

ECU-EMS information

11-12 □ 1991 Monthly

MAASTRICHT SUMMIT: SINGLE EUROPEAN CURRENCY BY 1 JANUARY 1999 AT THE LATEST

The decisions taken at the Maastricht summit, which were given a precise timetable, have removed some of the uncertainties surrounding the process of monetary union which had weighed heavily on the ecu markets since the middle of October 1991. The second phase of economic and monetary union will begin on 1 January 1994 with the establishing of a European Monetary Institute. The composition of the ecu will not be changed. On 1 January 1997 at the earliest (or possibly even before then) and by 1 January 1999 at the latest, the European Central Bank will be set up and the countries that fulfil certain economic conditions will take part in monetary union.

On 15 November 1991, following pressure on the Finnish mark, the Finnish monetary authorities changed the central rate and the upper and lower rates for the Finnish mark against the ecu which had been fixed in June 1991. The new central rate is FMK 5.55841 to the ecu, instead of the previous rate of 4.87580, and the limits are now FMK 5.72516 and 5.39166 to the ecu.

On the international bond market, very few bonds were issued in the weeks leading up to the Maastricht summit. On the domestic bond market, the Italian Treasury issued a new five-year CTE (Treasury bill in ecu) at a value of ECU 700 million and the French Treasury issued a new instalment of its OAT (assimilated Treasury bond) in ecu at 8.5%, with a maturity date of March 2002, for ECU 449 million. The Belgian Treasury announced its intention to issue "obligations linéaires" (OLOs) in ecu in 1992.

As announced in the previous issue of this bulletin, a summary of the monthly consumer price indices in ecu by country and for the three aggregate indices (EUR 12, EMS and ECU) is given in the centre pages of this issue. The method by which the indices were calculated is described in the explanatory notes at the end of this bulletin.



OFICINA ESTADÍSTICA DE LAS COMUNIDADES EUROPEAS
DE EUROPÆISKE FÆLLESSKABERS STATISTISKE KONTOR
STATISTISCHES AMT DER EUROPÄISCHEN GEMEINSCHAFTEN
ΣΤΑΤΙΣΤΙΚΗ ΥΠΗΡΕΣΙΑ ΤΩΝ ΕΥΡΩΠΑΪΚΩΝ ΚΟΙΝΟΤΗΤΩΝ
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. 43011 – Télex : Comeur Lu 3423
B-1049 Bruxelles, bâtiment Berlaymont, rue de la Loi 200 (bureau de liaison) – Tél. 235 1111

Note

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

tel.	4301-4785	T. Mathisse
	4301-3288	G. Thouvenin
	4301-4770	S. Ansion

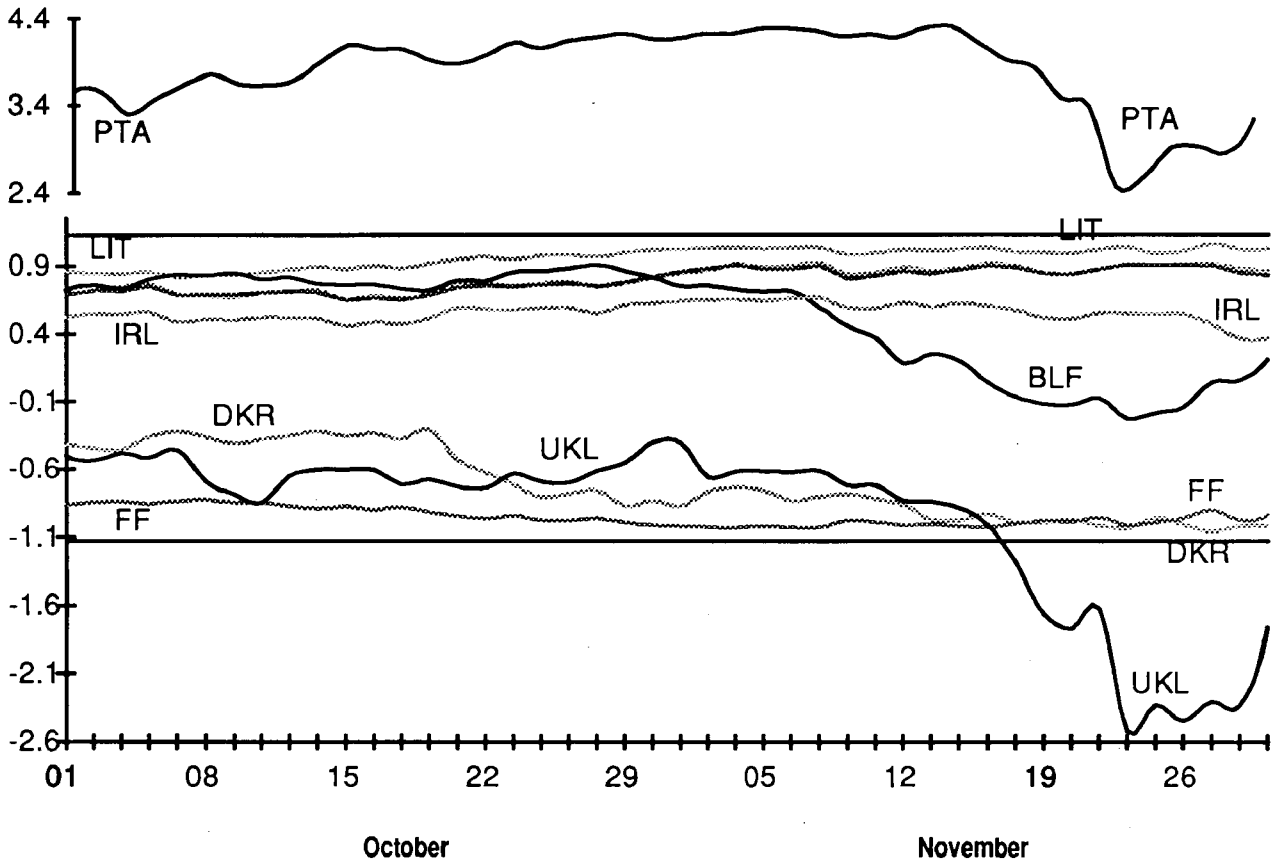
Fax	4301-4150
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TABLE I

BILATERAL FLUCTUATIONS OF THE ERM CURRENCIES



CENTRAL RATES AND INTERVENTION LIMIT RATES, IN FORCE SINCE 8 OCTOBER 1990, FOR THE CURRENCIES OF COUNTRIES PARTICIPATING IN THE EMS EXCHANGE MECHANISM.

