.			Promo- tion of winter	Balance of receipts and	credits of the Federal
Period	Total 1	Contri- butions	Levies 2	Total	Total	Western Germany	Eastern Germany	Total	Western Germany	Eastern Germany	con- struction	expend- iture	Govern- ment
	Germany			500 ST 100 ST 100 ST 100 ST 100 ST 100 ST 100 ST 100 ST 100 ST 100 ST 100 ST 100 ST 100 ST 100 ST 100 ST 100 ST									Agency processor and construction of the const
1993	85,109	79,895	1,829	109,536	48,005	34,149	13,856	36,891	15,895	20,996	1,919	-24,426	
1994	89,658	81,536	3,822	99,863	48,342	35,163	13,179	31,273	14,382	16,89	1		1 1
1995	90,211	84,354	2,957	97,103	49,254	36,161	13,094	34,441	16,745	17,696		1	1 1
1996	91,825	85,073	3,346	105,588	57,123	40,186	16,938	36,478	18,368	18,11		1	1 1
1997	93,149	85,793	2,959	102,723	60,273	40,309	19,964	31,418	16,117	15,30	1	į.	1 1
1998	91,088	86,165	2,868	98,852	53,483	35,128	18,355	34,279	16,784	17,490	5 47	-7,764	7,719
1998 1st gtr	20,507	19.894	152	21,882	13,687	8,849	4,838	5,582	3,008	3 2,57	3 26	1 – 1,375	6,157
2nd gtr	21,716	§	653	25,347	14,786	9,506	5,280	7,814	4,01	3,804	4 19 <sup>.</sup>	-3,631	2,668
3rd qtr	22,886	1	856	23,992	12,525	8,314	4,211	8,832	4,09	4,73	7 14	ŝ	1 1
4th qtr	25,978	1	1,207	27,631	12,486	8,460	4,026	12,051	5,670	6,38	1 (	6 – 1,653	- 1,960

Source: Federal Labour Office. — 1 Excluding Federal Government liquidity assistance. — 2 Levies to promote winter construction and to pay bankruptcy 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

Producing sector 1,116.7   1,133.3   1,123.9   1,144.5   1,192.8   1,5   0.8   18   42   32.9   31.9   31.9   31.9   31.9   32.5   34.0   32.5   34.0   32.5   34.0   32.5   34.0   32.5   34.0   32.5   34.0   32.5   34.0   34.0   35.4	1			A	1997 р	1998 p	1995	<u> </u>	1997 р	1998 р	1995	1996 р	1997 р	
LOrigin of domestic product   Agriculture and forestry   1,16   1,133   1,123   1,144   1,192   1,15   1,15   1,133   1,123   1,144   1,192   1,15   1,15   1,133   1,123   1,144   1,192   1,15   1,15   1,133   1,123   1,144   1,192   1,15   1,15   1,15   1,133   1,123   1,144   1,192   1,15	Item	DM billi	on		Company of the Compan				6	- Yes - Manual - manu	Percenta	age of to	tal	_
Agriculture and forestry 1 Producing sector 1,116   1,1133   1,1239   1,1245   1,194	at current prices													
Enterprises Government, households, etc. 4  617	Agriculture and forestry 1 Producing sector Distribution, transportation 2	1,116.7 478.4	1,133.3 494.6	1,123.9 496.2	1,144.5 508.7	1,192.8 522.5	1.5 3.4	- 0.8 0.3	1.8 2.5	4.2 2.7	32.9 14.4	31.9 14.1		)
Gross domestic product    II.Expenditure of domestic product		2,741.1	2,833.5	2,904.5	2,997.6	3,123.9	3.4	2.5	3.2	4.2	82.3	82.4	82.7 13.6	,
Private consumption   1906.0   1,975.3   2,046.4   2,095.2   2,156.1   3.6   3.6   2.4   2.99   57.4   58.1   57.6     Machinery and equipment   258.1   262.3   267.9   279.5   307.2   1.6   2.1   4.3   9.9   7.6   7.6   7.6     Machinery and equipment   258.1   262.3   267.9   279.5   307.2   1.6   2.1   4.3   9.9   7.6   7.6   7.6     Increase in stocks   16.4   18.3   455.5   44.5   475.5   47.5   97.3                     Domestic expenditure   3,307.2   3,415.7   3,480.8   3,569.1   3,692.2   3.3   1.9   2.5   3.4   99.2   98.8   98.8     Foreign balance   27.10   27.1   42.7   54.9   65.9               Exports   757.0   821.2   866.2   971.8   1,082.2   8.5   5.5   12.2   5.8   23.9   24.6   26.     Imports   735.9   794.2   882.5   916.9   962.3   7.9   3.7   11.3   4.9   23.1   23.4     Gross domestic product   3,328.2   3,442.8   3,523.5   3,624.0   3,758.1   3.4   2.3   2.9   3.7   100   100   100     III.Distribution of national income   685.9   715.6   754.5   828.7   900.4   4.3   5.4   9.8   8.6   27.5   28.4   30.     National income   2510.0   2,599.0   2,657.0   2,735.2   2,833.4   3.5   2.2   3.0   3.6   100   100   100     Memorandum item   Gross national product   3,320.2   3,426.6   3,497.5   3,600.1   3,719.4   3.2   2.1   2.9   3.3   1.4   1.5   3.7     Producing sector   1,033.2   1,036.8   1,022.8   1,048.9   1,049.9   0.4   -1.4   2.6   3.4   34.6   33.7   33.7     Extreprises   2,400.7   2,500.2   2,548.8   2,623.2   2,727.2   1.6   1.8   3.0   4.0   8.4   3.4   3.4     Final private of domestic product   2,903.2   2,954.8   3,027.8   3,107.8   3,107.7   1.4   3.6   3.4   34.6   3.7	do. adjusted 5	3,063.2	3,176.1	3,253.7	3,346.6	3,472.6	3.7	2.4	2.9	3.8	92.3	92.3	96.3 92.3 100	3
Foreign balance	Private consumption Government consumption Machinery and equipment Construction	658.6 258.1 468.1	686.6 262.3 473.3	705.1 267.9 455.5	703.4 279.5 443.5	710.1 307.2 421.5	4.2 1.6	2.7 2.1	- 0.2 4.3	1.0 9.9	19.9 7.6 13.7	20.0 7.6 12.9	57.8 19.4 7.7 12.2 1.3	,
III.Distribution of national income	Foreign balance Exports	21.0 757.0	27.1 821.2	42.7 866.2	54.9 971.8	65.9 1,028.2	8.5	5.5	12.2	5.8	0.8 23.9	1.2 24.6	98.5 1.5 26.8 25.3	
Compensation of employees 6 Entrepreneurial and property income  685.9  715.6  754.5  828.7  900.4  4.3  5.4  9.8  8.6  27.5  28.4  30.  National income  Agriculture and forestry 1 Producing sector Distribution, transportation 2  42.9  43.2  43.9  43.8  42.5  43.0  43.8  42.5  43.0  43.8  42.5  43.0  43.8  42.5  43.0  1,033.2  1,036.8  1,022.8  1,038.2  43.0  43.8  43.0  43.8  43.5  44.0  43.8  43.0  43.0  43.8  43.0  43.0  43.8  43.0  43.0  43.0  43.0  43.8  43.0	Gross domestic product	3,328.2	3,442.8	3,523.5	3,624.0	3,758.1	3.4	2.3	2.9	3.7	100	100	100	
National income	Compensation of employees 6 Entrepreneurial and prop-												69.7	
Memorandum item Gross national product  3,320.2 3,426.6 3,497.5 3,600.1 3,719.4 3.2 2.1 2.9 3.3  IV.Origin of domestic product Agriculture and forestry 1 43.8 1,033.2 1,036.8 1,022.8 1,048.9 1,084.9 0.4 - 1.4 2.6 3.4 34.6 33.7 33. Distribution, transportation 2 432.9 438.2 442.4 453.3 469.1 1.2 1.0 2.5 3.5 14.6 14.6 14.6 14.5 Services 3 950.8 982.7 1,034.6 1,075.6 1,126.3 3.4 5.3 4.0 4.7 32.8 34.1 34.  Enterprises 2,460.7 2,500.2 2,545.8 2,623.2 2,727.2 1.6 1.8 3.0 4.0 83.4 83.9 84. Government, households, etc. 4 401.3 403.0 405.6 404.2 403.4 0.4 0.6 - 0.3 - 0.2 13.5 13.4 13.  Gross value added 2,862.0 2,903.2 2,951.4 3,027.4 3,130.7 1.4 1.7 2.6 3.4 96.9 97.3 97. do. adjusted 5 2,730.6 2,767.4 2,803.9 2,866.6 2,954.8 1.3 1.3 2.2 3.1 92.4 92.4 92.4  Gross domestic product Private consumption 588.9 600.5 616.9 612.7 616.3 2.0 2.7 - 0.7 0.6 20.0 20.3 19.1  V.Expenditure of domestic product Private consumption 588.9 600.5 616.9 612.7 616.3 2.0 2.7 - 0.7 0.6 20.0 20.3 19.1  Machinery and equipment 251.0 255.0 260.0 270.1 297.3 1.6 1.9 3.9 10.1 8.5 8.6 8. Construction 413.2 409.0 396.1 386.4 369.7 - 1.0 - 3.1 - 2.5 - 4.3 13.6 13.1 12.  Domestic expenditure 2,971.4 3,013.2 3,034.6 3,076.8 3,171.8 1.4 0.7 1.4 3.1 100.6 100.0 99.  Domestic expenditure 2,971.4 3,013.2 3,034.6 3,076.8 3,171.8 1.4 0.7 1.4 3.1 100.6 100.0 99.		<del></del>	<del> </del>		<b></b>		1							_
IV.Origin of domestic product  Agriculture and forestry 1 Agriculture and 6 Agriculture and 6 Agriculture and 6 Agriculture and 6 Agriculture and 6 Agriculture 1 Agriculture 1 Agriculture 1 Agriculture 1 Agriculture 1 Agriculture 1 Agriculture 1 Agriculture 1 Agriculture 1 Agriculture 1 Agriculture 2 Agriculture 1 Agriculture 1 Agriculture 1 Agriculture 1 Agriculture 2 Agriculture 1 Agriculture 2 Agriculture 1 Agriculture 2 Agriculture 4 Agriculture 4 Agriculture 1 Agriculture 1 Agriculture 2 Agriculture 1 Agriculture 1 Agricult	Memorandum item	NATIONAL PROPERTY OF THE PARTY		ŕ	·		DWALDWAN				100			
Services 3         950.8         982.7         1,034.6         1,075.6         1,126.3         3.4         5.3         4.0         4.7         32.8         34.1         34.           Enterprises Government, households, etc. 4         2,460.7         2,500.2         2,545.8         2,623.2         2,727.2         1.6         1.8         3.0         4.0         83.4         83.9         84.           Gross value added do. adjusted 5         2,862.0         2,903.2         2,951.4         3,027.4         3,130.7         1.4         1.7         2.6         3.4         96.9         97.3         97.           Gross domestic product         2,960.2         2,996.2         3,034.6         3,101.4         3,186.7         1.2         1.3         2.2         2.8         100         100         10           V.Expenditure of domestic product Private consumption Government consumption Machinery and equipment         1,699.0         1,730.2         1,757.6         1,765.7         1,800.1         1.8         1.6         0.5         1.9         57.7         57.9         56.           Government consumption Machinery and equipment         255.0         260.0         270.1         297.3         1.6         1.9         3.9         10.1         8.5	IV.Origin of domestic product Agriculture and forestry 1 Producing sector	1,033.2	1,036.8	1,022.8	1,048.9	1,084.9	0.4	- 1.4	2.6	3.4	34.6	33.7	1.5 33.8	1
Gross value added do. adjusted 5 2,767.4 2,803.9 2,866.6 2,954.8 1.3 1.3 2.2 3.1 92.4 92.4 92.4 Gross domestic product Private consumption Government consumption Machinery and equipment 251.0 255.0 260.0 270.1 297.3 1.6 1.9 3.9 1.1 1.8 1.6 0.5 1.9 57.7 57.9 56.1 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Services 3	950.8	982.7	1,034.6	1,075.6	1,126.3	3.4	5.3	4.0	4.7	32.8	34.1	14.6 34.7	-
do. adjusted 5       2,730.6       2,767.4       2,803.9       2,866.6       2,954.8       1.3       1.3       2.2       3.1       92.4       92.8       92.4       92.4       92.4       92.4       92.4       92.4       92.8       92.4       92.8       92.4       92.8       10.0       10.0       10.0       92.4       92.8       10.6       10.0       10.0       92.4       92.8       10.6       10.0       10.0       92.4													84.6 13.0	
V.Expenditure of domestic product Private consumption         1,699.0         1,730.2         1,757.6         1,765.7         1,800.1         1.8         1.6         0.5         1.9         57.7         57.9         56.9           Government consumption Machinery and equipment         255.0         255.0         260.0         270.1         297.3         1.6         1.9         3.9         10.1         8.5         8.6         8.           Construction Increase in stocks         413.2         409.0         396.1         386.4         369.7         - 1.0         - 3.1         - 2.5         - 4.3         13.6         13.1         12.2           Domestic expenditure Foreign balance         2,971.4         3,013.2         3,034.6         3,076.8         3,171.8         1.4         0.7         1.4         3.1         100.6         100.0         99.	do. adjusted 5	2,730.6	2,767.4	2,803.9	2,866.6	2,954.8	1.3	1.3	2.2	3.1	92.4	92.4	97.6 92.4	-
Domestic expenditure 2,971.4 3,013.2 3,034.6 3,076.8 3,171.8 1.4 0.7 1.4 3.1 100.6 100.0 99 Foreign balance -11.2 -17.0 0.0 24.6 15.0	V.Expenditure of domestic product Private consumption Government consumption Machinery and equipment Construction	1,699.0 588.9 251.0 413.2	1,730.2 600.5 255.0 409.0	1,757.6 616.9 260.0 396.1	1,765.7 612.7 270.1 386.4	1,800.1 616.3 297.3 369.7	1.8 2.0 1.6	1.6 2.7 1.9	0.5 - 0.7 3.9	1.9 0.6 10.1	57.7 20.0 8.5 13.6	57.9 20.3 8.6 13.1	56.9 19.8 8.7 12.5 1.3	Name and Address of the State o
Imports 754.0 808.9 832.5 900.2 959.4 7.3 2.9 8.1 6.6 27.0 27.4 29.0	Foreign balance	- 11.2	3,013.2 - 17.0	3,034.6 0.0	3,076.8 24.6	3,171.8 15.0 974.4	6.6	5.1	1.4	5.4	100.6 - 0.6 26.4	100.0	99.2 0.8 29.8	

Source: Federal Statistical Office. — 1 Including fishing. — 2 Including telecommunications. — 3 Credit institutions, insurance enterprises, letting of dwellings and other services. — 4 Including private non-commercial organisations. — 5 Gross value added by all economic sectors less imputed re-

muneration for bank services. — 6 Including employers' contributions to social security funds and other social security expenditure by employers (inter alia on company old-age pension schemes).

