

Official Journal of the European Union

L 250



English edition

Legislation

Volume 63

3 August 2020

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⁽¹⁾ Text with EEA relevance.

EN

Acts whose titles are printed in light type are those relating to day-to-day management of agricultural matters, and are generally valid for a limited period.

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II

(Non-legislative acts)

REGULATIONS

COMMISSION IMPLEMENTING REGULATION (EU) 2020/1145

of 31 July 2020

laying down technical information for the calculation of technical provisions and basic own funds for reporting with reference dates from 30 June 2020 until 29 September 2020 in accordance with Directive 2009/138/EC of the European Parliament and of the Council on the taking-up and pursuit of the business of Insurance and Reinsurance

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Directive 2009/138/EC of the European Parliament and of the Council of 25 November 2009 on the taking-up and pursuit of the business of Insurance and Reinsurance (Solvency II) ⁽¹⁾, and in particular the third subparagraph of Article 77e(2) thereof,

Whereas:

- (1) In order to ensure uniform conditions for the calculation of technical provisions and basic own funds by insurance and reinsurance undertakings for the purposes of Directive 2009/138/EC, technical information on relevant risk-free interest rate term structures, fundamental spreads for the calculation of the matching adjustment and volatility adjustments should be laid down for every reference date.
- (2) Insurance and re-insurance undertakings should use the technical information, which is based on market data related to the end of the last month preceding the first reporting reference date to which this Regulation applies. On 3 July 2020, the European Insurance and Occupational Pensions Authority provided the Commission with the technical information related to end of June 2020 market data. That information was published on 3 July 2020 in accordance with Article 77e(1) of Directive 2009/138/EC.
- (3) Given the need for the immediate availability of the technical information, it is important that this Regulation enters into force as a matter of urgency.
- (4) For prudential reasons it is necessary that insurance and reinsurance undertakings use the same technical information for calculating technical provisions and basic own funds irrespective of the date on which they report to their competent authorities. This Regulation should therefore apply from the first reporting reference date to which this Regulation applies.
- (5) To provide legal certainty as soon as possible, it is duly justified on imperative grounds of urgency related to the availability of the relevant risk-free interest rate term structure that measures provided for in this Regulation be adopted in accordance with Article 8, in conjunction with Article 4, of Regulation (EU) No 182/2011 of the European Parliament and of the Council ⁽²⁾,

⁽¹⁾ OJ L 335, 17.12.2009, p. 1.

⁽²⁾ Regulation (EU) No 182/2011 of the European Parliament and of the Council of 16 February 2011 laying down the rules and general principles concerning mechanisms for control by Member States of the Commission's exercise of implementing powers (OJ L 55, 28.2.2011, p. 13).

HAS ADOPTED THIS REGULATION:

Article 1

1. Insurance and reinsurance undertakings shall use the technical information referred to in paragraph 2 when calculating technical provisions and basic own funds for reporting with reference dates from 30 June 2020 until 29 September 2020.
2. For each relevant currency, the technical information used to calculate the best estimate in accordance with Article 77 of Directive 2009/138/EC, the matching adjustment in accordance with Article 77c of that Directive and the volatility adjustment in accordance with Article 77d of that Directive shall be the following:
 - (a) the relevant risk-free rate term structures set out in Annex I;
 - (b) the fundamental spreads for the calculation of the matching adjustment set out in Annex II;
 - (c) for each relevant national insurance market, the volatility adjustments set out in Annex III.

Article 2

This Regulation shall enter into force on the day following that of its publication in the *Official Journal of the European Union*.
It shall apply from 30 June 2020.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 31 July 2020.

For the Commission
The President
Ursula VON DER LEYEN

ANNEX I

Relevant risk-free interest rate term structures to calculate the best estimate, without any matching adjustment or volatility adjustment

Term to maturity (in years)	Euro	Czech koruna	Danish krone	Forint	Krona	Kuna
1	- 0,445 %	0,205 %	- 0,455 %	0,245 %	- 0,108 %	- 0,190 %
2	- 0,475 %	0,245 %	- 0,485 %	0,515 %	- 0,117 %	0,193 %
3	- 0,485 %	0,289 %	- 0,495 %	0,766 %	- 0,108 %	0,524 %
4	- 0,465 %	0,336 %	- 0,475 %	0,999 %	- 0,077 %	0,773 %
5	- 0,445 %	0,386 %	- 0,455 %	1,217 %	- 0,042 %	0,962 %
6	- 0,415 %	0,435 %	- 0,426 %	1,418 %	- 0,000 %	1,107 %
7	- 0,386 %	0,481 %	- 0,396 %	1,602 %	0,045 %	1,213 %
8	- 0,346 %	0,521 %	- 0,356 %	1,773 %	0,060 %	1,285 %
9	- 0,306 %	0,554 %	- 0,316 %	1,927 %	0,091 %	1,334 %
10	- 0,267 %	0,578 %	- 0,277 %	2,069 %	0,181 %	1,390 %
11	- 0,234 %	0,597 %	- 0,244 %	2,199 %	0,348 %	1,454 %
12	- 0,187 %	0,617 %	- 0,197 %	2,317 %	0,545 %	1,522 %
13	- 0,158 %	0,642 %	- 0,168 %	2,426 %	0,745 %	1,592 %
14	- 0,125 %	0,677 %	- 0,135 %	2,525 %	0,933 %	1,661 %
15	- 0,094 %	0,724 %	- 0,104 %	2,615 %	1,105 %	1,730 %
16	- 0,082 %	0,782 %	- 0,092 %	2,698 %	1,261 %	1,796 %
17	- 0,080 %	0,849 %	- 0,090 %	2,774 %	1,402 %	1,861 %
18	- 0,075 %	0,921 %	- 0,085 %	2,843 %	1,529 %	1,923 %
19	- 0,059 %	0,996 %	- 0,069 %	2,908 %	1,643 %	1,983 %
20	- 0,027 %	1,071 %	0,038 %	2,968 %	1,747 %	2,040 %
21	0,022 %	1,146 %	0,012 %	3,024 %	1,841 %	2,094 %
22	0,086 %	1,220 %	0,076 %	3,076 %	1,927 %	2,146 %
23	0,158 %	1,293 %	0,148 %	3,125 %	2,006 %	2,196 %
24	0,236 %	1,363 %	0,226 %	3,171 %	2,078 %	2,244 %