	BLF	DKR	DM	FF	HFL	IRL	LIT	PTA	UKL
100 BLF +		18.9143	4.95900	16.6310	5.58700	1.85100	3710.20	334.619	1.74510
= ...	100	18.4938	4.84837	16.2608	5.46286	1.80981	3627.64	315.143	1.64352
-		18.0831	4.74000	15.8990	5.34150	1.76950	3546.90	296.802	1.54790
100 DKR +	553.000		26.8100	89.9250	30.2100	10.0087	20062.0	1809.40	9.43610
= ...	540.723	100	26.2162	87.9257	29.5389	9.78604	19615.4	1704.05	8.88687
-	528.700		25.6300	85.9700	28.8825	9.56830	19179.0	1604.90	8.36970
100 DM +	2109.50	390.160		343.050	115.2350	38.1825	76540.0	6901.70	35.9970
= ...	2062.55	381.443	100	335.386	112.6730	37.3281	74821.7	6500.00	33.8984
-	2016.55	373.000		327.920	110.1675	36.4964	73157.0	6121.70	31.9280
100 FF +	628.970	116.320	30.4950		34.3600	11.3830	22817.0	2057.80	10.7320
= ...	614.977	113.732	29.8164	100	33.5953	11.1299	22309.1	1938.06	10.1073
-	601.295	111.200	29.1500		32.8475	10.8825	21813.0	1825.30	9.5191
100 HFL +	1872.15	346.240	90.7700	304.440		33.8868	67912.0	6125.30	31.9450
= ...	1830.54	338.537	88.7526	297.661	100	33.1293	66405.3	5768.83	30.0853
-	1789.85	331.020	86.7800	291.040		32.3939	64928.0	5433.10	28.3340
1 IRL +	56.5115	10.4511	2.74000	9.18900	3.08700		2050.03	184.892	0.964240
= ...	55.2545	10.2186	2.67894	8.98480	3.01848	1	2004.43	174.131	0.908116
-	54.0250	9.99130	2.61900	8.78500	2.95100		1959.84	163.997	0.855260
1000 LIT +	28.1930	5.21400	1.36700	4.58450	1.54000	0.510246		92.2400	0.481050
= ...	27.5661	5.09803	1.33651	4.48247	1.50590	0.498895	1000	86.8726	0.453053
-	26.9530	4.98500	1.30650	4.38300	1.47250	0.487799		81.8200	0.426690
100 PTA +	33.6930	6.23100	1.63300	5.47850	1.84050	0.609772	1222.30		0.553740
= ...	31.7316	5.86837	1.53847	5.15981	1.73345	0.574281	1151.11	100	0.521514
-	29.8850	5.52600	1.44900	4.85950	1.63250	0.540858	1084.10		0.491160
1 UKL +	64.6050	11.9479	3.13200	10.50550	3.52950	1.16920	2343.62	203.600	
= ...	60.8451	11.2526	2.95000	9.89389	3.32389	1.10118	2207.25	191.750	1
-	57.3035	10.5976	2.77800	9.31800	3.13050	1.03710	2078.79	180.590	
1 ECU = ...	42.4032	7.84195	2.05586	6.89509	2.31643	0.767417	1538.24	133.631	0.696904

The Greek drachma and Portuguese escudo do not participate in the exchange mechanism; the notional central rates for these currencies are respectively DRA 205.311 and ESC 178.735 to the ecu.

TABLE II

ECU BOND ISSUES (Mio ECU) *

	TOTAL	European Community				Non-European Community			
		Total	Business sector	Governments	Institutions	Total	Business sector	Governments	Institutions
1985	9 462	5 301	3 361	1 040	900	4 161	3 401	200	560
1986	6 840	4 226	2 358	558	1 310	2 614	2 204	350	60
1987	7 236	4 303	2 058	900	1 345	2 933	2 180	453	300
1988	9 188	5 275	3 230	2 500	1 845	3 913	3 138	575	0
1989	11 127	6 461	4 400	500	1 561	4 666	4 141	425	100
1990	15 040	10 525	3 990	5 000	1 535	4 515	3 565	550	400
1990									
I	2 575	1 375	615	200	560	1 200	1 025	0	175
II	5 510	3 720	1 445	1 300	975	1 790	1 265	300	225
III	2 105	1 805	805	1 000	0	300	300	0	0
IV	4 850	3 625	1 125	2 500	0	1 225	975	250	0
1991									
I	11 645	9 610	950	6 250	2 410	2 035	1 535	500	0
II	5 909	5 009	3 259	1 400	350	900	800	0	100
III	3 400	1 825	1 390	0	435	1 575	575	1 000	0
September	875	800	800	0	0	75	75	0	0
October	3 355	1 475	1 475	0	0	1 880	680	700	500
November	848	160	160	0	0	688	13	175	500

(*) Recording based on the payment date

TABLE III

OPERATIONS RATES OF THE EMCF (CALCULATION MONTH) AND INTEREST RATES AND YIELDS OF ECU INVESTMENTS (%)

	EMCF	Deposits				Bonds		
		1 month	3 months	6 months	1 year	< 5 years	5-7 years	> 7 years
1987	6.77	7.00	7.10	7.16	7.27	7.85	8.24	8.51
1988	6.71	6.67	6.88	7.05	7.18	7.70	7.89	8.18
1989	9.25	9.10	9.30	9.41	9.49	8.86	8.70	8.76
1990	10.52	10.07	10.32	10.55	10.69	10.83	10.42	10.37
1990								
November	10.50	9.64	9.94	10.01	10.07	10.69	10.20	10.36
December	10.75	10.33	10.39	10.42	10.39	10.66	9.97	10.01
1991								
January	10.75	10.11	10.41	10.48	10.52	10.55	9.99	10.02
February	10.50	9.62	9.78	9.86	9.94	10.04	9.30	9.32
March	10.25	9.28	9.30	9.33	9.34	9.70	9.20	9.19
April	10.00	9.23	9.28	9.33	9.39	9.63	9.07	9.08
May	9.75	9.67	9.56	9.55	9.46	9.51	9.00	8.98
June	10.00	9.92	9.89	9.95	9.87	9.64	9.12	9.14
July	9.75	9.70	9.84	9.94	9.92	9.77	9.24	9.21
August	10.00	9.64	9.76	9.88	9.91	9.82	9.23	9.18
September	9.75	9.64	9.66	9.67	9.72	9.56	9.03	8.95
October	9.75	9.69	9.75	9.81	9.78	9.40	8.99	8.87
November	10.00	9.69	9.88	9.88	9.88	9.51	9.10	8.95

TABLE IV
LAST MONTH'S ECU BOND ISSUES

Issue Payment Date	Borrower (country)	Issued (Mio Ecu)	Issue Price	Coupon	Term (years)	Maturity	Yields %	Lead Manager	Listing	Notice
... 22/11/1991	Banque Indosuez (FRANCE)	60	100.500	9 5/8	5	22/11/1996	9.48	Daiwa Europe	LX	(1)
... 29/11/1991	Shin Etsu Finance (JAPAN)	12.89	100.300		4	31/10/1995		Hachijuni Asia	PR	Swap
02/11/1991 27/11/1991	City of Stockholm (SWEDEN)	175	100.120	9 1/4	5	27/11/1996	9.22	SBC	LX	(1)
14/12/1991 30/12/1991	City of Stockholm (SWEDEN)	125	102.000	9 1/4	3	27/11/1996	8.72	SBC	LX	
14/12/1991 24/01/1992	Council of Europe Conseil de l'Europe	200	100.975	9 3/8	2	24/01/1994	8.82	UBS P&D	LX	Swap
14/12/1991 24/01/1992	City of Gothenberg (SWEDEN)	100	99.050	9 1/8	6	24/01/1997	9.37	SBC	LX	(1)
<p>Listing : LX = Luxembourg PR = Private</p>										
<p>(1) Issued at fixed Re-offer price</p>										

