



## **Appendix E**

### **Daily cash storage cost**

**April to June 1998**

#### **Explanatory notes**

Appendix E determines the total daily storage cost based on the amount of cash held by the branch and its agencies on a daily basis. The calculations to determine the values of  $C_{10}$  and  $C_{13}$  were shown in paragraph 4.3.1. The value of  $c_{11}$  was provided by the branch. The value of  $Q_i$  - the daily amount of cash on hand was determined in Appendix D. Refer to the explanatory note on Appendix D for the assumption regarding amount on hand on non-trading days.



**Appendix E:  
Daily cash storage cost: April 1998**

Date	Days (holidays)	Total daily cash on hand	Storage cost		
			C10+C13	c11(Qi)	Total
31-Mar-98	Tuesday	1 417 954.04			
1-Apr-98	Wednesday	1 015 826.02	1 631	431.38	2 062
2	Thursday	736 042.56	1 631	312.57	1 944
3	Friday	861 144.83	1 631	365.69	1 997
4	Saturday	1 014 218.69	1 631	430.70	2 062
5	Sunday	1 014 218.69	1 550	430.70	1 981
6	Monday	1 366 864.64	1 631	580.45	2 211
7	Tuesday	1 453 812.58	1 631	617.37	2 248
8	Wednesday	2 675 752.56	1 631	1 136.28	2 767
9	Thursday	1 936 671.08	1 631	822.42	2 453
10	Good Friday	1 936 671.08	1 550	822.42	2 372
11	Saturday	1 699 661.90	1 631	721.77	2 353
12	Sunday	1 699 661.90	1 550	721.77	2 272
13	Family day	1 699 661.90	1 550	721.77	2 272
14	Tuesday	2 247 119.82	1 631	954.26	2 585
15	Wednesday	2 199 932.60	1 631	934.22	2 565
16	Thursday	2 496 891.94	1 631	1 060.32	2 691
17	Friday	2 180 154.05	1 631	925.82	2 557
18	Saturday	2 160 665.83	1 631	917.54	2 549
19	Sunday	2 160 665.83	1 550	917.54	2 468
20	Monday	2 597 539.18	1 631	1 103.06	2 734
21	Tuesday	2 383 483.43	1 631	1 012.16	2 643
22	Wednesday	2 311 960.24	1 631	981.79	2 613
23	Thursday	2 063 379.58	1 631	876.23	2 507
24	Friday	1 161 743.98	1 631	493.34	2 124
25	Saturday	1 177 266.21	1 631	499.93	2 131
26	Sunday	1 177 266.21	1 550	499.93	2 050
27	Freedom day	1 177 266.21	1 550	499.93	2 050
28	Tuesday	1 274 049.80	1 631	541.03	2 172
29	Wednesday	2 082 335.53	1 631	884.28	2 515
30	Thursday	1 001 508.82	1 631	425.30	2 056
<b>TOTAL</b>			48 363	21 642	70 005