25	0,317 %	1,431 %	0,308 %	3,214 %	2,144 %	2,289 %
26	0,399 %	1,497 %	0,390 %	3,255 %	2,205 %	2,332 %
27	0,482 %	1,561 %	0,474 %	3,294 %	2,262 %	2,373 %
28	0,564 %	1,622 %	0,556 %	3,330 %	2,315 %	2,413 %
29	0,645 %	1,681 %	0,637 %	3,364 %	2,364 %	2,450 %
30	0,724 %	1,737 %	0,716 %	3,397 %	2,410 %	2,486 %
31	0,801 %	1,791 %	0,793 %	3,428 %	2,453 %	2,520 %
32	0,876 %	1,843 %	0,868 %	3,457 %	2,493 %	2,553 %
33	0,948 %	1,893 %	0,941 %	3,485 %	2,531 %	2,584 %
34	1,018 %	1,940 %	1,011 %	3,511 %	2,567 %	2,614 %
35	1,085 %	1,986 %	1,078 %	3,537 %	2,600 %	2,642 %
36	1,150 %	2,030 %	1,143 %	3,561 %	2,632 %	2,670 %
37	1,213 %	2,072 %	1,206 %	3,584 %	2,662 %	2,696 %
38	1,273 %	2,112 %	1,266 %	3,606 %	2,690 %	2,721 %
39	1,330 %	2,150 %	1,324 %	3,627 %	2,718 %	2,745 %
40	1,386 %	2,187 %	1,380 %	3,647 %	2,743 %	2,768 %
41	1,439 %	2,223 %	1,433 %	3,666 %	2,768 %	2,790 %
42	1,491 %	2,257 %	1,485 %	3,685 %	2,791 %	2,811 %
43	1,540 %	2,289 %	1,534 %	3,703 %	2,813 %	2,832 %
44	1,588 %	2,321 %	1,582 %	3,720 %	2,834 %	2,851 %
45	1,633 %	2,351 %	1,628 %	3,736 %	2,855 %	2,870 %
46	1,677 %	2,380 %	1,672 %	3,752 %	2,874 %	2,888 %
47	1,719 %	2,408 %	1,714 %	3,767 %	2,893 %	2,905 %
48	1,760 %	2,435 %	1,755 %	3,781 %	2,910 %	2,922 %
49	1,799 %	2,460 %	1,794 %	3,795 %	2,927 %	2,938 %
50	1,837 %	2,485 %	1,832 %	3,809 %	2,944 %	2,954 %
51	1,874 %	2,509 %	1,869 %	3,822 %	2,960 %	2,969 %

52	1,909 %	2,533 %	1,904 %	3,835 %	2,975 %	2,983 %
53	1,943 %	2,555 %	1,938 %	3,847 %	2,989 %	2,997 %
54	1,975 %	2,577 %	1,971 %	3,858 %	3,003 %	3,011 %
55	2,007 %	2,597 %	2,002 %	3,870 %	3,017 %	3,024 %
56	2,038 %	2,618 %	2,033 %	3,881 %	3,030 %	3,037 %
57	2,067 %	2,637 %	2,063 %	3,891 %	3,042 %	3,049 %
58	2,096 %	2,656 %	2,091 %	3,902 %	3,055 %	3,061 %
59	2,123 %	2,674 %	2,119 %	3,911 %	3,066 %	3,072 %
60	2,150 %	2,692 %	2,146 %	3,921 %	3,078 %	3,083 %
61	2,176 %	2,709 %	2,172 %	3,930 %	3,089 %	3,094 %
62	2,201 %	2,726 %	2,197 %	3,939 %	3,099 %	3,104 %
63	2,225 %	2,742 %	2,221 %	3,948 %	3,110 %	3,114 %
64	2,249 %	2,757 %	2,245 %	3,957 %	3,120 %	3,124 %
65	2,272 %	2,772 %	2,268 %	3,965 %	3,129 %	3,134 %
66	2,294 %	2,787 %	2,290 %	3,973 %	3,139 %	3,143 %
67	2,315 %	2,801 %	2,312 %	3,981 %	3,148 %	3,152 %
68	2,336 %	2,815 %	2,332 %	3,988 %	3,157 %	3,161 %
69	2,356 %	2,828 %	2,353 %	3,995 %	3,165 %	3,169 %
70	2,376 %	2,841 %	2,373 %	4,003 %	3,173 %	3,177 %
71	2,395 %	2,854 %	2,392 %	4,010 %	3,182 %	3,185 %
72	2,414 %	2,867 %	2,411 %	4,016 %	3,189 %	3,193 %
73	2,432 %	2,879 %	2,429 %	4,023 %	3,197 %	3,201 %
74	2,450 %	2,890 %	2,446 %	4,029 %	3,205 %	3,208 %
75	2,467 %	2,902 %	2,464 %	4,035 %	3,212 %	3,215 %
76	2,484 %	2,913 %	2,481 %	4,042 %	3,219 %	3,222 %
77	2,500 %	2,924 %	2,497 %	4,047 %	3,226 %	3,229 %
78	2,516 %	2,934 %	2,513 %	4,053 %	3,232 %	3,236 %

79	2,532 %	2,944 %	2,528 %	4,059 %	3,239 %	3,242 %
80	2,547 %	2,954 %	2,544 %	4,064 %	3,245 %	3,248 %
81	2,561 %	2,964 %	2,558 %	4,070 %	3,252 %	3,255 %
82	2,576 %	2,974 %	2,573 %	4,075 %	3,258 %	3,261 %
83	2,590 %	2,983 %	2,587 %	4,080 %	3,264 %	3,266 %
84	2,604 %	2,992 %	2,601 %	4,085 %	3,269 %	3,272 %
85	2,617 %	3,001 %	2,614 %	4,090 %	3,275 %	3,278 %
86	2,630 %	3,010 %	2,627 %	4,095 %	3,281 %	3,283 %
87	2,643 %	3,018 %	2,640 %	4,099 %	3,286 %	3,289 %
88	2,655 %	3,026 %	2,653 %	4,104 %	3,291 %	3,294 %
89	2,668 %	3,034 %	2,665 %	4,108 %	3,296 %	3,299 %
90	2,680 %	3,042 %	2,677 %	4,112 %	3,301 %	3,304 %
91	2,691 %	3,050 %	2,689 %	4,117 %	3,306 %	3,309 %
92	2,703 %	3,058 %	2,700 %	4,121 %	3,311 %	3,314 %
93	2,714 %	3,065 %	2,711 %	4,125 %	3,316 %	3,318 %
94	2,725 %	3,072 %	2,722 %	4,129 %	3,320 %	3,323 %
95	2,736 %	3,080 %	2,733 %	4,133 %	3,325 %	3,327 %
96	2,746 %	3,086 %	2,744 %	4,137 %	3,329 %	3,332 %
97	2,757 %	3,093 %	2,754 %	4,140 %	3,334 %	3,336 %
98	2,767 %	3,100 %	2,764 %	4,144 %	3,338 %	3,340 %
99	2,777 %	3,107 %	2,774 %	4,148 %	3,342 %	3,344 %
100	2,786 %	3,113 %	2,784 %	4,151 %	3,346 %	3,348 %
101	2,796 %	3,119 %	2,793 %	4,155 %	3,350 %	3,352 %
102	2,805 %	3,125 %	2,803 %	4,158 %	3,354 %	3,356 %
103	2,814 %	3,131 %	2,812 %	4,161 %	3,358 %	3,360 %
104	2,823 %	3,137 %	2,821 %	4,164 %	3,362 %	3,364 %
105	2,832 %	3,143 %	2,830 %	4,168 %	3,365 %	3,367 %