#### IX. Economic conditions

# 2. Output in the producing sector 1

	Adjusted f	or wo	rking-	day variatio	ons			pagggrapon orabinoski o	ge an wagetan .	400 3004********************************	****		C000000-00000000-1-1-200000-1-1-200000-1-1-20000-1-1-20000-1-1-1-20000-1-1-1-20000-1-1-1-20000-1-1-1-20000-1-1	new-kolocopie-wiko so.					i.e(g.: 2000-0420 EU042 PU	-00000A-4830 0007 TV	***************************************
	mg			of which:			www.www.www.		***************************************			water-traces a	MOREOUS COMPANY TO THE PROPERTY OF THE PROPERT	Light-recipion and the		SAMPLE SOLL A SOSSIER AND THE PARTY OF THE P	- ALIBONOS II II III III II		opegation regard many a visit	MANUT TOURS	
				Manufactu	iring s	ector		meson + 1179 - 100			ariah dar Militiah APRIFES	nowarawan-g	gramma amazan a ara cantar a daccada da data e e	w.m			N. P. Laboratory on the desired Co. one and	# WATER TO THE REAL PROPERTY OF THE REAL PROPERTY O			::habit 60:0000
	Producing total	sector	٠,	Total			Intermedia goods indu		2	Capital goo industries	ods		Durable co goods indu		er	Other cons goods indu		(	Constructio	n	el CLOSH-HODOTON-
	general grade on the control of the	Chan from previ year		900/der-100 200	Chan from previous year		1005 100	Chan from previ- year		1005 - 100	Chan- from previ- year	_	1995 = 100	Chan- from previ- year		1995 = 100	Change from previou year in %	ıs	1995 = 100	Chang from previous year in %	7
Period	1995 = 100	in %		1995 = 100	in %		1995 = 100	in %	CARRIES NO.	1995 = 100	in %		1993 = 100	111 70	an MEAN WY	1999 - 100	111 /0		1999 = 100	40.0000000 fo	900
	Germa	ny																			of the feet twee twee the
1995 <sup>3</sup> r 1996 r 1997 r 1998 r	100.0 99.8 102.5 106.3	+   + +	0.8 0.2 2.7 3.7	100.0 100.4 104.5 109.9	+ + + +	1.2 0.4 4.1 5.2	100.0 99.8 106.0 111.5	+ - + +	0.2 0.2 6.2 5.2	100.0 101.0 105.2 113.2	+ + + +	5.4 1.0 4.2 7.6	100.0 101.1 101.9 108.2	- + + +	6.5 1.1 0.8 6.2	100.0 100.6 100.9 100.6	+ (	1.0 0.6 0.3 0.3	100.2 93.5 89.6 86.8	- - -	1.4 6.7 4.2 3.1
1998 Feb. r Mar. r	98.3 114.3	+ +	5.2 9.3	103.6 119.2	++	6.9 11.8	106.5 120.5	++	8.7 12.4	102.9 124.4	++	8.7 16.5	108.5 122.4	+ +	5.9 12.6	94.4 104.9		1.9 1.7	61.3 86.9	-	2.4 4.0
Apr. r May r June r	106.2 104.2 110.2	+ + +	1.5 7.3 1.8	109.4 107.3 114.2	+ + +	3.8 9.7 3.3	112.7 110.9 115.9	+++++	4.4 10.0 4.3	110.1 108.0 120.0	+ + +	5.7 12.4 3.5	108.7 105.4 110.8	+ + +	0.8 13.5 2.8	100.0 97.9 100.9	+	0.5 1.7 0.2	91.5 92.6 99.4	- -	7.9 1.5 4.5
July r Aug. r Sep. r	109.1 97.2 113.7	+ + +	3.6 5.5 2.9	112.0 98.7 117.1	+++++	5.0 6.8 3.8	114.6 103.8 117.9	+ + +	4.7 6.0 3.8	116.3 98.0 122.1	+ + +	8.2 10.6 5.3	104.6 81.0 121.0	+ + +	3.6 15.1 7.5	101.2 95.2 104.3	-	0.4 0.3 1.0	100.7 90.8 103.3	- - -	3.3 1.7 3.8
Oct. r Nov. r Dec. r	113.8 112.4 100.5	+ + -	1.6 1.0 0.5	116.8 115.8 105.4	+ + + +	2.8 2.0 0.8	118.4 114.8 97.0	+ + -	0.8 0.8 2.6	117.9 120.5 126.3	+++++++++++++++++++++++++++++++++++++++	6.6 4.8 5.1	124.1 121.1 95.0	+ + +	10.8 3.2 3.5	106.8 106.6 96.2	-	2.6 1.0 1.2	100.1 91.5 63.0	_ _ _	4.8 5.9 10.0
1999 Jan. <b>P</b> Feb. <b>P</b>	96.2 96.7	+	0.7 1.6	99.8 102.5	+ -	0.6 1.1	103.8 103.6	- -	0.7 2.7	93.8 101.5	+	2.0 1.4	99.6 109.2	++	3.5 0.6	99.5 97.6		0.8 3.4	63.4 55.4	+	4.4 9.6
	Weste	rn Ge	erma	iny																	and and and and and
1995 3 r 1996 r 1997 r 1998 r	100.0 99.5 102.2 106.1	-	0.2 0.5 2.7 3.8	100.0 100.0 103.9 108.9		0.5 0.0 3.9 4.8	100.0 99.5 105.4 110.3	- - + +	0.9 0.5 5.9 4.6	100.1 100.8 104.9 112.9	+ + + +	5.3 0.7 4.1 7.6	100.0 100.8 101.3 107.2	+ +	7.2 0.8 0.5 5.8	100.0 99.7 99.4 99.0	- 	0.4 0.3 0.3 0.4	100.2 92.5 88.9 87.4	-	3.4 7.7 3.9 1.7
1998 Feb. r Mar. r	98.7 114.5	+ +	5.1 9.5	103.0 118.3		6.4 11.3	105.8 119.4	+ +	8.1 11.8	102.8 124.3	+++	8.8 16.7	107.6 121.2	+	5.6 12.1	93.3 103.6	+	2.0 1.8	61.8 88.3	-	1.3
Apr. r May r June r	106.1 103.9 109.7		1.8 7.8 1.8	108.5 106.3 113.0	+ +	3.3 9.4 2.8	111.6 109.7 114.5	+ + +	3.9 9.7 3.8	109.9 107.8 119.8	+ + +	5.4 12.4 3.5	107.8 104.6 109.8	+	0.7 13.2 2.4	98.3 96.0 98.9	+ -	0.1 1.8 0.4	93.2 94.2 100.1	- + -	5.7 1.4 3.1
July r Aug. r Sep. <b>r</b>	108.7 96.3 113.1	+	3.5 5.9 3.1	111.0 97.4 115.8	+	4.5 6.6 3.8	113.2 102.4 116.3	+ +	3.9 5.5 3.2	116.3 97.4 121.4	++++	7.9 10.8 5.8	103.8 79.8 119.9	+	2.8 15.0 7.1	99.9 93.9 102.7	-	0.3 0.1 1.1	101.4 89.6 103.9	+ + -	2.2 0.4 2.7
Oct. r Nov. r Dec. r	113.3 111.9 100.7	+	1.5 1.0 0.2	115.6 114.5 104.4	+	2.3 1.7 0.6	117.1 113.4 96.0	+ + -	0.3 0.4 3.0	117.4 120.1 126.5	+ + +	6.4 4.9 5.6	123.1 119.7 93.5		10.4 2.7 3.1	105.0 104.9 94.1	-	2.7 0.8 1.3	100.9 91.6 63.3		4.1 5.4 9.3
1999 Jan. P Feb. P	96.2 97.2	+	0.5 1.5	98.9 101.9		0.4 1.1	102.8 102.7	_	1.2 2.9	93.2 101.4		1.7 1.4	98.0 108.2		2.8 0.6	98.9 97.1		1.4 4.1	63.2 56.0	+ -	4.8 9.4
	Easter	n Ge	rma	ny																	
1995 3 r 1996 r 1997 r 1998 r	100.0 102.0 105.6 108.9	++	2.0 3.5	100.0 105.9 115.8 127.0	+ +	9.6 5.9 9.3 9.7	100.1 104.4 116.5 133.3	++	16.3 4.3 11.6 14.4	100.0 103.9 110.9 119.9	+++	6.7	108.7	+ +	12.9 8.6 11.7 17.2	100.1 110.5 118.9 120.4	+ 1	5.0 0.4 7.6 1.3	100.1 96.8 92.2 84.9	+	5.5 3.3 4.8 7.9
1998 Feb. r Mar. r	93.0 112.4			113.5 133.9		12.5 17.3	141.1	+	21.4 26.4	106.0 128.0	+	8.7 13.7	161.1	+	15.9 28.4	l .	+	0.2 2.3	59.7 81.9	1	5.2 11.7
Apr. r May r June r	107.8 107.3 115.8	+		124.9 124.2 134.0	+	9.8 11.7 9.4	132.8	+	12.2 16.4 14.4	114.4 111.6 125.7	+ + +	10.8		++	5.0 22.2 14.5	§	+ +	5.1 1.7 2.2	85.3 86.8 96.9	-	15.4 11.4 9.3
July r Aug. r Sep. r	113.6 107.8 121.1	3 +	2.2	128.8 120.4 139.8	+	12.3 8.5 5.8		+	15.5 13.8 12.3	118.7 111.7 137.2	+ + -	7.1	121.2	+	29.6 17.9 14.6	113.1 125.5	+	1.9 1.6 1.0	98.5 95.4 101.4	-	6.7 8.4 7.6
Oct. r Nov. r Dec. r	119.0 117.1 98.6	+	0.2	136.3	+	8.5 4.8 1.9		+ + +	9.3 7.9 5.3		+	5.0	163.5	+	22.8 13.1 10.0	127.7	-	0.4 2.7 0.3	97.4 91.2 61.9	-	6.9 7.7 12.3
1999 Jan. P Feb. P	96.1 90.3	+	2.8	i	+	3.9 1.1	121.2 119.1		5.8 0.1						17.7 4.7			5.5 3.4	63.9 53.3	+ -	2.4

Source: Federal Statistical Office. — 1 The index of output has been revised by the Federal Statistical Office from the beginning of 1995. It ist now based on the quarterly recorded total output of all firms employing 20 persons or more. To calculate the index, these quarterly figures are converted into monthly figures with the aid of monthly data collected from larger enterprises, and are updated each month at the end of the current series. The resultant latest index figures are then revised on the basis of the quarterly

data obtained later from the smaller enterprises. For details see "Wirtschaft und Statistik", April 1999. — 2 Excluding electricity and gas supply and excluding mining and quarrying. — 3 Figures not fully comparable with those for earlier periods in the producing sector as a whole and in manufacturing, owing to the switch in data collection to an EU-consistent industrial and goods classification.

# IX. Economic conditions

# 3. Orders received by the manufacturing sector \*)

Adjusted for working-day variations o

	Adjusted for	working-da	y variations o			watercooks and consumption and speed to be a series of	CONTROL (1888)					
	Manufacturi	ng		NOTES AND AND AND AND AND AND AND AND AND AND								
	Total		Domestic or	ders	Foreign orde	ers	Intermediate industries	e goods	Capital good	s industries	Durable and consumer go industries	non-durable oods
Period	1995=100	Change from previous year in %	1995=100	Change from previous year in %	1995=100	Change from previous year in %	1995=100	Change from previous year in %		Change from previous year in %	1995=100	Change from previous year in %
	German		The second secon		And the second s	The second secon	11333-100		11333-100	111 /U	1333-100	111 70
1995 1 1996 1997 1998 r	100.0 99.8 107.0 110.8	+ 3.4 - 0.2 + 7.2 + 3.6	96.8 99.0	+ 3.4 - 3.2 + 2.3 + 3.8	100.0 105.4 121.5 125.3	+ 3.2 + 5.4 + 15.3 + 3.1	100.0 98.1 107.1 108.5	+ 2.5 - 1.9 + 9.2 + 1.3	100.0 101.5 108.8 115.9	+ 5.9 + 1.5 + 7.2 + 6.5	99.9 101.3 103.3 107.0	+ 0.8 + 1.4 + 2.0 + 3.6
1998 Feb. r Mar. r	111.5 124.5	+ 9.5 + 8.2		+ 8.0 + 7.2	127.9 142.0	+ 11.3 + 9.3	109.5 120.0	+ 7.7 + 6.9	113.7 129.6	+ 15.2 + 12.1	112.5 126.1	+ 3.8 + 3.9
Apr. r May r June r	112.7 108.0 114.0	+ 5.4 + 6.5 + 4.3	100.2	+ 4.3 + 5.8 + 3.1	130.1 122.0 132.1	+ 7.1 + 7.5 + 6.3	112.2 107.8 113.4	+ 5.6 + 4.7 + 1.6	116.0 112.9 120.2	+ 6.4 + 10.3 + 8.6	107.5 98.7 103.1	+ 2.9 + 3.7 + 2.8
July r Aug. r Sep. r	111.9 100.3 117.3	+ 4.3 + 1.2 + 1.2	96.5	+ 5.1 + 4.0 + 4.1	122.7 107.2 131.2	+ 3.3 - 3.2 - 2.8	108.9 99.0 111.2	+ 0.1 - 1.1 - 1.3	118.9 102.2 125.8	+ 9.2 + 2.4 + 3.8	105.8 100.3 116.7	+ 6.4 + 5.4 + 2.5
Oct. r Nov. r Dec. r	110.4 106.7 101.5	- 1.7 - 2.2 - 3.5	101.1 90.8	- 0.7 - 0.8 - 3.4	124.4 117.1 120.7	3.5 4.1 - 3.7	107.6 104.7 95.8	5.4 6.1 6.3	114.4 110.3 112.9	+ 1.1 ± 0.0 - 2.4	109.7 105.0 94.3	+ 2.0 + 5.0 + 2.1
1999 Jan. Feb. p	106.1 105.3	- 4.7 - 5.6 <b>German</b>	95.5	- 4.7 - 6.7	120.1 123.0	- 4.8 - 3.8	105.7 100.7	- 5.5 - 8.0	107.2 109.0	- 6.0 - 4.1	105.1 110.0	+ 1.4 - 2.2
	vvestern	German	<u>y</u>									
1995 1 1996 1997 1998 r	100.0 100.1 107.0 110.1	+ 2.7 + 0.1 + 6.9 + 2.9	96.9 98.7	+ 2.6 - 3.1 + 1.9 + 3.6	100.0 105.6 121.1 123.4	+ 2.6 + 5.6 + 14.7 + 1.9	100.0 97.8 106.3 107.1	+ 1.6 - 2.2 + 8.7 + 0.8	100.0 102.7 110.0 116.3	+ 4.9 + 2.7 + 7.1 + 5.7	99.9 101.2 103.0 105.9	+ 0.8 + 1.3 + 1.8 + 2.8
1998 Feb. r Mar. r	111.1 123.5	+ 8.6 + 7.3	114.5	+ 7.0 + 6.9	126.9 139.0	+ 10.6 + 7.9	108.6 118.5	+ 7.0 + 6.0	113.9 129.3	+ 13.7 + 11.3	112.0 125.5	+ 3.3 + 3.3
Apr. r May r June r	112.4 107.3 113.3	+ 5.0 + 6.0 + 3.8	99.5 103.0	+ 3.7 + 5.6 + 2.6	129.3 120.6 130.7	+ 7.2 + 6.5 + 5.4	110.9 106.4 111.9	+ 4.9 + 4.2 + 1.5	117.4 113.4 121.0	+ 6.5 + 9.8 + 7.8	107.0 98.0 101.9	+ 2.8 + 3.4 + 1.9
July r Aug. r Sep. r	111.5 98.8 116.7	+ 3.9 - 0.4 + 1.0	95.9 109.1	+ 4.9 + 3.7 + 4.6	121.5 104.2 129.5	+ 2.3 - 5.7 - 3.9	107.4 97.5 109.1	- 0.6 - 1.7 - 2.2	120.4 100.7 127.5	+ 8.9 - 0.6 + 4.6	104.7 99.3 115.5	+ 5.4 + 4.5 + 1.7
Oct. r Nov. r Dec. r	108.9 105.7 100.4	3.3 - 2.6 4.5	102.0 100.1 89.9	- 1.1 - 1.0 - 3.9	120.5 115.2 118.1	- 6.3 - 5.1 - 5.4	106.2 103.1 94.6	- 6.0 - 6.6 - 6.9	112.8 110.4 112.1	- 1.9 - 0.5 - 3.9	108.2 103.2 92.9	+ 1.2 + 4.2 + 1.0
1999 Jan. Feb. <b>p</b>	105.0 104.9	- 5.7 - 5.6	97.4 95.1	- 5.6 - 6.6	117.9 121.6	- 5.8 - 4.2	104.0 99.3	- 6.2 - 8.6	106.8 110.2	- 8.1 - 3.2	103.9 109.1	+ 0.8 - 2.6
	Eastern (	<u>sermany</u>										
1995 1 1996 1997 1998 r	99.7 95.8 107.4 123.9	+ 16.1 - 3.9 + 12.1 + 15.4	99.7 95.2 101.5 109.6	+ 12.8 - 4.5 + 6.6 + 8.0	99.8 98.4 137.2 196.0	+ 29.6 - 1.4 + 39.4 + 42.9	99.9 103.4 120.2 132.7	+ 18.2 + 3.5 + 16.2 + 10.4	99.4 84.6 91.8 111.8	+ 19.2 - 14.9 + 8.5 + 21.8	99.9 105.4 112.8 132.2	+ 1.4 + 5.5 + 7.0 + 17.2
1998 Feb. r Mar. r	119.0 139.3	+ 25.4 + 21.2	110.2 116.2	+ 23.0 + 11.7	163.5 255.6	+ 35.6 + 50.8	125.2 143.9	+ 19.4 + 19.7	110.4 134.1	+ 39.7 + 25.0	125.0 140.2	+ 13.0 + 15.7
Apr. r May r June r	117.1 120.1 127.5	+ 10.1 + 13.7 + 13.3	108.1 109.6 117.0	+ 11.2 + 8.5 + 8.4	162.2 172.8 180.1	+ 6.5 + 34.5 + 32.4	134.8 132.3 141.0	+ 16.0 + 10.6 + 5.1	96.3 107.2 110.5	+ 4.2 + 19.5 + 23.5	121.5 117.7 134.9	+ 3.8 + 10.2 + 23.2
July r Aug. r Sep. r	119.2 123.5 127.3	+ 13.8 + 24.9 + 4.8	109.4 104.8 114.8	+ 8.4 + 10.5 - 2.2	167.8 217.2 190.3	+ 35.7 + 82.5 + 33.5	134.8 123.5 146.7	+ 9.5 + 5.8 + 12.2	98.0 122.5 100.4	+ 15.3 + 57.5 - 9.0	132.3 126.9 146.7	+ 29.2 + 23.1 + 17.5
Oct. r Nov. r Dec. r	137.1 125.5 121.7	+ 24.2 + 6.6 + 13.6	109.9 113.8 101.7	+ 4.8 + 2.2 + 1.2	273.7 184.0 222.3	+ 99.6 + 23.9 + 58.7	133.1 133.5 116.2	+ 4.2 + 2.1 + 3.8	139.1 110.7 125.7	+ 57.5 + 10.3 + 22.9	145.3 146.0 129.2	+ 21.1 + 15.1 + 22.8
1999 Jan. Feb. <b>P</b>	125.7 113.8	+ 14.5 - 4.4	110.3 101.4	+ 11.0 - 8.0	202.1 176.1	+ 24.8 + 7.7	133.4 127.0	+ 4.5 + 1.4	113.5 94.2	+ 30.6 - 14.7	138.2 131.2	+ 14.1 + 5.0

