1991 second half-yearly update of seasonal adjustments

The figures in this edition of the Bulletin incorporate the results of the latest update of seasonal adjustments (the monthly Monetary statistics have, since 29 November 1991, also included the results of the latest update). The method of seasonal adjustment used in this update is the same as that used in the previous update. For notes on the method see pages 93–98 of the February 1991 Bulletin and page 397 of the August 1991 Bulletin.

(a) Date ranges		1981 July Notes and coin -28						
The seasonal adjustments are now derived from the		(notes temporarily boosted by the Bank Holiday for the royal wedding)						
following data periods:		1988 Sept. Notes and coin -141						
(i) M0 June 1969 to 2 October (ii) monthly M2, M4 and lending (financial year constrained): July 1982 to September (iii) quarterly M4 and its counterparts (financial year	er 1991; .r	(notes temporarily boosted by the Post Office strike) Quarterly M4 and its counterparts (calendar year						
constrained): Q3 1982 to Q (iv) quarterly M4 and its counterparts (calendar year	-	constrained)						
constrained): Q2 1963 to Q (b) Treatment of outliers		1989 Q4 Changes in banks' sterling lending to individuals: other +200 Changes in banks' sterling lending to						
Atypical observations, which may be manifested as		industrial and commercial companies -200						
'outliers', possess the potential to distort estimates of trend and the seasonal pattern within time series. Th	ie	(impact of a temporary delay in the processing of credit card payments)						
treatment of such observations has been to investiga fully before deciding whether it is appropriate to mothem. Where an outlying observation has been modified to the control of the cont	odify ified,	1990 Q1 Changes in banks' sterling lending to individuals: other -200 Changes in banks' sterling lending to						
appropriate offsetting adjustments need also to be ap other series in order to preserve the accounting relat		industrial and commercial companies +200						
(except for M0).		(impact of a temporary delay in the processing of credit card payments)						
In addition to those detailed in earlier editions of the <i>Bulletin</i> , ⁽¹⁾ the following amounts (in £ millions) has added—with due regard to sign—to the unadjusted	ve been [.] data	1990 Q1 PCBR +3,000 CGBR (on own account) -3,000						
before deriving the new seasonal adjustments on the following monetary series:	2	(impact of special government grants to public corporations)						
M0 (amounts outstanding)		1990 Q3 PCBR +1,000						
1971 Jan. Notes and coin	-6	CGBR (on own account) -1,000						
1971 Feb. Notes and coin 1971 Mar. Notes and coin	-127 -69	(impact of special government grants to public corporations)						
(notes temporarily boosted by the Post Office strike)		1990 Q4 Changes in banks' sterling lending to individuals: other -200 Changes in banks' sterling lending to other)					
1977 May Notes and coin	-12	financial institutions +200)					
1977 June Notes and coin	-62	(resulting from a transfer of lending to the						
(notes temporarily boosted by the Bank		banking sector from the other financial						

⁽¹⁾ For a list of outliers adjusted for in previous updates see the following editions of the *Bulletin*: February 1991 pages 94–95; August 1991 page 397.

institutions sector)

Holiday for HM the Queen's Silver Jubilee)

1991 Q2 Changes in banks' sterling lending to individuals: other -200 Changes in banks' sterling lending to other financial institutions +200

(resulting from a transfer of lending to the banking sector from the other financial institutions sector)

(c) Comparison of old and new seasonally adjusted series

The table compares new M0, M4 and lending growth rates (one and twelve-month) with the old. Changes to

seasonally adjusted growth rates are mainly the result of adding six months' extra data in the computation of the new seasonal adjustments. While the addition of data has brought about some modest revisions to one-month percentage growth rates, particularly in recent months, twelve-month growth rates are broadly unchanged.

(d) The next half-yearly update

In 1992 the half-yearly updates will be carried out when data to February and August become available, so that the results are promulgated in mid-April and mid-October (rather than mid-May and mid-November, as in 1991).

