



# ECU-EMS information and central bank interest rates

4 □ 1996      Monthly

## New statistics in this bulletin:

In order to improve our coverage of ECU markets still further, the following new statistics have been included in this publication:

- Outstanding amount of ECU bond issues  
(Table VII, page 13)
- Total of the secondary market turnover and % of market taken by ECU securities  
(Table VIII, page 13)
- ECU yield curve  
(Graphs 3 and 4, page 15)

## Consumer price indices in ECU

In the 12 months up to February the largest increase was recorded in the index of Spain (7.0%), owing to both the sharp appreciation of its currency against the ECU and to its inflation rate. The indices of six ERM countries, that is, those of Denmark, France, Belgium, Holland, Germany, and Luxembourg, rose by 4.0%, 3.2%, 2.1%, 1.9%, 1.6%, and 1.2% respectively, due partly to the appreciation of their currencies against the ECU and partly to their low inflation rates over the 12 month period. For the same reason, the index of Sweden rose by 6.4%.

Owing to its inflation rate rather than the modest appreciation of the LIT against the ECU, the index of Italy recorded an increase of 5.4% in the 12 months up to February.

The indices of Greece, Portugal, Ireland, and Finland rose by 3.3%, 2.0%, 0.8% and 0.1% respectively. These increases in the national CPIs expressed in ECU reflect increases in the corresponding inflation rates which were partly offset by the rate of depreciation of the DR, ESC, IRL, and FMK against the ECU, from February 1995 to February 1996.

The index of the United Kingdom recorded a decrease of 1.9% due to the larger depreciation of the UKL against the ECU relative to the rate of growth of the CPI in national currency over the 12 month period.

## Bilateral fluctuations of the ERM currencies

Graph 1 on page 4 portrays the evolution of the bilateral fluctuations of ERM currencies between 1 February 1996 and 29 March 1996 calculated on a daily basis.

This graph illustrates that until 29 March 1996, the IRL was at a weak position against the other ERM currencies and in particular against PTA, HFL, BLF, DM, and ÖS. Since 22 February the ESC and the FF have improved their position against the DM.

The graph also shows that since 1 February (except the period 4 - 5 March; Spanish elections took place on Sunday 3 March), the PTA has been the strongest currency in the ERM and together with the HFL, the BLF and the ÖS have moved closely in line with DM until the end of March 1996.

By the end of March, all ERM currencies moved within a band of 4.82%, which is narrower than at the end of the previous month (4.91%). Excluding the IRL, the band was 2.74%, which is narrower than at the end of February 1996 by 0.36 percentage points.

## Outstanding amount of ECU bonds

This table shows the bonds in ECUs outstanding at the end of the last three months and at the end of the last three years. These statistics are taken from a particularly comprehensive database and measure an essential parameter in the ECU market, i.e. the volume of ECU bonds in circulation. In order to permit more detailed analysis, the overall figure is broken down in two ways - by residual maturity and by type of issuer. It can be seen that the market has shrunk overall since 1994 - from ECU 138 billion at the end of 1994 to ECU 125 billion at the end of



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STATISTICAL OFFICE OF THE EUROPEAN COMMUNITIES  
OFFICE STATISTIQUE DES COMMUNAUTÉS EUROPÉENNES  
ISTITUTO STATISTICO DELLE COMUNITÀ EUROPEE  
BUREAU VOOR DE STATISTIEK DER EUROPESE GEMEENSCHAPPEN  
SERVIÇO DE ESTATÍSTICA DAS COMUNIDADES EUROPEIAS

L-2920 Luxembourg — Tél. 43 01-1 — Téléx COMEUR LU 3423  
B-1049 Bruxelles, rue de la Loi 200 — Tél. 299 11 11

### Note

For any information on the statistics in this bulletin contact Luxembourg:

TEL:	+352 346991-337 +352 346991-334 or 341	F. GARCIA-VALERO / R. SCHMITZ S. WARTON-WOODS / O. DELOBBE (Central bank interest rates)
FAX:	+352 4301-32929	

**Eurostat**  
**Monetary and Financial Statistics**  
**Jean Monnet Building**  
**APC C4/04**  
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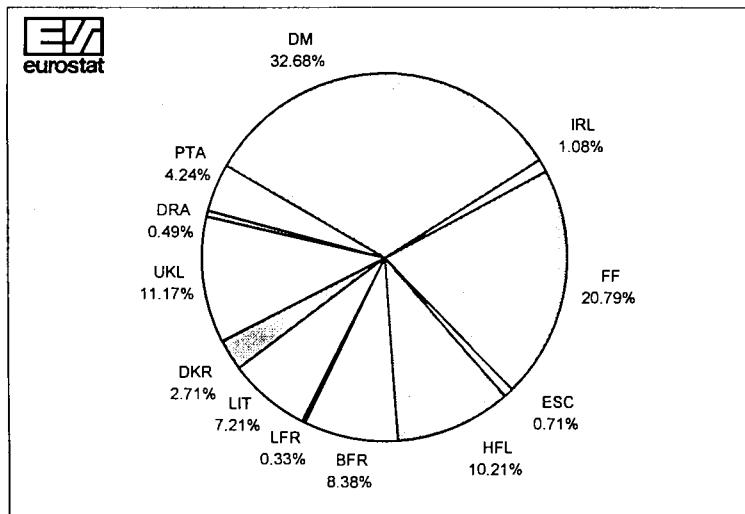
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**TABLE I**

**CENTRAL RATES AND INTERVENTION LIMIT RATES, IN FORCE SINCE 6TH MARCH 1995, FOR THE CURRENCIES OF COUNTRIES PARTICIPATING IN THE EMS EXCHANGE RATE MECHANISM.**

<b>EV eurostat</b>	<b>1 ECU =</b>	<b>100 BLF =</b>	<b>100 DKR =</b>	<b>100 DM =</b>	<b>100 PTA =</b>	<b>100 FF =</b>	<b>1 IRL =</b>	<b>100 HFL =</b>	<b>100 ÖS =</b>	<b>100 ESC =</b>
BLF	39.3960	+ -	627.880	2395.20	28.1525	714.030	57.7445	2125.60	340.420	23.3645
		= -	540.723	2062.55	24.2447	614.977	49.7289	1830.54	293.163	20.1214
		- -	465.665	1776.20	20.8795	529.660	42.8260	1576.45	252.470	17.3285
DKR	7.28580	+ 21.4747	-	442.968	5.20640	132.066	10.6792	393.105	62.9561	4.32100
		= 18.4938	-	381.443	4.48376	113.732	9.19676	338.537	54.2170	3.72119
		- 15.9266	-	328.461	3.86140	97.9430	7.92014	291.544	46.6910	3.20460
DM	1.91007	+ 5.63000	30.4450	-	1.36500	34.6250	2.80000	103.058 <sup>1</sup>	16.5050	1.13280
		= 4.84837	26.2162	-	1.17548	29.8164	2.41105	88.7526	14.2136	0.975561
		- 4.17500	22.5750	-	1.01230	25.6750	2.07600	76.4326 <sup>1</sup>	12.2410	0.840100
PTA	162.493	+ 478.944	2589.80	9878.50	-	2945.40	238.175	8767.30	1404.10	96.3670
		= 412.461	2230.27	8507.18	-	2536.54	205.113	7550.30	1209.18	82.9927
		- 355.206	1920.70	7326.00	-	2184.40	176.641	6502.20	1041.30	71.4690
FF	6.40608	+ 18.8800	102.100	389.480	4.57780	-	9.38950	345.650	55.3545	3.79920
		= 16.2608	87.9257	335.386	3.94237	-	8.08631	297.661	47.6706	3.27188
		- 14.0050	75.7200	288.810	3.39510	-	6.96400	256.350	41.0533	2.81770
IRL	0.792214	+ 2.33503	12.6261	48.1696	0.566120	14.3599	-	42.7439	6.84544	0.469841
		= 2.01090	10.8734	41.4757	0.487537	12.3666	-	36.8105	5.89521	0.404620
		- 1.73176	9.36403	35.7143	0.419859	10.6500	-	31.7007	5.07688	0.348453
HFL	2.15214	+ 6.34340	34.3002	130.834 <sup>1</sup>	1.53793	39.0091	3.15450	-	18.5963	1.27637
		= 5.46286	29.5389	112.673	1.32445	33.5953	2.71662	-	16.0149	1.09920
		- 4.70454	25.4385	97.0325 <sup>1</sup>	1.14060	28.9381	2.33952	-	13.7918	0.946611
ÖS	13.4383	+ 39.6089	214.174	816.927	9.60338	243.586	19.6971	725.065	-	7.97000
		= 34.1107	184.444	703.550	8.27008	209.773	16.9629	624.417	-	6.86356
		- 29.3757	158.841	605.877	7.12200	180.654	14.6082	537.740	-	5.91086
ESC	195.792	+ 577.090	3120.50	11903.3	139.920	3549.00	286.983	10564.0	1691.80	-
		= 496.984	2687.31	10250.5	120.493	3056.35	247.145	9097.55	1456.97	-
		- 428.000	2314.30	8827.70	103.770	2632.10	212.838	7834.70	1254.70	-
DR	292.867 (notional)	1 These buying and selling rates will not be operational. Reflecting a bilateral agreement between the German and the Dutch monetary authorities, the following rates will continue to apply: selling rate Fl. 100 in Frankfurt: DM 90.7700; buying rate Fl. 100 in Frankfurt: DM 86.7800; selling rate DM 100 in Amsterdam: Fl. 115.235; buying rate DM 100 in Amsterdam: Fl. 110.1675.								
LIT	2106.15 (notional)									
UKL	0.786652 (notional)									

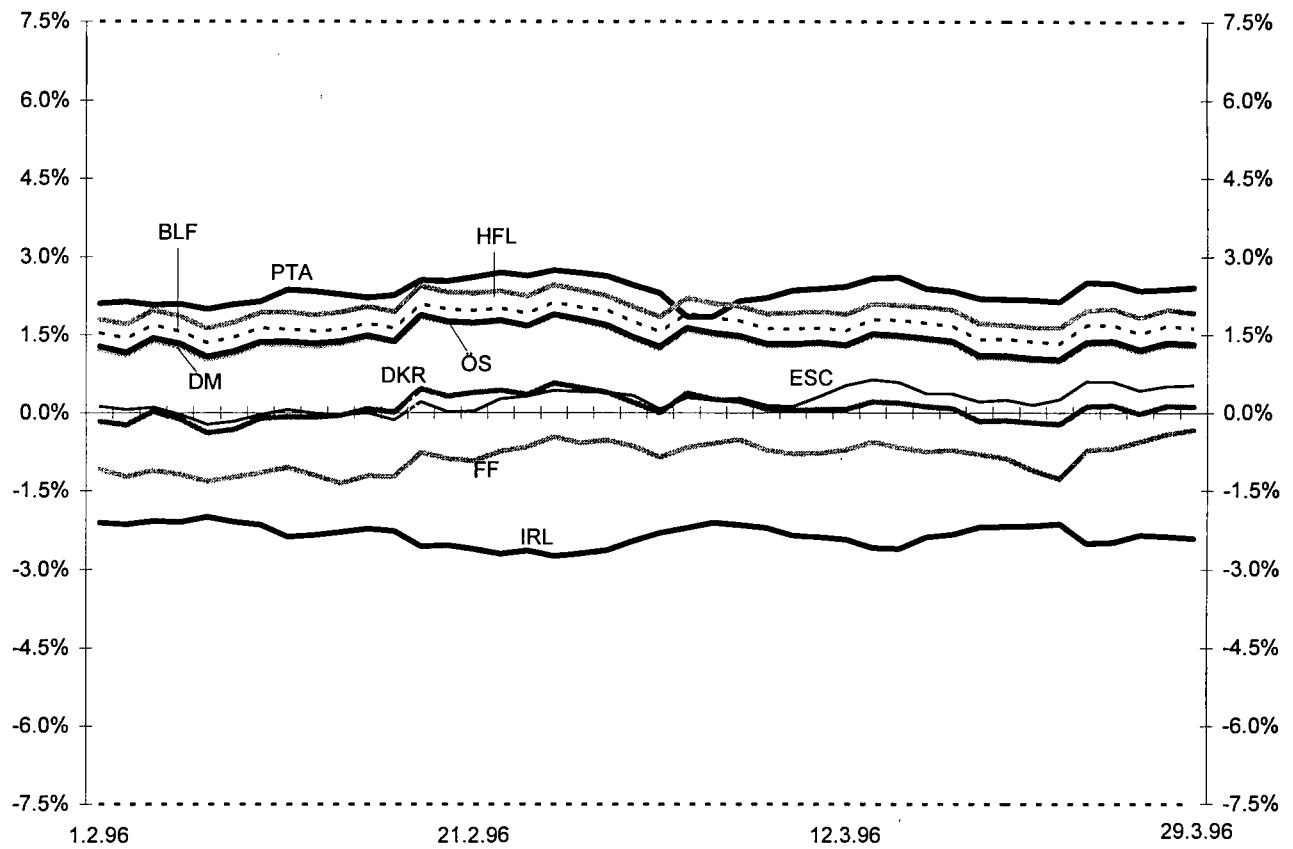
**WEIGHTS OF COMPONENT CURRENCIES IN THE ECU,  
CALCULATED ON THE BASIS OF CENTRAL RATES IN FORCE  
SINCE 6/03/95**