<b>Appendix E: Daily cash storage cost: May 1998</b>					
Date	Days (holidays)	Total daily cash on hand	Storage cost		
			C10+C13	c11(Qi)	Total
1-May-98	Workers' day	1 001 508.82	1 550	425.30	1 975
2	Saturday	991 791.75	1 631	421.17	2 052
3	Sunday	991 791.75	1 550	421.17	1 971
4	Monday	1 257 200.28	1 631	533.88	2 165
5	Tuesday	1 308 088.69	1 631	555.49	2 186
6	Wednesday	2 634 984.94	1 631	1 118.97	2 750
7	Thursday	2 275 124.69	1 631	966.15	2 597
8	Friday	2 088 359.76	1 631	886.84	2 518
9	Saturday	2 090 219.56	1 631	887.63	2 519
10	Sunday	2 090 219.56	1 550	887.63	2 438
11	Monday	2 306 444.91	1 631	979.45	2 610
12	Tuesday	1 429 187.89	1 631	606.92	2 238
13	Wednesday	2 535 553.64	1 631	1 076.74	2 708
14	Thursday	2 472 988.95	1 631	1 050.17	2 681
15	Friday	2 232 749.54	1 631	948.15	2 579
16	Saturday	2 242 834.20	1 631	952.44	2 583
17	Sunday	2 242 834.20	1 550	952.44	2 502
18	Monday	2 515 922.54	1 631	1 068.41	2 699
19	Tuesday	2 650 916.12	1 631	1 125.73	2 757
20	Wednesday	2 624 168.46	1 631	1 114.37	2 745
21	Thursday	2 272 610.27	1 631	965.08	2 596
22	Friday	2 120 107.06	1 631	900.32	2 531
23	Saturday	2 141 629.55	1 631	909.46	2 540
24	Sunday	2 141 629.55	1 550	909.46	2 459
25	Monday	1 777 804.08	1 631	754.96	2 386
26	Tuesday	2 395 522.12	1 631	1 017.28	2 648
27	Wednesday	2 255 713.45	1 631	957.91	2 589
28	Thursday	1 737 008.17	1 631	737.63	2 369
29	Friday	1 612 730.36	1 631	684.86	2 316
30	Saturday	1 426 802.21	1 631	605.90	2 237
31	Sunday	1 426 802.21	1 550	605.90	2 156
<b>TOTAL</b>			<b>48 525</b>	<b>25 602</b>	<b>74 127</b>



**Appendix E:  
Daily cash storage cost: June 1998**

Date	Days (holidays)	Total daily cash on hand	Storage cost		
			C10 + C13	c11(Qi)	Total
1-Jun-98	Monday	1 372 102.25	1 631	582.67	2 214
2	Tuesday	2 129 883.34	1 631	904.47	2 535
3	Wednesday	2 097 580.05	1 631	890.75	2 522
4	Thursday	2 170 599.69	1 631	921.76	2 553
5	Friday	2 182 795.10	1 631	926.94	2 558
6	Saturday	2 082 802.89	1 631	884.48	2 515
7	Sunday	2 082 802.89	1 550	884.48	2 434
8	Monday	2 384 214.72	1 631	1 012.47	2 643
9	Tuesday	2 500 835.02	1 631	1 062.00	2 693
10	Wednesday	2 393 947.97	1 631	1 016.61	2 648
11	Thursday	2 304 452.97	1 631	978.60	2 610
12	Friday	1 835 093.28	1 631	779.29	2 410
13	Saturday	1 778 728.25	1 631	755.35	2 386
14	Sunday	1 778 728.25	1 550	755.35	2 305
15	Monday	2 237 634.40	1 631	950.23	2 581
16	Youth day	2 237 634.40	1 550	950.23	2 500
17	Wednesday	2 751 331.10	1 631	1 168.37	2 799
18	Thursday	2 661 876.80	1 631	1 130.39	2 761
19	Friday	2 101 165.68	1 631	892.28	2 523
20	Saturday	1 963 708.16	1 631	833.90	2 465
21	Sunday	1 963 708.16	1 550	833.90	2 384
22	Monday	2 530 089.97	1 631	1 074.42	2 705
23	Tuesday	2 426 046.51	1 631	1 030.24	2 661
24	Wednesday	2 291 443.96	1 631	973.08	2 604
25	Thursday	2 730 895.09	1 631	1 159.70	2 791
26	Friday	2 338 401.52	1 631	993.02	2 624
27	Saturday	2 333 618.91	1 631	990.99	2 622
28	Sunday	2 333 618.91	1 550	990.99	2 541
29	Monday	1 896 535.98	1 631	805.38	2 436
30	Tuesday	1 685 985.20	1 631	715.97	2 347
<b>TOTAL</b>			<b>48 525</b>	<b>27 848</b>	<b>76 373</b>



## **Appendix F**

### **Daily cash supply cost**

**April to June 1998**

#### **Explanatory notes**

Appendix F determines the total daily supply cost based on the amount of cash delivered to the branch from SBV and sent from the branch to its agencies on a daily basis. The calculations to determine the cost parameters were shown in paragraph 4.3.3. The value of  $Q_i$  - the daily amount of cash on hand was determined in Appendix D. Order type is denoted by N for a delivery at the normal cost placed two days before delivery, and S for a special delivery, authorised and arranged for delivery on that day but at the increased cost.