TABLE V

CONSUMER PRICE INDICES IN NATIONAL CURRENCY

1985=100

	1970	1980	1985	1986	1987	1988	1989	1990	1991						
									04	05	06	07	08	09	10
B	34.9	71.2	100.0	101.3	102.9	104.1	107.3	111.0	113.4	113.8	114.3	114.9	115.3	115.2	115.6
DK	26.8	68.3	100.0	103.6	107.8	112.7	118.1	121.2	123.3	124.1	124.4	124.0	124.3	124.9	125.1
D	50.4	82.6	100.0	99.9	100.1	101.4	104.2	107.0	109.5	109.9	110.5	111.5	111.5	111.7	112.0
ELL	10.3	39.1	100.0	123.0	143.2	162.5	184.9	222.6	258.3	259.3	264.3	264.1	263.5	273.8	279.8
E	13.5	56.2	100.0	108.8	114.5	120.0	128.2	136.8	142.8	143.2	143.6	145.4	146.0	147.2	148.1
F	25.3	63.3	100.0	102.7	105.9	108.7	112.7	116.3	119.1	119.4	119.7	120.2	120.4	120.6	121.1
IRL	15.6	56.1	100.0	103.8	107.1	109.4	113.9	117.6	119.6	120.6	120.6	120.6	122.2	122.2	122.2
I	14.2	52.5	100.0	105.8	110.9	116.5	123.7	131.8	138.8	139.3	139.8	140.4	140.8	141.3	142.6
L	37.0	70.3	100.0	100.3	100.2	101.7	105.1	109.0	111.2	111.7	111.9	112.5	112.8	113.1	113.4
NL	40.0	81.8	100.0	100.2	99.8	100.6	101.7	104.2	107.2	107.4	107.5	109.0	109.4	110.1	110.5
P	6.4	35.2	100.0	111.7	122.2	133.9	150.8	170.9	187.1	189.5	191.1	191.7	192.9	193.0	194.3
UK	19.6	70.7	100.0	103.4	107.7	113.0	121.8	133.3	140.7	151.1	141.7	141.4	141.7	142.3	142.8
EUR 12	25.4	65.3	100.0	103.5	106.9	110.7	116.4	123.0	128.0	128.4	128.9	129.5	129.8	130.3	131.0
ERM	29.8	66.7	100.0	102.3	104.7	107.6	111.9	116.9	121.0	121.3	121.6	122.0	122.8	118.2	122.5

Annual rate of increase (%)

	61-70	71-80	1985	1986	1987	1988	1989	1990	1991						
									04	05	06	07	08	09	10
B	3.0	7.4	4.9	1.3	1.6	1.2	3.1	3.4	2.9	3.2	3.6	3.8	3.5	2.5	2.2
DK	6.0	9.8	4.7	3.6	4.0	4.6	4.8	2.6	2.6	2.5	2.9	2.9	2.1	1.8	1.8
D	2.7	5.1	2.2	-0.2	0.2	1.2	2.8	2.7	2.8	3.0	3.5	4.4	4.1	3.9	3.5
ELL	2.1	14.5	19.4	23.1	16.1	13.5	13.8	20.4	21.5	18.4	18.1	18.3	17.4	17.9	17.6
E	6.1	15.4	7.8	8.8	5.3	4.8	6.8	6.7	5.9	6.2	6.2	6.1	6.0	5.8	5.5
F	4.1	9.7	5.9	2.7	3.1	2.7	3.7	3.2	3.2	3.2	3.3	3.4	3.0	2.6	2.5
IRL	4.8	13.7	5.4	3.8	3.1	2.1	4.1	3.2	2.5	3.1	3.1	3.1	3.6	3.6	3.6
I	4.0	14.1	9.2	5.8	4.8	5.1	6.2	6.5	6.6	6.7	6.6	6.7	6.3	6.3	6.3
L	2.6	6.7	4.1	0.3	-0.1	1.4	3.3	3.7	2.9	3.2	3.3	3.8	3.6	3.2	2.4
NL	4.2	7.4	2.3	0.3	-0.2	0.9	1.1	2.5	3.3	3.4	3.6	4.7	4.7	4.6	4.5
P	4.5	18.7	19.3	11.7	9.4	9.6	12.6	13.3	11.8	12.0	12.6	12.1	11.4	10.2	9.8
UK	4.1	13.8	6.1	3.4	4.1	4.9	7.8	9.4	6.4	5.8	5.8	5.5	4.7	4.1	3.7
EUR 12	3.7	9.9	6.1	3.2	3.4	3.6	5.1	5.7	5.0	5.0	5.1	5.3	4.9	4.6	4.4
ERM	3.3	8.4	5.4	2.2	2.4	2.7	4.0	4.5	4.6	4.6	4.8	5.0	4.6	4.3	4.1
Average deviation around the mean															
EUR 12	0.8	3.5	2.5	2.8	1.9	1.8	2.2	2.7	2.1	1.9	1.7	1.4	1.4	1.5	1.6
ERM	0.7	3.0	2.3	1.8	1.8	1.4	1.4	1.8	1.7	1.6	1.4	1.1	1.0	1.1	1.2
Disparity between the average and the minimum															
EUR 12	1.7	4.8	4.0	3.9	3.8	2.8	4.1	3.5	2.6	2.5	2.3	2.5	2.8	2.8	2.6
ERM	1.2	3.3	3.0	2.5	2.8	1.9	2.9	2.3	2.1	2.1	1.9	2.1	2.5	2.5	2.3

CONSUMER PRICE INDICES IN ECU

1985=100

	01	02	03	04	05	06	07	08	09	10	11	12	1970
B	30.2	30.4	30.6	30.8	30.8	30.8	31.0	31.0	31.0	31.1	31.2	31.3	30.9
DK	27.0	27.2	27.4	27.4	27.6	27.6	28.3	28.3	28.5	28.6	28.9	28.9	28.0
D	29.6	29.7	29.8	29.9	29.9	30.0	30.0	30.0	30.0	30.1	30.2	30.4	30.0
ELL	34.4	33.9	34.6	35.1	35.2	35.2	34.8	34.2	35.0	35.3	35.1	35.6	34.9
E	23.8	23.7	23.9	24.1	23.9	24.1	24.5	24.9	25.0	25.3	25.3	25.4	24.5
F	29.5	29.6	29.8	29.9	30.2	30.3	30.4	30.4	30.5	30.7	30.8	30.9	30.3
IRL	24.7	24.9	25.0	25.3	25.7	26.0	26.1	26.3	26.4	26.6	26.8	27.0	25.9
I	31.5	31.7	31.7	32.0	32.1	32.1	32.2	32.2	32.5	32.6	32.9	32.9	32.2
L	31.9	32.1	32.1	32.3	32.4	32.5	32.6	32.5	32.7	32.8	32.8	32.9	32.5
NL	26.3	26.5	26.8	26.9	26.9	27.0	27.1	27.4	27.6	27.6	27.6	27.7	27.1
P	28.1	27.8	28.4	28.2	27.8	27.9	28.0	28.2	28.6	28.7	28.9	29.1	28.3
UK	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.3	27.5	27.7	27.9	28.1	27.1
EUR 12		28.8	29.0	29.1	29.3	29.3	29.5	29.6	29.7	29.9	30.0	30.1	29.5
SME	29.6	29.8	29.9	30.0	30.2	30.2	30.3	30.4	30.5	30.6	30.8	30.8	30.3
ECU	29.1	29.3	29.4	29.6	29.7	29.8	29.9	30.0	30.2	30.3	30.5	30.6	29.9