**COMPOSITION OF THE ECU BASKET**

Since 21/09/1989	
0.6242	DM
1.332	FF
0.2198	HFL
3.301	BFR
0.13	LFR
151.8	LIT
0.1976	DKR
0.008552	IRL
0.08784	UKL
1.44	DRA
6.885	PTA
1.393	ESC
<b>= 1 ecu</b>	

**GRAPH 1: BILATERAL FLUCTUATIONS OF THE ERM CURRENCIES**



**GRAPH 2: DIVERGENCE INDICATOR**

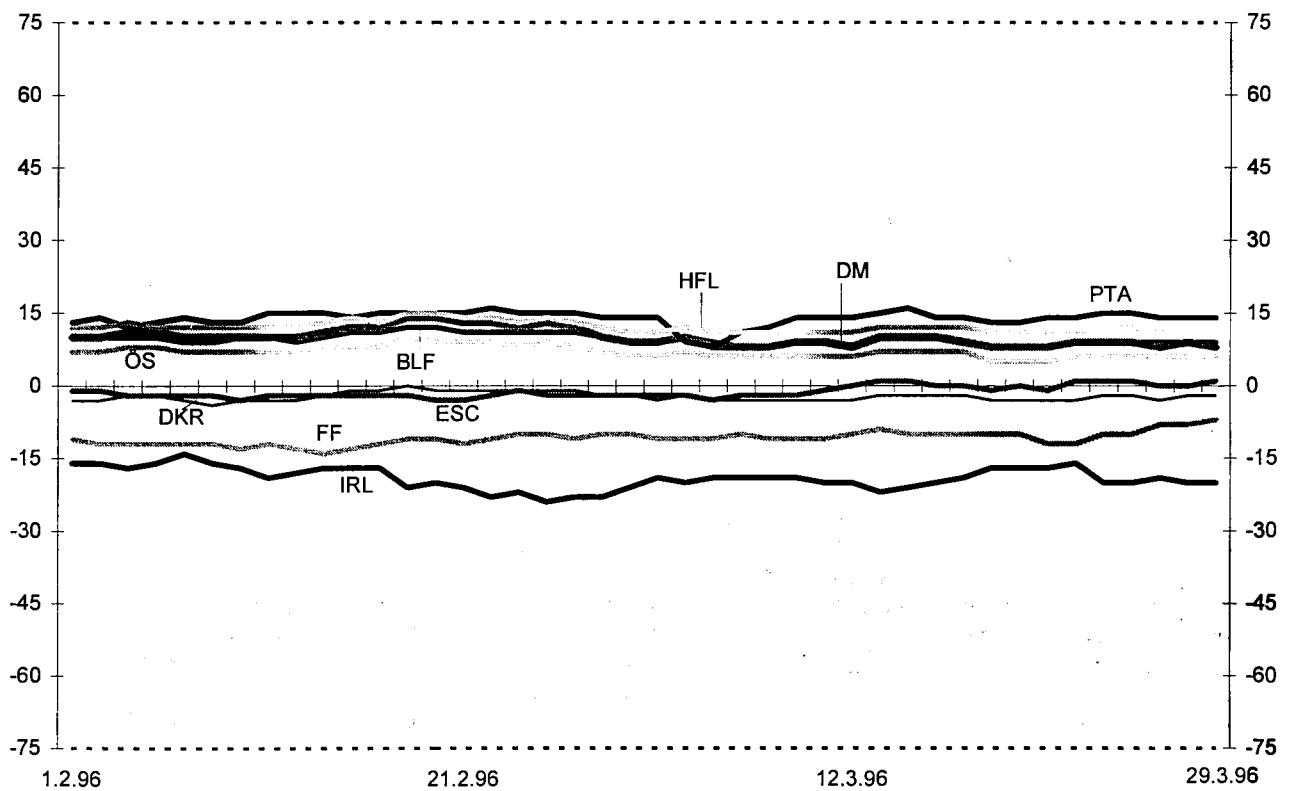




TABLE II

## ECU EXCHANGE RATES

ESC	FMK	SKR	UKL	IKR	NKR	SFR	USD	YEN	
<b>Yearly averages</b>									
130.251	4.69423	6.52133	0.588977	31.6485	6.51104	1.85572	0.76309	180.559	1985
147.088	4.97974	6.99567	0.671543	40.3813	7.27750	1.76086	0.98417	164.997	1986
162.616	5.06517	7.31001	0.704571	44.5548	7.76498	1.71780	1.15444	166.598	1987
170.059	4.94362	7.24192	0.664434	50.7794	7.70054	1.72822	1.18248	151.459	1988
173.413	4.72301	7.09939	0.673302	62.8909	7.60381	1.80010	1.10175	151.938	1989
181.109	4.85496	7.52051	0.713851	74.0013	7.94851	1.76218	1.27343	183.660	1990
178.614	5.00211	7.47926	0.701012	73.0052	8.01701	1.77245	1.23916	166.493	1991
174.714	5.80703	7.53295	0.737650	74.6584	8.04177	1.81776	1.29810	164.223	1992
188.370	6.69628	9.12151	0.779988	79.2528	8.30954	1.73019	1.17100	130.147	1993
196.896	6.19077	9.16307	0.775902	83.1063	8.37420	1.62128	1.18952	121.322	1994
196.105	5.70855	9.33192	0.828789	84.6853	8.28575	1.54574	1.30801	123.012	1995
<b>Monthly averages</b>									
194.969	5.77063	9.58022	0.823015	84.5575	8.26319	1.54349	1.31706	119.299	95/03
195.756	5.73180	9.85460	0.833905	84.5598	8.31644	1.52628	1.34143	112.500	95/04
195.945	5.70542	9.64488	0.832289	84.3606	8.31414	1.54276	1.32164	112.249	95/05
196.438	5.72138	9.66368	0.834752	84.2999	8.29839	1.54164	1.33144	112.592	95/06
196.275	5.70975	9.65233	0.843181	84.7263	8.30090	1.55475	1.34481	117.308	95/07
195.311	5.60976	9.43043	0.831674	84.6393	8.26733	1.55971	1.30441	123.325	95/08
196.348	5.63422	9.20062	0.827505	84.6669	8.25104	1.53324	1.28880	129.421	95/09
196.930	5.64122	9.03011	0.837881	85.4491	8.24762	1.51443	1.32217	133.184	95/10
196.722	5.61417	8.73139	0.846948	85.5991	8.27314	1.51288	1.32381	134.826	95/11
197.087	5.65231	8.64892	0.847268	85.3226	8.29254	1.51830	1.30430	132.763	95/12
195.831	5.73832	8.69018	0.844058	85.3993	8.28739	1.52352	1.29184	136.444	96/01
196.340	5.86509	8.86460	0.838898	85.3687	8.25045	1.53986	1.28860	136.091	96/02
195.961	5.89839	8.63156	0.839005	84.9858	8.23632	1.53246	1.28134	135.674	96/03
<b>Daily rates:</b>									
<b>03-96</b>									
196.439	5.83867	8.64476	0.838127	85.0273	8.23914	1.54508	1.27957	135.314	01/03
196.492	5.85070	8.71185	0.839440	85.1408	8.23734	1.53986	1.28418	134.967	04/03
196.680	5.87288	8.76517	0.838170	85.0595	8.24418	1.54080	1.28005	134.444	05/03
196.516	5.88972	8.76640	0.838122	85.0780	8.24574	1.54163	1.28149	135.030	06/03
196.516	5.88386	8.70497	0.836766	84.9692	8.24213	1.53846	1.27716	134.638	07/03
196.482	5.88550	8.71304	0.837540	85.0056	8.23752	1.53947	1.28001	135.156	08/03
196.078	5.88681	8.75644	0.838616	84.9713	8.23463	1.53439	1.27738	134.406	11/03
195.689	5.87679	8.70301	0.839424	84.9168	8.23261	1.53358	1.27618	135.019	12/03
195.563	5.88900	8.72143	0.843504	85.1862	8.22751	1.52533	1.28525	135.337	13/03
195.512	5.91368	8.72127	0.843171	85.1699	8.23416	1.52457	1.28558	135.269	14/03
195.934	5.93067	8.69043	0.841342	85.0631	8.23860	1.52703	1.28397	135.600	15/03
195.922	5.91363	8.63317	0.839971	85.0217	8.23953	1.52512	1.28432	136.035	18/03
195.982	5.93300	8.61021	0.837264	84.9035	8.24575	1.53006	1.28060	136.230	19/03
195.888	5.88435	8.48976	0.835894	84.9490	8.23398	1.53111	1.28535	136.530	20/03
195.993	5.91276	8.52989	0.834370	84.8436	8.23810	1.53398	1.28259	136.878	21/03
195.566	5.89962	8.48966	0.834615	84.8326	8.23617	1.53149	1.28030	136.979	22/03
195.465	5.89704	8.49346	0.841589	84.9102	8.23009	1.52767	1.28224	136.238	25/03
195.476	5.90045	8.50372	0.840863	84.8654	8.23011	1.52704	1.28215	136.074	26/03
195.653	5.92606	8.49457	0.838616	84.6526	8.23836	1.52849	1.27470	136.048	27/03
195.699	5.93785	8.52200	0.840331	85.1560	8.23046	1.52896	1.28150	136.301	28/03
195.643	5.94323	8.59750	0.841361	84.9803	8.22657	1.52749	1.28350	136.667	29/03