106	2,841 %	3,149 %	2,838 %	4,171 %	3,369 %	3,371 %
107	2,849 %	3,154 %	2,847 %	4,174 %	3,372 %	3,375 %
108	2,857 %	3,160 %	2,855 %	4,177 %	3,376 %	3,378 %
109	2,865 %	3,165 %	2,863 %	4,180 %	3,379 %	3,382 %
110	2,873 %	3,171 %	2,871 %	4,183 %	3,383 %	3,385 %
111	2,881 %	3,176 %	2,879 %	4,186 %	3,386 %	3,388 %
112	2,889 %	3,181 %	2,887 %	4,188 %	3,389 %	3,391 %
113	2,897 %	3,186 %	2,894 %	4,191 %	3,392 %	3,395 %
114	2,904 %	3,191 %	2,902 %	4,194 %	3,396 %	3,398 %
115	2,911 %	3,196 %	2,909 %	4,197 %	3,399 %	3,401 %
116	2,919 %	3,201 %	2,916 %	4,199 %	3,402 %	3,404 %
117	2,926 %	3,205 %	2,924 %	4,202 %	3,405 %	3,407 %
118	2,933 %	3,210 %	2,931 %	4,204 %	3,408 %	3,410 %
119	2,939 %	3,214 %	2,937 %	4,207 %	3,410 %	3,412 %
120	2,946 %	3,219 %	2,944 %	4,209 %	3,413 %	3,415 %
121	2,953 %	3,223 %	2,951 %	4,212 %	3,416 %	3,418 %
122	2,959 %	3,228 %	2,957 %	4,214 %	3,419 %	3,421 %
123	2,966 %	3,232 %	2,964 %	4,216 %	3,422 %	3,423 %
124	2,972 %	3,236 %	2,970 %	4,219 %	3,424 %	3,426 %
125	2,978 %	3,240 %	2,976 %	4,221 %	3,427 %	3,429 %
126	2,984 %	3,244 %	2,982 %	4,223 %	3,429 %	3,431 %
127	2,990 %	3,248 %	2,988 %	4,225 %	3,432 %	3,434 %
128	2,996 %	3,252 %	2,994 %	4,227 %	3,434 %	3,436 %
129	3,002 %	3,256 %	3,000 %	4,229 %	3,437 %	3,439 %
130	3,008 %	3,260 %	3,006 %	4,231 %	3,439 %	3,441 %
131	3,013 %	3,263 %	3,012 %	4,234 %	3,442 %	3,443 %
132	3,019 %	3,267 %	3,017 %	4,236 %	3,444 %	3,446 %

133	3,024 %	3,271 %	3,023 %	4,238 %	3,446 %	3,448 %
134	3,030 %	3,274 %	3,028 %	4,239 %	3,448 %	3,450 %
135	3,035 %	3,278 %	3,033 %	4,241 %	3,451 %	3,452 %
136	3,040 %	3,281 %	3,039 %	4,243 %	3,453 %	3,455 %
137	3,046 %	3,285 %	3,044 %	4,245 %	3,455 %	3,457 %
138	3,051 %	3,288 %	3,049 %	4,247 %	3,457 %	3,459 %
139	3,056 %	3,291 %	3,054 %	4,249 %	3,459 %	3,461 %
140	3,061 %	3,295 %	3,059 %	4,251 %	3,461 %	3,463 %
141	3,066 %	3,298 %	3,064 %	4,252 %	3,463 %	3,465 %
142	3,070 %	3,301 %	3,069 %	4,254 %	3,465 %	3,467 %
143	3,075 %	3,304 %	3,073 %	4,256 %	3,467 %	3,469 %
144	3,080 %	3,307 %	3,078 %	4,258 %	3,469 %	3,471 %
145	3,084 %	3,310 %	3,083 %	4,259 %	3,471 %	3,473 %
146	3,089 %	3,313 %	3,087 %	4,261 %	3,473 %	3,475 %
147	3,093 %	3,316 %	3,092 %	4,263 %	3,475 %	3,477 %
148	3,098 %	3,319 %	3,096 %	4,264 %	3,477 %	3,478 %
149	3,102 %	3,322 %	3,100 %	4,266 %	3,479 %	3,480 %
150	3,106 %	3,325 %	3,105 %	4,267 %	3,481 %	3,482 %

Term to maturity (in years)	Lev	Pound sterling	Romanian leu	Zloty	Króna	Norwegian krone
1	- 0,495 %	0,097 %	2,908 %	- 0,155 %	1,083 %	0,252 %
2	- 0,525 %	0,047 %	3,186 %	- 0,021 %	1,258 %	0,365 %
3	- 0,535 %	0,048 %	3,352 %	0,171 %	1,490 %	0,415 %
4	- 0,515 %	0,070 %	3,477 %	0,397 %	1,700 %	0,486 %
5	- 0,495 %	0,100 %	3,580 %	0,626 %	1,895 %	0,549 %
6	- 0,466 %	0,126 %	3,664 %	0,836 %	2,086 %	0,594 %
7	- 0,436 %	0,153 %	3,736 %	1,012 %	2,273 %	0,633 %