Source of unadjusted figures: Federal Statistical Office. — \* Excluding food, drink and tobacco industry; results for kinds of activity units; figures excluding value-added tax. — o Bundesbank calculation. — 1 Figures not

# IX. Economic conditions

# 4. Orders received by construction \*

Adjusted	for	working-da	ay variations o

Period

1998 Jan. Feb. Mar.

Apr. May June July Aug. Sep. Oct. Nov. Dec. 1999 Jan.

Germany		************				Western G	erm	any			games are as a second as a second as a second as a second as a second as a second as a second as a second as a	Eastern Ge	rman	/ 		g
Total			Housing con- struction	Industrial construc- tion 1	Public construc- tion	Total			Housing con- struction	construc-	Public construc- tion	Total		Housing con- struction	Industrial construc- tion 1	
1995 = 100	fro pre yea	vious ir	1995 = 100	Secondario e (Secondario grapus - antiditati de		1995 = 100	yea	n vious	1995 = 100	Secretary (virtual to the control of		1995 = 100	Chang from previo year in %	8	) 	algoritation (s) an invasion of the state of
99.9 92.0 84.4 83.9	-	2.9 7.9 8.3 0.6	99.9 101.3 87.4 82.3	89.0 81.0	100.0 88.5 86.3 90.1	99.9 90.9 86.1 86.6	-	5.4 9.0 5.3 0.6	99.9 97.6 87.7 83.3	90.8 85.5	86.2 85.7	94.7 80.4	- 15 - 15	99. 3.3 108. 3.1 86. 3.4 80.	7 85.0 9 70.9	95.0 87.7
58.3 67.8 94.0	1 -	6.1 9.5 0.3	63.0 73.4 99.2	70.0	57.9 60.8 95.1	60.5 70.3 96.9	ļ -	4.3 9.5 1.9	58.7 73.0 99.7	77.4	60.2	61.9	- 10 - 9 - 3	).9 71. ).1 74. ).9 98.	1 53.1 3 73.9	62.4 95.0
85.5 86.5 99.2	! -	2.8 3.0 1.9	80.7 86.5 97.6	79.1	90.1 95.5 120.8		+	6.5 2.6 2.6	82.5 87.4 97.4	85.2	96.8	78.8	- 4	5.8 76. 1.3 84. 0.1 97.	8 65.4	92.1
94.6 85.1 102.0	į –	5.5 2.9 5.2	91.2 80.3 91.8	79.1			+ - +	6.7 2.7 5.0	87.4 86.5 95.0	80.1	92.1	83.1	- 3	2.0 99. 8.4 67. 5.5 85.	7 76.8	107.3
84.2 74.1 75.8	  -  +	2.0 5.3 3.1	77.1 68.7 78.5			74.0	+	3.4 4.4 2.0	83.0 69.7 79.5	80.0	70.2	74.4	+ :	1.8 65. 7.7 66. 5.5 76.	8 58.0	105.5
61.5	1	5.5	-	1	54.8	66.0	+	9.1	65.3	73.2	58.2	50.9	- 4	1.1 60.	2 48.2	45.4

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

parts thereof; civil engineering". — o  $\,$  Bundesbank calculation. — 1  $\,$  Including the railways and post office.

# 5. Retail turnover \* Germany

	Retail tra	de, total		-			of which:	By enterp	rises' maí	n product	range:	Burner on the State Office of the State of t			go with the mornination is a	www.cc.com
		es of moto prcycles an		and moto	) es of moto orcycles an otive fuel	r vehicles d	Food, be		Pharmace and medi goods, co and toile articles 2	ical osmetic t	Clothing, footwear leather g		Furniture and light equipme	ing	<b>M</b> otor ve	hicles 3
Period		Change f previous	rom year in %		Change for previous y			Change from previous year		Change from previous vear		Change from previous vear	general property of the control of t	Change from previous year	momo concepto, anticiado no titudo de la defendo de la def	Change from previous year
Period	1995 = 100		adjusted 1	1995 = 100		adjusted 1	1995 = 100		1995 = 100		1995 = 100	ín %	1995 = 100	in %	1995 = 100	in %
1996 1997 1998	101.3 100.9 101.9	+ 1.3 - 0.4 + 1.0	+ 0.3 - 0.9 + 0.7	100.2 99.1 99.5	+ 0.2 - 1.1 + 0.4	- 0.8 - 1.9 + 0.4	99.9 98.6 99.1	- 0.1 - 1.3 + 0.5	103.9 105.9 111.7	+ 3.9 + 1.9 + 5.5	99.2 97.2 95.8	- 0.8 - 2.0 - 1.4	98.4 95.8 98.6	- 1.6 - 2.6 + 2.9	105.6 109.1 113.8	+ 5.6 + 3.3 + 4.3
1997 July Aug. Sep.	102.5 91.2 98.2	+ 1.0 - 4.8 + 1.4	+ 0.4 - 5.7 + 0.9	97.9 89.7 96.8	- 0.6 - 7.0 + 0.2	- 1.4 - 7.9 - 0.3	98.4 96.4 94.2	- 1.2 - 4.0 + 2.8	103.8 94.7 102.1	- 1.0 - 5.7 + 2.2	94.6 75.1 100.1	+ 2.6 -15.0 - 9.9	78.2 93.2	- 0.7 - 8.0 + 1.3	122.2 96.3 104.6	+ 7.6 + 4.9 + 7.3
Oct. Nov. Dec.	106.7 102.6 119.8	+ 2.2 - 3.9 + 1.9	+ 1.7 - 4.5 + 1.4	105.5 102.8 124.2	+ 1.5 - 4.6 + 0.6	+ 1.0 - 5.4 + 0.1	102.5 98.4 116.6	+ 1.4 - 4.9 + 1.0	109.7 104.3 126.8	+ 3.0 + 3.4 + 8.7	116.0 102.3 128.1	+ 4.4 - 9.1 - 1.7	120.4	- 1.5 - 6.0 - 3.4	113.5 103.6 103.9	+ 6.5 + 0.2 + 9.9
1998 Jan. Feb. Mar.	93.2 88.8 109.7	- 1.4 + 0.2 + 8.3	- 1.3 + 0.1 + 8.1	93.0 86.4 100.4	- 1.8 - 0.2 + 2.7	- 1.6 - 0.4 + 2.6	92.6 88.1 96.8	- 1.7 + 0.5 - 2.1	105.0 100.8 112.7	+ 1.2 + 2.5 +11.0	91.3 71.0 90.3	+ 2.8 - 3.4 - 9.5	91.4 113.7	+ 1.3 + 1.2 +18.3	151.2	+ 0.3 + 1.8 +30.2
Apr. May June	101.4 101.0 97.2	- 4.5 + 1.5 - 2.3	- 5.2 + 0.7 - 3.0	100.3 97.6 92.2	- 0.9 + 0.3 - 2.1	- 1.7 - 0.4 - 2.6	103.4 100.3 94.5	+ 3.8 - 0.8 - 0.3	109.0 106.2 107.7	- 0.4 + 4.1 - 5.8	99.8 100.5 81.5	- 0.5 + 0.6 - 7.4	89.2 89.1	- 5.1 + 1.7 - 1.1	118.8	- 2.5
July Aug. Sep.	104.6 93.1 99.1	+ 2.0 + 2.1 + 0.9	+ 1.5 + 2.0 + 0.7	91.4	+ 2.2 + 1.9 + 0.6	+ 2.1 + 2.2 + 0.5			116.1 103.8 110.0		94.9 83.4 101.7	+ 0.3 +11.1 + 1.6	82.7 95.0	+ 0.6 + 5.8 + 1.9	124.6 100.2 108.3	+ 4.0 + 3.5
Oct. Nov. Dec.	104.8 107.5 122.7	- 1.8 + 4.8 + 2.4			- 1.9 + 3.0 + 1.4	- 1.7 + 3.3 + 1.5			116.1 114.3 138.2		108.8 104.5 121.6	- 6.2 + 2.2 - 5.1	111.2 123.8	+ 4.2 + 2.8	117.2 115.7	+13.1 +11.4
1999 Jan. Feb.	91.4 87.2	- 1.9 - 1.8				- 1.9 - 1.5			110.1 111.2	+ 4.9 +10.3		- 5.4 - 8.0				

Source: Federal Statistical Office. —  $\star$  Excluding value-added tax; figures from 1998 provisional. — 1 At 1991 prices. — 2 Retail sales in stores. —

<sup>3</sup> Including motor vehicle parts and accessories.

#### IX. Economic conditions

6. Labour market \*

		ti kirintii va- aassaayii ya aasaayii saasaa	**************************************			Persons in			***************************************				T	т
	Employed	1	~	Employees	1	employme	nt 2		Persons		Unemploy	ed		100
	TO THE PERSON NAMED IN COLUMN TO THE					Mining and			employed under	Persons under-				OR CHARLES
		Change fo			C	manu- factur-		Short-	employ- ment pro-	going vocational		Change		
		Change fr previous y			Change from previous	ing sector	Con- struction 3		motion schemes 4	further training		from previous	Unem- ploy-	
Period	Thou- sands	in %	Thou- sands	Thou- sands	year in %	Thousands					Thou- sands	year, thou- sands	ment rate <sup>5</sup> in %	Vacancies, thou- sands
	Germa	ny										d	***************************************	<b>!</b>
1996 1997	34,423 33,962	- 1.3 - 1.3		30,801 30,314	- 1.4 - 1.6		1,316 6 1,225	277	354	546	3,965	+ 353	10.4	
1998	8 33,970	± 0.0	+ 8		- 1.6 - 0.1	9 6,400	1,159	183 115	302 r 385		4,384 4,279	+ 419 - 105	11.4 11.1	337 422
1998 Mar. Apr.	33,629 33,745	- 0.5 - 0.4	- 159 - 133			6,368 6,371	1,150 1,168	170 143	250 r 308	302 318	4,623	+ 146	12.1	446
May June	33,856 34,021	- 0.2 - 0.0	- 67	30,182	- 0.3	6,374 6,398	1,172 1,177	119	r 348 r 396	341 352	4,421 4,197 4,075	+ 74 - 58 - 147	10 11.4 10.9 10.5	469 484 483
July Aug. Sep.	33,992 34,075 34,458	+ 0.2 + 0.3 + 0.4	+ 56 + 93 + 154	30,481	+ 0.2	6,435 6,464 6,474	1,177 1,183 1,186	65	r 437 r 468 r 496	335 341 384	4,134 4,095 3,965	- 220 - 277 - 343	10.7 10.6	467 466
Oct. Nov.	34,459 34,317	+ 0.6 + 0.5	+ 191 + 175	30,601	+ 0.4	6,447 6,435	1,176 1,163	90	r 520 r 528	412 411	3,892 3,946	- 343 - 399 - 376	10.3 10.1 10.2	432 393 364
Dec. 1999 Jan.	8 34,121	+ 0.5	+ 159			6,400 6,376	1,129 1,062	107	r 505	369	4,197	- 324	10.9	345
Feb. Mar.	And the second s		B ADDRESS STATE OF THE STATE OF					145 161 167	465 465 467	371 373 376	4,455 4,465 4,288	- 368 - 354 - 335	11.5 11.6 11.1	395 451 496
	Wester	n Germa	any											tan tan
1996 1997	28,156 27,884	- 1.1 - 1.0	- 308 - 272	25,052 24,770	- 1.2 - 1.1	5,943 5,753	897 6 836	206 133	76   68	308 j 248 j	2,796 3,021	+ 231	9.1	270
1998 1998 Mar.	8 27,915 27,712	+ 0.1	+ 31 - 34	24,785	+ 0.1	9 5,813 5,790	804 797	81 117		7 193 177	2,904 3,075	+ 225 - 117	9.8 9.4	282 342
Apr. May	27,778 27,849	- 0.1 + 0.1	- 20 + 15	24,725	- 0.0	5,790 5,791	812 815	98 I	63	185 193	2,952 2,825	- 36 - 63 - 119	10.0 10 9.5 9.1	363 377 383
June July	27,956 27,913	+ 0.1 + 0.2	+ 29 + 59			5,812 5,845	817 816	69 I		194	2,774	- 134	8.9	384
Aug. Sep.	27,974 28,248	+ 0.2 + 0.3	+ 64 + 90	24,913	+ 0.2	5,870 5,875	820 821	42 F		184 187 210	2,818 2,802 2,734	- 171 - 190 - 199	9.1 9.0 8.8	378 376 350
Oct. Nov. Dec.	28,249 28,137 8 28,001	+ 0.4 + 0.3 + 0.3	+ 110 + 91 + 84	24,997	+ 0.3	5,847 5,837 5,806	815 807 788	66   82   81   81   81   81   81   81   81	85 86 83	228 229	2,704 2,745	- 219 - 197	8.7 8.8	319 301
1999 Jan. Feb.						5,788 	747	114 123	83 83	210 214 218	2,885 3,025 3,023	- 180 - 210 - 191	9.3 9.7 9.7	290 331 372
Mar.	I Eastern	l	l  nv	I			1	125	86	224	2,897	- 178	9.3	409
1996	6,267	- 2.0	<del>'''</del>   - 129	F 740 i	2.21	F00 !	440.1							
1997	6,078 8 6,055	- 3.0 - 0.4	- 189 - 23	5,749 5,544 5,498	- 2.2 - 3.6 - 0.8	589 564 9 586	419 6 389 355	71 49 34 r	278 235 314	238 184 7 149	1,169 1,363	+ 122 + 194	15.7 18.1	57 56
1998 Mar.	5,917	- 2.1	- 125	,		578	353	53	190	125	1,375 1,548	+ 12 + 182	18.2 20.6	79 83
Apr. May	5,967 6,007	- 1.9 - 1.3	- 113 - 82	5,457	- 1.8	581 583	356 357	46 r 38 r		133 147	1,469 1,372	+ 137 + 60		92 101
June July	6,065 6,079	- 0.6 - 0.0	- 36 - 3			585 591	360 361	33 r 28 r	327	157	1,302	- 13	17.2	99
Aug. Sep.	6,101 6,210	+ 0.5 + 1.0	+ 29 + 64	5,568	+ 0.1	594 600	362 365	23 r 24 r	391	150 154 174	1,316 1,294 1,232	- 48 - 87 - 143	17.4 17.1 16.3	88   90   81
Oct. Nov. Dec.	6,210 6,180 8 6,120	+ 1.3 + 1.4 + 1.2	+ 81 + 84 + 75	5,604	+ 1.0	600 598 594	361 355	24 r 25 r	435 442	184 181	1,188 1,201	- 180 - 179	15.7 15.9	73 64
1999 Jan. Feb.			+ /3 			587	342 315	26 r 31 39	421 382 381	159 158 155	1,313 1,430 1,442	- 144 - 158 - 163	17.4	55 63 79 87
Mar.	l		1		1			42	382	153	1,392	- 163 - 157	19.1 18.4	87 l