TABLE III

## CONSUMER PRICE INDICES IN NATIONAL CURRENCY

1985=100

	EUR 15**	ERM**	B	DK	D*	GR	E	F	IRL	I	L	NL
1991	129.7	121.6	114.6	124.1	110.9	265.9	145.0	120.2	121.3	140.0	112.4	108.3
1992	135.1	126.4	117.3	126.7	115.3	308.1	153.5	123.0	125.1	147.3	115.9	111.7
1993	139.7	130.5	120.6	128.3	119.5	352.6	160.6	125.6	126.9	153.8	120.1	114.6
1994	144.0	134.0	123.4	130.8	122.7	391.1	168.1	127.8	129.8	160.0	122.7	117.8
1995	148.5	137.1	125.3	133.6	125.0	427.4	176.0	129.9	133.2	168.3	125.1	120.1
1995 02	146.9	136.2	124.8	132.7	124.4	408.5	173.7	129.1	131.8	164.7	124.7	119.4
03	147.4	136.5	124.7	133.1	124.4	420.2	174.8	129.5	:	165.8	124.8	120.0
04	148.1	136.8	124.9	133.5	124.7	425.2	175.7	129.6	:	166.6	124.8	120.2
05	148.3	136.9	124.9	134.0	124.7	428.1	175.7	129.8	133.1	167.5	124.9	120.0
06	148.7	137.1	125.0	133.8	125.2	431.9	176.0	129.8	:	168.7	125.1	119.8
07	148.6	137.2	125.7	133.2	125.4	421.8	176.0	129.6	:	169.0	125.2	119.8
08	149.1	137.5	126.0	133.4	125.5	422.1	176.4	130.2	133.8	169.5	125.1	120.0
09	149.5	137.7	125.7	134.2	125.4	434.8	177.2	130.7	:	169.9	125.3	121.0
10	149.5	137.7	125.4	134.2	125.3	439.7	177.5	130.8	:	170.5	125.5	120.9
11	149.7	137.8	125.7	134.5	125.3	440.7	178.0	130.9	133.9	171.6	125.5	120.9
12	150.0	138.0	125.8	134.4	125.6	445.2	178.4	131.0	:	171.9	125.6	120.5
1996 01	150.3p	138.4p	126.9	134.3	125.7	444.7	179.6	131.2	:	172.3p	125.9	121.1
02	n.a.	n.a.	127.2	135.0	126.4	443.3	180.1	131.7	134.4	172.8p	126.0	121.5

## Annual rate of increase (%)

	EUR 15**	ERM**	B	DK	D*	GR	E	F	IRL	I	L	NL
1991	5.1	4.4	3.2	2.4	3.6	19.5	6.0	3.2	3.1	6.3	3.1	3.9
1992	4.2	3.9	2.4	2.1	4.0	15.9	5.9	2.4	3.1	5.2	3.2	3.2
1993	3.4	3.2	2.8	1.3	3.6	14.5	4.6	2.1	1.4	4.5	3.6	2.6
1994	3.1	2.7	2.4	2.0	2.7	10.9	4.7	1.7	2.3	4.0	2.2	2.8
1995	3.1	2.3	1.5	2.1	1.8	9.3	4.7	1.8	2.6	5.2	1.9	1.9
1995 02	3.1	2.4	1.8	2.3	2.0	10.4	4.8	1.7	2.6	4.3	2.2	2.4
03	3.2	2.5	1.7	2.5	1.9	10.3	5.2	1.8	:	4.7	2.3	2.3
04	3.2	2.5	1.7	2.4	2.0	9.9	5.2	1.6	:	5.0	2.2	2.3
05	3.1	2.3	1.4	2.3	1.8	9.8	5.0	1.6	2.7	5.1	2.2	2.1
06	3.2	2.3	1.3	2.1	1.9	9.7	5.1	1.6	:	5.6	2.3	2.1
07	3.1	2.2	1.2	1.8	1.8	8.9	4.7	1.5	:	5.5	1.9	1.8
08	3.1	2.2	1.3	1.6	1.7	8.7	4.2	1.9	2.5	5.7	1.8	1.5
09	3.2	2.2	1.2	2.1	1.8	8.4	4.4	2.0	:	5.6	1.6	1.5
10	3.0	2.2	1.2	1.9	1.8	8.3	4.4	1.8	:	5.5	1.6	1.3
11	3.0	2.2	1.5	1.9	1.7	8.2	4.5	1.9	2.4	5.7	1.3	1.6
12	3.0	2.2	1.5	1.8	1.8	8.1	4.3	2.1	:	5.6	1.3	1.7
1996 01	2.8p	2.2p	2.0	1.7	1.5	8.4	3.9	2.0	:	5.4p	1.1	1.9
02	n.a.	n.a.	1.9	1.8	1.6	8.5	3.7	2.0	2.0	4.9p	1.0	1.8

p=provisional

n.a. = not available

\* New Consumer Price Indices series for Germany, backdated, taking into account German reunification on 3 October 1990.

\*\* These aggregates are new series, backdated, taking into account the new German CPI and incorporating new weights for Germany.

TABLE III

## CONSUMER PRICE INDICES IN NATIONAL CURRENCY

1985=100

A	P	FIN	S	UK	IS	N	CH	USA	JAP	CAN	 eurostat
115.1	189.6	132.8	147.8	141.1	267.5	140.0	119.8	126.6	110.4	131.4	1991
119.7	206.7	136.7	151.1	146.4	278.1	143.3	124.6	130.5	112.3	133.4	1992
124.0	220.0	139.7	158.2	148.7	289.5	146.5	128.7	134.3	113.8	135.8	1993
127.7	231.5	141.2	161.6	152.4	294.0	148.6	129.8	137.8	114.6	136.1	1994
130.6	241.1	142.6	165.7	157.6	298.8	152.2	132.2	141.7	114.5	139.0	1995
129.7	239.2	142.4	164.1	155.3	297.6	151.0	132.0	140.3	114.2	138.2	1995 02
130.1	240.4	142.4	164.7	155.9	297.0	151.9	132.0	140.8	114.1	138.5	03
130.2	241.3	142.5	165.9	157.5	296.7	152.0	132.2	141.3	114.5	138.9	04
130.2	241.1	142.6	166.0	158.1	297.2	152.2	131.9	141.5	114.9	139.2	05
130.7	240.4	143.1	165.9	158.3	297.6	152.6	132.2	141.8	114.8	139.2	06
131.6	240.4	143.0	165.7	157.6	298.4	152.5	132.1	141.8	114.0	139.5	07
132.3	241.6	142.8	165.5	158.5	299.6	152.2	132.5	142.2	114.2	139.3	08
131.1	242.1	142.9	166.6	159.2	300.7	153.0	132.7	142.5	115.0	139.4	09
130.7	243.0	142.9	167.1	158.3	302.1	153.0	132.5	142.9	114.5	139.3	10
130.6	243.2	142.5	167.0	158.3	301.0	152.9	132.4	142.8	114.2	139.6	11
130.5	242.7	142.4	166.5	159.3	300.8	152.9	132.4	142.7	114.3	139.4	12
131.5	243.4	142.6	166.2	158.8	302.1	152.2	132.8	143.6	114.2	139.7	1996 01
n.a.	245.1	143.1	166.4	159.5	302.6	152.3	133.1	144.0	114.1	140.0	02

## Annual rate of increase (%)

A	P	FIN	S	UK	IS	N	CH	USA	JAP	CAN	 eurostat
3.3	10.9	4.3	9.6	5.9	6.8	3.4	5.8	4.2	3.3	5.6	1991
4.0	9.0	2.9	2.6	3.7	4.0	2.3	4.0	3.0	1.7	1.5	1992
3.6	6.4	2.2	4.7	1.6	4.1	2.3	3.3	3.0	1.3	1.8	1993
3.0	5.2	1.1	2.3	2.5	1.6	1.4	0.9	2.6	0.7	0.2	1994
2.2	4.1	1.0	2.9	3.4	1.7	2.5	1.8	2.8	-0.1	2.2	1995
2.4	4.5	1.8	2.9	3.4	1.7	2.6	1.5	2.9	0.2	1.8	1995 02
2.4	4.8	1.6	3.0	3.5	1.4	2.7	1.5	2.9	-0.4	2.2	03
2.6	4.6	1.5	3.3	3.3	1.1	2.6	1.6	3.1	-0.2	2.5	04
2.4	4.3	1.5	3.2	3.4	1.3	2.7	2.0	3.2	0.0	2.9	05
2.6	3.8	1.0	3.0	3.5	1.3	2.7	2.1	3.0	0.3	2.7	06
2.2	3.7	0.8	2.9	3.5	1.4	2.4	2.0	2.8	0.1	2.5	07
2.1	4.0	0.4	2.7	3.6	1.8	2.2	1.9	2.6	-0.2	2.3	08
2.0	4.0	0.4	2.5	3.9	1.8	2.3	2.0	2.5	0.2	2.3	09
1.9	4.0	0.3	2.7	3.2	2.4	2.3	1.9	2.8	-0.6	2.4	10
1.9	3.9	0.3	2.7	3.1	2.1	2.1	1.9	2.6	-0.7	2.1	11
1.8	3.4	0.3	2.6	3.2	2.0	2.2	1.9	2.5	-0.3	1.7	12
1.9	2.5	0.5	2.0	2.9	1.6	1.2	1.5	2.7	-0.4	1.6	1996 01
n.a.	2.5	0.5	1.7	2.7	1.7	0.9	0.8	2.7	-0.1	1.3	02

n.a. = not available

p=provisional

TABLE IV

## CONSUMER PRICE INDICES IN ECU

1985=100

	EUR 15**	ERM**	ECU**	B	DK	D*	GR	E	F	IRL	I	L
1991	124.7	123.4	122.2	121.9	125.8	120.4	122.9	145.5	117.1	113.0	132.1	119.6
1992	128.2	128.1	126.8	126.7	130.1	127.1	129.9	149.6	122.1	117.6	133.9	125.2
1993	128.2	132.5	131.0	133.8	135.5	137.3	136.7	139.3	128.7	113.6	121.0	133.3
1994	131.1	135.6	134.6	139.8	139.1	142.0	141.3	136.4	131.8	117.0	120.9	139.0
1995	132.8	140.7	138.0	146.0	146.2	148.5	146.8	139.3	135.4	116.8	114.3	145.8
1995 02	132.2	138.6	136.8	144.1	142.6	146.5	143.1	136.4	133.5	117.1	117.0	143.9
03	130.8	139.9	137.2	146.5	143.8	149.5	145.1	133.1	134.1	114.4	107.8	146.5
04	130.8	141.0	137.7	147.3	146.7	149.9	146.6	135.9	135.4	115.6	104.9	147.1
05	132.1	140.7	137.9	146.5	147.6	149.3	147.8	139.2	134.1	116.7	111.0	146.6
06	132.5	141.1	138.1	146.6	147.4	149.5	149.2	140.2	134.8	116.6	111.8	146.7
07	132.5	141.4	138.2	147.0	146.8	149.5	144.8	140.9	135.5	116.7	112.9	146.4
08	133.6	141.2	138.5	146.1	146.4	148.3	145.1	141.5	136.5	117.8	117.1	145.1
09	134.2	141.2	138.8	145.6	147.2	148.2	148.9	141.3	136.6	118.1	118.1	145.2
10	133.7	141.5	138.8	146.4	148.2	149.1	148.8	141.3	136.0	116.9	116.2	146.5
11	134.0	141.9	138.9	146.5	148.4	148.7	148.1	142.4	137.5	116.3	117.6	146.2
12	134.6	142.0	139.2	146.2	148.0	148.8	149.2	143.9	137.4	116.8	119.5	146.0
1996 01	135.1p	142.3p	139.5p	146.9	147.5	148.3	149.0	145.6	137.9	117.8	121.8p	145.7
02	n.a.	n.a.	140.0p	147.1	148.2	149.0	147.8	145.9	137.8	118.0	123.4p	145.7