	01	02	03	04	05	06	07	08	09	10	11	12	1980
B	77.0	77.3	77.4	77.8	78.2	78.6	79.5	79.4	79.5	79.8	80.0	80.1	78.7
DK	66.8	67.3	67.9	68.2	69.2	69.7	71.1	71.2	71.5	71.7	72.2	72.6	70.0
D	71.9	72.5	72.6	72.6	73.2	73.4	73.4	73.1	73.1	72.7	72.8	73.3	72.9
ELL	66.8	66.7	69.9	69.1	66.0	66.5	65.7	65.9	68.1	70.9	73.5	74.6	68.6
E	71.9	72.6	74.1	72.7	71.2	72.1	71.5	72.1	71.9	72.8	74.3	74.9	72.7
F	69.5	69.9	70.8	71.7	72.1	72.6	73.9	74.3	74.8	75.5	75.5	76.1	73.1
IRL	53.8	54.3	54.8	56.4	57.6	59.2	60.0	60.7	61.1	61.2	61.1	61.6	58.5
I	60.4	61.7	61.9	62.3	62.7	62.9	63.5	64.3	65.2	66.0	67.1	67.9	63.8
L	75.8	76.2	76.4	77.2	77.9	78.2	78.5	78.5	78.2	78.3	78.5	79.2	77.7
NL	72.0	72.5	73.2	73.9	74.1	74.2	74.8	75.1	75.6	75.7	75.7	75.6	74.4
P	60.1	63.7	66.2	66.4	65.2	65.3	65.3	66.1	66.0	67.0	68.0	70.3	65.8
UK	60.7	62.8	64.7	67.7	68.2	68.8	69.6	71.1	72.4	74.9	77.6	78.3	69.7
EUR 12	67.7	68.6	69.3	70.0	70.2	70.6	71.1	71.5	72.0	72.6	73.4	74.0	70.9
SME	68.9	69.5	69.9	70.3	70.8	71.1	71.7	71.9	72.3	72.5	72.8	73.3	71.3
ECU	68.4	69.2	69.8	70.6	71.1	71.5	72.1	72.4	72.9	73.4	74.0	74.5	71.7

CONSUMER PRICE INDICES IN ECU

1985=100

	01	02	03	04	05	06	07	08	09	10	11	12	1986
B	102.0	102.6	102.5	103.6	103.3	103.5	103.6	104.3	105.1	105.4	105.2	105.4	103.9
DK	101.2	101.2	101.5	104.5	105.2	105.0	104.2	105.4	106.1	107.4	107.5	107.5	104.7
D	102.8	103.4	103.2	103.4	103.5	103.8	104.2	105.2	105.6	106.1	105.9	106.3	104.5
ELL	90.8	89.8	91.7	92.7	93.3	94.4	92.7	92.3	94.9	96.1	95.0	93.7	93.1
E	100.1	100.7	101.2	101.0	101.1	101.6	103.5	103.2	103.8	103.5	102.2	102.3	102.0
F	103.2	103.6	103.8	101.3	101.2	101.6	101.6	101.7	102.0	103.0	103.1	103.0	102.4
IRL	101.7	102.2	102.8	104.1	104.8	104.9	104.5	98.2	97.6	97.4	97.5	97.7	101.1
I	101.3	102.5	103.2	102.9	103.4	103.7	104.5	105.8	106.2	107.2	107.6	108.0	104.7
L	102.3	102.4	101.9	102.5	102.5	102.5	102.4	102.7	103.4	104.0	103.8	103.8	102.8
NL	102.3	102.9	103.2	103.9	104.2	104.1	104.0	105.3	106.0	107.1	107.1	107.1	104.8
P	99.3	100.0	100.7	101.7	100.2	99.6	98.4	97.8	97.2	96.5	96.7	97.6	98.8
UK	95.7	92.6	92.5	95.9	95.9	95.4	92.5	88.6	87.6	84.0	85.5	85.3	91.0
EUR 12	101.0	100.9	101.1	101.4	101.5	101.6	101.4	101.2	101.4	101.2	101.4	101.5	101.3
SME	102.5	103.2	103.4	102.9	103.1	103.3	103.6	104.3	104.8	105.6	105.6	105.8	104.0
ECU	101.5	101.5	101.6	102.0	102.1	102.2	102.0	102.0	102.3	102.4	102.6	102.7	102.1

	01	02	03	04	05	06	07	08	09	10	11	12	1987
B	106.8	107.4	106.9	107.2	107.2	107.4	107.7	108.0	107.8	107.4	107.2	107.1	107.3
DK	108.1	108.6	109.3	109.5	110.8	110.7	109.8	109.1	109.2	109.9	110.4	110.6	109.7
D	107.6	107.7	107.1	107.3	107.4	107.6	107.6	107.7	107.3	107.4	108.1	108.2	107.6
ELL	92.7	92.1	94.5	96.1	95.6	97.1	95.0	94.1	95.4	97.6	96.7	97.2	95.3
E	100.5	100.0	100.4	100.7	100.8	101.7	103.8	105.5	107.5	109.9	107.9	107.5	103.9
F	103.2	103.6	103.2	103.6	103.4	103.8	104.3	104.4	104.3	104.5	103.5	103.8	103.8
IRL	97.3	97.5	97.8	98.0	98.3	98.6	98.8	99.0	99.1	99.2	99.1	99.1	98.5
I	107.1	107.4	107.0	107.0	106.2	106.5	106.6	107.0	107.9	108.7	107.7	107.8	107.2
L	105.0	105.5	104.8	104.4	104.3	104.3	104.2	104.5	104.6	104.3	104.6	104.8	104.6
NL	106.8	107.1	106.6	106.8	107.0	107.0	107.0	107.4	107.7	108.0	108.5	108.2	107.3
P	96.7	96.8	98.2	98.1	97.7	97.2	97.3	98.2	97.9	98.5	97.4	97.9	97.7
UK	84.3	84.4	88.1	90.0	91.1	90.6	90.8	90.9	91.6	92.4	93.1	93.0	90.0
EUR 12	101.4	101.6	102.1	102.7	102.8	103.0	103.2	103.5	103.8	104.4	104.2	104.3	103.1
SME	106.2	106.4	106.0	106.2	106.1	106.3	106.4	106.7	106.7	107.0	106.8	106.9	106.5
ECU	103.1	103.3	103.5	104.0	104.2	104.3	104.4	104.6	104.6	104.9	105.0	105.1	104.3