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; from 1996 provisional. — 2 Including active proprietors. — 3 The figures refer to the economic classifications "Site preparation" and "Building of complete constructions or parts thereof; civil engineering". — 4 Employees involved in job creation schemes and receiving productive grants towards labour costs (up to December 1997 approved cases) and (from January 1998 approved, but from April 1998 statistically recorded) structural adjustment measures (SAM). — 5 Relative to the total

labour force. — 6 From March 1997, figures favourably affected by including, for the first time, building contractors who were identified in the 1995 survey of craft enterprises and are now required to report. — 7 Comparison with previous periods not possible because of the deletion of payments towards on-the-job training, vocational assistance measures and methodological changes in the collection of statistics. — 8 First preliminary estimate. — 9 From January 1998, figures favourably affected by including, for the first time, enterprises which were identified in the 1995 survey of craft enterprises and which are now required to report. — 10 From April 1998 calculated on the basis of new labour force figures.

# IX. Economic conditions

# 7. Prices Germany

	Consumer p	rice index fo	r all househo	olds		entrage				gan, antonius in Lightinger pagestine—mas in mo	Indices of	o pricos	
		By region		By product	group 1			an an an an an an an an an an an an an a	Index of propducer		foreign trac	e prices	Index of
	Total	Western Germany	Eastern Germany	Food	Other durable and non- durable consumer goods	Services excluding house rents	House rents	Overall con- struction price level 2	prices of industrial products sold on the domestic market 2	Index of producer prices of farm products	Exports	Imports	world market prices of raw materials 3
Period	1995 = 100	Accesses secretary access of the access of t	La construction of the second	A.,						1991 = 100	Service and the service of the servi	CONTRACTOR OF THE STATE OF THE	
	Index le	evel											
1995 1996 1997 1998	100.0 101.4 103.3 104.3	100.0 101.3 103.2 104.1	100.0 101.9 104.2 105.3	100.9	100.0 100.5 101.8 101.9	100.0 101.6 104.1 106.1	103.4	100.0 99.8 99.0 98.8	100.0 98.8 99.9 99.5	91.6 91.1 92.5 87.1	103.5	97.3 97.8 100.9 98.0	90.5 98.2 111.1 87.8
1997 May	103.0	102.8	103.9 104.0	103.0 103.4	101.4 101.2	103.0 103.6		99.1	99.9 100.0	96.6 93.1	104.9 105.2	100.8 100.6	112.4 108.8
June July Aug. Sep.	103.1 103.9 104.0 103.8		104.8 104.9 104.8		101.9 102.2 102.2	105.8	106.5 106.6	99.0	100.1 100.3 100.4	92.4 93.5 94.2	105.4 105.7	101.2 102.1 101.6	111.7
Oct. Nov. Dec.	103.7 103.7 103.9	103.5 103.6	104.7 104.6 104.8	101.4 101.6 102.3	102.4 102.3 102.1	104.6	106.8	98.7	100.3 100.3 100.2	92.4 93.2 93.0	105.6	101.5 101.2 101.0	114.7 110.0 106.1
1998 Jan. Feb. Mar.	103.9 104.1 104.0	103.7 103.9 103.8	104.8 105.1 104.9	103.5	101.8 101.6 101.7	105.9 105.6	107.5 107.6	2000	100.1 100.1 100.0		105.8 105.8	100.9 100.6 100.0	1
Apr. May June	104.1 104.4 104.5	104.4	105.0 105.4 105.5	104.3 104.5	101.9 102.0 101.9	105.7 106.2	107.9 108.0	99.1	100.0 100.0 99.9	90.9 88.8 89.3 88.2	105.5 105.5	99.8 99.2 98.3 97.9	92.1
July Aug. Sep.	104.8 104.6 104.4	104.5 104.2	105.6 105.4	102.5 101.9	102.2 101.8 102.0 101.9	107.6 106.5	108.1 108.3	99.0	99.7 99.5 99.4 98.9	86.7 85.8	105.2 104.9	97.3 96.5	85.6
Oct. Nov. Dec.	104.2 104.2 104.3	104.1 104.1	105.3 105.3	101.7 102.1	102.0 101.9	105.9 106.2	108.3 108.4	98.7	98.5 98.3 97.8	82.7 86.2	104.5 104.2	95.3 94.9	78.0 72.4
1999 Jan. Feb. Mar.	104.1 104.3 104.4	104.1 104.3	105.3 105.3	103.1 103.0		106.2	108.8	98.5		p 84.2	104.2		75.7
	Change	from pr	evious ye	arın %									Quantitative of the state of th
1995 1996 1997 1998	+ 1.7 + 1.4 + 1.9 + 1.0	+ 1.3	+ 1.9	+ 0.9 + 1.2	+ 0.5	+ 1.6 + 2.5	+ 3.4 + 2.8	- 0.2 - 0.8	- 1.2 + 1.1	- 0.5 + 1.5	5 + 0.2 5 + 1.5		+ 8.5 + 13.1
1997 May June	+ 1.6 + 1.6			+ 1.4	+ 0.8	+ 1.8	+ 2.9	)	+ 1.4	- 1.2	2 + 1.5	E .	+ 14.3
July Aug. Sep.	+ 2.2 + 2.4 + 2.2	+ 2.4	+ 2.6	+ 1.0 + 1.7	+ 1.5	+ 3.3	+ 2.9 + 2.7	- 0.8	+ 1.6	+ 1.3	3 + 2.4 2 + 2.2	+ 5.4 + 4.1	+ 21.1 + 10.7
Oct. Nov. Dec.	+ 2.1 + 2.2 + 2.0	+ 2.1	+ 2.5	+ 2.3 3 + 2.6	+ 1.3	3 + 3.6 3 + 3.4	+ 2.4	- 0.8	+ 1.1	+ 6.3	3 + 2.1 5 + 2.0	+ 3.1 + 2.0	+ 6.5
1998 Jan. Feb. Mar.	+ 1.3 + 1.2 + 1.2	2 + 1.2	+ 1.4	+ 1.4 3 + 1.4	± 0.0 + 0.3	+ 2.5	5 + 1.7 2 + 1.6	7 – 0.9 5	+ 0.7	+ 4.1 + 2.0	1 + 1.5	+ 0.1	- 12.8 - 14.5
Apr. May June	+ 1.5 + 1.4 + 1.4	+ 1.4	1 + 1.4	4 + 1.3 4 + 1.1	+ 0.6	5 + 2.0 7 + 2.1	5 + 1.5	5 ± 0.0		- 8.º - 4.º	1 + 0.6 1 + 0.3	- 1.6 - 2.3	5 – 18.1 3 – 18.4
July Aug. Sep.	+ 0.9	5 + 0.6	+ 0.1	7 + 0.8 6 + 0.4	B - 0.4 I - 0.3	+ 1.4 2 + 1.	4 + 1.4 1 + 1.6	± 0.0	Y	3 – 7.3 – 8.9	- 0.5 9 – 0.7	- 4.7 - 5.0	- 26.5 - 25.3
Oct. Nov. Dec.	+ 0.1 + 0.1 + 0.4	+ 0.! + 0.:	5 + 0.º 3 + 0.º	7 + 0.1 5 - 0.2	- 0.1 2 - 0.1	3 + 1. 2 + 0.	2 + 1.4 9 + 1.4	4 ± 0.0	- 1.8 - 1.9	3 – 11	3 - 1.0 3 - 1.3	- 5.8 - 6.0	3 - 29.1 0 - 31.8 0 - 24.1
1999 Jan. Feb. Mar.	+ 0 + 0 + 0	2 + 0.	2 + 0.	2 - 0.4	1 - 0	2 + 0.	3 + 1	2 + 0.1		1 P - 9.		5 - 5.0	- 21.5

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. —  $\bf 2$  Excluding value-added tax. —  $\bf 3$  HWWA index of raw material prices, on a Deutsche Mark basis.

#### IX. Economic conditions

# 8. Households' income Germany

Period 1994 1995 1997 p 1998 p 1996 1st qtr P 2nd qtr P 3rd qtr p 4th qtr p 1997 1st qtr p 2nd atr P 3rd qtr P 4th qtr P 1998 1st qtr P 2nd atr P 3rd qtr P 4th qtr

Gross wage salaries 1	s and	Name of Street	Net wages salaries o. 2		-	Governmen current tran		3	"Mass incor	ne" o, 4	ļ	Disposable	income 5	Private Savi	ng 6		Saving ratio 7
DM billion	Change from previou year in	IS	DM billion	Chang from previo year ir	us	DM billion	Change from previou year in	JS	DM billion	Chang from previo year ir	us	DM billion	Change from previous year in %	DM billion	Chang from previo year ir	us	%
1,512.2		1.6	1,015.7	-	0.2	515.8		4.0	1,531.5		1.2	2,173.4	3.4	267.4	_	1.7	12.
1,560.9 1,572.2 1,565.3 1,587.7	-	3.2 0.7 0.4 1.4	1,024.0 1,047.5 1,030.3 1,043.4	_	0.8 2.3 1.6 1.3	542.2 540.3 551.7 562.7	_	5.1 0.3 2.1 2.0	1,566.2 1,587.8 1,582.1 1,606.1	-	2.3 1.4 0.4 1.5	2,254.2 2,339.7 2,382.7 2,445.5	3.7 3.8 1.8 2.6	278.9 293.3 287.5 289.3		4.3 5.2 2.0 0.6	12. 12. 12. 11.
364.1 375.9 390.0 442.1	-	2.1 0.7 0.6 0.2	247.4 248.9 265.6 285.6		3.3 2.9 2.5 0.7	135.8 133.3 134.5 136.8	-	1.0 0.8 1.2 1.8	383.1 382.2 400.1 422.4	_	2.4 2.2 1.2 0.1	575.2 566.6 568.8 629.0	4.8 3.2 3.7 3.5	81.8 62.3 59.5 89.7		9.1 5.3 1.8 4.0	14. 11. 10. 14.
362.8 375.5 386.3 440.8	-	0.4 0.1 1.0 0.3	242.9 244.8 260.0 282.6	- - -	1.8 1.6 2.1 1.1	139.6 136.4 136.9 138.8		2.8 2.3 1.8 1.5	382.5 381.2 396.9 421.4	- - -	0.2 0.3 0.8 0.2	582.7 580.3 577.5 642.3	1.3 2.4 1.5 2.1	80.2 61.0 58.6 87.7	- - -	1.9 2.1 1.5 2.3	13. 10. 10. 13.
365.1 381.1 394.3 447.2		0.6 1.5 2.1 1.4	244.6 247.9 265.2 285.7		0.7 1.3 2.0 1.1	139.1 139.7 140.4 143.5	-	0.3 2.4 2.5 3.3	383.7 387.6 405.6 429.2		0.3 1.7 2.2 1.8	597.1 592.2 595.2 660.9	2.5 2.1 3.1 2.9	79.5 63.5 59.0 87.4	-	0.9 4.1 0.6 0.4	13. 10. 9. 13.

Source: Calculated by the Bundesbank on the basis of figures provided by the Federal Statistical Office. — o Modified definition as a result of the revision of the accounting of child benefit. — 1 Including employers' other social security expenditure (inter alia on company old-age pension schemes but excluding employers' contributions to social security funds); residence concept. — 2 After deducting wage tax payable on gross wages and salaries and employees' contributions to social security funds. From the beginning of 1996 including the child benefit payable to employees. — 3 Social

security pensions, maintenance payments and civil servants' pensions (net), less households' transfers to government. From the beginning of 1996 excluding the child benefit paid to employees, but including, as before, the child benefit paid to non-tax-payers. — 4 Net wages and salaries plus government current transfers. — 5 "Mass income" plus all households' property income and plus self-employed persons' private withdrawals from entrepreneurial income, less current transfers to non-residents. — 6 Including claims on company pension funds. — 7 Saving as a percentage of disposable income.