Revised seasonal adjustments: a comparison of 'old' and 'new' seasonally adjusted series(a)

Changes (£ millions) and one and twelve-month percentage growth rates

		М0						M4							Sterling lending to M4 private sector					
		Change		Growth rates			Change		Growth rates				Change		Growth rates					
				1 month		12 month				1 month		12 month		1		1 month		12 month		
		Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	
1988	Jan.	82	84	0.5	0.5	4.7	4.7	3,055	3,147	1.0	1.0	15.9	16.0	6,793	6,795	2.0	2.0	20.1	20.1	
	Feb.	97	95	0.6	0.6	5.5	5.5	3,209	3,318	1.0	1.1	15.7	15.8	5,307	5,333	1.6	1.6	20.2	20.2	
	Mar.	139	140	0.9	0.9	5.8	5.8	5,379	5,214	1.7	1.7	16.8	16.8	6,158	6,152	1.8	1.8	21.1	21.1	
	Apr.	150	150	0.9	0.9	6.4	6.4	3,740	3,691	1.2	1.2	16.3	16.3	8,000	7,992	2.3	2.3	22.0	22.0	
	May	35	32	0.2	0.2	6.3	6.3	3,414	3,552	1.1	1.1	16.4	16.4	6,491	6,506	1.8	1.8	22.4	22.4	
	June	122	120	0.8	0.7	7.1	7.1	4,434	4,295	1.4	1.3	16.9	16.8	7,599	7,591	2.1	2.1	23.2	23.2	
	July	150	149	0.9	0.9	7.0	6.9	7,810	7,669	2.4	2.3	17.8	17.8	8,506	8,529	2.3	2.3	23.9	23.9	
	Aug.	69	70	0.4	0.4	7.4	7.4	3,707	3,842	1.1	1.2	17.6	17.6	6,306	6,284	1.7	1.6	24.3	24.3	
	Sept.	209	258	1.3	1.6	8.3	8.4	5,583	5,508	1.7	1.6	18.6	18.6	6,701	6,788	1.7	1.7	24.3	24.3	
	Oct.	21	-24	0.1	-0.1	7.5	7.5	3,925	4,191	1.1	1.2	17.5	17.5	7,508	7,321	1.9	1.9	24.9	24.9	
	Nov.	44	45	0.3	0.3	7.5	7.5	3,656	3,852	1.1	1.1	17.6	17.6	6,844	6,674	1.7	1.7	24.9	24.8	
	Dec.	89	87	0.5	0.5	7.7	7.7	4,542	4,245	1.3	1.2	17.3	17.3	6,792	6,841	1.7	1.7	24.9	24.8	
1989	Jan.	29	23	0.2	0.1	7.3	7.3	4,643	4,806	1.3	1.4	17.7	17.7	7,745	7,809	1.9	1.9	24.7	24.6	
	Feb.	14	20	0.1	0.1	6.8	6.8	5,243	5,059	1.5	1.4	18.1	18.1	6,171	6,060	1.5	1.4	24.6	24.5	
	Маг.	55	59	0.3	0.4	6.2	6.2	4,846	4,828	1.3	1.3	17.7	17.6	7,135	7,403	1.7	1.7	24.4	24.4	
	Apr.	105	115	0.6	0.7	5.8	5.9	4.871	4,194	1.3	1.1	17.8	17.6	7,056	7,107	1.6	1.6	23.6	23.6	
	May	46	36	0.3	0.2	5.9	5.9	4,995	4,979	1.3	1.3	18.1	17.8	7,115	7.218	1.6	1.6	23.4	23.4	
	June	104	96	0.6	0.6	5.7	5.8	5,237	5,733	1.4	1.5	18.1	18.0	6,647	6,921	1.5	1.5	22.6	22.8	
	July	76	80	0.4	0.5	5.2	5.3	4,732	4,664	1.2	1.2	16.8	16.7	7,825	7,761	1.7	1.7	22.0	22.0	
	Aug.	189	189	1.1	1.1	6.0	6.0	5,975	6,260	1.5	1.6	17.2	17.2	8,412	8,389	1.8	1.8	22.1	22.2	
	Sept.	-21	24	-0.1	0.1	4.5	4.5	5,549	5,496	1.4	1.4	16.9	16.9	8,357	8,375	1.8	1.8	22.2	22.3	