8	- 0,396 %	0,180 %	3,800 %	1,150 %	2,438 %	0,678 %
9	- 0,357 %	0,206 %	3,856 %	1,252 %	2,570 %	0,731 %
10	- 0,317 %	0,230 %	3,911 %	1,327 %	2,677 %	0,797 %
11	- 0,285 %	0,250 %	3,955 %	1,400 %	2,765 %	0,875 %
12	- 0,237 %	0,266 %	3,987 %	1,476 %	2,839 %	0,959 %
13	- 0,208 %	0,279 %	4,011 %	1,552 %	2,902 %	1,046 %
14	- 0,176 %	0,290 %	4,029 %	1,626 %	2,956 %	1,135 %
15	- 0,145 %	0,298 %	4,041 %	1,699 %	3,003 %	1,221 %
16	- 0,133 %	0,304 %	4,050 %	1,769 %	3,045 %	1,306 %
17	- 0,131 %	0,308 %	4,056 %	1,836 %	3,082 %	1,389 %
18	- 0,126 %	0,311 %	4,059 %	1,900 %	3,115 %	1,468 %
19	- 0,110 %	0,313 %	4,061 %	1,962 %	3,144 %	1,544 %
20	- 0,078 %	0,314 %	4,061 %	2,021 %	3,171 %	1,617 %
21	- 0,028 %	0,314 %	4,060 %	2,077 %	3,196 %	1,686 %
22	0,037 %	0,314 %	4,058 %	2,130 %	3,218 %	1,753 %
23	0,110 %	0,313 %	4,055 %	2,181 %	3,239 %	1,816 %
24	0,189 %	0,311 %	4,052 %	2,229 %	3,258 %	1,876 %
25	0,271 %	0,308 %	4,048 %	2,276 %	3,276 %	1,933 %
26	0,355 %	0,305 %	4,044 %	2,320 %	3,292 %	1,988 %
27	0,439 %	0,301 %	4,039 %	2,361 %	3,307 %	2,040 %
28	0,522 %	0,298 %	4,035 %	2,401 %	3,322 %	2,090 %
29	0,604 %	0,296 %	4,030 %	2,439 %	3,335 %	2,137 %
30	0,685 %	0,295 %	4,025 %	2,476 %	3,348 %	2,182 %
31	0,763 %	0,294 %	4,020 %	2,510 %	3,359 %	2,225 %
32	0,838 %	0,294 %	4,015 %	2,543 %	3,370 %	2,266 %
33	0,912 %	0,294 %	4,011 %	2,575 %	3,381 %	2,305 %
34	0,982 %	0,293 %	4,006 %	2,605 %	3,391 %	2,343 %

35	1,051 %	0,290 %	4,001 %	2,634 %	3,400 %	2,379 %
36	1,116 %	0,287 %	3,996 %	2,661 %	3,409 %	2,413 %
37	1,180 %	0,281 %	3,992 %	2,688 %	3,418 %	2,445 %
38	1,241 %	0,273 %	3,987 %	2,713 %	3,426 %	2,477 %
39	1,299 %	0,263 %	3,983 %	2,737 %	3,433 %	2,507 %
40	1,355 %	0,250 %	3,978 %	2,760 %	3,441 %	2,535 %
41	1,410 %	0,234 %	3,974 %	2,783 %	3,448 %	2,563 %
42	1,462 %	0,218 %	3,970 %	2,804 %	3,454 %	2,589 %
43	1,512 %	0,203 %	3,966 %	2,825 %	3,461 %	2,615 %
44	1,560 %	0,190 %	3,962 %	2,844 %	3,467 %	2,639 %
45	1,606 %	0,182 %	3,958 %	2,863 %	3,473 %	2,663 %
46	1,650 %	0,178 %	3,954 %	2,882 %	3,478 %	2,685 %
47	1,693 %	0,179 %	3,951 %	2,899 %	3,484 %	2,707 %
48	1,735 %	0,186 %	3,947 %	2,916 %	3,489 %	2,728 %
49	1,774 %	0,198 %	3,944 %	2,932 %	3,494 %	2,748 %
50	1,813 %	0,217 %	3,940 %	2,948 %	3,499 %	2,767 %
51	1,849 %	0,242 %	3,937 %	2,963 %	3,503 %	2,786 %
52	1,885 %	0,272 %	3,934 %	2,978 %	3,508 %	2,804 %
53	1,919 %	0,306 %	3,931 %	2,992 %	3,512 %	2,821 %
54	1,953 %	0,342 %	3,928 %	3,006 %	3,516 %	2,838 %
55	1,985 %	0,381 %	3,925 %	3,019 %	3,520 %	2,854 %
56	2,015 %	0,422 %	3,922 %	3,031 %	3,524 %	2,869 %
57	2,045 %	0,463 %	3,919 %	3,044 %	3,528 %	2,885 %
58	2,074 %	0,505 %	3,916 %	3,056 %	3,532 %	2,899 %
59	2,102 %	0,548 %	3,914 %	3,067 %	3,535 %	2,913 %
60	2,129 %	0,590 %	3,911 %	3,078 %	3,539 %	2,927 %
61	2,155 %	0,633 %	3,909 %	3,089 %	3,542 %	2,940 %

62	2,181 %	0,675 %	3,906 %	3,100 %	3,545 %	2,953 %
63	2,205 %	0,717 %	3,904 %	3,110 %	3,548 %	2,966 %
64	2,229 %	0,758 %	3,902 %	3,120 %	3,551 %	2,978 %
65	2,252 %	0,799 %	3,900 %	3,129 %	3,554 %	2,990 %
66	2,275 %	0,839 %	3,897 %	3,138 %	3,557 %	3,001 %
67	2,297 %	0,878 %	3,895 %	3,148 %	3,560 %	3,012 %
68	2,318 %	0,917 %	3,893 %	3,156 %	3,563 %	3,023 %
69	2,338 %	0,955 %	3,891 %	3,165 %	3,565 %	3,033 %
70	2,358 %	0,992 %	3,889 %	3,173 %	3,568 %	3,043 %
71	2,378 %	1,028 %	3,887 %	3,181 %	3,570 %	3,053 %
72	2,397 %	1,064 %	3,885 %	3,189 %	3,573 %	3,063 %
73	2,415 %	1,099 %	3,884 %	3,197 %	3,575 %	3,072 %
74	2,433 %	1,133 %	3,882 %	3,204 %	3,578 %	3,081 %
75	2,451 %	1,166 %	3,880 %	3,211 %	3,580 %	3,090 %
76	2,467 %	1,199 %	3,879 %	3,218 %	3,582 %	3,099 %
77	2,484 %	1,231 %	3,877 %	3,225 %	3,584 %	3,107 %
78	2,500 %	1,262 %	3,875 %	3,232 %	3,586 %	3,115 %
79	2,516 %	1,293 %	3,874 %	3,238 %	3,588 %	3,123 %
80	2,531 %	1,323 %	3,872 %	3,245 %	3,590 %	3,131 %
81	2,546 %	1,352 %	3,871 %	3,251 %	3,592 %	3,139 %
82	2,561 %	1,380 %	3,869 %	3,257 %	3,594 %	3,146 %
83	2,575 %	1,408 %	3,868 %	3,263 %	3,596 %	3,153 %
84	2,589 %	1,436 %	3,866 %	3,269 %	3,598 %	3,160 %
85	2,602 %	1,462 %	3,865 %	3,274 %	3,599 %	3,167 %
86	2,616 %	1,488 %	3,864 %	3,280 %	3,601 %	3,174 %
87	2,629 %	1,514 %	3,862 %	3,285 %	3,603 %	3,181 %
88	2,641 %	1,539 %	3,861 %	3,290 %	3,604 %	3,187 %