CONSUMER PRICE INDICES IN ECU

1985=100

	01	02	03	04	05	06	07	08	09	10	11	12	1988
B	107.0	107.3	107.1	107.2	107.3	107.5	107.6	107.6	108.1	108.2	108.1	108.3	107.6
DK	111.4	112.8	112.7	112.6	113.6	114.5	113.9	113.9	114.5	114.3	115.0	114.6	113.7
D	108.6	108.7	108.5	108.5	108.4	108.8	108.7	108.4	109.0	109.0	109.3	109.4	108.8
ELL	96.4	95.7	98.1	99.9	99.8	101.5	101.0	100.9	103.3	104.9	104.3	104.8	100.9
E	107.9	108.9	110.1	110.7	110.6	111.3	112.4	114.2	114.3	115.3	115.7	118.3	112.5
F	104.3	104.4	104.0	104.2	104.5	105.3	105.7	105.4	105.6	105.5	105.5	105.4	105.0
IRL	99.2	99.6	100.0	99.9	99.9	100.5	100.9	100.9	101.6	101.5	101.6	101.7	100.6
I	108.5	108.8	108.5	108.1	108.2	108.8	109.2	109.6	109.8	110.7	111.8	112.7	109.6
L	104.9	105.0	104.9	104.5	104.6	104.8	105.1	105.0	105.5	105.7	106.1	105.8	105.2
NL	107.6	107.9	108.2	108.3	108.4	108.1	107.8	107.8	108.6	108.8	108.9	108.5	108.2
P	98.3	99.8	100.0	100.3	100.5	101.2	102.3	103.6	103.9	104.6	105.7	106.9	102.3
UK	92.6	93.1	96.1	99.6	100.6	99.8	100.5	103.3	102.2	103.9	104.5	105.9	100.2
EUR 12	104.5	104.8	105.3	106.1	106.3	106.6	106.9	107.5	107.7	108.2	108.6	109.2	106.8
SME	107.3	107.5	107.3	107.3	107.4	107.9	108.0	107.9	108.3	108.5	108.9	109.1	108.0
ECU	105.3	105.5	105.8	106.4	106.6	106.8	107.0	107.3	107.5	107.9	108.2	108.4	106.9

	01	02	03	04	05	06	07	08	09	10	11	12	1989
B	108.4	108.9	109.3	110.2	110.2	110.9	111.2	111.5	112.1	112.8	113.3	114.4	111.1
DK	114.5	114.7	115.3	116.3	117.0	117.2	117.4	117.9	118.4	119.8	121.2	122.1	117.7
D	110.0	110.5	110.7	111.4	111.6	112.2	112.1	111.8	112.0	113.4	114.1	115.3	112.1
ELL	104.4	103.4	105.4	106.0	106.4	107.4	106.6	107.0	110.5	110.9	110.7	111.1	107.5
E	123.1	123.8	125.0	125.8	125.2	123.4	127.8	128.3	129.8	129.3	129.9	129.7	126.8
F	105.8	106.2	107.1	108.1	108.4	108.7	109.0	109.5	109.8	110.7	111.3	111.6	108.8
IRL	101.9	102.1	102.7	103.0	103.5	104.2	104.8	105.0	105.5	106.5	106.7	107.2	104.4
I	113.8	115.0	115.4	116.2	117.7	119.1	119.5	120.4	120.9	120.6	121.6	121.6	118.5
L	106.4	106.6	107.2	107.6	107.9	108.7	109.0	109.1	109.4	110.6	111.4	112.2	108.8
NL	107.1	107.5	108.1	108.7	108.7	109.2	109.3	109.4	110.0	111.0	111.5	112.3	109.4
P	109.0	110.4	111.1	112.0	112.2	112.4	113.0	115.0	115.0	114.6	115.1	115.2	112.9
UK	107.8	108.4	107.5	108.8	109.1	106.5	106.6	106.8	107.2	105.4	103.6	101.1	106.6
EUR 12	110.2	110.8	111.1	112.0	112.4	112.4	112.8	113.1	113.6	113.8	114.1	114.1	112.5
SME	109.5	110.1	110.7	111.5	112.0	112.6	112.8	113.1	113.5	115.5	116.2	116.8	112.9
ECU	108.9	109.4	109.8	110.6	110.9	111.1	111.2	111.4	111.7	113.2	113.6	113.9	111.3

CONSUMER PRICE INDICES IN ECU

1985=100

	01	02	03	04	05	06	07	08	09	10	11	12	1990
B	115.0	115.3	116.3	117.1	117.1	117.1	116.8	117.6	119.1	119.7	119.6	119.6	117.5
DK	121.5	121.9	123.3	123.6	124.4	123.6	122.7	123.4	125.0	125.3	125.2	124.7	123.7
D	115.8	115.8	115.9	115.9	115.9	115.5	115.0	115.3	116.1	116.9	117.1	117.8	116.1
ELL	110.2	108.9	111.8	111.4	113.0	115.6	114.7	114.6	119.3	119.7	119.4	120.1	114.9
E	130.2	131.0	132.5	134.1	135.8	137.2	139.3	140.1	138.8	139.9	139.2	138.9	136.4
F	112.2	112.3	113.4	114.2	114.0	113.7	113.8	114.5	115.7	116.3	116.0	115.5	114.3
IRL	107.8	108.0	109.0	109.5	109.5	109.0	108.9	109.2	109.9	110.0	110.5	110.7	109.3
I	122.2	123.3	124.6	125.3	125.4	125.5	125.6	125.7	125.1	125.7	126.6	127.1	125.2
L	113.7	113.6	114.2	114.8	115.0	114.9	114.3	115.0	116.0	117.2	117.9	118.1	115.4
NL	112.2	112.3	112.9	113.2	113.2	112.4	112.2	112.6	113.8	114.2	114.5	114.8	113.2
P	116.5	118.7	119.2	120.2	121.4	121.9	122.3	123.1	124.3	126.5	128.1	128.9	122.6
UK	102.2	104.2	102.5	105.2	107.0	110.3	113.0	115.0	115.3	116.7	115.1	114.0	110.0
EUR 12	114.7	115.4	115.8	116.7	117.1	117.6	118.1	118.8	119.3	120.1	120.0	120.0	117.8
SME	117.3	117.6	118.5	119.0	119.1	118.9	118.9	119.4	119.9	120.1	119.9	119.9	119.0
ECU	114.4	114.9	115.3	116.1	116.4	116.6	116.9	117.6	118.3	119.1	119.0	119.0	117.0