# 9. Pay rates and actual earnings Germany

	Overall econ	omy					Producing se	ctor (includin	g construction	n)	***************************************	
	Negotiated v	vage and sala	ry level 1	Marine Service Control	Wages and s		Negotiated v	vage and sala	ry level 1		Wages and	
	on an hourly	basis	on a monthly	y basis	per employed (work-place of		on an hourly	basis	on a monthly	y basis	per employ (work-place	
Period	1991=100	% from previous	4004 400	% from previous		% from previous		% from previous		% from previous		% from previous
renou	1991=100	year	1991=100	year	1991=100	year	1991=100	year	1991=100	year	1991=100	year
1991 1992 1993 1994	100.0 111.9 120.2 124.3	11.9 7.5 3.4	100.0 111.0 118.1 121.6	11.0 6.5 2.9	100.0 110.5 115.5 118.3	10.5 4.6 2.4	100.0 112.7 123.2 128.2	12.7 9.3 4.1	100.0 111.5 119.5 123.1	11.5 7.1 3.0	100.0 113.9 118.9 123.8	13.9 4.4 4.1
1995 1996 p 1997 p 1998 p	130.4 133.9 135.7 138.0	4.9 2.7 1.4 1.7	127.2 130.2 132.0 134.2	4.6 2.4 1.3 1.7	122.6 125.3 126.7 128.7	3.6 2.2 1.2 1.6	136.0 141.2 144.0 146.5	6.1 3.8 2.0 1.7	129.9 133.6 136.0 138.2	5.5 2.9 1.8 1.6	128.9 132.6 134.9 137.1	4.1 2.9 1.7 1.6
1998 1st qtr P 2nd qtr P 3rd qtr P 4th qtr P	126.3 127.2 142.2 156.4	1.4 1.8 1.9 1.8	122.8 123.6 138.2 152.1	1.3 1.7 1.8 1.7	119.8 123.9 127.1 143.5	1.3 1.9 1.9 1.0	132.5 134.7 156.7 162.3	0.6 2.1 2.1 2.1	125.1 127.0 147.7 153.0	0.5 2.0 2.0 2.0	127.8 137.8 132.0 149.8	1.2 1.9 1.5 1.8
1998 Mar. p	126.3	1.3	122.9	1.2			132.7	0.6	125.2	0.5	129.0	1.6
Apr. P May P June P	127.1 127.2 127.3	1.8 1.8 1.9	123.5 123.6 123.8	1.7 1.7 1.8			134.7 134.7 134.7	2.1 2.1 2.1	127.0 127.0 127.0	2.0 2.0 2.0	132.6 136.4 144.2	1.9 1.0 2.7
July P Aug. P Sep. P	171.2 127.6 127.8	1.8 2.0 2.0	166.4 124.1 124.2	1.7 1.9 1.9			200.2 134.9 134.9	1.9 2.2 2.2	188.7 127.2 127.2	1.8 2.0 2.1	135.1 130.3 130.7	1.1 1.8 1.6
Oct. p Nov. p Dec. p	127.9 213.5 127.9	2.0 1.6 1.9	124.3 207.5 124.4	1.9 1.6 1.8	Collection and an analysis of the second sec		135.1 216.6 135.2	2.0 2.1 2.1	127.4 204.2 127.5	1.9 2.0 2.0	134.1 172.1 142.9	0.8 1.1 3.5
1999 Jan. p Feb. p	129.5 129.5	2.6 2.6	125.8 125.9	2.5 2.5	. ]		137.8 137.9	4.0 4.1	129.9 130.1	3.9 4.0	128.0	0.0

<sup>1</sup> Current data are normally revised upwards on account of additional reports. — 2 Source: Federal Statistical Office. — 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

# 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	Foreign trade 1 2	Supple- mentary trade items 3 4	Services <sup>5</sup>	Factor income	Current transfers	Capital transfers	Financial account 6	Change in the monetary reserves at transaction values 7	Balance of unclassifiable transactions	Change in the Bundes- bank's net external assets at transaction values <sup>7</sup>
	DM million	One of the second secon									
1981 1982 1983 1984	- 7,195 + 14,305 + 14,410 + 30,627	+ 27,720 + 51,277 + 42,089 + 53,966	- 3,492 - 2,070 - 2,258 - 3,040	- 9,312 - 8,351 - 7,259 - 3,232	+ 3,388 + 22 + 7,488 + 13,569	- 25,498 - 26,573 - 25,651 - 30,636	- 1,843 - 1,902 - 2,033 - 1,992	+ 7,654 + 2,542 - 17,566 - 36,261	+ 633 - 8,381 + 5,359 + 2,056	+ 751 - 6,564 - 170 + 5,570	+ 2,283 - 3,078 + 4,074 + 3,099
1985 1986 1987 1988 1989	+ 54,226 + 88,214 + 83,864 + 94,395 + 109,234	+ 73,353 + 112,619 + 117,735 + 128,045 + 134,576	- 1,848 - 3,520 - 4,288 - 2,791 - 4,107	- 1,345 - 4,736 - 9,426 - 14,555 - 13,323	+ 13,638 + 11,381 + 9,378 + 16,630 + 26,872	- 29,572 - 27,530 - 29,535 - 32,933 - 34,784	- 2,501 - 2,147 - 2,186 - 2,029 - 2,064	- 53,373 - 76,783 - 40,282 - 122,721 - 110,286	- 5,043 - 11,187 - 37,901 + 27,662 - 5,405	+ 6,690 + 1,904 - 3,495 + 2,693 + 8,521	- 1,843 - 5,964 - 41,219 + 34,676 + 18,997
1990 ° 1991 1992 1993 8 1994 8	+ 81,428 - 28,374 - 21,064 - 14,887 - 36,532	+ 105,382 + 21,899 + 33,656 + 60,304 + 71,762	- 3,833 - 2,804 - 1,426 - 3,038 - 1,104	- 17,711 - 22,800 - 36,035 - 43,812 - 52,102	+ 32,859 + 33,144 + 33,962 + 27,373 + 4,852	- 35,269 - 57,812 - 51,221 - 55,714 - 59,940	- 4,975 - 4,565 - 1,963 - 1,915 - 2,637	- 89,497 + 12,614 + 69,792 + 21,442 + 57,871	- 11,611 + 9,605 - 52,888 + 22,795 + 2,846	+ 24,655 + 10,720 + 6,123 - 27,435 - 21,548	- 10,976 - 319 - 68,745 + 35,766 - 12,242
1995 8 1996 8 1997 8 1998 8	- 27,159 - 8,447 - 2,434 - 6,249	+ 85,303 + 98,538 + 116,467 + 128,579	- 4,722 - 4,209 - 6,149 - 3,659	- 52,361 - 53,145 - 56,928 - 61,796	+ 332 + 1,688 - 3,022 - 16,123	- 55,710 - 51,318 - 52,801 - 53,250	- 3,845 - 3,283 + 51 + 1,293	+ 63,492 + 23,244 - 709 + 23,487	- 10,355 + 1,882 + 6,640 - 7,128	- 22,134 - 13,397 - 3,549 - 11,403	- 17,754 + 1,610 + 8,468 - 8,231
1997 2nd qtr 8 3rd qtr 8 4th qtr 8	+ 3,700 - 5,458 + 7,575	+ 29,986 + 31,909 + 33,102	- 1,657 - 1,847 - 1,014	- 13,142 - 19,319 - 10,471	+ 645 - 746 - 1,572	- 12,133 - 15,454 - 12,471	- 543 + 1,391 - 926	+ 9,014 - 22,349 - 7,282	- 28 + 6,001 - 1,159	- 12,143 + 20,413 + 1,792	+ 461 + 6,537 - 431
1998 1st qtr 8 2nd qtr 8 3rd qtr 8 4th qtr 8	- 6,571 + 5,071 - 5,730 + 981	+ 28,084 + 34,979 + 32,601 + 32,915	- 274 - 1,318 - 1,005 - 1,062	- 14,507 - 15,226 - 19,786 - 12,278	- 4,050 - 3,984 - 3,178 - 4,911	- 15,825 - 9,380 - 14,362 - 13,683	+ 534 - 139 + 996 - 97	+ 25,339 + 4,515 + 20,722 - 27,089	- 2,531 - 2,199 - 1,134 - 1,264	- 16,771 - 7,248 - 14,854 + 27,469	- 982 - 1,989 - 484 - 4,777
1997 May 8 June 8	- 3,123 + 2,961	+ 8,424 + 11,852	- 340 - 733	- 4,771 - 5,388	- 2,984 + 1,659	- 3,451 - 4,428	- 362 + 85	+ 4,621 + 4,202	- 1,010 + 712	- 125 - 7,960	- 839 + 1,000
July 8 Aug. 8 Sep. 8	- 1,859 - 4,401 + 803	+ 10,905 + 7,503 + 13,501	- 641 - 833 - 373	- 5,864 - 6,767 - 6,689	- 1,166 + 846 - 426	- 5,094 - 5,149 - 5,211	+ 423 + 549 + 420	- 22,688 + 6,070 - 5,730	+ 3,289 + 1,960 + 752	+ 20,835 - 4,177 + 3,755	+ 3,392 + 2,298 + 847
Oct. 8 Nov. 8 Dec. 8	- 3,736 + 1,732 + 9,579	+ 9,794 + 11,388 + 11,920	- 332 - 508 - 174	- 5,605 - 3,515 - 1,352	- 2,159 - 504 + 1,091	- 5,436 - 5,129 - 1,906	- 386 - 468	+ 10,029 - 6,521 - 10,790	+ 505 - 252 - 1,413	- 6,727 + 5,427 + 3,091	+ 669 - 111 - 988
1998 Jan. 8 Feb. 8 Mar. 8	- 12,235 - 788 + 6,452	+ 5,126 + 11,085 + 11,873	- 194 - 283 + 203	- 7,064 - 3,949 - 3,493	- 4,680 - 1,612 + 2,242	- 5,423 - 6,029 - 4,372	- 238 + 321	+ 8,075 + 523 + 16,742	+ 63 - 1,471 - 1,124	+ 3,645 + 1,974 - 22,391	+ 428 - 1,051 - 359
Apr. 8 May 8 June 8	+ 1,594 + 789 + 2,689	+ 10,705 + 13,674 + 10,600	- 351 - 959 - 8	- 5,731 - 5,375 - 4,120	+ 900 - 3,631 - 1,253	- 3,929 - 2,920 - 2,531	- 40 - 365	- 21,558 + 7,865 + 18,209 + 10,808	- 984 - 1,037 - 178 + 742	+ 20,684 - 7,577 - 20,355 - 10,751	- 910 - 1,094 + 15 + 856
July 8 Aug. 8 Sep. 8	- 1,214 - 2,852 - 1,664	l .	i i	- 6,768 - 6,387 - 6,631	- 3,462 + 1,328 - 1,044	- 3,875 - 5,594 - 4,893 - 5,220	+ 594 - 14	+ 10,808 + 4,120 + 5,795 - 12,029	+ 742 - 1,155 - 722 - 763	- 707 - 3,395 + 14,351	- 327 - 1,012 + 173
Oct. 8 Nov. 8 Dec. 8 1999 Jan. 8	- 1,476 + 3,653 - 1,196 - 8,394	+ 15,309 + 5,590	- 74 - 300 - 689 - 456	- 6,388 - 3,664 - 2,226 - 6,681	- 1,810 - 2,142 - 959 - 7,329	- 5,550 - 2,913	+ 275 - 289	+ 18,759 - 33,819 - 73,553	- 7,211 + 6,711 + 24,340	- 15,476 + 28,594 + 56,646	- 12,471 + 7,522 - 27,072
Feb. 8	+ 350	ž	1	\$	1		à	1	+ 1,948	- 10,716	+ 3,634
1999 Jan. 8 Feb. 8	- 4,292 + 179		1			- 1,395 - 2,635		- 37,607 + 4,458	+ 12,445 + 996	+ 28,963 - 5,479	- 13,841 + 1,858

o From July 1990 including the external transactions of the former GDR. — 1 Special trade according to the official foreign trade statistics: imports c.i.f., exports f.o.b. — 2 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. — 3 Mainly

warehouse transactions for account of residents and deduction of goods returned. — 4 See footnote 2. — 5 Excluding the expenditure on freight and insurance included in the c.i.f. import value. — 6 Capital exports: – . — 7 Increase: – . — 8 Figures subject to significant uncertainty owing to changes in the method of data collection in foreign trade.

# X.Foreign trade and payments

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

Up to end-1998 in DM million, from 1999 in euro million

					1998 1				1999 p	
iroup of countries / Country		1996	1997	1998 1	September	October	November	December	January	February
III countries 2	Exports Imports Balance	788,937 690,399 + 98,538	888,616 772,149 + 116,467	949,675 821,096 + 128,579	76,957 65,991 + 10,966	83,976 71,960 + 12,016	82,495 67,186 + 15,309	75,553 69,963 + 5,590	35,381 30,882 + 4,499	39,01: 33,13: + 5,88
I. Industrialised countries	Exports Imports Balance	602,346 530,496 + 71,850	667,038 585,621 + 81,417	723,708 615,213 + 108,495	58,028 47,826 + 10,202	64,663 53,126 + 11,537	63,235 50,309 + 12,927	57,046 52,754 + 4,292		
1. EU member countries		453,715 388,558 + 65,157	493,554 424,430 + 69,124	535,475 440,746 + 94,729	42,514 33,211 + 9,304	48,198 38,060 + 10,138	46,347 35,883 + 10,464	41,855 37,580 + 4,275		
of which EMU member countries	Exports Imports	350,928 310,391	375,758 337,439	408,655 352,012	32,583 26,855	37,014 30,030	35,626 29,065	31,610 29,814		
of which	Balance	+ 40,537	+ 38,319	+ 56,643	+ 5,728	+ 6,984	+ 6,561	+ 1,796		
Austria	Exports Imports Balance	45,506 27,275 + 18,231	46,680 29,082 + 17,598	50,101 32,055 + 18,046	3,981 2,442 + 1,540	4,670 3,021 + 1,649	4,356 2,789 + 1,567	3,979 2,723 + 1,255		
Belgium and Luxemburg	Exports Imports	49,832 43,906	51,666 47,421	53,896 45,915	4,591 3,846	4,838 4,022	4,648 3,879	4,190 3,771		
France	Balance Exports Imports	+ 5,926 87,911 73,681	+ 4,245 94,420 81,090	+ 7,981 105,775 90,145	+ 745 8,376 6,964	+ 817 9,833 7,466	+ 770 9,441 7,550	+ 418 8,246 7,644	·	
Italy	Balance Exports	+ 14,230 59,271 58,343	+ 13,330 65,053 61,074	+ 15,630 70,355 63,307	+ 1,413 5,636	+ 2,367 6,210	+ 1,891 6,137	+ 602 5,015		
Netherlands	Imports Balance Exports	+ 928	+ 3,978	+ 7,048 65,062	4,515 + 1,121 4,995	5,699 + 512 5,695	5,091 + 1,046 5,251	5,362 - 347 5,017	 	
Fooin	Imports Balance	61,097 - 819 28,959	67,537 - 4,483	65,561 - 499	4,826 + 169	5,500 + 195	5,255 - 5	5,627 - 610		
Spain	Exports Imports Balance	22,856 + 6,103	33,071 25,941 + 7,130	38,414 28,290 + 10,124	3,026 2,251 + 775	3,507 2,041 + 1,466	3,382 2,235 + 1,147	3,080 2,356 + 724		
Sweden	Exports Imports Balance	19,042 14,589 + 4,453	20,630 14,819 + 5,812	21,722 15,990 + 5,732	1,895 1,236 + 660	2,025 1,411 + 613	1,929 1,292 + 637	1,768 1,329 + 439	 	
United Kingdom	Exports Imports Balance	63,667 47,486 + 16,181	74,962 54,342 + 20,620	81,850 56,226 + 25,623	6,175 3,851 + 2,324	6,829 5,138 + 1,691	6,796 4,244 + 2,552	6,653 5,203 + 1,450	 	
Other European industrial countries	Exports Imports	57,088 50,631	62,869 56,705	66,591 57,843	5,446 5,017	5,759 5,051	6,317 4,747	5,264 4,978		
of which Switzerland	Balance Exports	+ 6,456 37,791	+ 6,164 39,847	+ 8,748 42,636	+ 429 3,428	+ 708 3,767	+ 1,570 4,287	+ 287 3,406		
3. Non-European	Imports Balance Exports	27,397 + 10,395 91,544	29,858 + 9,989 110,615	32,487 + 10,149 121,643	2,810 + 618 10,068	2,962 + 806 10,706	2,729 + 1,558 10,571	2,948 + 458 9,927		
industial countries of which	Imports Balance	91,307 + 237	104,487 + 6,128	116,624 + 5,018	9,599 + 469	10,016 + 690	9,678 + 892	10,196 - 270		
Japan	Exports Imports Balance	21,191 34,440 - 13,248	20,476 37,478 - 17,002	18,294 40,651 - 22,357	1,427 3,287 – 1,861	1,593 3,534 – 1,941	1,600 3,620 - 2,020	1,451 3,190 - 1,739		
United States	Exports Imports	60,114 49,488	76,617 59,039	89,303 67,311	7,442 5,702	7,973 5,697	7,901 5,433	7,467 6,323	 	
II. Countries in transition	Exports Imports	+ 10,626 82,665 80,347	+ 17,578 102,960 96,792	+ 21,992 115,191 108,441	+ 1,739 9,264 9,765	+ 2,276 9,646 9,901	+ 2,469 9,579 9,039	+ 1,144 9,193 9,630	 	
of which Central and east	Balance Exports	+ 2,317 70,024	+ 6,168 90,282	+ 6,750 101,227	- 501 8,038	- 255 8,423	+ 539 8,512	- 437 7,839		
European countries in transition China 3	Imports Balance Exports	61,846 + 8,179 10,887	74,304 + 15,978 10,629	84,130 + 17,097 11,900	7,556 + 482 1,071	7,669 + 754 1,055	6,976 + 1,536 916	7,578 + 262 1,227		
II. Developing countries	Imports Balance Exports	18,012 - 7,124 101,677	21,534 - 10,906 116,124	22,965 - 11,065 108,921	2,118 1,047 9,140	2,118 - 1,062 9,097	1,965 - 1,049 9,125	1,974 - 747 9,068		
	Imports Balance	78,699 + 22,978	88,792 + 27,332	89,332 + 19,589	7,501 + 1,639	7,931 + 1,166	6,898 + 2,227	7,413 + 1,656	 	
of which Newly industrial- ising countries in	Exports Imports	44,456 35,725	48,444 40,094	36,658 41,678	2,951 3,576	2,775 3,889	2,916 3,460	2,705 3,464		
south-east Asia 4 OPEC-countries	Balance Exports Imports	+ 8,730 16,708 12,525	+ 8,350 20,024 13,932	- 5,020 19,214 11,201	- 624 1,713 942	- 1,114 1,597 1,001	- 544 1,788 820	- 759 1,657 946		