89	2,654 %	1,563 %	3,860 %	3,296 %	3,606 %	3,193 %
90	2,666 %	1,587 %	3,859 %	3,301 %	3,608 %	3,200 %
91	2,678 %	1,611 %	3,858 %	3,306 %	3,609 %	3,206 %
92	2,689 %	1,634 %	3,856 %	3,310 %	3,611 %	3,212 %
93	2,701 %	1,656 %	3,855 %	3,315 %	3,612 %	3,217 %
94	2,712 %	1,678 %	3,854 %	3,320 %	3,614 %	3,223 %
95	2,723 %	1,699 %	3,853 %	3,324 %	3,615 %	3,229 %
96	2,733 %	1,721 %	3,852 %	3,329 %	3,616 %	3,234 %
97	2,744 %	1,741 %	3,851 %	3,333 %	3,618 %	3,239 %
98	2,754 %	1,762 %	3,850 %	3,337 %	3,619 %	3,244 %
99	2,764 %	1,781 %	3,849 %	3,341 %	3,620 %	3,250 %
100	2,774 %	1,801 %	3,848 %	3,345 %	3,622 %	3,255 %
101	2,783 %	1,820 %	3,847 %	3,349 %	3,623 %	3,259 %
102	2,793 %	1,839 %	3,846 %	3,353 %	3,624 %	3,264 %
103	2,802 %	1,857 %	3,845 %	3,357 %	3,625 %	3,269 %
104	2,811 %	1,875 %	3,844 %	3,361 %	3,627 %	3,274 %
105	2,820 %	1,893 %	3,843 %	3,365 %	3,628 %	3,278 %
106	2,829 %	1,910 %	3,842 %	3,368 %	3,629 %	3,282 %
107	2,837 %	1,927 %	3,842 %	3,372 %	3,630 %	3,287 %
108	2,846 %	1,944 %	3,841 %	3,375 %	3,631 %	3,291 %
109	2,854 %	1,960 %	3,840 %	3,379 %	3,632 %	3,295 %
110	2,862 %	1,976 %	3,839 %	3,382 %	3,633 %	3,299 %
111	2,870 %	1,992 %	3,838 %	3,385 %	3,634 %	3,303 %
112	2,878 %	2,008 %	3,837 %	3,389 %	3,635 %	3,307 %
113	2,886 %	2,023 %	3,837 %	3,392 %	3,636 %	3,311 %
114	2,893 %	2,038 %	3,836 %	3,395 %	3,637 %	3,315 %
115	2,901 %	2,053 %	3,835 %	3,398 %	3,638 %	3,319 %

116	2,908 %	2,067 %	3,834 %	3,401 %	3,639 %	3,323 %
117	2,915 %	2,082 %	3,834 %	3,404 %	3,640 %	3,326 %
118	2,922 %	2,096 %	3,833 %	3,407 %	3,641 %	3,330 %
119	2,929 %	2,109 %	3,832 %	3,410 %	3,642 %	3,333 %
120	2,936 %	2,123 %	3,832 %	3,413 %	3,643 %	3,337 %
121	2,943 %	2,136 %	3,831 %	3,416 %	3,644 %	3,340 %
122	2,949 %	2,149 %	3,830 %	3,418 %	3,645 %	3,344 %
123	2,956 %	2,162 %	3,830 %	3,421 %	3,646 %	3,347 %
124	2,962 %	2,175 %	3,829 %	3,424 %	3,646 %	3,350 %
125	2,968 %	2,188 %	3,828 %	3,426 %	3,647 %	3,353 %
126	2,974 %	2,200 %	3,828 %	3,429 %	3,648 %	3,357 %
127	2,981 %	2,212 %	3,827 %	3,431 %	3,649 %	3,360 %
128	2,987 %	2,224 %	3,827 %	3,434 %	3,650 %	3,363 %
129	2,992 %	2,236 %	3,826 %	3,436 %	3,650 %	3,366 %
130	2,998 %	2,247 %	3,825 %	3,439 %	3,651 %	3,369 %
131	3,004 %	2,259 %	3,825 %	3,441 %	3,652 %	3,372 %
132	3,010 %	2,270 %	3,824 %	3,443 %	3,653 %	3,374 %
133	3,015 %	2,281 %	3,824 %	3,446 %	3,653 %	3,377 %
134	3,021 %	2,292 %	3,823 %	3,448 %	3,654 %	3,380 %
135	3,026 %	2,302 %	3,823 %	3,450 %	3,655 %	3,383 %
136	3,031 %	2,313 %	3,822 %	3,452 %	3,656 %	3,385 %
137	3,036 %	2,323 %	3,821 %	3,455 %	3,656 %	3,388 %
138	3,042 %	2,334 %	3,821 %	3,457 %	3,657 %	3,391 %
139	3,047 %	2,344 %	3,820 %	3,459 %	3,658 %	3,393 %
140	3,052 %	2,354 %	3,820 %	3,461 %	3,658 %	3,396 %
141	3,057 %	2,364 %	3,819 %	3,463 %	3,659 %	3,398 %
142	3,062 %	2,373 %	3,819 %	3,465 %	3,660 %	3,401 %

143	3,066 %	2,383 %	3,818 %	3,467 %	3,660 %	3,403 %
144	3,071 %	2,392 %	3,818 %	3,469 %	3,661 %	3,406 %
145	3,076 %	2,402 %	3,818 %	3,471 %	3,661 %	3,408 %
146	3,080 %	2,411 %	3,817 %	3,473 %	3,662 %	3,410 %
147	3,085 %	2,420 %	3,817 %	3,475 %	3,663 %	3,413 %
148	3,089 %	2,429 %	3,816 %	3,476 %	3,663 %	3,415 %
149	3,094 %	2,438 %	3,816 %	3,478 %	3,664 %	3,417 %
150	3,098 %	2,446 %	3,815 %	3,480 %	3,664 %	3,419 %