	01	02	03	04	05	06	07	08	09	10	11	12	1991
B	120.7	121.2	120.4	120.1	120.7	121.4	122.1	122.6	122.5				
DK	124.5	124.9	125.2	125.2	126.3	126.0	125.1	125.5	126.5				
D	118.2	118.6	118.3	118.2	118.8	119.7	120.8	121.0	121.3				
ELL	117.5	116.3	117.4	120.2	119.8	122.5	122.3	121.0	125.2				
E	142.0	142.9	143.9	144.6	144.9	144.5	145.7	146.8	147.5				
F	115.6	115.6	115.5	116.1	116.3	116.7	117.1	117.3	117.5				
IRL	110.8	110.8	111.1	111.2	111.8	112.3	112.8	113.3	113.9				
I	127.9	129.3	130.6	131.3	131.8	132.4	132.7	132.6	133.3				
L	118.3	118.6	118.6	117.7	118.5	118.8	119.4	119.9	120.2				
NL	115.2	115.4	115.9	115.8	116.3	116.6	118.3	118.8	119.7				
P	129.1	133.1	134.6	135.8	137.5	138.0	140.4	142.4	142.4				
UK	115.4	115.7	116.8	119.7	119.5	119.4	119.5	119.4	119.5				
EUR 12	120.7	121.2	121.6	122.5	122.8	123.2	123.8	124.0	124.4				
SME	120.7	121.2	121.5	122.4	122.7	123.1	123.7	123.9	124.2				
ECU	119.7	120.1	120.3	120.9	121.3	121.7	122.5	122.7	123.1				

TABLE VI

CONSUMER PRICE INDICES IN ECU

1985=100

	1970	1980	1985	1986	1987	1988	1989	1990	1991						
									04	05	06	07	08	09	10
B	30.9	78.7	100.0	103.9	107.3	107.6	111.1	117.5	120.1	120.7	121.4	122.1	122.6	122.5	123.2
DK	28.0	70.0	100.0	104.7	109.7	113.7	117.7	123.7	125.2	126.3	126.0	125.2	125.5	126.5	126.9
D	30.0	72.9	100.0	104.5	107.6	108.8	112.1	116.1	118.2	118.8	119.7	120.8	121.0	121.3	121.7
ELL	34.9	68.6	100.0	93.1	95.3	100.9	107.5	114.9	120.2	119.8	122.5	122.3	121.1	125.2	127.5
E	24.5	72.7	100.0	102.0	103.9	112.5	126.8	136.4	144.6	114.9	144.5	145.7	146.8	147.5	147.8
F	30.3	73.1	100.0	102.4	103.8	105.0	108.8	114.3	116.1	116.3	116.7	117.1	117.3	117.5	117.9
IRL	25.9	58.5	100.0	101.1	98.5	100.6	104.4	109.3	110.9	111.2	112.3	112.3	112.3	113.9	114.3
I	32.2	63.8	100.0	104.7	107.2	109.6	118.5	125.2	131.3	131.8	132.5	132.5	132.5	133.5	134.8
L	32.5	77.7	100.0	102.8	104.6	105.2	108.8	115.4	117.7	118.5	118.8	119.4	119.9	120.2	120.8
NL	27.1	74.4	100.0	104.8	107.3	108.2	109.4	113.2	115.8	116.3	116.6	118.3	118.8	119.7	120.3
P	28.3	65.8	100.0	98.8	97.7	102.3	112.9	122.6	135.8	137.5	138.0	140.4	142.4	142.4	143.4
UK	27.1	69.7	100.0	91.0	90.0	100.2	106.6	110.0	119.7	119.5	119.4	119.5	119.4	119.5	119.6
EUR 12	29.5	70.9	100.0	101.3	103.1	106.8	112.5	117.8	122.5	122.8	123.2	123.8	124.0	124.4	125.0
ERM	30.3	71.3	100.0	104.0	106.5	108.0	112.9	119.0	122.4	122.7	123.1	123.7	123.9	124.2	124.8
ECU	29.9	71.7	100.0	102.1	104.3	106.9	111.3	117.0	120.9	121.3	121.7	122.5	122.7	123.1	123.6

Annual rate of increase (%)

	61-70	71-80	1985	1986	1987	1988	1989	1990	1991						
									04	05	06	07	08	09	10
B	3.9	9.9	6.1	3.9	3.4	0.2	3.2	5.8	2.6	3.1	3.7	4.5	4.2	2.9	2.9
DK	5.5	9.8	6.4	4.8	4.8	3.6	3.5	5.2	1.3	1.6	1.9	2.0	1.7	1.2	1.3
D	4.5	9.4	2.8	4.5	3.0	1.1	3.0	3.6	2.0	2.5	3.7	5.1	4.9	4.5	4.2
ELL	1.3	7.4	0.8	-5.7	2.4	5.8	6.5	6.9	7.9	6.0	6.0	6.6	5.7	5.0	6.6
E	3.7	11.8	6.9	2.1	1.8	8.3	12.7	7.6	7.9	6.7	5.3	4.6	4.8	6.3	5.7
F	3.3	9.3	7.0	2.5	1.3	1.1	3.7	5.0	1.7	2.0	2.6	2.9	2.4	1.5	1.4
IRL	3.5	8.6	7.1	1.6	-2.5	2.1	3.8	4.7	1.6	2.2	3.0	3.6	3.8	3.7	4.0
I	4.3	7.2	4.3	4.8	2.5	2.2	8.1	5.7	4.8	5.1	5.5	5.6	5.5	6.7	7.2
L	2.9	9.2	5.3	2.8	1.7	0.5	3.5	6.0	2.6	3.1	3.4	4.5	4.3	3.6	3.1
NL	5.1	10.7	2.8	4.8	2.4	0.9	1.1	3.5	2.3	2.7	3.7	5.4	5.5	5.2	5.3
P	3.7	9.2	6.6	-1.1	-1.1	4.7	10.4	8.6	13.0	13.3	13.2	14.8	15.7	14.5	13.4
UK	2.9	10.3	6.5	-8.8	-0.7	11.2	6.6	3.4	13.8	11.7	8.3	5.7	3.8	3.7	2.5
EUR 12	3.7	9.3	5.1	1.3	1.8	3.6	5.4	4.7	4.9	4.8	4.8	4.9	4.4	4.3	4.1
ERM	4.1	9.0	4.6	4.0	2.4	1.4	4.4	5.2	4.8	4.7	4.7	4.8	4.3	4.2	4.0
ECU	3.9	9.2	4.8	2.1	2.1	2.5	4.1	4.5	4.1	4.2	4.4	4.8	4.4	4.0	3.8