### Appendix F: Daily cash supply cost: April 1998

Date	Days (holidays)	Cash movements between branch and SBV					Cost of cash movement: branch & agencies				Total supply cost		
		SBV in Notes	SBV in Coin	SBV out Notes	SBV out Coin	Arrival time & order type	Cost	Cash moved to and from agencies					
							To A	From A	To B	From B	Cost		
31-Mar-98	Tuesday												
1-Apr-98	Wednesday							130 000	205 000	20 000	25 480	300	300
2	Thursday							26 000	23 000	20 000	17 220	300	300
3	Friday	850 000	16 000			13:45 N	1 035	72 000		20 000	9 271	300	1 335
4	Saturday												0
5	Sunday												0
6	Monday								537 000	20 000		300	300
7	Tuesday								240 000	20 000	15 284	300	300
8	Wednesday	1 300 000				? N	535	7 000	112 100	20 013	4 000	300	835
9	Thursday							108 000		19 000	3 700	300	300
10	Good Friday												0
11	Saturday												0
12	Sunday												0
13	Family day												0
14	Tuesday								697 000	15 000	10 620	300	300
15	Wednesday							26 000	8 400	20 000	16 895	300	300
16	Thursday	600 000				12:05 N	535	26 000	187 040	20 000	16 140	300	835
17	Friday		20 400			11:00 N	535	80 000		20 400		300	835
18	Saturday												0
19	Sunday												0
20	Monday								459 000	20 000	15 107	300	300
21	Tuesday							26 000	57 000	20 000	12 338	300	300
22	Wednesday							28 000	138 000	20 000	23 360	300	300
23	Thursday							26 000	93 000	20 000		300	300
24	Friday				3 760	? N	535	90 000		152 000		300	835
25	Saturday												0
26	Sunday												0
27	Freedom day												0
28	Tuesday								75 000			300	300
29	Wednesday	1 000 000				15:10 S	1 035		2 640			300	1 335
30	Thursday							230 000		50 000		300	300
<b>TOTAL</b>							4 210					5 700	9 910



### Appendix F: Daily cash supply cost: May 1998

Date	Days (holidays)	Cash movements between branch and SBV					Cost of cash movement: branch & agencies				Total supply cost		
		SBV In Notes	SBV In Coin	SBV out Notes	SBV out Coin	Arrival time & order type	Cost	Cash moved to and from agencies					
							To A	From A	To B	From B	Cost		
1-May-98	Workers' day												0
2	Saturday												0
3	Sunday												0
4	Monday							93 060	13 000	8 620	300		300
5	Tuesday							49 000	61 200	11 000	19 090	300	300
6	Wednesday	1 000 000				12:30 N	535	26 000	128 000	10 000	20 200	300	835
7	Thursday							26 000	119 000	50 200	12 800	300	300
8	Friday							163 000		20 000	4 994	300	300
9	Saturday												0
10	Sunday												0
11	Monday								295 000	20 000	12 000	300	300
12	Tuesday							27 000	260 040	30 000	17 604	300	300
13	Wednesday							26 000	112 000	20 000	10 717	300	300
14	Thursday							26 000	114 000	20 000	18 053	300	300
15	Friday		12 400			12:45 N	535	102 000		20 000		300	835
16	Saturday												0
17	Sunday												0
18	Monday								288 000	20 000	6 480	300	300
19	Tuesday							26 000	168 000	22 000	25 382	300	300
20	Wednesday							26 000	87 000	20 000	20 000	300	300
21	Thursday							26 000		20 000		300	300
22	Friday	250 000		250 000		11:40 N	535	128 000		20 000	20 000	300	835
23	Saturday												0
24	Sunday												0
25	Monday								65 000	132 000	2 710	300	300
26	Tuesday	500 000				11:40 N	535	56 000	94 600	20 000	8 170	300	835
27	Wednesday							68 000	108 000	20 000	25 270	300	300
28	Thursday							68 000		20 000		300	300
29	Friday	500 000				? N	535	144 000		20 000		300	835
30	Saturday							60 000				150	150
31	Sunday												
<b>TOTAL</b>							2 675					6 150	8 825