Term to maturity (in years)	Swiss franc	Australian dollar	Baht	Canadian dollar	Chilean peso	Colombian peso
1	-0,737 %	0,052 %	0,101 %	0,334 %	0,011 %	1,787 %
2	-0,736 %	0,096 %	0,112 %	0,392 %	-0,050 %	2,643 %
3	-0,724 %	0,138 %	0,211 %	0,454 %	0,007 %	3,237 %
4	-0,693 %	0,202 %	0,345 %	0,525 %	0,250 %	3,683 %
5	-0,642 %	0,280 %	0,482 %	0,586 %	0,576 %	4,124 %
6	-0,577 %	0,368 %	0,610 %	0,640 %	0,923 %	4,612 %
7	-0,513 %	0,466 %	0,727 %	0,695 %	1,277 %	5,164 %
8	-0,461 %	0,571 %	0,834 %	0,756 %	1,634 %	5,766 %
9	-0,425 %	0,671 %	0,930 %	0,809 %	1,969 %	6,385 %
10	-0,408 %	0,758 %	1,017 %	0,849 %	2,261 %	6,990 %
11	-0,407 %	0,828 %	1,096 %	0,872 %	2,501 %	7,466 %
12	-0,417 %	0,884 %	1,166 %	0,884 %	2,700 %	7,817 %
13	-0,430 %	0,927 %	1,226 %	0,891 %	2,866 %	8,070 %
14	-0,443 %	0,960 %	1,282 %	0,895 %	3,006 %	8,248 %
15	-0,452 %	0,986 %	1,339 %	0,899 %	3,127 %	8,366 %
16	-0,458 %	1,006 %	1,400 %	0,905 %	3,231 %	8,437 %
17	-0,459 %	1,022 %	1,463 %	0,912 %	3,321 %	8,471 %

18	- 0,454 %	1,037 %	1,526 %	0,922 %	3,401 %	8,475 %
19	- 0,443 %	1,050 %	1,590 %	0,934 %	3,471 %	8,456 %
20	- 0,427 %	1,062 %	1,653 %	0,949 %	3,534 %	8,418 %
21	- 0,405 %	1,074 %	1,715 %	0,967 %	3,589 %	8,367 %
22	- 0,377 %	1,084 %	1,775 %	0,988 %	3,639 %	8,306 %
23	- 0,343 %	1,091 %	1,833 %	1,011 %	3,684 %	8,237 %
24	- 0,303 %	1,092 %	1,889 %	1,037 %	3,725 %	8,162 %
25	- 0,258 %	1,087 %	1,942 %	1,065 %	3,762 %	8,084 %
26	- 0,207 %	1,077 %	1,994 %	1,096 %	3,796 %	8,003 %
27	- 0,151 %	1,065 %	2,044 %	1,129 %	3,827 %	7,921 %
28	- 0,093 %	1,057 %	2,092 %	1,165 %	3,855 %	7,839 %
29	- 0,033 %	1,055 %	2,138 %	1,203 %	3,881 %	7,758 %
30	0,027 %	1,062 %	2,181 %	1,243 %	3,906 %	7,677 %
31	0,087 %	1,079 %	2,223 %	1,286 %	3,928 %	7,598 %
32	0,147 %	1,105 %	2,264 %	1,330 %	3,948 %	7,521 %
33	0,206 %	1,136 %	2,302 %	1,375 %	3,968 %	7,446 %
34	0,263 %	1,172 %	2,339 %	1,421 %	3,986 %	7,373 %
35	0,320 %	1,211 %	2,374 %	1,467 %	4,002 %	7,303 %
36	0,375 %	1,253 %	2,408 %	1,513 %	4,018 %	7,234 %
37	0,428 %	1,295 %	2,441 %	1,558 %	4,033 %	7,168 %
38	0,480 %	1,339 %	2,472 %	1,602 %	4,047 %	7,105 %
39	0,530 %	1,383 %	2,502 %	1,646 %	4,060 %	7,044 %
40	0,579 %	1,427 %	2,530 %	1,689 %	4,072 %	6,985 %
41	0,625 %	1,470 %	2,558 %	1,730 %	4,083 %	6,928 %
42	0,671 %	1,513 %	2,584 %	1,771 %	4,094 %	6,873 %
43	0,715 %	1,556 %	2,610 %	1,810 %	4,105 %	6,821 %
44	0,757 %	1,597 %	2,634 %	1,849 %	4,114 %	6,770 %

45	0,798 %	1,638 %	2,658 %	1,886 %	4,124 %	6,721 %
46	0,837 %	1,678 %	2,680 %	1,922 %	4,133 %	6,675 %
47	0,875 %	1,717 %	2,702 %	1,957 %	4,141 %	6,629 %
48	0,912 %	1,754 %	2,723 %	1,991 %	4,149 %	6,586 %
49	0,948 %	1,791 %	2,743 %	2,024 %	4,157 %	6,544 %
50	0,982 %	1,827 %	2,762 %	2,056 %	4,164 %	6,504 %
51	1,015 %	1,862 %	2,781 %	2,087 %	4,171 %	6,465 %
52	1,047 %	1,895 %	2,799 %	2,117 %	4,178 %	6,428 %
53	1,078 %	1,928 %	2,816 %	2,146 %	4,184 %	6,392 %
54	1,108 %	1,960 %	2,833 %	2,174 %	4,190 %	6,357 %
55	1,137 %	1,991 %	2,849 %	2,201 %	4,196 %	6,323 %
56	1,165 %	2,021 %	2,865 %	2,228 %	4,202 %	6,291 %
57	1,192 %	2,050 %	2,880 %	2,253 %	4,207 %	6,259 %
58	1,218 %	2,078 %	2,895 %	2,278 %	4,213 %	6,229 %
59	1,244 %	2,105 %	2,909 %	2,302 %	4,218 %	6,200 %
60	1,268 %	2,132 %	2,923 %	2,326 %	4,222 %	6,171 %
61	1,292 %	2,157 %	2,936 %	2,348 %	4,227 %	6,144 %
62	1,315 %	2,182 %	2,949 %	2,370 %	4,232 %	6,117 %
63	1,338 %	2,207 %	2,962 %	2,392 %	4,236 %	6,092 %
64	1,359 %	2,230 %	2,974 %	2,413 %	4,240 %	6,067 %
65	1,380 %	2,253 %	2,986 %	2,433 %	4,244 %	6,042 %
66	1,401 %	2,275 %	2,997 %	2,452 %	4,248 %	6,019 %
67	1,421 %	2,297 %	3,008 %	2,471 %	4,252 %	5,996 %
68	1,440 %	2,318 %	3,019 %	2,490 %	4,256 %	5,974 %
69	1,459 %	2,338 %	3,030 %	2,508 %	4,260 %	5,953 %
70	1,477 %	2,358 %	3,040 %	2,525 %	4,263 %	5,932 %
71	1,495 %	2,378 %	3,050 %	2,542 %	4,267 %	5,911 %