<sup>\*</sup> 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 The figures on "All countries" include revisions which have not yet been broken down by

region. — 2 Including fuel and other supplies for ships and aircraft and other data not classifiable by region. — 3 Excluding Hong Kong. — 4 Brunei, Hong Kong, Indonesia, Malaysia, Philippines, Singapore, South 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 euro million

		KIDANINI - KIDANI						***************************************	and the second second		Sales			erongeon property design	and the state of t	lan esperanente agre-			Ī	EN-MESSER MESSERY	X 40 /40 / 100 4 / 100 /	
	Service	25				T		CARCACTORNAL SERVICE		17;11:000.001.00.00.00.00.00.00.00.00.00.00.00	***************************************	<del># +*</del> 1.000(#*+*##10000#***##1	046-				etrative vetrom sections					
						-							Otnei	services	PARK ORNERS TOWN	Mary to May the server	***************************************		e de la companya de l			
						-									of whi	ch	******************	MADE STATE OF STATE O				
Period	Total		Travel		Trans- portation		Financ service		Patent and licence	-	Gover transa	nment ctions 2	Total		Service selfem person	oloyed	and as	sembly	Compe sation o employ	of	Invest incom	
1994	_	52,102	_	49,310	+ 4,9	63	+	1,650	_	3,421	+	8,771	-	14,756	-	1,680	-	1,254	+	347	+	4,506
1995 1996 1997 1998		52,361 53,145 56,928 61,796	- - -	49,046 50,527 51,723 53,666	+ 5,0 + 4,8 + 6,2 + 5,9	40 11	+ + +	2,675 2,652 2,310 3,062	- -	4,020 3,774 2,603 2,879	+ + + +	6,848 6,699 6,634 5,572	- - - -	13,036 17,757		1,765 2,180 2,405 2,600	- - - -	955 1,216 2,044 3,039	_	1,417 1,779 1,764 1,821	+ + - -	1,749 3,467 1,258 14,302
1997 2nd qtr 3rd qtr 4th qtr	-	13,142 19,319 10,471	- -	13,090 18,138 9,976	+ 1,8 + 1,5 + 1,7	32	+ + +	513 737 361	- - -	608 380 786	+ + +	1,897 1,935 1,187	- - -	3,731 5,005 2,981	- - -	694 574 623	- - -	619 296 272	-	486 873 502	+ + -	1,131 127 1,069
1998 1st qtr 2nd qtr 3rd qtr 4th qtr	-	14,507 15,226 19,786 12,278		10,445 13,391 19,060 10,770	+ 1,2 + 1,5 + 1,4 + 1,6	30 26	+ + +	898 871 558 735	- - - -	577 766 770 767	+ + + +	1,996 1,040 1,272 1,264	- - -	7,646 4,510 3,212 4,425	- - -	583 715 629 674	- - - -	718 1,031 554 735	+ - -	139 513 911 537	- - -	4,189 3,471 2,267 4,375
1998 Apr. May June	_	5,731 5,375 4,120	- -	4,452 4,012 4,927	+ 6	78 08 44	+ + +	590 108 173	- - -	305 331 129	+ + +	344 321 375	- - -	2,287 2,069 155		234 236 245	 - +	442 632 43	-	164 175 174	+ - -	1,065 3,457 1,078
July Aug. Sep.		6,768 6,387 6,631		5,710 6,955 6,395	+ 3	17 55 54	+ + +	237 221 99	- - -	229 247 294	+++++	436 405 430	-	2,019 166 1,027		223 248 157	- - +	628 33 108		302 305 304	- + -	3,160 1,632 740
Oct. Nov. Dec.	-	6,388 3,664 2,226		4,918 2,876 2,977	+ 4	30 27 29	+ + +	155 215 366	- - -	291 287 189	+ + +	485 409 370	- - -	2,250 1,552 624	-	163 268 242	- - +	446 347 57		177 210 150	- - -	1,634 1,931 810
1999 Jan. Feb.		3,416 2,239	-	2,211 1,686		34 10	++	18 35	_	107 132	+ +	218 165	-	1,300 831	- -	176 133	_	134 121	+ -	18 6	_	3,765 679

<sup>1</sup> Excluding the expenditure on freight included in the c.i.f. import value. — 2 Including the receipts from foreign military agencies for goods and ser-

vices supplied. — 3 Engineering and other technical services, research and development, commercial services etc. — 4 Wages and salaries.

# 4. Current transfers of the Federal Republic of Germany (Balances)

# 5. Capital transfers (Balances)

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

DM million / euro million

	Dead Section 1	Public 1			ALLON AND ALLON	Private 1				
			International Organisation	; <b>2</b>			vanesterbare una darie da servici	andram factoristics and andram and andram and andram and andram and and andram and and andram and and andram and and andram and and andram and and andram and andram and andram and andram and andram and andram and andram and andram and andram and andram and andram and andram and andram and andram and andram and andram andra		Becand the control of
	-			of which European	Other current public	Total	Remittances current by foreign private workers transfers	valued of the last	Public 1	Private 1
Period	Total	Total	Total	Communities	transfers 3					
1994	- 59,940	- 44,588	- 34,904	- 31,698	- 9,684	- 15,352	– 7,500 <b>–</b> 7,8	352 – 2,63	7 – 2,323	- 314
1995 1996 1997 1998	- 55,710 - 51,318 - 52,801 - 53,250	- 40,247 - 35,306 - 36,849 - 37,381	- 33,188 - 30,699 - 31,534 - 33,184	- 29,961 - 27,576 - 28,525 - 30,407	- 7,060 - 4,607 - 5,315 - 4,198	- 15,463 - 16,013 - 15,952 - 15,869	- 7,401 - 8,6 - 7,519 - 8,6	363 - 3,84 512 - 3,28 133 + 5 933 + 1,29	3 – 2,617 1 – 2,821	+ 549 - 666 + 2,873 + 3,735
1997 2nd qtr 3rd qtr 4th qtr	- 12,133 - 15,454 - 12,471	- 8,236 - 11,276 - 8,747	- 7,225 - 9,747 - 7,482	- 6,806 - 8,886 - 6,695	- 1,011 - 1,529 - 1,266	- 3,897 - 4,178 - 3,723	- 1,880 - 2,	)17 – 54 299 + 1,39 344 – 92	1 – 560 5 – 799	- 12 + 1,952 - 127
1998 1st qtr 2nd qtr 3rd qtr 4th qtr	- 15,825 - 9,380 - 14,362 - 13,683	- 11,895 - 5,463 - 10,155 - 9,868	- 10,310 - 6,114 - 8,502 - 8,258	- 9,232 - 5,804 - 7,631 - 7,740	- 1,585 + 650 - 1,653 - 1,610	- 3,929 - 3,917 - 4,207 - 3,816	- 1,734 - 2, - 1,734 - 2,	195 + 53 183 - 13 173 + 99 082 - 9	9 – 484 6 – 506	+ 1,113 + 344 + 1,502 + 776
1998 Apr. May June	- 3,929 - 2,920 - 2,531	- 2,685 - 1,503 - 1,276	- 1,643	- 2,302 - 1,535 - 1,967	- 268 + 140 + 779	- 1,245 - 1,417 - 1,255	- 578 -	567 + 26 339 - 4 577 - 36	0 – 156 5 – 161	+ 432 + 116 - 204
July Aug. Sep.	- 3,875 - 5,594 - 4,893	- 2,391 - 4,259 - 3,506		- 1,406 - 3,205 - 3,020	- 414 - 792 - 447	- 1,484 - 1,336 - 1,387	- 578 -	906 + 41 758 + 59 809 - 1	4 – 156	+ 604 + 750 + 148
Oct. Nov. Dec.	- 5,220 - 5,550 - 2,913	- 3,922 - 4,257 - 1,689	- 3,386 - 3,664 - 1,208	- 3,244 - 3,356 - 1,140	- 535 - 593 - 481	- 1,298 - 1,293 - 1,224	- 578 -	720 - 8 715 + 27 646 - 28	5 – 246 9 – 434	+ 145
1999 Jan. Feb.	- 1,395 - 2,635			- 388 - 1,321	- 231 - 300	- 601 - 710		315 + 49 424 - 15		

<sup>1</sup> 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
- 6. Financial account of the Federal Republic of Germany

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

				1998	<del></del>	<del></del>	·		1999		
em	1996	1997	1998	1st qtr	2nd qtr	3rd qtr	4th qtr	Dec.	Jan.	Feb.	
I. Net German investment abroad					THE PARTY OF THE P						
(Increase/capital exports: –)	- 192,463	- 382,252	- 559,297	- 164,518	- 150,409	- 58,758	- 185,612	- 16,629	- 123,522	+ 21,1	
1. Direct investment 1	- 76,483	- 69,859	- 152,401	- 53,387	- 22,054	- 6,914	- 70,045	- 1,884	- 3,937	_ 1,9	
Equity capital	- 35,614	- 41,913	- 104,975	- 9,530	- 18,037	- 13,637	- 63,771	- 3,950	- 1,104	_ 1,1	
Reinvested earnings 2	- 9,155	- 6,200	- 6,000	- 1,500	- 1,500	- 1,500	- 1,500	- 500	- 256	- 2	
Other capital <sup>3</sup>	- 31,714	- 21,746	- 41,427	- 42,358	- 2,518	+ 8,223	- 4,774	+ 2,566	- 2,578	- 5	
2. Portfolio investment	- 46,018	- 154,081	- 246,021	- 65,715	- 77,850	- 37,514	- 64,942	- 19,378	- 17,707	- 20,2	
Equities 4 Investment fund certificates 5	21,931	- 62,598	- 108,493	- 33,130		- 23,030	- 19,379			- 3,!	
Bonds and notes 6	- 4,274 - 20,572	- 14,935 - 76,627	- 21,045 - 109,234	- 6,882 - 23,996		- 3,608 - 11,518	- 2,761 - 36,476	+ 920 - 12,875	- 737 - 8,015	- 1, - 16,4	
Money market instruments	+ 759	+ 78	- 7,249	1		+ 643	- 6,326	- 881		1	
3. Financial derivatives 7	- 8,842	- 15,062	- 11,982	- 4,351	- 7,418	+ 4,178	- 4,390	+ 1,243	- 666	+ 1,1	
4. Credit transactions	- 57,105	- 138,896	- 141,324	- 39,471	- 41,769	- 14,946	- 45,138	+ 3,955	- 101,056	1	
Credit institutions 8	- 60,710	- 141,136	- 140,352		- 40,639	- 20,374	- 80,686	- 28,620	- 76,470	+ 50,0	
Long-term	- 16,107	- 54,128	- 66,270			- 18,879	- 13,502	- 10,609	- 8,355	- 1,3	
Short-term	- 44,603	- 87,008	- 74,082	+ 19,780	- 25,184	- 1,495	- 67,183	- 18,011	- 68,115		
Enterprises and individuals 8	+ 3,686	+ 5,759	115	- 38,204	+ 3,036	+ 2,969	+ 32,084	+ 29,017	+ 6,318	- 9,4	
Long-term	- 1,766	- 562		:	+ 2,152	+ 933	+ 1,009	- 987	- 163	-	
Short-term 10	+ 5,452	+ 6,321	- 4,705	- 38,698	+ 884	+ 2,036	+ 31,074	+ 30,004	+ 6,481	- 9,3	
General government	- 595	- 4,019	- 706	- 2,864	- 4,166	+ 2,209	+ 4,115		+ 2,707	+ 4	
Long-term Short-term	- 1,326 + 730	- 3,110 - 910	- 1,722 + 1,016	- 573 - 2,291	- 149 - 4,016	- 695 + 2,904	- 305 + 4,419	- 113 + 4,320	- 59 + 2,766	+ 4	
Bundesbank	+ 515	+ 500	- 151		- 4,010	+ 250	- 651	- 651	- 33,611	+ 1,2	
5. Other investment 9	- 4,015	- 4,354	- 7,569	- 1,593	- 1,317	- 3,562	- 1,097	- 564	- 157	''	
3. Other investment	4,013	4,354	1,505	1,555	- 1,517	- 3,502	- 1,037	- 504	- 137	_	
II. Net foreign investment in Germany											
(Increase/capital imports: +)	+ 215,707	+ 381,543	+ 582,784	+ 189,857	+ 154,924	+ 79,480	+ 158,522	- 17,191	+ 85,915	- 16,6	
1. Direct investment 1	+ 8,482	+ 16,656	+ 34,983	+ 48,026	+ 11,221	- 18,956	- 5,308	- 1,417	+ 2,618	<b> </b> - '	
Equity capital	+ 3,604	+ 6,155	+ 12,374	+ 3,453	+ 6,280	- 1,356	+ 3,997	+ 1,006	+ 110	ļ <sub>+</sub>	
Reinvested earnings 2	- 6,818	- 800	-	-	-	-	-	-	-		
Other capital <sup>3</sup>	+ 11,695	+ 11,301	+ 22,610	+ 44,573	+ 4,941	- 17,600	- 9,305	- 2,423	+ 2,508	- 7	
2. Portfolio investment	+ 142,060	+ 158,462	+ 255,465	+ 44,504	+ 72,751	+ 85,524	+ 52,686	+ 5,866	+ 16,380	+ 8,3	
Equities 4	+ 22,064	+ 27,450							•		
Investment fund certificates Bonds and notes 6	- 2,319	- 4,142	<ul><li>2,768</li><li>+ 147,873</li></ul>		- 1,199	- 466	- 1,415	.,	+ 1,289		
Money market instruments	+ 102,850 + 19,465	+ 122,912 + 12,242		+ 36,320 + 8,072	+ 21,568 + 3,030		+ 21,560 - 5,414	+ 14,677 - 6,132	+ 16,606 - 1,601	+ 3,6 + 2,8	
3. Credit transactions		+ 207,193	·	+ 97,414	-		+ 111,148		+ 66,923	_ 24,9	
Credit institutions 8			+ 281,202			· ·	+ 108,286	,			
Long-term	+ 39,236	E0 224						<ul><li>23,292</li><li>9,475</li></ul>	+ 62,964 + 3,457	- 26,3 + 3,3	
Short-term	+ 16,445		+ 218,167								
Enterprises and individuals 8	+ 5,712	+ 15,865	+ 10,076	+ 11,262	- 4,853			- 1,631	+ 693	+ 2,5	
Long-term	+ 623	- 959			•			,	+ 323		
Short-term 10	+ 5,089	+ 16,823	+ 897	+ 11,955	- 8,557	- 3,459	+ 959	3,371	+ 370	+ 2,!	
General Government	+ 5,523	- 13,038		- 560			- 1,452		,		
Long-term Short-term	+ 2,211 + 3,312	- 7,351 - 5,687	- 8,361	~ 512			- 5,383				
Bundesbank	1	•	,	- 48							
	- 1,773			- 71			·			- 3	
4. Other investment	+ 22	- 768	- 63	- 87	- 11	+ 38	- 4	- 5	- 5	-	
I. Balance of all statistically											
recorded financial movements											
(Net capital exports: –)	+ 23,244	- 709	+ 23 487	+ 25,339	+ 4515	+ 20,722	- 27.089	- 33,819	- 37,607	+ 4,4	

<sup>1</sup> From 1996, new definition for direct investment. — 2 Estimated. — 3 Loans and real property. — 4 Including participation rights. — 5 From 1991 including accumulated earnings. — 6 From 1975 excluding accrued interest. — 7 Options, whether or not evidenced by securities, and financial futures contracts. — 8 The transaction values shown here are mostly derived from changes in stocks. As far as possible, purely statistical changes have

been eliminated. The transaction values of the balance of payments in short-term credit transactions may therefore deviate from the changes in stocks shown in Table X.9. — 9 In particular, subscriptions of the Federal Government to International Organisations. — 10 The figure for the latest month mentioned includes financing and trade credit flows that are attributable to direct investment.