	Oct.	147	111	0.8	0.6	5.3	5.3	5,059	5,289	1.3	1.3	17.0	17.0	6,227	6,166	1.3	1.3	21.5	21.6	
	Nov.	126	129	0.7	0.7	5.7	5.8	3,751	4,364	0.9	1.1	16.9	17.0	6,061	5,947	1.2	1.2	20.9	21.0	
	Dec.	129	127	0.7	0.7	5.9	6.0	9,786	8,944	2.4	2.2	18.1	18.1	9,752	9,724	2.0	2.0	21.3	21.4	
1990	Jan.	-19	-30	-0.1	-0.2	5.6	5.7	5,907	6,111	1.4	1.4	18.2	18.2	6,504	6,296	1.3	1.3	20.6	20.6	
	Feb.	189	171	1.1	1.0	6.7	6.6	5,073	4,921	1.2	1.1	17.9	17.9	7,763	7,582	1.5	1.5	20.7	20.7	
	Mar.	59	49	0.3	0.3	6.7	6.5	4,877	5,011	1.1	1.2	17.7	17.7	7,815	8,047	1.5	1.6	20.5	20.5	
	Apr.	260	246	1.4	1.4	7.5	7.2	5,661	4,193	1.3	1.0	17.7	17.5	4,849	5,516	0.9	1.0	19.7	19.8	
	May	-65	-28	-0.4	-0.2	6.9	6.8	5,169	4,225	1.2	1.0	17.5	17.1	6,547	6,637	1.2	1.3	19.3	19.4	
	June	21	-5	0.1		6.3	6.2	4,964	6,237	1.1	1.4	17.2	16.9	5,983	7.192	1 1	1.3	18.8	19.2	
	July	-70	-16	-0.4	-0.1	5.5	5.6	2,648	4,185	0.6	0.9	16.4	16.6	4,755	4,863	0.9	0.9	17.8	18.2	
	Aug.	72	72	0.4	0.4	4.8	4.9	3,317	3,332	0.7	0.7	15.5	15.6	5,154	4,231	0.9	0.8	16.8	17.0	
	Sept.	-62	-5	-0.3	_	4.5	4.7	3,093	3,449	0.7	0.7	14.7	14.9	4,523	4,646	0.8	0.8	15.8	15.9	
	Oct.	50	-10	0.3	-0.1	3.9	4.0	3,853	3,415	0.8	0.7	14.2	14.3	5,976	5,626	1.1	1.0	15.5	15.6	
	Nov.	-2	-5	_	_	3.2	3.2	4,711	5,678	1.0	1.2	14.3	14.4	6,633	6,219	1.2	1.1	15.4	15.5	
	Dec.	43	65	0.2	0.4	2.7	2.8	2,447	1,174	0.5	0.2	12.3	12.3	3,311	3,230	0.6	0.6	13.8	13.9	
1991		110	80	0.6	0.4	3.4	3.4	2,136	2,243	0.5	0.5	11.2	11.2	4,297	3,819	0.7	0.7	13.2	13.3	
	Feb.	82	31	0.4	0.2	2.8	2.6	3,747	3,590	0.8	0.8	10.8	10.8	4,636	4,386	0.8	0.8	12.4	12.4	
	Mar.	28	17	0.2	0.1	2.6	2.5	1,288	1,550	0.3	0.3	9.8	9.9	1,633	1,933	0.3	0.3	11.1	11.1	
	Apr.	90	75	0.5	0.4	1.6	1.5	6,360	4,126	1.3	0.9	9.9	9.8	3,398	4,417	0.6	0.8	10.7	10.8	
	May	-65	-8	-0.3	_	1.6	1.6	4,356	2,807	0.9	0.6	9.6	9.3	2,687	2,805	0.5	0.5	9.9	9.9	
	June	89	50	0.5	0.3	2.0	1.9	-2,117	-115	-0.4	_	7.9	7.8	147	2,035	-	0.3	8.7	8.8	
	July	-65	25	-0.3	0.1	2.0	2.1	2,012	4,196	0.4	0.9	7.7	7.8	3,193	3,368	0.5	0.6	8.3	8.5	
	Aug.	-13	-21	-0.1	-0.1	1.6	1.6	1,169	1,103	0.2	0.2	7.2	7.2	3,619	2,149	0.6	0.4	8.0	8.1	
	Sept.	60	131	0.3	0.7	2.2	2.3	-301	268	-0.1	0.1	6.4	6.5	774	943	0.1	0.2	7.2	7.3	

⁽a) In addition to updated seasonal adjustments, the 'new' series included some minor revisions to unadjusted data. Figures elsewhere in this *Bulletin* (eg in the statistical annex) incorporate also any subsequent revisions to the unadjusted data.