72	1,512 %	2,396 %	3,059 %	2,559 %	4,270 %	5,892 %
73	1,529 %	2,415 %	3,069 %	2,575 %	4,273 %	5,873 %
74	1,545 %	2,433 %	3,078 %	2,591 %	4,276 %	5,854 %
75	1,561 %	2,450 %	3,087 %	2,606 %	4,279 %	5,836 %
76	1,577 %	2,467 %	3,096 %	2,621 %	4,282 %	5,818 %
77	1,592 %	2,483 %	3,104 %	2,635 %	4,285 %	5,801 %
78	1,607 %	2,500 %	3,112 %	2,650 %	4,288 %	5,784 %
79	1,621 %	2,515 %	3,120 %	2,663 %	4,290 %	5,768 %
80	1,635 %	2,531 %	3,128 %	2,677 %	4,293 %	5,752 %
81	1,649 %	2,545 %	3,136 %	2,690 %	4,296 %	5,736 %
82	1,662 %	2,560 %	3,143 %	2,703 %	4,298 %	5,721 %
83	1,675 %	2,574 %	3,151 %	2,715 %	4,301 %	5,706 %
84	1,688 %	2,588 %	3,158 %	2,728 %	4,303 %	5,692 %
85	1,700 %	2,602 %	3,165 %	2,739 %	4,305 %	5,678 %
86	1,712 %	2,615 %	3,171 %	2,751 %	4,308 %	5,664 %
87	1,724 %	2,628 %	3,178 %	2,763 %	4,310 %	5,651 %
88	1,736 %	2,641 %	3,184 %	2,774 %	4,312 %	5,637 %
89	1,747 %	2,653 %	3,191 %	2,785 %	4,314 %	5,625 %
90	1,758 %	2,665 %	3,197 %	2,795 %	4,316 %	5,612 %
91	1,769 %	2,677 %	3,203 %	2,806 %	4,318 %	5,600 %
92	1,780 %	2,689 %	3,209 %	2,816 %	4,320 %	5,588 %
93	1,790 %	2,700 %	3,215 %	2,826 %	4,322 %	5,576 %
94	1,800 %	2,711 %	3,220 %	2,836 %	4,324 %	5,565 %
95	1,810 %	2,722 %	3,226 %	2,845 %	4,326 %	5,553 %
96	1,820 %	2,733 %	3,231 %	2,855 %	4,328 %	5,542 %
97	1,829 %	2,743 %	3,237 %	2,864 %	4,330 %	5,531 %
98	1,839 %	2,753 %	3,242 %	2,873 %	4,331 %	5,521 %

99	1,848 %	2,763 %	3,247 %	2,882 %	4,333 %	5,510 %
100	1,857 %	2,773 %	3,252 %	2,890 %	4,335 %	5,500 %
101	1,866 %	2,783 %	3,257 %	2,899 %	4,336 %	5,490 %
102	1,874 %	2,792 %	3,262 %	2,907 %	4,338 %	5,481 %
103	1,883 %	2,801 %	3,267 %	2,915 %	4,340 %	5,471 %
104	1,891 %	2,810 %	3,271 %	2,923 %	4,341 %	5,462 %
105	1,899 %	2,819 %	3,276 %	2,931 %	4,343 %	5,452 %
106	1,907 %	2,828 %	3,280 %	2,939 %	4,344 %	5,443 %
107	1,915 %	2,837 %	3,285 %	2,946 %	4,346 %	5,435 %
108	1,923 %	2,845 %	3,289 %	2,954 %	4,347 %	5,426 %
109	1,930 %	2,853 %	3,293 %	2,961 %	4,348 %	5,417 %
110	1,938 %	2,861 %	3,297 %	2,968 %	4,350 %	5,409 %
111	1,945 %	2,869 %	3,301 %	2,975 %	4,351 %	5,401 %
112	1,952 %	2,877 %	3,305 %	2,982 %	4,352 %	5,393 %
113	1,959 %	2,885 %	3,309 %	2,989 %	4,354 %	5,385 %
114	1,966 %	2,893 %	3,313 %	2,995 %	4,355 %	5,377 %
115	1,973 %	2,900 %	3,317 %	3,002 %	4,356 %	5,369 %
116	1,980 %	2,907 %	3,321 %	3,008 %	4,358 %	5,362 %
117	1,986 %	2,914 %	3,324 %	3,015 %	4,359 %	5,354 %
118	1,993 %	2,921 %	3,328 %	3,021 %	4,360 %	5,347 %
119	1,999 %	2,928 %	3,331 %	3,027 %	4,361 %	5,340 %
120	2,005 %	2,935 %	3,335 %	3,033 %	4,362 %	5,333 %
121	2,011 %	2,942 %	3,338 %	3,039 %	4,363 %	5,326 %
122	2,017 %	2,949 %	3,342 %	3,045 %	4,365 %	5,319 %
123	2,023 %	2,955 %	3,345 %	3,051 %	4,366 %	5,313 %
124	2,029 %	2,961 %	3,348 %	3,056 %	4,367 %	5,306 %
125	2,035 %	2,968 %	3,351 %	3,062 %	4,368 %	5,300 %