## Annual rate of increase (%)

	EUR 15**	ERM**	ECU**	B	DK	D*	GR	E	F	IRL	I	L
1991	5.0	4.0	4.4	3.7	1.7	3.7	6.9	6.7	2.3	3.1	5.5	3.6
1992	2.9	3.8	3.8	4.0	3.4	5.6	5.8	2.9	4.2	4.1	1.4	4.7
1993	0.0	3.4	3.3	5.7	4.2	8.1	5.3	-6.9	5.4	-3.4	-9.5	6.5
1994	2.3	2.3	2.8	4.5	2.7	3.4	3.4	-1.9	2.4	3.1	0.0	4.3
1995	1.2	3.8	2.5	4.4	5.1	4.6	3.9	2.1	2.7	-0.2	-5.4	4.9
1995 02	1.4	3.4	2.5	4.7	3.8	4.7	4.1	0.7	2.1	0.3	-3.5	5.1
03	0.4	4.0	2.6	5.9	4.6	6.2	3.0	-1.5	2.1	-0.9	-10.4	6.5
04	-0.3	4.7	2.6	6.4	6.5	6.6	3.3	-0.7	3.6	-1.1	-15.3	6.9
05	0.5	4.3	2.5	5.2	6.2	5.6	4.1	2.6	2.1	-0.3	-10.5	6.1
06	0.9	4.2	2.6	5.0	6.0	5.3	5.6	3.2	2.3	-0.4	-8.8	6.0
07	1.1	3.8	2.4	4.2	5.5	4.5	4.1	2.9	2.6	0.1	-6.8	4.9
08	1.9	3.3	2.5	3.1	5.2	3.3	4.0	3.0	3.1	1.3	-2.3	3.6
09	2.0	3.2	2.6	3.0	5.5	3.5	4.0	2.7	2.9	1.2	-1.8	3.3
10	1.4	3.4	2.4	3.8	5.3	4.3	3.4	2.7	2.3	-0.7	-3.0	4.1
11	1.6	3.6	2.5	3.6	5.0	3.8	3.0	3.4	3.5	-1.2	-1.4	3.5
12	2.0	3.7	2.5	3.2	4.8	3.5	2.8	4.9	3.8	-1.0	0.8	3.0
1996 01	2.4p	3.4p	2.4p	2.9	4.3	2.2	3.2	7.4	3.7	-0.4	3.0p	2.1
02	n.a.	n.a.	2.4p	2.1	4.0	1.6	3.3	7.0	3.2	0.8	5.4p	1.2

p=provisional

n.a. = not available

\* New Consumer Price Indices series for Germany, backdated, taking into account German reunification on 3 October 1990.

\*\* These aggregates are new series, backdated, taking into account the new German CPI and incorporating new weights for Germany.

TABLE IV

## CONSUMER PRICE INDICES IN ECU

1985=100

NL	A	P	FIN	S	UK	IS	N	CH	USA	JAP	CAN	eurostat
117.7	124.7	137.9	124.8	128.8	118.5	n.a.	113.7	125.4	77.7	119.9	96.0	1991
123.3	131.7	153.8	110.9	131.0	117.2	n.a.	116.0	127.2	76.4	123.6	88.2	1992
132.3	142.4	152.1	98.0	113.2	112.2	n.a.	114.8	138.1	86.9	158.3	92.9	1993
137.1	147.5	152.8	107.2	115.1	115.6	n.a.	115.5	148.6	87.9	170.4	86.8	1994
143.7	154.9	159.7	117.3	116.0	111.9	n.a.	119.6	158.7	82.1	168.7	80.1	1995
141.5	152.5	159.0	114.4	115.0	114.1	n.a.	118.4	153.1	84.5	166.7	81.0	1995 02
145.1	156.0	160.2	115.8	112.1	111.5	n.a.	119.6	158.7	81.0	172.6	77.2	03
145.5	156.2	160.2	116.7	109.7	111.1	n.a.	119.0	160.7	79.8	183.7	77.7	04
144.7	155.6	159.9	117.3	112.2	111.8	n.a.	119.1	158.7	81.1	184.6	80.1	05
144.2	155.9	159.0	117.4	111.9	111.6	n.a.	119.7	159.1	80.7	183.9	78.5	06
143.8	156.7	159.2	117.6	111.9	110.0	n.a.	119.6	157.7	79.9	175.4	78.8	07
142.8	156.2	160.7	119.4	114.4	112.1	n.a.	119.8	157.6	82.6	167.1	81.5	08
143.9	154.7	160.2	119.0	118.1	113.2	n.a.	120.7	160.6	83.7	160.3	82.8	09
144.9	155.3	160.4	118.9	120.7	111.2	n.a.	120.8	162.3	81.9	155.2	80.9	10
144.5	154.8	160.7	119.1	124.7	110.0	n.a.	120.3	162.4	81.7	152.9	80.6	11
143.8	154.3	160.0	118.2	125.5	110.6	n.a.	120.0	161.8	82.9	155.4	80.7	12
143.8	155.0	161.5	116.7	124.7	110.7	n.a.	119.6	161.7	84.2	151.0	81.8	1996 01
144.2	n.a.	162.2	114.6	122.4	111.9	n.a.	120.2	160.3	84.7	151.3	81.6	02

## Annual rate of increase (%)

NL	A	P	FIN	S	UK	IS	N	CH	USA	JAP	CAN	eurostat
3.9	3.4	12.5	1.3	9.9	7.9	n.a.	2.5	5.3	7.4	14.2	10.9	1991
4.8	5.6	11.5	-11.1	1.8	-1.0	n.a.	2.0	1.5	-1.2	3.4	-7.6	1992
7.3	8.1	-1.0	-11.4	-13.5	-3.9	n.a.	-1.0	8.6	14.0	28.3	5.6	1993
3.6	3.6	0.6	9.4	1.7	3.1	n.a.	0.6	7.7	1.4	8.3	-6.5	1994
4.8	5.0	4.6	9.5	0.8	-3.2	n.a.	3.5	6.9	-6.6	-1.0	-7.5	1995
5.2	5.1	4.8	8.7	-1.5	-2.5	n.a.	3.5	3.4	-8.7	-3.7	-13.4	1995 02
6.9	6.7	6.8	11.2	-3.2	-3.7	n.a.	4.2	7.3	-10.8	0.2	-14.1	03
7.2	7.1	5.6	10.8	-6.2	-4.8	n.a.	3.6	9.1	-12.5	4.5	-12.7	04
6.2	6.3	6.2	12.1	-4.2	-3.8	n.a.	3.4	8.8	-9.1	7.6	-8.0	05
5.8	6.2	5.7	13.2	-1.8	-3.8	n.a.	3.6	7.7	-8.4	8.2	-8.3	06
4.7	5.0	4.1	12.1	0.7	-2.9	n.a.	3.5	6.2	-6.6	2.8	-5.4	07
3.4	3.8	4.1	12.5	2.8	-1.2	n.a.	3.8	5.4	-3.7	-1.1	-2.4	08
3.3	3.8	3.5	9.3	3.4	-0.8	n.a.	4.3	6.2	-1.7	-5.5	-1.6	09
3.9	4.4	3.5	4.8	3.8	-3.3	n.a.	3.5	7.3	-2.0	-7.4	-2.0	10
3.8	4.0	3.3	4.8	7.2	-4.7	n.a.	3.3	8.5	-3.6	-10.2	-3.3	11
3.4	3.6	2.8	4.5	8.0	-5.0	n.a.	2.7	8.5	-4.4	-8.5	-3.8	12
2.8	2.7	2.6	3.0	8.5	-3.9	n.a.	1.5	6.5	-1.3	-9.6	0.9	1996 01
1.9	n.a.	2.0	0.1	6.4	-1.9	n.a.	1.5	4.7	0.3	-9.2	0.7	02

n.a. = not available

p=provisional

**TABLE V**

## ECU BOND ISSUES (Mio ECU) \*

	TOTAL EURO	European Union				Non-European Union				Domestic**	EURO + DOMESTIC
		Total	Business sector	Govern- ments	Institu- tions	Total	Business sector	Govern- ments	Organisa- tions		
1989	11 127	6 461	4 400	500	1 561	4 666	4 141	425	100	1 652	12 779
1990	15 040	10 525	3 990	5 000	1 535	4 515	3 565	550	400	2 857	17 897
1991	27 163	19 266	6 581	7 900	4 785	7 897	3 932	3 790	175	3 134	30 297
1992	19 242	11 675	4 870	2 475	4 330	7 567	3 902	2 850	815	4 151	23 393
1993	6 870	5 020	1 565	250	3 205	1 850	250	1 600	0	6 508	13 378
1994	6 485	5 010	1 825	1 300	1 885	1 475	1 075	400	0	7 311	13 796
1995	5 596	5 046	956	3 075	1 015	550	550	0	0	6 784	12 380
1994 II	1 815	1 215	415	0	800	600	200	400	0	2 559	4 374
III	945	595	150	150	295	350	350	0	0	1 221	2 166
IV	1 315	915	350	0	565	400	400	0	0	1 033	2 348
1995 I	2 375	2 075	525	900	650	300	300	0	0	2 939	5 314
II	281	31	31	0	0	250	250	0	0	1 075	1 356
III	2 375	2 375	50	2 175	150	0	0	0	0	2 050	4 425
IV	565	565	350	0	215	0	0	0	0	720	1 285
1996 I	605	605	605	0	0	0	0	0	0	2 073	2 678
1996 1	205	205	205	0	0	0	0	0	0	1 315	1 520
2	200	200	200	0	0	0	0	0	0	368	568
3	200	200	200	0	0	0	0	0	0	390	590

(\*) Recording based on the payment date

(\*\*) Only domestic issues which can be assimilated with Eurobonds

**TABLE VI**

## LAST MONTH'S ECU BOND ISSUES

Issue Payment Date	Borrower & country	Amount Issued (Mio Ecu)	Issue Price	Coupon	Term (years)	Maturity	Yield %	Lead Manager	Listing	Notice
14.03.1996 28.03.1996	France BTAN	175	98.01	6.00	5	16.03.2001	6.48	Auct	PA	FG
14.03.1996 28.03.1996	France OAT	215	101.04	7.50	9+1	25.04.2005	7.34	Auct	PA	FG
04.03.1996 04.04.1996	EIB	500	100.825	6.00	5	04.04.2001	5.81	Paribas CDC SBC- Warburg	LU	
05.03.1996 04.04.1996	Crédit Local de France	50	99.543	5.25	3+8	29.12.1999	5.38	Morgan Stanley	LU	FG
01.03.1996 09.04.1996	Kingdom of Sweden	55	101.79	step up	6	09.04.2002		KB	LU	
15.03.1996 25.04.1996	Landwirtschaftliche Rentenbank (Ge)	55	101.80	step up	6	25.04.2002	6.40	KB	LN	



**TABLE VII**  
**OUTSTANDING AMOUNT OF ECU BONDS (IN MILLIONS OF ECU)**

 eurostat	Issuers	Residual maturity in years						Total
		< 1	1-3	3-5	5-7	7-10	> 10	
31/03/96	GOV	12 377	28 144	18 182	6 496	7 851	4 750	<b>77 799</b>
	SUPRA	2 919	4 115	6 310	3 525	700	600	<b>18 169</b>
	Others	7 951	8 510	6 663	2 847	1 938	1 125	<b>29 034</b>
	Total	<b>23 247</b>	<b>40 769</b>	<b>31 155</b>	<b>12 868</b>	<b>10 489</b>	<b>6 475</b>	<b>125 003</b>
29/02/96	GOV	11 206	28 589	18 683	7 311	7 636	4 750	<b>78 175</b>
	SUPRA	3 394	4 490	6 310	3 525	700	600	<b>19 019</b>
	Others	8 062	8 379	6 629	3 387	1 838	1 125	<b>29 420</b>
	Total	<b>22 662</b>	<b>41 458</b>	<b>31 622</b>	<b>14 223</b>	<b>10 174</b>	<b>6 475</b>	<b>126 614</b>
29/01/96	GOV	13 004	24 339	18 733	11 561	7 468	4 750	<b>79 855</b>
	SUPRA	3 229	5 425	6 275	3 750	700	600	<b>19 979</b>
	Others	8 138	9 089	5 944	4 337	1 438	1 438	<b>30 384</b>
	Total	<b>24 371</b>	<b>38 853</b>	<b>30 952</b>	<b>19 648</b>	<b>9 606</b>	<b>6 788</b>	<b>130 218</b>
31/12/95	GOV	12 526	25 589	19 483	10 746	7 468	4 750	<b>80 562</b>
	SUPRA	3 047	5 732	5 150	4 900	700	600	<b>20 129</b>
	Others	6 963	9 954	6 099	4 337	1 438	1 325	<b>30 116</b>
	Total	<b>22 536</b>	<b>41 275</b>	<b>30 732</b>	<b>19 983</b>	<b>9 606</b>	<b>6 675</b>	<b>130 807</b>
31/12/94	GOV	11 288	20 359	21 093	10 021	10 235	5 750	<b>78 746</b>
	SUPRA	2 610	6 359	4 900	5 170	2 200	600	<b>21 839</b>
	Others	9 315	12 235	7 654	5 134	2 177	1 325	<b>37 840</b>
	Total	<b>23 213</b>	<b>38 953</b>	<b>33 647</b>	<b>20 325</b>	<b>14 612</b>	<b>7 675</b>	<b>138 425</b>
31/12/93	GOV	9 942	22 316	15 040	6 263	9 781	7 048	<b>70 390</b>
	SUPRA	3 125	5 457	5 657	3 480	4 360	1 000	<b>23 079</b>
	Others	10 567	16 094	8 254	4 099	3 428	2 426	<b>44 868</b>
	Total	<b>23 634</b>	<b>43 867</b>	<b>28 951</b>	<b>13 842</b>	<b>17 569</b>	<b>10 474</b>	<b>138 337</b>