**Appendix F:  
Daily cash supply cost: June 1998**

Date	Days (holidays)	Cash movements between branch and SBV					Cost of cash movement: branch & agencies					Total supply cost	
		SBV in Notes	SBV in Coin	SBV out Notes	SBV out Coin	Arrival time & order type	Cost	Cash moved to and from agencies					Cost
								To A	From A	To B	From B		
1-Jun-98	Monday									20 400	10 910	300	300
2	Tuesday	500 000				9:40 N	535		337 000	20 000	25 342	300	835
3	Wednesday							27 000		20 200	20 000	300	300
4	Thursday								236 040			300	300
5	Friday							114 000		20 000		300	300
6	Saturday												0
7	Sunday												0
8	Monday								455 400	20 000	12 964	300	300
9	Tuesday							26 000	1 280	20 000	26 260	300	300
10	Wednesday							26 000	49 080	20 000	5 000	300	300
11	Thursday							26 000	106 800	20 000	5 580	300	300
12	Friday							154 000		20 000	2 800	300	300
13	Saturday												0
14	Sunday												0
15	Monday								192 000	20 000	21 470	300	300
16	Youth day												0
17	Wednesday							26 000	396 000	20 000	4 000	300	300
18	Thursday							26 000	170 040	20 000	21 240	300	300
19	Friday				20 100	11:50 N	535	114 000		20 000	17 780	300	835
20	Saturday							40 000				150	150
21	Sunday												0
22	Monday								355 060	20 000	20 270	300	300
23	Tuesday							26 000	57 220	20 400	15 770	300	300
24	Wednesday							26 000	50 240	20 000	5 460	300	300
25	Thursday	650 000				14:00 N	535	56 000	55 020	130 000	23 110	300	835
26	Friday	300 000			45 420	12:35/13:45 N	1 035	144 000		20 000		300	1 335
27	Saturday												0
28	Sunday												0
29	Monday								94 400	30 200	8 310	300	300
30	Tuesday							101 000	460	30 000	6 550	300	300
<b>TOTAL</b>							2 640					6 450	9 090



## **Appendix G**

### **Total daily cost of holding cash**

**April to June 1998**

#### **Explanatory note**

Appendix G1 summarises the cost information determined in Appendices E and F for the period April to June 1998. Appendix G2 provides a graph of the total daily cost of holding cash as well as its constituent parts.



**Appendix G1:  
Total daily cost of holding cash: April 1998**

Date	Days (holidays)	Total daily storage cost	Total daily supply cost	Total daily cost of holding cash
31-Mar-98	Tuesday			
1-Apr-98	Wednesday	2 062	300	2 362
2	Thursday	1 944	300	2 244
3	Friday	1 997	1 335	3 332
4	Saturday	2 062	0	2 062
5	Sunday	1 981	0	1 981
6	Monday	2 211	300	2 511
7	Tuesday	2 248	300	2 548
8	Wednesday	2 767	835	3 602
9	Thursday	2 453	300	2 753
10	Good Friday	2 372	0	2 372
11	Saturday	2 353	0	2 353
12	Sunday	2 272	0	2 272
13	Family day	2 272	0	2 272
14	Tuesday	2 585	300	2 885
15	Wednesday	2 565	300	2 865
16	Thursday	2 691	835	3 526
17	Friday	2 557	835	3 392
18	Saturday	2 549	0	2 549
19	Sunday	2 468	0	2 468
20	Monday	2 734	300	3 034
21	Tuesday	2 643	300	2 943
22	Wednesday	2 613	300	2 913
23	Thursday	2 507	300	2 807
24	Friday	2 124	835	2 959
25	Saturday	2 131	0	2 131
26	Sunday	2 050	0	2 050
27	Freedom day	2 050	0	2 050
28	Tuesday	2 172	300	2 472
29	Wednesday	2 515	1 335	3 850
30	Thursday	2 056	300	2 356
<b>TOTAL</b>		<b>70 005</b>	<b>9 910</b>	<b>79 915</b>