TABLE VII

ECU EXCHANGE RATES

	B/LFR	DKR	DM	DRA	ESC	FF	HFL	IRL	LIT	PTA	UKL	USD	YEN
Yearly averages													
1982	44.7115	8.15687	2.37599	65.342	78.007	6.43117	2.61390	0.689605	1323.78	107.558	0.560454	0.97971	243.545
1983	45.4380	8.13188	2.27052	78.088	98.689	6.77078	2.53720	0.714956	1349.92	127.503	0.587014	0.89022	211.354
1984	45.4420	8.14647	2.23811	88.340	115.680	6.87165	2.52334	0.725942	1381.38	126.569	0.590626	0.78903	187.089
1985	44.9136	8.01876	2.22632	105.739	130.252	6.79502	2.51101	0.715167	1447.99	129.165	0.588977	0.76309	180.559
1986	43.7978	7.93565	2.12819	137.425	147.088	6.79976	2.40089	0.733526	1461.87	137.456	0.671542	0.98417	164.997
1987	43.0392	7.88413	2.07159	156.220	162.581	6.92848	2.33428	0.775443	1494.71	142.191	0.704679	1.15387	166.602
1988	43.4284	7.95152	2.07440	167.576	170.059	7.03643	2.33479	0.775671	1537.33	137.600	0.664434	1.18248	151.459
1989	43.3806	8.04929	2.07015	178.840	173.413	7.02387	2.33503	0.776818	1510.47	130.406	0.673302	1.10175	151.938
1990	42.4252	7.85644	2.05211	201.412	181.108	6.91416	2.31214	0.767769	1521.94	129.316	0.713856	1.27323	183.678
Monthly averages													
90/11	42.3419	7.86746	2.05255	210.260	180.696	6.91031	2.31507	0.766834	1543.02	129.867	0.703079	1.38094	178.124
90/12	42.2728	7.87305	2.04268	212.611	181.072	6.93748	2.30453	0.767444	1540.13	130.475	0.709311	1.36721	182.676
91/01	42.2126	7.88794	2.04881	216.831	182.484	6.95952	2.30979	0.767772	1540.15	129.124	0.701862	1.35752	181.372
91/02	42.1694	7.88173	2.04840	219.449	180.193	6.97249	2.30851	0.769838	1537.58	128.151	0.704206	1.38411	180.419
91/03	42.2789	7.88105	2.05240	221.353	179.069	6.98529	2.31348	0.770241	1530.70	127.633	0.700236	1.28059	175.573
91/04	42.4099	7.89459	2.06224	223.536	179.032	6.96918	2.32356	0.771218	1528.13	127.300	0.692044	1.21057	165.931
91/05	42.3492	7.87772	2.05872	225.165	179.018	6.97976	2.31947	0.769137	1528.11	127.435	0.694729	1.19918	165.625
91/06	42.2895	7.91635	2.05469	224.548	179.925	6.97056	2.31468	0.768074	1527.59	128.157	0.698934	1.15134	161.029
91/07	42.2887	7.94299	2.05434	224.787	177.334	6.97234	2.31441	0.767997	1529.88	128.669	0.697132	1.14887	158.423
91/08	42.2506	7.93522	2.05233	226.514	175.956	6.97441	2.31290	0.767578	1534.29	128.172	0.699016	1.17636	160.949
91/09	42.2332	7.91494	2.05022	227.467	176.076	6.97815	2.31043	0.766942	1532.99	128.640	0.700558	1.20782	162.497
91/10	42.1618	7.90850	2.04765	228.255	176.083	6.98051	2.30736	0.765771	1531.10	129.117	0.703471	1.21114	158.344
91/11	42.0619	7.92935	2.04192	231.137	178.061	6.97707	2.30101	0.764585	1538.05	129.140	0.707672	1.25792	163.058
Daily rates: November													
11/01	42.1318	7.93160	2.04590	229.003	175.615	6.99173	2.30487	0.765316	1532.50	128.750	0.704099	1.22619	159.834
11/04	42.1364	7.92986	2.04531	229.882	175.927	6.99308	2.30469	0.765396	1533.17	128.771	0.703889	1.24821	161.481
11/05	42.1375	7.93132	2.04563	230.031	175.750	6.99182	2.30516	0.765446	1533.29	128.688	0.703839	1.24354	161.561
11/06	42.1340	7.93717	2.04534	230.365	175.941	6.99225	2.30515	0.765310	1533.22	128.685	0.703896	1.24906	162.253
11/07	42.1325	7.93464	2.04491	230.321	175.930	6.99219	2.30452	0.765240	1534.93	128.717	0.703797	1.24994	162.368
11/08	42.1280	7.92852	2.04535	230.505	175.847	6.98456	2.30530	0.765331	1536.12	128.719	0.704122	1.23961	161.422
11/11	42.1204	7.93074	2.04499	230.649	176.012	6.98501	2.30463	0.765319	1537.43	128.683	0.704100	1.24112	161.631
11/12	42.1016	7.93248	2.04369	231.038	176.112	6.98494	2.30338	0.764833	1539.84	128.697	0.704723	1.25088	162.052
11/13	42.1025	7.94068	2.04421	231.036	176.538	6.98418	2.30374	0.765026	1538.78	128.560	0.704748	1.24952	162.312
11/14	42.0970	7.94085	2.04370	231.182	176.615	6.98499	2.30306	0.764835	1539.50	128.530	0.705054	1.25112	162.283
11/15	42.0767	7.93409	2.04229	231.101	178.678	6.98285	2.30150	0.764681	1541.38	128.725	0.705661	1.25163	162.549
11/18	42.0611	7.93369	2.04131	231.722	179.051	6.97663	2.30040	0.764433	1542.01	128.883	0.707128	1.27439	164.332
11/19	42.0348	7.92824	2.04096	231.611	178.301	6.97019	2.29971	0.764288	1541.66	128.885	0.709327	1.27147	164.528
11/20	42.0232	7.92414	2.04038	231.684	177.736	6.96823	2.29902	0.764108	1541.30	129.289	0.709821	1.27285	165.025
11/21	42.0268	7.93053	2.04048	231.839	178.203	6.96877	2.29906	0.764063	1541.10	129.448	0.709049	1.27133	164.789
11/22	41.9444	7.91756	2.03611	231.595	180.286	6.96017	2.29415	0.762716	1540.61	130.355	0.714210	1.28251	166.213
11/25	41.9755	7.91422	2.03681	232.199	180.530	6.96083	2.29496	0.763004	1540.49	130.261	0.713095	1.28749	164.542
11/26	41.9737	7.91868	2.03693	232.141	181.468	6.95952	2.29521	0.763049	1540.03	129.856	0.713984	1.27803	164.291
11/27	41.9733	7.92682	2.03789	231.974	181.729	6.95883	2.29644	0.764038	1538.01	129.901	0.713331	1.26616	164.348
11/28	41.9728	7.92077	2.03776	232.002	181.610	6.96119	2.29680	0.764524	1537.15	129.940	0.713308	1.26177	163.904
11/29	42.0165	7.92976	2.04038	231.989	181.393	6.96642	2.29952	0.765325	1536.47	129.607	0.709926	1.24947	162.493

EXPLANATORY NOTES

Bilateral currency deviation (graph on page 3).

The various curves 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 strongest currency above that of the weakest. 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 graph is drawn within a horizontal band corresponding to the maximum 2,25% margin of fluctuation applying at any given moment to market exchange rates and the bilateral central rates of the ERM currencies, with the exception of the PTA and Sterling, which have a maximum authorized fluctuation of 6%. This band 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 daily market exchange rates of all currencies are compared with the relevant bilateral central rates and the differentials between the two calculated.

The maximum fluctuation between two currencies (with the exception of the PTA and Sterling) 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 curves are drawn by linking the daily points showing the relative positions of each currency.