GOV = Central governments

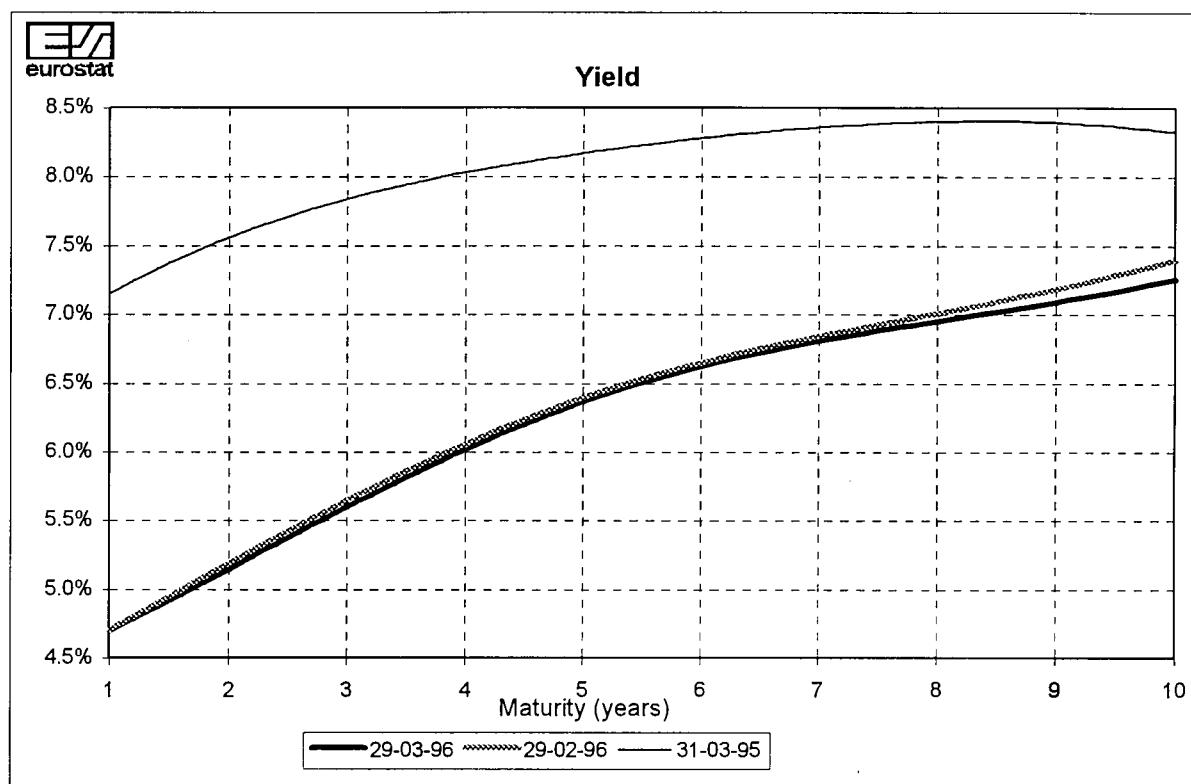
SUPRA = Supranational institutions

**TABLE VIII**  
**TOTAL OF THE SECONDARY MARKET TURNOVER AND % OF MARKET TAKEN BY ECU SECURITIES**

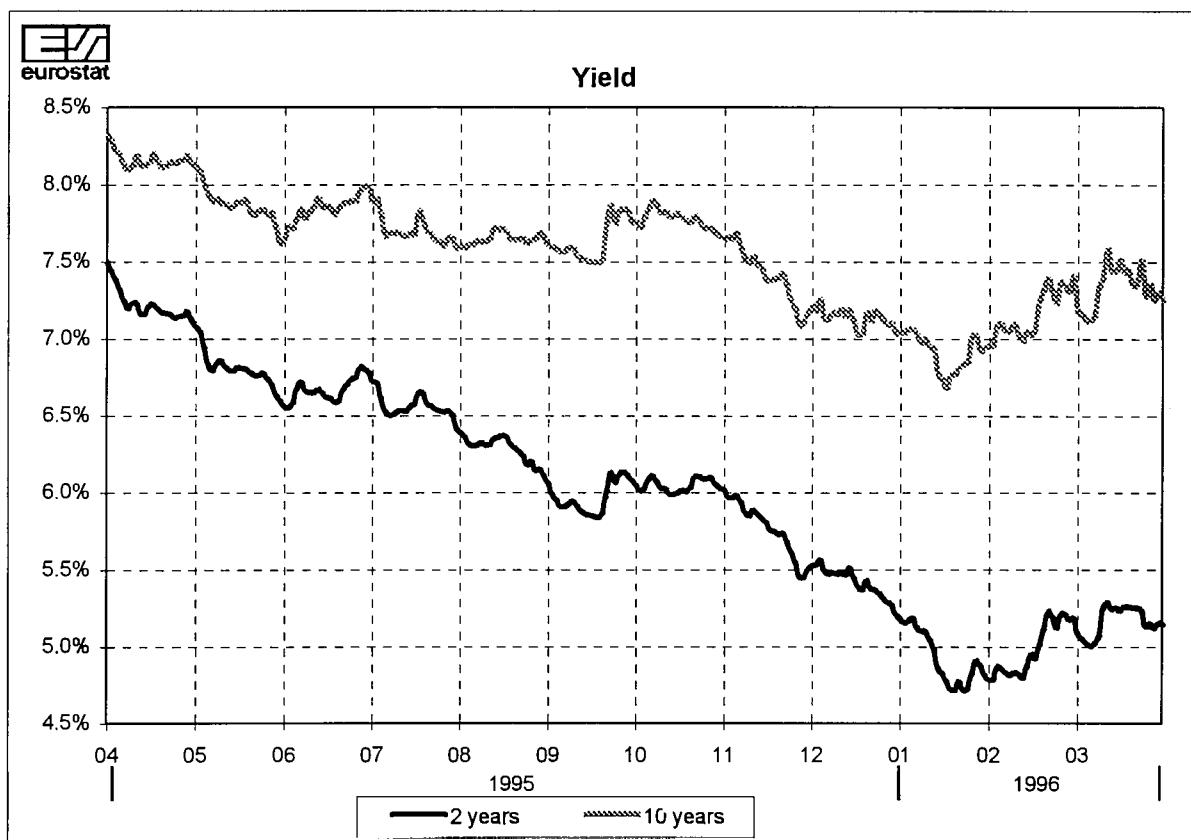
 eurostat	Turnover in millions of USD			% of market held by ECU securities by instrument					Short- & med. term notes	
	All currencies	of which		Eurobonds straights	Others straights	Convertibles	Floating rate notes	Certificates of deposits		
		ECU	USD							
1991	7 543 435	1 299 480	2 024 440	25.69	11.71	1.26	2.49	4.52	19.30	
1992	12 817 697	1 795 023	2 471 247	23.15	8.66	2.76	3.94	6.47	20.83	
1993	21 147 243	1 396 407	3 381 535	11.14	3.76	1.78	1.96	6.70	17.22	
1994	26 885 805	1 760 679	4 726 177	11.16	3.72	1.20	0.69	0.34	23.65	
1995	32 410 622	2 281 559	5 718 454	8.45	4.52	0.77	1.48	0.37	26.95	
1995	3 037 173	212 076	492 518	10.22	3.54	1.17	0.49	0.00	30.21	
4	2 359 644	198 204	368 215	11.15	4.53	1.21	0.53	0.00	33.82	
5	2 720 118	199 694	480 973	9.07	4.88	0.63	0.64	0.00	26.62	
6	3 029 619	197 060	498 115	7.78	4.00	0.45	0.77	0.00	27.29	
7	2 489 705	180 718	444 664	8.68	4.73	0.83	1.14	0.00	26.78	
8	2 594 620	202 718	459 810	8.56	5.55	0.81	2.00	0.00	27.02	
9	3 000 252	222 858	477 199	7.81	5.36	0.82	2.66	0.00	25.65	
10	2 972 404	208 854	529 695	7.38	4.74	0.57	3.44	0.00	25.66	
11	3 032 561	179 864	509 295	6.70	4.12	0.61	2.84	0.00	23.09	
12	2 846 058	150 598	493 047	6.02	4.24	0.88	1.96	0.00	17.04	
1996	1 3 412 617	197 548	646 640	5.97	4.04	1.66	1.70	0.00	23.92	
2	3 694 223	192 959	668 635	5.72	3.69	1.03	1.04	0.00	21.37	