# X. Foreign trade and payments

# 7. External position of the Bundesbank \*

	mi	

	Monetary rese	erves and othe	r claims on nor	residents				Liabilities to n	on-residents		
		Monetary rese	erves								
End of year or month	Total	Total	Gold	Foreign currency balances 1	Reserve position in the Inter- national Monetary Fund and special drawing rights	Claims on the ECB <sup>2</sup> (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
1993	122,763	120,143	13,688	61,784	8,496	36,176	2,620	39,541	23,179	16,362	83,222
1994	115,965	113,605	13,688	60,209	7,967	31,742	2,360	24,192	19,581	4,611	91,774
1995	123,261	121,307	13,688	68,484	10,337	28,798	1,954	16,390	16,390	-	106,871
1996	120,985	119,544	13,688	72,364	11,445	22,048	1,441	15,604	15,604	-	105,381
1997	127,849	126,884	13,688	76,673	13,874	22,649	966	16,931	16,931	-	110,918
1998	135,085	134,005	17,109	100,363	16,533	-	1,079	15,978	15,978	-	119,107
1997 Sep.	114,457	113,517	13,688	67,287	11,179	21,363	941	16,203	16,203	-	98,254
Oct.	114,100	113,159	13,688	67,903	11,139	20,430	941	16,367	16,367		97,733
Nov.	114,367	113,427	13,688	67,687	11,622	20,430	941	16,506	16,506		97,861
Dec.	127,849	126,884	13,688	76,673	13,874	22,649	966	16,931	16,931		110,918
1998 Jan.	127,904	126,939	13,688	75,841	14,842	22,568	966	17,296	17,296	_	110,608
Feb.	128,968	128,252	13,688	76,819	15,178	22,568	716	17,466	17,466	_	111,502
Mar.	130,030	129,315	13,688	77,882	15,177	22,568	716	18,230	18,230	_	111,800
Apr.	130,743	130,028	13,688	78,267	15,248	22,825	716	18,305	18,305		112,438
May	131,839	131,123	13,688	79,189	15,347	22,900	716	18,248	18,248		113,590
June	132,198	131,483	13,688	78,771	16,125	22,900	716	18,440	18,440		113,758
July	131,745	131,029	13,688	77,094	17,184	23,064	716	18,554	18,554	-	113,191
Aug.	132,596	132,130	13,688	78,143	17,236	23,064	466	19,131	19,131	-	113,465
Sep.	133,401	132,936	13,688	78,525	17,659	23,064	466	18,840	18,840	-	114,561
Oct. Nov. Dec.	134,128 140,284 135,085	133,662 139,818 134,005		79,380 85,429 100,363	17,473 17,580 16,533	23,122 23,122 -	466 466 1,079	19,776 14,516 15,978	19,776 14,516 15,978		114,351 125,768 119,107

<sup>\*</sup> 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

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.

New table 1

# 8. External position of the Bundesbank in the European monetary union \*

Euro million

Mone	tary reser	ves and other c	laims on non-res	idents							
		Monetary rese	rves								
		national Monetar		position in the Inter- national Monetary Fund and special drawing	Foreign currency reserves	Other claims on non-euro- area residents 2	Claims within the Eurosystem	Other claims on residents in other EMU member countries	Liabilities to non-residents	Net external position of the Bundesbank (col.1 less col.9)	
1	MARION COMPTHE CONTROL OF THE CONTRO	2	3	4	5	6	7	8	9	10	
	95,316	93,940	29,312	8,461	56,167	140	1,225	11	8,169	87,146	
	116,482 114,235	1		3	45,562 45,878	1	1	21 6	15,494 15,106	100,988 99,129	

End of year or month 1998 Dec. 3 1999 Jan.

Feb.

on the title page of the Statistical Section. — 2 Including loans to the World Bank. — 3 Based on the euro opening balance sheet of the Bundesbank as at January 1, 1999.

<sup>\*</sup> Assets and liabilities vis-à-vis all EMU member countries and non-EMU member countries. Within a quarter the stock figures are computed on the basis of cumulative transaction values. At the end of each quarter the stock figures are shown on the basis of revaluation at market rates. — 1 See note

- X. Foreign trade and payments
- 9. Assets and liabilities of enterprises in Germany (other than banks) vis-à-vis non-residents \*

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

			Divi illillion,						The same and the s					
	Claims on I	non-residen	ts					Liabilities t	o non-resid	ents				
			Claims on	oreign non	hanke	**************************************	***************************************		***************************************		o foreign no	n hanks		
			Ciaiiiis Oil	oreign non			*****			Liabilities to	loreign no	T		
					from trade	credits						from trade	credits	
		Balances		_					Loans					
End of year		with foreign		from financial		Credit terms	Advance payments		from foreign		from financial		Credit terms	Advance
or month	Total	banks	Total	operations	Total	granted		Total	banks	Total	operations	Total	used	payments received
					NAMES AND ADDRESS OF THE PARTY OF									
	All cou	ntries												
1995	200.007	150.756	1 240 224 1	06 777	161 504	446.040.1	445041	222.040.0	72.042	2.50.005				
1996	398,987 441,888	150,756 155,956	248,231 285,932	86,727 114,420	161,504 171,512	146,910 155,722	14,594 15,790	322,819 351,943	73,813 73,713	249,006 278,230	137,314 162,435	111,692 115,795	73,315 75,721	38,377 40,074
1997	461,760	141,722	320,038	132,372	187,666	172,843	14,823	392,071	80,743	311,328	181,987	129,341	85,746	43,595
1998	502,610	140,729	361,881	169,889	191,992	176,485	15,507	424,140	81,092	343,048	215,528	127,520	87,576	39,944
1998 Nov.	535,288	167,093	368,195	169,797	198,398	182,554	15,844	426,815	82,994	343,821	214,308	129,513	86,601	42,912
Dec.	502,610	140,729	361,881	169,889	191,992	176,485	15,507	424,140	81,092	343,048	215,528	127,520	87,576	39,944
1999 Jan.	251,064	66,585	184,479	88,083	96,396	88,413	7,983	219,970	42,908	177,062	113,559	63,503	42,350	21,153
Feb. P		68,593	!	1	1	1	1	!	41,925			l!		
	EU cou	ntries												
1995	262,908	138,155	124,753	44,757	79,996	71,388	8,608	190,620	62,867	127 752 1	77 164	FO F00 i	41 405	0.104
1996	287,183	141,428	145,755	63,748	82,007	73,261	8,746	204,124	62,940	127,753 141,184	77,164 89,223	50,589 51,961	41,405 41,443	9,184 10,518
1997	287,024	130,611	156,413	68,161	88,252	80,199	8,053	236,747	68,777	167,970	110,157	57,813	46,097	11,716
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
1998 Nov. Dec.	340,045 307,523	157,475	182,570	85,604	96,966	88,201	8,765	269,111	70,949	198,162	138,920	59,242	46,688	12,554
		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 Jan. Feb. p	152,176 	61,487 63,456	90,689 	43,570	47,119 	42,424	4,695	135,857	35,736 34,829	100,121	71,327	28,794	22,534	6,260
1 65. 1						1	8	1	34,023 !	!	!	ا	1	
	of whic	of which: EMU member countries												
1995	167,412	72,365	95,047	34,713	60,334	54,020	6,314	145,198	46,143	99,055	60,018	39,037	31,982	7,055
1996	171,830	74,597	97,233	36,309	60,924	54,529	6,395	153,278	48,060	105,218	66,594	38,624	30,771	7,853
1997 1998	174,416 190,953	66,022	108,394	42,064	66,330	60,694	5,636	177,629	51,339	126,290	82,879	43,411	35,206	8,205
	1 1	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
1998 Nov. Dec.	204,153 190,953	79,355 68,418	124,798 122,535	52,464 54,167	72,334 68,368	66,259 62,491	6,075 5,877	197,587 197,566	53,069 50,579	144,518 146,987	101,087 103,899	43,431 43,088	34,979 35,021	8,452 8,067
1999 Jan.	95,970	32,613	63,357		35,141		1	1						i
Feb. P	33,370	31,653		28,216	35,141	31,948	3,193	101,918	27,074 26,676	74,844	53,766	21,078	16,836	4,242
						,	,	,	20,0.01	****		••••	,	
	Other II	idustria	countri	es										
1995	66,890	5,661	61,229	30,752	30,477	27,863	2,614	81,187	8,342	72,845	46,460	26,385	20,998	5,387
1996 1997	78,545 89,482	8,212	70,333	37,293	33,040	30,219	2,821	93,654	7,181	86,473	57,768	28,705	22,731	5,974
1998	109,682	6,436 8,246	83,046 101,436	45,814 61,999	37,232 39,437	34,050 36,162	3,182 3,275	95,662 96,958	7,884 7,655	87,778 89,303	55,306 56,641	32,472 32,662	26,280 26,292	6,192 6,370
1998 Nov.	108,229	7,238	100,991	60,731	40,260	36,850	3,410	94,575	7,374	87,201	54,374	32,827	25,565	7,262
Dec.	109,682	8,246	101,436	61,999	39,437	36,162	3,275	96,958	7,655	89,303	56,641	32,662	26,292	6,370
1999 Jan.	56,467	4,118	52,349	32,588	19,761	18,047	1,714	52,278	4,715	47,563	31,248	16,315	12,843	3,472
Feb. P		4,021							4,608		31,230		12,045	3,472
	Countrie	es in tra	nsition											
	_													
1995 1996	17,524	101	17,423	2,577	14,846	13,600	1,246	9,998	33	9,965	450	9,515	3,556	5,959
1997	22,025 27,427	200 296	21,825 27,131	4,092 5,916	17,733 21,215	16,123 19,487	1,610 1,728	9,342 10,690	45 90	9,297 10,600	613 595	8,684 10,005	3,458 4,007	5,226   5,998
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
1998 Nov.	31,628	610	31,018	7,950	23,068	21,295	1,773	11,900	132	11,768	630	11,138	5,069	6,069
Dec.	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 Jan.	15,012	179	14,833	3,991	10,842	10,124	718	5,920	59	5,861	330	5,531	2,380	3,151
Feb. P		194							67					
	Develop	ing cou	ntries											
1005	<u>'</u>													1
1995 1996	51,665 54,135	6,839 6,116	44,826 48,019	8,641 9,287	36,185 38,732	34,059 36,119	2,126 2,613	41,014 44,823	2,571	38,443	13,240	25,203	7,356	17,847
1997	57,827	4,379	53,448	12,481	40,967	39,107	1,860	48,972	3,547 3,992	41,276 44,980	14,831 15,929	26,445 29,051	8,089 9,362	18,356 19,689
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
1998 Nov.	55,386	1,770	53,616	15,512	38,104	36,208	1,896	51,229	4,539	46,690	20,384	26,306	9,279	17,027
Dec.	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 Jan.	27,409	801	26,608	7,934	18,674	17,818	856	25,915	2,398	23,517	10,654	12,863	4,593	8,270
Feb. P	1	922	I	1	l	ا	1	1	2,421	l	1	1	1	

<sup>\*</sup> 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, 6.

# X. Foreign trade and payments

# 10. Deutsche Mark exchange rates for the national currencies of the EMU countries, the Deutsche Mark value of the ECU $^{\star}$ and euro conversion rates

Yearly or monthly average	France 100 FRF Spot middl	Italy 1,000 ITL e rates on t	Netherlands 100 NLG he Frankfur		Austria 100 ATS in DM	Spain 100 ESP	Finland 100 FIM	Ireland 1 IEP	Portugal 100 PTE	1 E	Values 1 CU DM
1991 1992 1993 1994	29.409 29.500 29.189 29.238	1.3377 1.2720 1.0526 1.0056	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	2.671 2.656 2.423 2.4254	1.149 1.157 1.031 0.9774		2.05076 2.02031 1.93639 1.92452
1995 1996 1997 1998	28.718 29.406 29.705 29.829	0.8814 0.9751 1.0184 1.0132	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	2.2980 2.4070 2.6297 2.5049	0.9555 0.9754 0.9894 0.9763		1.87375 1.90954 1.96438 1.96913
1997 Nov. Dec.	29.864 29.871	1.0207 1.0202	88.727 88.739	4.8481 4.8471	14.208 14.212	1.1842 1.1824	33.182 33.102	2.6035 2.5926	0.9797 0.9785	0.00	1.97368 1.97583
1998 Jan. Feb. Mar.	29.861 29.833 29.831	1.0160 1.0134 1.0156	88.737 88.722 88.726	4.8476 4.8456 4.8476	14.214 14.213 14.214		33.047 32.977 32.957	2.5113 2.4970 2.4987	0.9776 0.9768 0.9772		1.97581 1.97517 1.98022
Apr. May June	29.832 29.821 29.825	1.0125 1.0141 1.0151	88.806 88.740 88.720	4.8458 4.8477 4.8480	14.213 14.211 14.212	1.1772	32.949 32.907 32.905	2.5205 2.5177 2.5203	0.9761 0.9762 0.9767		1.97947 1.96831 1.97348
July Aug. Sep.	29.828 29.828 29.823	1.0143 1.0135 1.0122	88.705 88.676 88.650	4.8492 4.8492 4.8476	14.213 14.213 14.212	1.1784 1.1783 1.1776	32.902 32.887 32.858	2.5158 2.5103 2.5035	0.9775 0.9770 0.9756		1.97320 1.96980 1.96381
Oct. Nov. Dec.	29.824 29.823 29.820	1.0108 1.0105 1.0099	88.677 88.693 88.734	4.8472 4.8478 4.8482	14.213 14.214 14.214	1.1767 1.1760 1.1754	32.868 32.890 32.895		0.9751 0.9751 0.9753	AND THE PROPERTY OF THE PROPER	1.95626 1.95791 1.95733
	Irrevocable	euro conve	ersion rates	(EUR 1 =	currency ur	nits) <sup>2</sup>					SECOND PROPERTY.
	6.55957	1936.27	2.20371	40.3399	13.7603	166.386	5.94573	0.787564	200.482	3	1.95583