Exchange rate grid (Table I).

The intervention limit rates fixed in the official grid do not always correspond exactly to + or - 2.25% (+ or - 6% for the peseta and Sterling) of the central rates, since for each currency pair (whose exchange rates are inversely proportional to one another) the lower limit of the one corresponds to the upper limit of the other.

Ecu bond issues (Table II & IV).

In table II, issues are recorded as at the payment date. This bulletin only covers international and foreign issues in ecus, including ecu issues offering the option of conversion into other currencies. Main source: International Financing Review

Table II 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 IV shows detailed information of the latest known issues, whatever the payment date.

Interest rates and yields on ecu investments (Table III).

The interest rates for 1, 3 and 6 month and 1 year deposits are calculated on the basis of the Friday London market rates (source: Financial Times, London Money Rates, ECU Linked Deposit Bid).

The bonds are classified according to three types of maturities: under 5 years, from 5 to 7 years and more than 7 years. The redemption yields of ecu bonds are calculated each Wednesday from a sample of fixed interest bonds, denominated in ecus and listed on the Luxembourg Stock Exchange. These yields are weighted by the amounts in circulation. (source: Luxembourg Stock Exchange).

The monthly and yearly averages are the arithmetic means of these weekly interest rates and bond yields.

Operations rates of the EMCF (Table III).

The interest rate for transactions in EMCF (European Monetary Cooperation Fund) 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 EMCF transactions for the following month. In table 3, 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 EMCF.

Consumer price indices in national currency (Table V).

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 12) and the ten 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 12, ERM), expressed in purchasing power standards, at current prices and purchasing power parities.

At the foot of the table, the average weighted fluctuations around the mean and the minimum are given for the same groups of countries, with the same weightings. (These are calculated as weighted averages of the absolute fluctuations in relation to the mean and the minimum respectively). They show the degree to which price movements in the Member States in the Community converge.

Consumer price indices in ecus (Table VI).

For each country the index of consumer prices in ecus is calculated by dividing 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, covering all the Member States of the Community (EUR 12 and ECU), the 10 Member States 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 the peseta and the escudo have been included in the calculation of the ecu since 21/09/89, these two currencies are only taken into account in the indices contained 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 12 and ERM indices, the relative share of each Member State in the final consumption of households for the group of countries in question (EUR 12 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 exchange rates (Table VII).

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).

	BFR	DKR	DM	DRA *	ESC*	FF	HFL	IRL	LFR	LIT	PTA	UKL
	From 21/09/89 the ecu basket has been made up made as follows :											
1 ecu = Σ	3.301	0.1976	0.6242	1.44	1.393	1.332	0.2198	0.008552	0.13	151.8	6.885	0.08784
	Ecu central rates from 08/10/90.											
	42.4032	7.84195	2.05586	205.311	178.735	6.89509	2.31643	0.767417	42.4032	1538.24	133.631	0.696904
	Weights of currencies on 08/10/90, calculated on the basis of current central rates, expressed in %:											
100 = Σ	7.78	2.52	30.36	0.70	0.78	19.32	9.49	1.11	0.31	9.87	5.15	12.60

* does not participate in the exchange rate mechanism

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TABLE VII

ECU EXCHANGE RATES

	B/LFR	DKR	DM	DRA	ESC	FF	HFL	IRL	LIT	PTA	UKL	USD	YEN
Daily rates : October													
10/01	42.1776	7.89978	2.04754	228.039	176.415	6.97685	2.30799	0.765893	1532.22	129.485	0.702639	1.22681	163.472
10/02	42.1890	7.90285	2.04736	228.081	176.076	6.97654	2.30756	0.765783	1531.76	129.520	0.702940	1.2326	163.135
10/03	42.1859	7.90288	2.04721	228.200	176.044	6.97541	2.30751	0.765727	1532.01	129.823	0.702487	1.23251	161.546
10/04	42.1894	7.89734	2.04728	228.327	176.063	6.97781	2.30710	0.765747	1531.31	129.635	0.702877	1.22849	159.335
10/07	42.2001	7.89328	2.04860	228.216	176.024	6.97595	2.30849	0.766258	1530.63	129.424	0.702414	1.21904	157.829
10/08	42.1862	7.89436	2.04835	228.102	176.133	6.97361	2.30771	0.765905	1530.35	129.229	0.703869	1.21312	157.523
10/09	42.1755	7.89632	2.04804	227.702	176.202	6.97332	2.30720	0.765748	1529.72	129.344	0.704392	1.20261	157.061
10/10	42.1667	7.89384	2.04743	227.878	176.200	6.97341	2.30685	0.765604	1530.41	129.361	0.704809	1.21509	157.233
10/11	42.1714	7.89416	2.04791	227.793	176.007	6.97709	2.30743	0.765848	1530.66	129.338	0.703649	1.2043	156.462
10/14	42.1684	7.89252	2.04796	227.893	176.093	6.97950	2.30784	0.766013	1531.58	129.081	0.703411	1.2093	156.423
10/15	42.1684	7.89448	2.04896	227.782	176.098	6.97725	2.30873	0.766322	1531.45	128.828	0.703306	1.19822	155.565
10/16	42.1608	7.89275	2.04857	227.696	176.084	6.97930	2.30847	0.766152	1531.52	128.896	0.703336	1.2027	156.568
10/17	42.1586	7.89475	2.04841	227.653	176.244	6.97638	2.30836	0.766068	1531.62	128.868	0.703938	1.20127	155.865
10/18	42.1470	7.88908	2.04799	227.732	176.261	6.97927	2.30773	0.765783	1531.90	129.038	0.703728	1.21147	157.454
10/21	42.1431	7.90854	2.04692	228.044	176.109	6.98248	2.30678	0.765362	1531.10	129.101	0.704213	1.21371	158.389
10/22	42.1357	7.91635	2.04678	228.028	176.202	6.98402	2.30658	0.765448	1531.16	128.986	0.704302	1.20612	158.303
10/23	42.1532	7.92505	2.04754	228.096	176.158	6.98405	2.30723	0.765618	1530.55	128.838	0.703721	1.19949	157.793
10/24	42.1366	7.93121	2.04699	228.563	176.139	6.98545	2.30663	0.765485	1530.29	128.907	0.704050	1.20709	158.250
10/25	42.1388	7.93016	2.04700	229.399	175.776	6.98618	2.30664	0.765503	1530.13	128.814	0.704164	1.20482	158.230
10/28	42.1471	7.92857	2.04774	229.278	175.901	6.98558	2.30728	0.765875	1529.82	128.771	0.703589	1.19821	158.332
10/29	42.1390	7.93843	2.04751	229.089	175.861	6.98838	2.30680	0.765490	1530.67	128.732	0.703225	1.19654	157.488
10/30	42.1408	7.93751	2.04723	229.329	175.928	6.99151	2.30656	0.765580	1531.74	128.839	0.702338	1.2175	159.371
10/31	42.1424	7.94124	2.04667	228.956	175.900	6.99240	2.30581	0.765525	1532.81	128.844	0.702425	1.22117	160.278

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