**GRAPH 3: ECU YIELD CURVE**



**GRAPH 4: EVOLUTION OF ECU YIELDS**





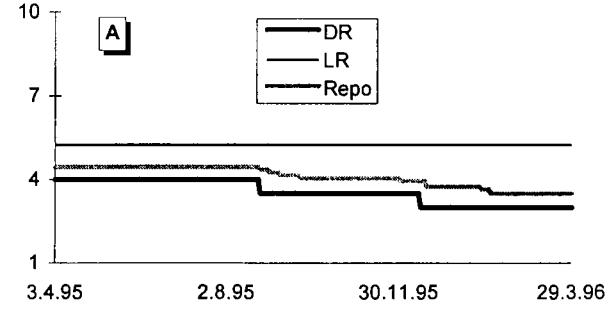
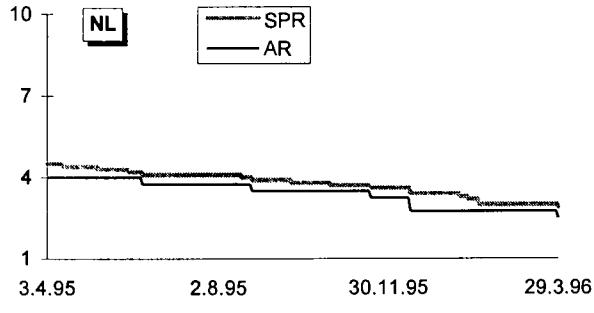
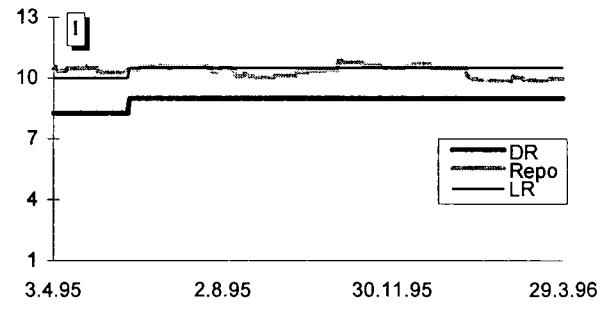
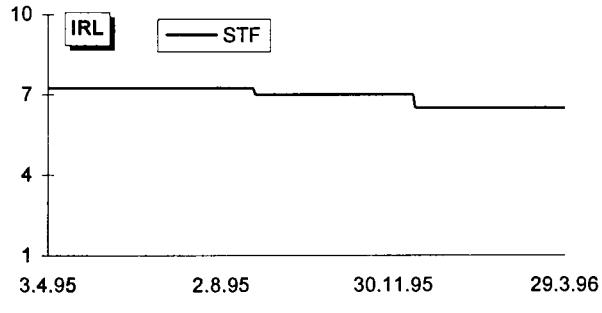
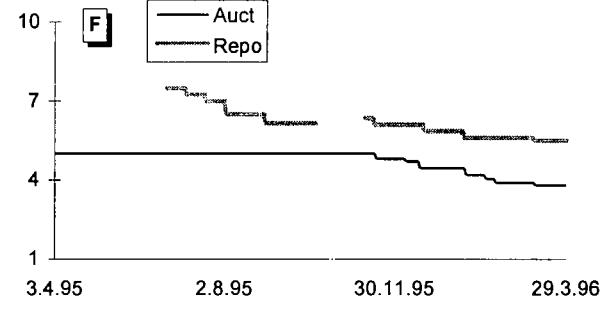
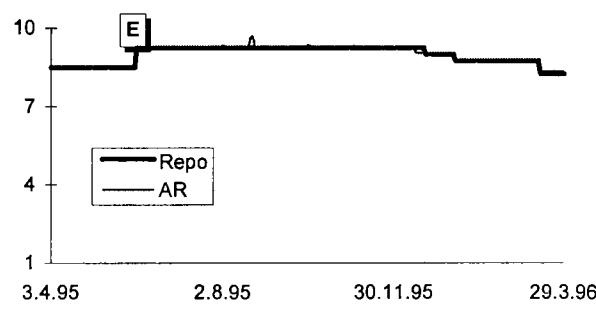
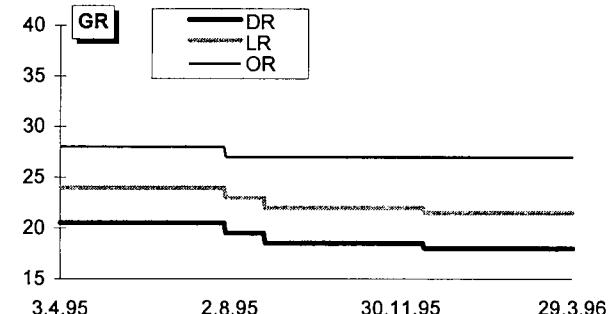
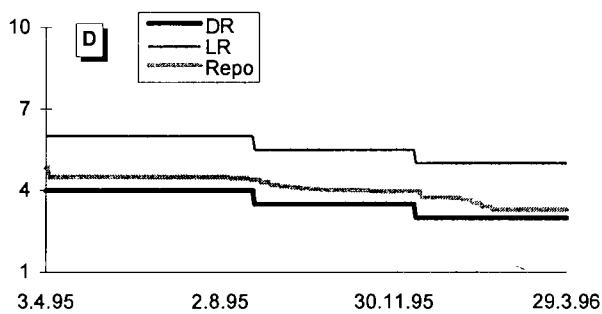
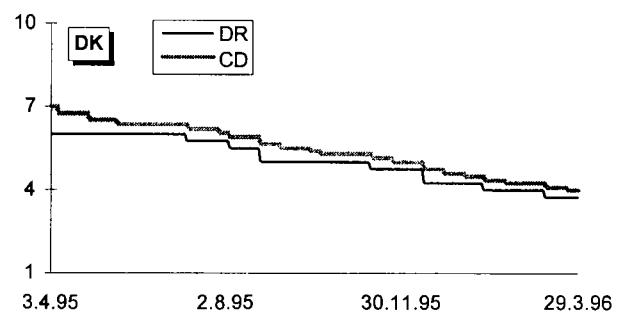
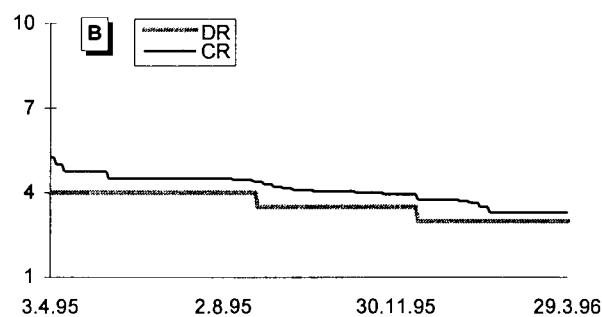
**TABLE X**  
**CENTRAL BANK INTEREST RATES**

F	IRL	I	NL			A			P						Eurostat	
AUCT	REPO	STF	DR	LR	REPO	SPR	AR	DR	LR	REPO	PRR	SFR	DR R	DRO	PRO	Eurostat
<b>RATES AT THE END OF:</b>																
5.00	susp	7.25	8.25	10.00	10.35	4.50	4.00	4.00	5.25	4.45	10.112	11.50	8.50	8.500	9.000	03/95
5.00	susp	7.25	8.25	10.00	10.49	4.40	4.00	4.00	5.25	4.45	9.009	11.50	8.50	8.500	9.031	04/95
5.00	susp	7.25	9.00	10.50	10.40	4.20	4.00	4.00	5.25	4.45	8.996	11.50	8.50	8.500	8.875	05/95
5.00	7.50	7.25	9.00	10.50	10.55	4.10	3.75	4.00	5.25	4.45	8.912	11.50	8.50	8.500	8.941	06/95
5.00	7.00	7.25	9.00	10.50	10.30	4.10	3.75	4.00	5.25	4.45	8.883	11.50	8.50	8.500	8.887	07/95
5.00	6.15	7.00	9.00	10.50	10.02	3.90	3.50	3.50	5.25	4.35	8.750	11.00	8.25	8.250	8.750	08/95
5.00	6.15	7.00	9.00	10.50	10.29	3.80	3.50	3.50	5.25	4.05	8.750	11.00	8.25	8.250	8.750	09/95
5.00	susp	7.00	9.00	10.50	10.77	3.70	3.50	3.50	5.25	4.05	8.750	11.00	8.25	8.250	8.750	10/95
4.80	6.10	7.00	9.00	10.50	10.52	3.60	3.25	3.50	5.25	4.05	8.750	11.00	8.25	8.250	8.750	11/95
4.45	5.85	6.50	9.00	10.50	10.50	3.40	2.75	3.00	5.25	3.75	8.500	10.50	7.75	7.750	8.501	12/95
4.20	5.60	6.50	9.00	10.50	9.88	3.20	2.75	3.00	5.25	3.65	8.250	10.50	7.75	7.750	8.250	01/96
3.90	5.60	6.50	9.00	10.50	10.01	3.00	2.75	3.00	5.25	3.50	8.000	10.50	7.75	7.750	8.000	02/96
3.80	5.50	6.50	9.00	10.50	9.98	2.90	2.50	3.00	5.25	3.50	:	:	:	:	:	03/96
<b>RECENT ACTUAL CHANGES</b>																
4.05					3.00				3.50							01.02.96 02.02.96 05.02.96 06.02.96 07.02.96 08.02.96 09.02.96 12.02.96 13.02.96 14.02.96 15.02.96 16.02.96 19.02.96 20.02.96 21.02.96 22.02.96 23.02.96 26.02.96 27.02.96 28.02.96 29.02.96
3.90					9.87											
					10.07 10.01											
5.50					9.89											01.03.96 04.03.96 05.03.96 06.03.96 07.03.96 08.03.96 11.03.96 12.03.96 13.03.96 14.03.96 15.03.96 18.03.96 19.03.96 20.03.96 21.03.96 22.03.96 25.03.96 26.03.96 27.03.96 28.03.96 29.03.96
3.80					9.87						7.900	10.25	7.50			
					9.96											
					9.98											
						2.90	2.50									

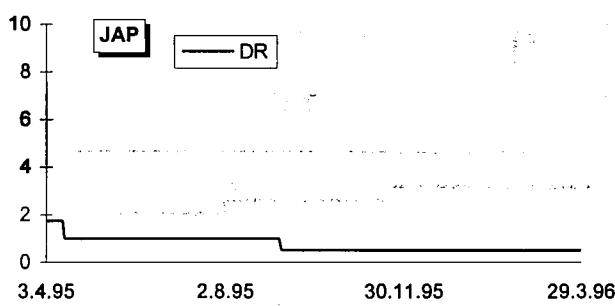
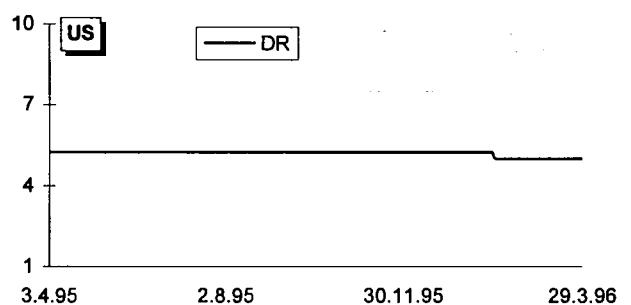
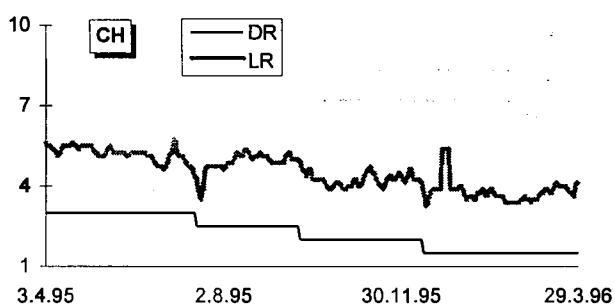
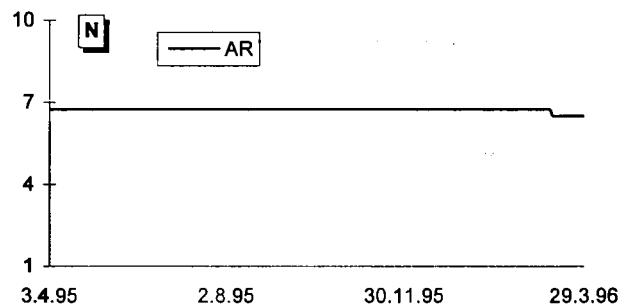
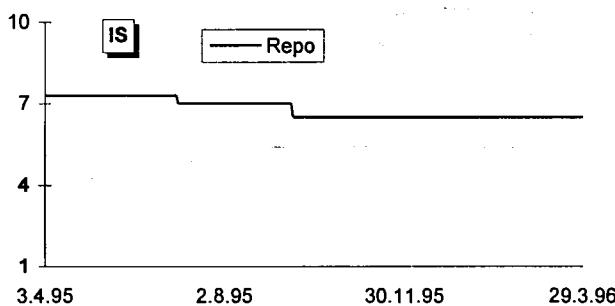
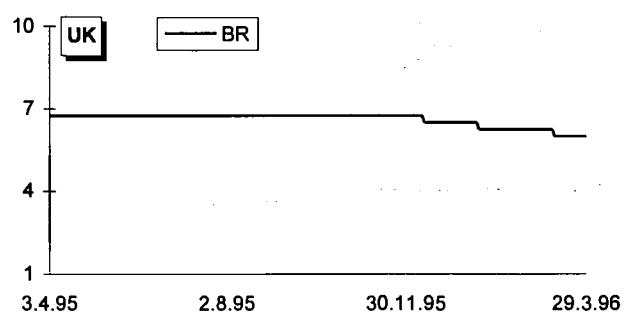
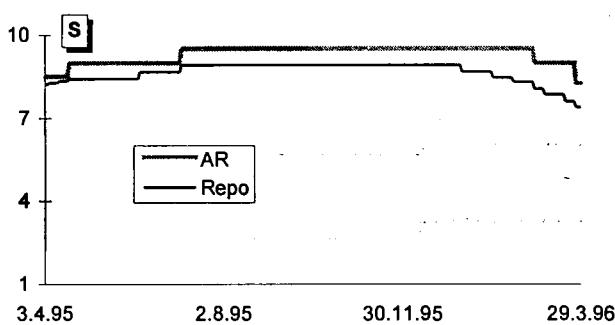
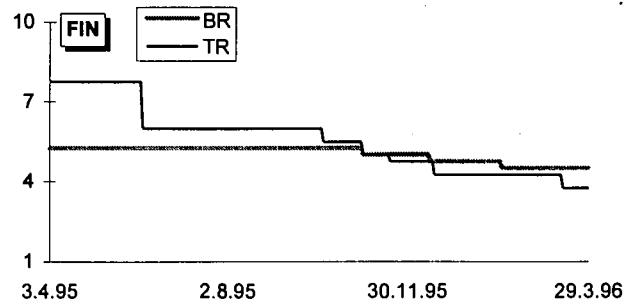
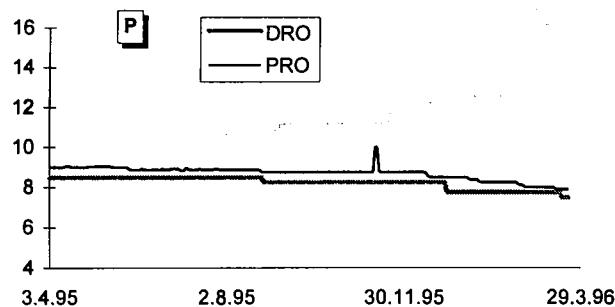
Please see explanatory notes at the end of the publication for the key to the various rates. Data series with the same abbreviation are not necessarily internationally comparable.