**Appendix G1:  
Total daily cost of holding cash: May 1998**

Date	Days (holidays)	Total daily storage cost	Total daily supply cost	Total daily cost of holding cost
1-May-98	Workers' day	1 975	0	1 975
2	Saturday	2 052	0	2 052
3	Sunday	1 971	0	1 971
4	Monday	2 165	300	2 465
5	Tuesday	2 186	300	2 486
6	Wednesday	2 750	835	3 585
7	Thursday	2 597	300	2 897
8	Friday	2 518	300	2 818
9	Saturday	2 519	0	2 519
10	Sunday	2 438	0	2 438
11	Monday	2 610	300	2 910
12	Tuesday	2 238	300	2 538
13	Wednesday	2 708	300	3 008
14	Thursday	2 681	300	2 981
15	Friday	2 579	835	3 414
16	Saturday	2 583	0	2 583
17	Sunday	2 502	0	2 502
18	Monday	2 699	300	2 999
19	Tuesday	2 757	300	3 057
20	Wednesday	2 745	300	3 045
21	Thursday	2 596	300	2 896
22	Friday	2 531	835	3 366
23	Saturday	2 540	0	2 540
24	Sunday	2 459	0	2 459
25	Monday	2 386	300	2 686
26	Tuesday	2 648	835	3 483
27	Wednesday	2 589	300	2 889
28	Thursday	2 369	300	2 669
29	Friday	2 316	835	3 151
30	Saturday	2 237	150	2 387
31	Sunday	2 156		2 156
<b>TOTAL</b>		<b>74 127</b>	<b>8 825</b>	<b>82 952</b>



<b>Appendix G1: Total daily cost of holding cash: June 1998</b>				
<b>Date</b>	<b>Days (holidays)</b>	<b>Total daily storage cost</b>	<b>Total daily supply cost</b>	<b>Total daily cost of holding cash</b>
1-Jun-98	Monday	2 214	300	2 514
2	Tuesday	2 535	835	3 370
3	Wednesday	2 522	300	2 822
4	Thursday	2 553	300	2 853
5	Friday	2 558	300	2 858
6	Saturday	2 515	0	2 515
7	Sunday	2 434	0	2 434
8	Monday	2 643	300	2 943
9	Tuesday	2 693	300	2 993
10	Wednesday	2 648	300	2 948
11	Thursday	2 610	300	2 910
12	Friday	2 410	300	2 710
13	Saturday	2 386	0	2 386
14	Sunday	2 305	0	2 305
15	Monday	2 581	300	2 881
16	Youth day	2 500	0	2 500
17	Wednesday	2 799	300	3 099
18	Thursday	2 761	300	3 061
19	Friday	2 523	835	3 358
20	Saturday	2 465	150	2 615
21	Sunday	2 384	0	2 384
22	Monday	2 705	300	3 005
23	Tuesday	2 661	300	2 961
24	Wednesday	2 604	300	2 904
25	Thursday	2 791	835	3 626
26	Friday	2 624	1 335	3 959
27	Saturday	2 622	0	2 622
28	Sunday	2 541	0	2 541
29	Monday	2 436	300	2 736
30	Tuesday	2 347	300	2 647
<b>TOTAL</b>		<b>76 373</b>	<b>9 090</b>	<b>85 463</b>

Appendix G2: Total daily cost of holding cash: April to June 1998