<sup>\*</sup> Calculated from daily quotations. — 1 According to data from the European Commission. — 2 Applicable from January 1, 1999. — 3 Deutsche Mark

# 11. Exchange rates of the Deutsche Mark and the euro against other currencies \*

	general annual de la companya del la companya de la						_	garan	parenter and the second	grammanian manaman
Yearly	United States	Japan	Denmark	Sweden	United Kingdom	Norway	Switzerland	Canada	Australia	New Zealand
or monthly average	USD	JPY	DKK	SEK	GBP	NOK	CHF	CAD	AUD 1	NZD 1
5	Spot middl	e rates on t	he Frankfui	t exchange	(1 or 100 c	urrency uni	ts = DM)	Bearing to the control of the contro	***************************************	
	Spot illiadi	C 14165 517 1		-		•			No.	
1991	1.6612			27.421	2.926	25.580	115.740 111.198	1.4501 1.2917	1.2942 1.1476	0.9589 0.8406
1992 1993	1.5595 1.6544	1.2313 1.4945	25.869 25.508	26.912 21.248	2.753 2.483	25.143 23.303	111.198	1,2823	1.1235	0.8940
1993	1.6218		25.513	21.013	2.4816	22.982	118,712	1.1884	1.1848	0.9605
1995	1.4338	1.5293	25.570	20.116	2.2620	22.614	121,240	1	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	1.7348	1.4378	26.249	22.718	2.8410	24.508	119.508	1.2533	1.2889	1.1453
1998	1.7592	1.3484	26.258	22.128	2.9142	23.297	121.414	1.1884	1.1070	0.9445
1997 Oct.	1.7567	1.4518	26.263	23.213	2.8677	24.822	120.969	1.2670	1.2672	1.1020
Nov.	1.7331	1.3844	26.272	22.909	2.9252	24.544	123.135	1.2271	1.2035	
Dec.	1.7767	1.3732	26.252	22.840	2.9525	24.522	123.608	1.2466	1.1789	1 1
1998 Jan.	1.8167	1.4032	26.254	22.669	2.9707	24.235	123.133	1.2620	1.1895	
Feb.	1.8142	1.4435	26.240	22.460	2.9746	24.009	123.953	1.2647	1.2211 1.2224	1.0511 1.0426
Mar.	1.8267	1.4160	ŧ	22.925	3.0341	24.085	122.703	1.2896	1	
Apr.	1.8147	1.3732	26.223	23.200	3.0338	24.084	120.461	1.2698	1.1833 1.1204	0.9931 0.9515
May	1.7746 1.7917	1.3153 1.2780	26.243 26.254	23.068 22.660	2.9057 2.9604	23.816 23.656	120.031 119.901	1.2285 1.2228	1.0806	
June	1	1	ž Š					1	1.1114	1
July	1.7979	1.2784 1.2363	26.243 26.254	22.508 21.991	2.9553 2.9209	23.585 23.136	118.794 119.651	1.2110 1.1674	1.0554	0.8883
Aug. Sep.	1.7887 1.7030		26.257 26.257	21.531	2.8614	22.469	121.424	1.1187	1.0031	0.8583
•	1.6378	1.3623	26.301	20.894	2.7760	22.048	122.618	1	1.0135	0.8767
Oct. Nov.	1.6816	1.3623	26.301	21.040	2.7928	22.567	121.490		1.0660	
Dec.	1.6686								1.0334	
										***************************************
	Euro refere	ence exchar	ige rates pu	blished by t	he <b>E</b> uropea	an Central E	ank (EUR 1	= currenc	y units) <sup>2</sup>	esage colorese
1999 Jan.	1,1608	131.35	7,4412	9.0826	0.70312	8.6512	1.6055	1.7646	1.8387	2.1588
Feb.	1.1208	130.78	7.4352	8.9077	0.68851	8.6497	1.5979	1.6786	1.7515	2.0623
Mar.	1.0883	130.20		8.9403	0.67127	8.5065	1.5954	1.6510	1.7260	2.0451

<sup>\*</sup> 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 reference exchange

rates, which are calculated on the basis of the concertation between the central banks at 2.15 p.m.  $\,$ 

conversion rate.

#### X. Foreign trade and payments

# 12. External values of the Deutsche Mark and selected foreign currencies

1995 = 100

External va	lue of the D	eutsche Mar	k	A 4 77 - WWW.				ues of sele			25		
Nominal against the	currencies c	of	Real against th	e currencies c	of								
		100 pp 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	38 countries	18 industria	al countries		Address	NA CONTRACTOR AND AND AND AND AND AND AND AND AND AND	vectorial primary para				
38 countries	18 industrial countries	the EU countries	on the bas consumer		on the basis of the deflators of total sales	US dollar	Pound sterling	Canadian dollar	Swiss franc	Japanese yen	French franc	Italian Iira	Spanish peseta
	91.8	85.2		91.9	91.9	110.0	120.1	122.2	89.6	64.5	93.7	146.9	126.8
	90.4	85.3		89.6	90.4	108.3	120.5	124.1	88.0	70.2	91.6	143.9	126.6
	93.1	87.5		92.8	93.9	105.9	115.8	116.5	86.3	73.2	94.6	139.6	123.
	94.9	94.6		95.4	95.5	108.8	105.0	109.6	88.1	89.0	96.2	115.8	108.
	94.9	95.6		95.5	95.3	106.7	105.0	102.5	93.7	96.0	96.8	110.4	100.
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
98.8	98.1	96.5	95.8	97.3	97.4	105.5	102.3	102.3	98.8	87.0	100.4	109.9	101.
94.8	93.1	92.8	90.4	92.5	92.3	114.7	118.8	103.2	92.9	82.9	96.8	110.1	96.
98.7	93.6	92.7	р 91.8	92.5	P 92.6	120.1	123.0	97.3	94.8	77.6	97.5	109.9	96.
96.8	92.2	92.2	91.2	91.6		120.3	123.7	100.3	95.1	79.1	96.4	108.9	95.0
96.3	91.9	92.3	90.7	91.2	<b>2</b> 91.2	119.1	123.6	100.4	95.5	81.4	96.1	108.3	95.
95.8	91.8	91.9	89.7	90.9		119.9	126.1	102.0	94.5	79.5	96.0	108.5	95.
96.2	92.4	92.0	89.9	91.1		120.7	126.7	101.2	93.1	77.4	96.4	108.7	95.
97.8	93.7	92.6	91.5	92.5	2 92.4	121.0	122.6	100.1	93.7	75.2	97.5	110.1	96.4
98.1	93.7	92.3	91.7	92.8		123.3	125.2	99.2	93.7	72.7	97.5	110.3	96.
98.1	93.8	92.4	91.8	93.1		124.0	124.9	98.0	92.8	72.6	97.5	110.2	96.5
99.0	94.4	92.7	92.2		2 93.5	125.9	124.3	95.1	94.0	70.6	98.1	110.7	97.0
101.6	95.1	93.1	93.8	93.7		120.4	122.7	94.6	96.0	74.0	98.8	111.3	97.
102.1	95.2	93.7	p 93.9	93.5		114.9	119.1	92.0	97.1	81.5	99.1	111.3	97.5
101.1	94.4	93.5		1	2 p 93.2	116.2	118.8	92.4	95.6	82.5	98.4	110.5	97.0
101.6	94.4	93.6	1	1		114.9	118.6	1				110.4	96.9

<sup>1</sup> Including Germany. — 2 Quarterly average.

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

Effective exch of the euro against the cu of 16 countrie	rrencies	Memo i Indicato price co	rs of th					Effective nominal exchange rates of selected foreign currencies against 18 industrial countries 4					
		38 countries 18 industrial cou		untries									
Nominal 2	Real on the basis of consumer prices		on the basis of consumer prices			on the basis of the deflators of total sales			US dollar	Pound sterling	Canadian dollar	Swiss franc	Japanese yen
1990 = 100	<u> </u>	1995 = 1	100	1990 =	100		William of the same						
92.7	92.1	Р	92.4	р	100.3				103.4	97.7	76.1	106.3	136.1
90.9	90.3	And in contract of the contrac		р	p 99.3		р	99.3	105.5	98.9	77.8	106.0	134.1
89.5		NO.							107.8	100.8	77.3	105.6	132.7

1999 Jan. Feb. Mar.

1990 1991 1992 1993 1994 1995 1996 1997 1998 1998 Jan. Feb. Mar. Apr. May June July Aug. Sep. Oct. Nov. Dec.

Kingdom, Sweden, Denmark, Greece, Norway, Canada, Australia, New Zealand, Hong Kong, South Korea, Singapore, Taiwan and Mexico. Where consumer prices are not yet available, estimates have been used. — 2 Excluding Mexico. — 3 Data up to the end of 1998: real external value of the Deutsche Mark in table X.12. — 4 Including EMU countries. — 5 Quarterly average.

<sup>\*</sup> The effective exchange rate corresponds to the external value of the currency concerned. — 1 Source: ECB. According to BIS calculations based on the weighted averages of the effective exchange rates of the euro. The original figures have been rescaled to 1990 = 100 on the basis of the weighted averages of euro area countries' effective exchange rates. The weights used in that calculation are based on manufactured goods trade in 1990 with the following countries: USA, Japan, Switzerland, United

# Overview of publications by the Deutsche Bundesbank

This overview is designed to inform readers about selected recent economic and statistical publications by the Deutsche Bundesbank. Except where stated, these publications are published both in German and English, and on the Internet.

The publications are available to interested parties free of charge from the Press and Public Relations Division. Against reimbursement of the costs, a monthly updated file with approximately 40,000 time series published by the Bundesbank can also be obtained on magnetic tape or on ZIP diskette from the Statistical Data Processing Division. Please submit orders in writing, using the addresses specified on the back of the title page.

# **Annual Report**

# **Monthly Report**

For information on the articles published between 1980 and 1998 see the index attached to the January 1999 Monthly Report.

# **April 1998**

- Opinion of the Central Bank Council concerning convergence in the European Union in view of Stage Three of economic and monetary union
- Economic conditions in eastern Germany
- Structural changes in the German capital market in the run-up to European monetary union

# May 1998

- European policy decisions of May 1 to 3, 1998 pave the way for the launching of the euro on January 1, 1999
- Overall financial flows in 1997
- Problems of inflation measurement
- The new Principle I

#### June 1998

 The economic scene in Germany in spring 1998

# July 1998

- Recent trends in Germany's external relations with the south-east Asian emerging economies
- East German enterprises' profitability and financing in 1996
- Financial market prices as monetary policy indicators

#### August 1998

- Review of monetary targeting in 1997-8 and of the 1998 monetary target
- The performance of German credit institutions in 1997
- Present and future financial burdens facing the central, regional and local authorities from expenditure on personnel
- The Bundesbank's credit register for loans of 3 million Deutsche Mark or more

#### September 1998

The economic scene in Germany in summer 1998

# October 1998

- Operational features of the new European exchange-rate mechanism
- West German enterprises' profitability and financing in 1997

- The methodological basis of the Deutsche Bundesbank's corporate balance sheet statistics
- Banks' internal risk management models and their prudential suitability

#### November 1998

- The implementation of the ESCB's monetary policy by the Bundesbank and its formulation in the General Terms and Conditions
- Trends in and structure of the overall capital stock
- The indicator quality of different definitions of the real external value of the Deutsche Mark
- Updating the calculation of the external value of the Deutsche Mark and adjusting it to the conditions of European monetary union

# December 1998

 The economic scene in Germany in autumn 1998

#### January 1999

- Launching the economic and monetary union on January 1, 1999
- Changes in households' asset situation since the beginning of the nineties
- The Bundesbank's method of assessing the creditworthiness of business enterprises

# February 1999

 The economic scene in Germany around the turn of 1998-9

# March 1999

- Monetary analysis for the euro area
- Hedge funds and their role in the financial markets
- German balance of payments in 1998

# April 1999

- The role of economic fundamentals in the emergence of currency crises in emerging markets
- Development of public sector capital formation, and its financing
- Taylor interest rate and Monetary Conditions Index

# Statistical Supplements to the Monthly Report<sup>1</sup>

- 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 1995<sup>2</sup>

Makro-ökonometrisches Mehr-Länder-Modell, November 1996<sup>3</sup>

Macroeconometric model of the German economy, April 1994<sup>4</sup>

Weltweite Organisationen und Gremien im Bereich von Währung und Wirtschaft, April 1997<sup>3</sup>

Europäische Organisationen und Gremien im Bereich von Währung und Wirtschaft, Mai 1997<sup>3</sup> The market for German Federal securities, July 1998

# **Special Statistical Publications**

- 1 Banking statistics guidelines, January 1999<sup>5</sup>
- 2 Bankenstatistik Kundensystematik,
   January 1999<sup>6</sup>
   (The lists of enterprises can also be obtained on diskette for a fee of currently DM 50).
- 3 Aufbau der bankstatistischen Tabellen, Januar 1996°,<sup>3</sup>
- 4 Ergebnisse der gesamtwirtschaftlichen Finanzierungsrechnung für Westdeutschland 1960 bis 1992, November 1994°,3
- 4 Financial accounts for Germany 1990 to 1997, June 1998
- 5 Annual accounts of west German enterprises 1971 to 1996, March 1999<sup>1</sup>
- 6 Ratios from the annual accounts of west German enterprises for 1990, March 1994<sup>o,1</sup>
- 7 Erläuterungen zum Leistungsverzeichnis der Außenwirtschaftsverordnung, März 1994<sup>o,3</sup>

Russian and Chinese.

3 Available in German only. 4 Available in English only.

- 5 Only the sections "Monthly Balance Sheet Statistics" and "External position" will shortly be available in English
- **6** Only the sections "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 translation.

o Not on the Internet.

<sup>1</sup> Only the headings and explanatory notes to the data contained in the German originals are available in English. 2 Also available (in different editions) in French, Spanish,

- 8 Balance of payments statistics of the Federal Republic of Germany, 2nd edition, February 1991°
- 9 Securities deposits, August 1998
- 10 International capital links, May 19981
- 11 Balance of payments by region, August 1998
- 12 Technological services in the balance of payments, May 19981
- 13 Off-balance-sheet operations of German banks, December 1998

# Banking regulations

- 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, April 1998<sup>3</sup>
- 2a Grundsatz I über die Eigenmittel der Institute, October 1998<sup>3</sup>
- 7 Merkblatt für die Abgabe der Groß- und Millionenkreditanzeigen nach §§ 13 bis 14 KWG, September 1998<sup>3</sup>

# **Publications on EMU**

Informationsbrief zur Europäischen Wirtschafts- und Währungsunion<sup>3</sup>

Nr. 1, September 1996

Nr. 2, Oktober 1996

Nr. 3, Januar 1997

Nr. 4, Februar 1997

Nr. 5, April 1997

Nr. 6, Mai 1997

Nr. 7, Juni 1997

Nr. 8, Juli 1997

Nr. 9, September 1997

Nr. 10, Februar 1998

Nr. 11, April 1998

Nr. 12, April 1998

Nr. 13, Mai 1998

Nr. 14, Juli 1998

Nr. 15, Oktober 1998

Nr. 16, November 1998

Nr. 17, Dezember 1998

Der Euro ist da. Wir sagen Ihnen, worauf es ankommt. (Faltblatt)<sup>3</sup>

For footnotes, see p. 75\*.