## EVOLUTION OF CENTRAL BANK INTEREST RATES OVER THE LAST 12 MONTHS



## EVOLUTION OF CENTRAL BANK INTEREST RATES OVER THE LAST 12 MONTHS



## EXPLANATORY NOTES

### Exchange rate grid (Table I)

The intervention limit rates fixed in the official grid do not always correspond exactly to + or - 15 % of the central rates, since for each currency pair (whose exchange rates are inversely proportional to one another) the lower limit of one corresponds to the upper limit of the other.

### Bilateral fluctuations of the ERM currency (Graph 1 on page 5)

The daily market exchange rates of all currencies are compared with the relevant bilateral central rates and the differentials between the two calculated.

The graph is divided symmetrically by a horizontal axis along which the points would be plotted if all currencies were at their bilateral central rate and there were therefore no fluctuations.

The curves are drawn by linking the daily points showing the relative positions of each currency. These should be compared in pairs. To find the differential between two currencies, subtract the (positive or negative) values along the y-axis corresponding to each currency.

The graph is drawn with the curve of the stronger currency above that of the weaker. It shows therefore the relative position of each currency vis-à-vis the other currencies.

When two curves intersect or merge over a period of time there is no differential between the two currencies and their market exchange rate equals their bilateral central rate.

The maximum fluctuation between two currencies is shown within the band, symmetrical with the horizontal axis. The fluctuations of the other currencies in relation to either of the two currencies in question are shown within the maximum permissible fluctuation.

### The divergence indicator (Graph 2 on page 5)

The divergence indicator (DI) measures the degree of movement of a specific EMS currency against its maximum divergence spread. In effect, the DI is a mechanism which detects the EMS currencies that deviate upwards or downwards from the Community average as represented by the ECU.

For a given currency the divergence indicator is obtained:

- (i) first by calculating the appreciation or depreciation of the market rate of the ECU in terms of that currency against its ECU-related central rate;
- (ii) and then by comparing the result obtained with the maximum divergence spread (MDS), which is the intervention limit, corrected by the weight of each currency in the basket in such a way that an increase in the weight of a currency reduces its maximum divergence spread.

In order to permit a comparison of movements in the divergence indicators for each of the EMS currencies, the MDS is expressed as an index number ranging between +/- 100. At an absolute index number of 75, a currency reaches its divergence threshold. When a currency crosses its "threshold of divergence", this results in a presumption that the authorities concerned will correct this situation by taking adequate measures.

### ECU exchange rates (Table II)

The exchange rates for the ECU against the national currencies of the member states of the Community, the USD and yen are shown as annual averages, monthly averages (for the current year), and daily rates (for the latest available month).

### Consumer price indices in national currency (Table III)

The consumer price indices in the national currency of each country measure changes in the purchasing power of one unit of national currency spent in the country concerned.

Two composite indices are calculated, covering all the member states of the Community (EUR 15) and the 10 member states with currencies participating in the European Monetary System exchange rate mechanism (ERM). (Although the peseta has been participating in the exchange rate mechanism since 19/06/89 and has been included in the calculation of the ECU since 21/09/89, it is only taken into account in the indices relating to the ERM which are included in this bulletin for data after 30/09/89.)

These indices are calculated as weighted arithmetic means (chain indices) of the national indices, the weighting for each member state being its relative share in the final consumption of households of the group of countries in question (EUR 15, ERM), expressed in purchasing power standards, at current prices and purchasing power parities.

### Consumer price indices in ECUs (Table IV)

For each country the index of consumer prices in ECUs is calculated by multiplying the national consumer price index by the average movement of the national currency in relation to the ECU during the month. It measures the change in the purchasing power of one ECU in the country concerned.

Three composite indices are calculated, the first covering all the member states of the Community (EUR 15), the second covering 10 member states participating in the European Monetary System exchange rate mechanism (ERM), and the third covering the 12 member countries whose currencies go to make up the ECU. (Although the peseta has been participating in the exchange rate

mechanism since 19/06/89 and has been included in the calculation of the ECU since 21/09/89, it is only taken into account in the indices relating to the ERM which are included in this bulletin for data after 30/09/89).

These three indices are calculated as weighted arithmetic means (chain indices). The weightings are defined as follows: for the EUR 15 and ERM indices, the relative share of each member state in the final consumption of households for the group of countries in question (EUR 15 or ERM), expressed in ECUs at current prices and exchange rates (annual weighting). For the ECU index, the relative share of each member state's currency in the calculation of the ECU (monthly weighting).

### **ECU bond issues (Tables V & VI)**

In table V, issues are recorded as at the payment date. This bulletin covers ECU issues in the Eurobond market, which includes international and foreign issues and domestic issues which can be assimilated with Eurobond issues. More specifically, the domestic issues should be free of withholding tax in the hands of non-residents and subject to similar clearing and settlement procedures. This includes ECU issues offering the option of conversion into other currencies. Main source: International Financing Review.

Table V shows, under the headings:

- Business sector and Governments: national issuers, both private and public.
- Institutions: the European Investment Bank and the Commission of the European Communities (EEC, ECSC, Euratom).
- Organizations: the specialist institutions of the United Nations, the World Bank, the Council of Europe, etc... .

Table VI shows detailed information on the latest known issues, irrespective of the payment date.

### **Outstanding amount of ECU bonds (Table VII)**

This table shows the bonds in ECUs outstanding at the end of the last three months and at the end of the last three years. These statistics are taken from a particularly comprehensive database and measure the volume of ECU bonds in circulation. The overall figure is broken down in two ways - by residual maturity and by type of issuer.

### **Total of the secondary market turnover and % of market taken by ECU securities**

This table shows the volume of transactions on securities conducted by the international clearing houses Cedel and Euroclear. The market shares of the various types of instrument are calculated. These statistics do not cover all

transactions throughout the world, since internal movements are not included. They do, however, give a realistic idea of market developments.

### **Interest rates and yields on ECU investments (Table IX)**

The interest rates for 1, 3, 6 months and 1 year deposits are calculated on the basis of the London market rates LIBID as follows:

- until October 1993: source: Financial Times, Friday rate.
- from November 1993: source : Bank of England, British Banker's Association, daily rates.

The yields of ECU bonds at 1 - 10 years are those provided by Eurostat's yield curve. These are redemption yields. Eurostat's yield curve, which portrays the interest rate structure of maturities ranging from 1 to 10 years, is based on highest quality issues with a triple-A rating of at least ECU 500 million outstanding, with a very high liquidity (bid-offer spread less than 50 basis points). The curve is calculated daily by fitting a third order polynomial function by regression to the price/yield values of bonds provided by ISMA (International Securities Market Association, London). These values reflect the mean of bid and offer prices communicated by a comprehensive range of financial institutions. The monthly figures included in the table are the arithmetic average of daily figures and the yearly figures are the arithmetic average of daily figures.

### **Operation rates of the EMI (Table IX)**

The interest rate for transactions of the EMI (European Monetary Institute) in ECUs is the weighted average of the most representative rates on the domestic money market of the countries whose currencies make up the ECU basket. It is based on the weighting of the currencies in the ECU basket as derived from the ECU central rates in force. The rate thus calculated for a given month applies to EMI transactions for the following month. In table VII, this rate relates to the month upon which the calculations are based and not to the (following) month during which it is used by the EMI.

### **ECU yield curve**

These graphs show the trend in yields on ECU bonds. Graph 3 shows the ECU yield for bonds due at the end of the last month, at the end of the preceding month and one year previously. Graph 4 shows the development in yields for maturities of 2 and 10 years over the last 12 months. The difference between these two curves reflects the gradient of the rates curve.

## Central Bank Interest Rates in the EEA countries, in the US, Japan and Switzerland (Table X)

### BELGIUM

#### Official intervention rates:

**Discount rate (DR):** rate at which credit institutions can discount commercial paper at the BNB within the ceilings fixed individually according to balance sheet items.

**1-week credit granted by tender (AUCT):** rate at which the BNB grants cash by tender to credit institutions. The duration of these loans is generally 1 week but can be longer under particular circumstances.

**Advances to meet daily deficits (AR):** rate at which credit institutions receive money from the BNB within quotas which vary between credit institutions according to balance sheet items and to turnover in the secondary market for government debt-securities.

**Central Bank rate (CR):** rate at which Primary dealers<sup>1</sup> receive overnight money, up to a fixed maximum which is the same for each Primary dealer, from the BNB. This rate will be the next rate applied to the 1-week credit granted by tender.

### DENMARK

#### Intervention rates:

**Discount rate (DR):** indicative rate which is not attached to any facility with the Danmarks Nationalbank. Within quotas based on the size of the individual bank, deposits on banks' current account with the Danmarks Nationalbank are remunerated by the folio rate. This rate has been equal to the discount rate since the introduction of the present liquidity instruments in April 1992.

**Certificates of deposit (CD):** rate on 14-day certificates of deposit issued on the last banking day of each week by the Nationalbank.

**Repurchase agreements (REPO):** rate at which the banks have access to enter into 14-day repurchase agreements in government paper with the Nationalbank. These transactions take place on the penultimate banking day of each week, affecting bank liquidity the following day. The interest rate on repos has equalled the rate on CDs since April 1992.

### GERMANY

#### Intervention rates:

**Discount rate (DR):** rate at which the Bundesbank discounts eligible trade bills within the limits of the rediscount quotas.

**Lombard rate (LR):** rate at which the Bundesbank grants loans to banks against certain securities. These loans have

a maturity of up to 90 days and are granted against collateral of government and public sector securities.

**Rate on repurchase agreements (REPO):** rate applied to the Bundesbank's repurchase facility. The Bundesbank buys bonds eligible as collateral for Lombard loans and short-term Treasury discount paper from those banks subject to minimum reserve requirements. These transactions are usually offered by fixed-rate tender or by variable-rate tender for a period of 14, 28 or 35 days.

#### Other rate:

**3-day Treasury bills (3D TB):** rate on bills that can be bought or sold by a specific list of banks. This establishes a floor for the cost of short-term money in addition to the fixed amount provided by the discount window.

### GREECE

#### Intervention rates:

**Rediscount rate (DR):** rate at which the Bank of Greece rediscounts commercial bills. This facility is subject to overall quotas which are allocated among credit institutions according to criteria relating to the size of certain balance sheet items.

**Lombard rate (LR):** rate at which the Bank of Greece grants liquidity to banks against collateral of government paper. As for the discount window, this facility is subject to overall quotas which are allocated among credit institutions according to criteria relating to the size of certain balance sheet items.

**Rate on overdrafts on banks' current accounts with the Bank of Greece (OR):** rate at which credit institutions can cover unexpected liquidity shortages by overdrawing their current accounts with the Bank of Greece.

### SPAIN

#### Intervention rates:

**Short-term credit to banks (REPO):** marginal auction rate of 10-day repo purchases of Banco de España certificates. The Bank of Spain purchases the certificates (with a resale agreement at the maturity of the operation) from banks and savings banks according to the requirements accepted in the auction.

**Rate on overnight loans granted by the Banco de España (AR):** this rate is considered as being an unofficial intervention rate, but is often used by the Banco de España as an instrument of its monetary policy. It is the rate at which the Banco de España intervenes in the money market. Market makers are asked to make bids in terms of amounts and rates, and the Bank of Spain decides at which point operations should be closed.

The rate published here is the average weighted rate resulting from the intervention.

<sup>1</sup> Primary dealers are market makers for government linear bonds (OLO) and Treasury certificates.

**FRANCE****Intervention rates:**

**Auction (AUCT):** twice a week, the Central Bank invites tenders (against collateral) in order to assess credit institutions' demand for Central Bank money. After a centralisation of the requests, the Central Bank will only allocate a proportion of them. The rate is, in practice, known in advance and is intended as a floor for money market rates.

**Sales with repurchase agreements (REPO):** rate at which banks get liquidity from the Central Bank against Treasury bills or commercial paper. This emergency facility carries a penalty rate that is designed as a ceiling for market rates.

**IRELAND****Intervention rate:**

**Short-term facility rate (STF):** rate at which the Central Bank grants short-term credits to banks for a period of between 1 day and 1 week.

**ITALY****Intervention rates:**

**Discount rate (DR):** rate at which the Banca d'Italia discounts commercial bills.

**Fixed-maturity advances rate (LR):** rate charged by the Banca d'Italia for advances with a maximum maturity of 22 days against eligible securities for special short-term needs.

**Other rate:**

**Repurchase agreements (REPO):** the Bank of Italy intervenes when it perceives the need to add or drain liquidity, in view of its targets in terms of money rates and sales of government securities. The repo allocation is based on variable rates. Foreign currency repos are also conducted, in addition to the securities repos.

**NETHERLANDS****Intervention rates:**

**Discount rate (DR):** rate at which the Central Bank discounts Treasury paper and approved bills of exchange with a remaining maturity not exceeding 3 months. From 1 January 1994, the Central Bank no longer accepts paper for discounting and thus this rate no longer exists. Data until 12/93 are available on request from Eurostat.

**Rate on special advances (SPR):** rate charged by the Central Bank to financial institutions for short-term advances.

**Official advance rate (AR):** rate at which advances on current account against collateral are mainly granted, within a certain limit, to registered credit institutions and a number of public and semi-public financial institutions. This rate establishes a floor for money market rates.

**Rate on discount of promissory notes (PRNT):** rate serving as a benchmark for commercial rates. From 1 January 1994, the discount rate on promissory notes is maintained as an interest rate, given its use as a reference rate for legal purposes, but it will no longer be published. It is equal to the prevailing rate on advances plus 0.5 percentage points. Data until 12/93 are available on request from Eurostat.

**AUSTRIA****Intervention rates**

**Discount rate (DR):** rate at which the Central Bank rediscounts bills of exchange. To qualify for discounting, the paper presented must fulfil certain eligibility requirements. Refinancing ceilings for individual banks are determined on the basis of specified balance sheet items.

**Lombard rate (LR):** rate at which the Central Bank grants loans to banks against collateral. Since this rate is a penalty rate, it is higher than both the discount and the Gomex rate.

**Gomex rate (REPO):** rate applied to the Central Bank open market operations. Within each bank's refinancing quota, the Central Bank conducts open market transactions in fixed income securities issued by residents or supranational organisations, denominated in Austrian shillings and listed on the Vienna stock exchange or in cash certificates issued by the central bank.

**PORTUGAL****Intervention rates:**

**Regular rate for liquidity provision (PR R):** rate at which the Banco de Portugal supplies liquidity to the money market. The regular operations take place on the first working day of each regular maintenance period (1 week) and mature in the first working day of the subsequent period. When the regular rate for liquidity provision is suspended, the Banco de Portugal can also conduct operations at a variable rate, which take place on the first working day of the regular maintenance period. These data are not given here but are available from Eurostat.

**Standing facility rate (SFR):** the standing facility refers to liquidity provision operations which mature on the next working day following the day on which transaction takes place, and which take place at the pre-announced rate. The institutions' access to this facility is limited by way of a quota, established on the beginning of each month as a percentage of the total amount of the facility (currently 100 billions of escudos).

**Regular liquidity draining rate (DR R):** rate at which the Banco de Portugal withdraws liquidity from the money market by selling Treasury bills with repurchase agreement or Central Banks monetary certificates. The regular operations take place on the first working day of each regular maintenance period (1 week) and mature in the first working day of the subsequent period.

**Other rates:**

**Occasional operations of liquidity draining (DR O):** the Banco de Portugal also conducts occasional operations of liquidity draining with a view to stabilising the money market.

**Occasional operations of liquidity provision (PR O):** the Banco de Portugal also conducts occasional operations of liquidity provision with a view to stabilising the money market.

**FINLAND**

**Base rate (BR):** the base rate is an administered interest rate set by the Parliamentary Supervisory Board. Its importance has diminished along with the developments of markets in Finland. Nonetheless, it is still of importance since a fairly large proportion of deposits and outstanding loans are tied to it, and these rates are adjusted whenever there is a change in the base rate.

**Tender rate (TR):** rate determined by tenders held by the Central Bank in which banks are asked to make bids or offers for money market instruments with a maturity of 1 month. The tender rate is a weighted average of accepted bids or offers.

**Other rates:**

**Liquidity credit rate (AR):** rate charged to banks by the Bank of Finland for loans with a maturity of 1 day, 7 days, 14 days, 21 days and 28 days. The rate is the sum of the tender rate and the interest rate margin for credit liquidity. The liquidity credit has replaced the overnight facility.

**SWEDEN****Intervention rates:**

**Lending rate (AR):** rate at which the Riksbank supplies cash to banks. Each bank has a borrowing facility equivalent to 4% of its capital base; terms for any borrowing in excess of this amount are determined at the discretion of the Riksbank.

**Other rates:**

**Repo rate (Repo):** rate applied to the Riksbank's operations on repurchase agreement. These transactions are usually offered on Tuesdays for a period of 14 days. The repo rate fluctuates in a band between the lending and the deposit rates.

**Discount rate (DR):** from the second quarter of 1992, the discount rate should be regarded solely as a reference rate. It is determined at the beginning of each quarter solely on the basis of interest rates in the preceding quarter. It is computed as a weighted average of the daily market rates for 6-month Treasury discount notes and 5-year government bonds in the preceding quarter less two and a half percentage points, rounded to the nearest whole or half point.

**Rate for industrial bonds (IBR):** this is an administratively determined interest rate. It is the rate at which industrial bonds with an interest period of 2.5 years are adjusted.

The structure of Swedish central bank rates was changed from 1.6.94. Data on the marginal rate for the period 9.92 to 5.94 are available from Eurostat.

**UNITED KINGDOM**

Until 1981, the Bank of England used an official continuously posted rate to signal its interest rate intentions. This was called the Minimum Lending Rate and was the rate at which the Bank of England lent to the discount houses. Since then its intentions have been signalled on most days by the rate at which it purchases bills in bands 1 and 2 (ie up to one month in maturity); otherwise it has tended to announce interest rate changes by posting a Minimum Lending Rate, applying now for one day only.

These operations are used by the Bank of England to signal changes in the key rate in the UK financial market, the commercial banks' **base rate (BR)**. This is a good indicator of the broad level of short-term interest rates.

**ICELAND**

**Discount rate (DR):** Rate on loans within quota. Banks are able to obtain short-term credits within this quota.

**Repurchase agreements (Repo) rates:** rates on 10 day repos, when the Central Bank purchases Treasury bills with a repurchase condition.

**Certificates of deposit (CD) rate:** a fixed rate on 45 day CDs issued by the Central Bank.

**NORWAY****Intervention rate:**

**Overnight lending rate (AR):** rate at which commercial and saving banks can borrow from the Norges Bank on a day to day basis. The ceiling on loans available for each half-month is set in percent of the banks' capital base, excluding subordinated loan capital.

**SWITZERLAND**

**Lombard rate (LR):** rate at which the Central Bank grants loans to banks against collateral. This rate is a penalty rate against banks which have underestimated their liquidity needs. It is calculated on the basis of the market rates of the two previous days plus 2 points.

**Discount rate (DR):** rate at which the Central Bank discounts bills of exchange, cheques, Treasury bills issued by the Confederation and bills issued by the Cantons and Communes. The maturity of discounted paper may not exceed 6 months.

**UNITED STATES**

**Discount rate (DR):** rate at which the Federal Reserve Banks discount eligible paper for, and make advances to, depository institutions.

**JAPAN**

**Discount rate (DR):** rate at which the Bank of Japan discounts commercial bills.





March 1996. The proportion of bonds issued by the institutional sector has increased and private issuers have decreased since 1993.

### Volume of transactions in ECU securities on the secondary market

This table shows the turnover volume in securities conducted by the international clearing houses Cedel and Euroclear. The market shares of the various types of instrument are calculated. For example, Eurobonds in ECUs accounted for 5.72% of the total for all currencies in February 1996 - a much smaller proportion than in previous years. These statistics do not cover all transactions throughout the world, since domestic market turnover is not included. They do, however, give a realistic idea of market developments.

### ECU yield curve

These graphs show the trend in yields on ECU bonds. The yield rates were calculated on a day-to-day basis by Eurostat, using the bond prices communicated by the International Securities Market Association. The bonds in the basket must meet strict admission criteria. Linear regression makes it possible to establish a yield function for any maturity of between one and ten years. Graph 3 shows the ECU yield for bonds due at the end of the last month, at the end of the preceding month and one year previously. The shape of the curve is also a source of information. Graph 4 shows the development in yields for maturities of 2 and 10 years over the last 12 months. The difference between these two curves reflects the gradient of the rates curve.

### Central bank interest rates

- On 7.3.1996 the Danmarks Nationalbank lowered its discount rate (DR) by 0.25% to 3.75%.
- On 13.3.1996 the Banco de España cut its rate on short-term credit to banks (Repo) by 0.50% to 8.25%.
- On 8.3.1996 the Banque de France cut its auction rate (Auct) by 0.10% to 3.80%.
- On 29.3.1996 the Nederlandsche Bank lowered its official advance rate (AR) by 0.25% to 2.50%.
- On 13.3.1996 the Bank of Finland cut its tender rate (TR) by 0.50% to 3.75%.
- The Swedish Riksbank lowered 3 times its repo rate (Repo):  
on 6.3.1996 by 0.20% to 7.85%  
on 20.3.1996 by 0.25% to 7.60% and  
on 27.3.1996 by 0.20% to 7.40%.
- On 8.3.1996 the Bank of England signalled a fall of 0.25% to 6% in the bank base rate (BR).
- On 8.3.1996 the Norges Bank cut its overnight lending rate (AR) by 0.25% to 6.50%.

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