126	2,041 %	2,974 %	3,355 %	3,067 %	4,369 %	5,293 %
127	2,046 %	2,980 %	3,358 %	3,072 %	4,370 %	5,287 %
128	2,052 %	2,986 %	3,361 %	3,078 %	4,371 %	5,281 %
129	2,057 %	2,992 %	3,364 %	3,083 %	4,372 %	5,275 %
130	2,062 %	2,998 %	3,367 %	3,088 %	4,373 %	5,269 %
131	2,067 %	3,003 %	3,370 %	3,093 %	4,374 %	5,263 %
132	2,073 %	3,009 %	3,373 %	3,098 %	4,375 %	5,257 %
133	2,078 %	3,015 %	3,375 %	3,103 %	4,376 %	5,251 %
134	2,083 %	3,020 %	3,378 %	3,108 %	4,377 %	5,246 %
135	2,088 %	3,025 %	3,381 %	3,112 %	4,378 %	5,240 %
136	2,093 %	3,031 %	3,384 %	3,117 %	4,378 %	5,235 %
137	2,097 %	3,036 %	3,386 %	3,122 %	4,379 %	5,229 %
138	2,102 %	3,041 %	3,389 %	3,126 %	4,380 %	5,224 %
139	2,107 %	3,046 %	3,392 %	3,131 %	4,381 %	5,219 %
140	2,111 %	3,051 %	3,394 %	3,135 %	4,382 %	5,214 %
141	2,116 %	3,056 %	3,397 %	3,140 %	4,383 %	5,208 %
142	2,120 %	3,061 %	3,399 %	3,144 %	4,384 %	5,203 %
143	2,125 %	3,066 %	3,402 %	3,148 %	4,384 %	5,199 %
144	2,129 %	3,071 %	3,404 %	3,152 %	4,385 %	5,194 %
145	2,133 %	3,075 %	3,406 %	3,156 %	4,386 %	5,189 %
146	2,137 %	3,080 %	3,409 %	3,160 %	4,387 %	5,184 %
147	2,142 %	3,084 %	3,411 %	3,164 %	4,388 %	5,179 %
148	2,146 %	3,089 %	3,413 %	3,168 %	4,388 %	5,175 %
149	2,150 %	3,093 %	3,416 %	3,172 %	4,389 %	5,170 %
150	2,154 %	3,098 %	3,418 %	3,176 %	4,390 %	5,166 %

Term to maturity (in years)	Hong Kong dollar	Indian rupee	Mexican peso	New Taiwan dollar	New Zealand dollar	Rand
1	0,411 %	3,377 %	4,173 %	0,040 %	0,035 %	3,280 %
2	0,370 %	3,878 %	4,126 %	0,067 %	- 0,002 %	3,447 %
3	0,370 %	4,354 %	4,235 %	0,093 %	0,018 %	3,821 %
4	0,396 %	4,769 %	4,423 %	0,118 %	0,068 %	4,383 %
5	0,441 %	5,132 %	4,598 %	0,142 %	0,135 %	4,983 %
6	0,501 %	5,425 %	4,833 %	0,166 %	0,213 %	5,553 %
7	0,561 %	5,656 %	5,075 %	0,190 %	0,297 %	6,078 %
8	0,614 %	5,841 %	5,279 %	0,213 %	0,378 %	6,552 %
9	0,657 %	5,979 %	5,455 %	0,236 %	0,455 %	6,977 %
10	0,687 %	6,090 %	5,617 %	0,258 %	0,527 %	7,349 %
11	0,705 %	6,170 %	5,771 %	0,307 %	0,583 %	7,670 %
12	0,721 %	6,227 %	5,917 %	0,379 %	0,626 %	7,943 %
13	0,741 %	6,267 %	6,052 %	0,465 %	0,664 %	8,171 %
14	0,771 %	6,292 %	6,175 %	0,557 %	0,699 %	8,354 %
15	0,812 %	6,308 %	6,285 %	0,653 %	0,735 %	8,491 %
16	0,866 %	6,316 %	6,381 %	0,749 %	0,773 %	8,584 %
17	0,928 %	6,318 %	6,464 %	0,845 %	0,814 %	8,640 %
18	0,996 %	6,316 %	6,531 %	0,938 %	0,859 %	8,667 %
19	1,067 %	6,310 %	6,583 %	1,029 %	0,908 %	8,670 %
20	1,139 %	6,301 %	6,619 %	1,117 %	0,963 %	8,655 %
21	1,211 %	6,291 %	6,638 %	1,201 %	1,022 %	8,627 %
22	1,282 %	6,279 %	6,644 %	1,282 %	1,085 %	8,587 %
23	1,352 %	6,265 %	6,639 %	1,360 %	1,150 %	8,539 %
24	1,420 %	6,251 %	6,626 %	1,434 %	1,215 %	8,486 %
25	1,486 %	6,237 %	6,606 %	1,504 %	1,280 %	8,428 %
26	1,550 %	6,222 %	6,582 %	1,572 %	1,345 %	8,367 %

27	1,612 %	6,207 %	6,553 %	1,636 %	1,408 %	8,304 %
28	1,671 %	6,192 %	6,522 %	1,698 %	1,469 %	8,241 %
29	1,729 %	6,178 %	6,490 %	1,757 %	1,529 %	8,177 %
30	1,783 %	6,163 %	6,455 %	1,813 %	1,587 %	8,114 %
31	1,836 %	6,148 %	6,420 %	1,866 %	1,643 %	8,051 %
32	1,886 %	6,134 %	6,385 %	1,917 %	1,697 %	7,990 %
33	1,935 %	6,120 %	6,350 %	1,965 %	1,749 %	7,930 %
34	1,981 %	6,107 %	6,315 %	2,012 %	1,800 %	7,871 %
35	2,026 %	6,093 %	6,281 %	2,056 %	1,848 %	7,814 %
36	2,068 %	6,080 %	6,247 %	2,099 %	1,894 %	7,759 %
37	2,109 %	6,068 %	6,214 %	2,139 %	1,939 %	7,706 %
38	2,148 %	6,056 %	6,181 %	2,178 %	1,982 %	7,654 %
39	2,186 %	6,044 %	6,150 %	2,215 %	2,023 %	7,604 %
40	2,222 %	6,032 %	6,119 %	2,251 %	2,062 %	7,556 %
41	2,257 %	6,021 %	6,090 %	2,285 %	2,101 %	7,510 %
42	2,290 %	6,010 %	6,061 %	2,318 %	2,137 %	7,465 %
43	2,322 %	6,000 %	6,033 %	2,349 %	2,172 %	7,422 %
44	2,352 %	5,990 %	6,006 %	2,380 %	2,206 %	7,380 %
45	2,382 %	5,980 %	5,980 %	2,409 %	2,238 %	7,340 %
46	2,410 %	5,971 %	5,955 %	2,437 %	2,270 %	7,302 %
47	2,437 %	5,962 %	5,931 %	2,463 %	2,300 %	7,265 %
48	2,464 %	5,953 %	5,907 %	2,489 %	2,329 %	7,229 %
49	2,489 %	5,944 %	5,885 %	2,514 %	2,357 %	7,195 %
50	2,513 %	5,936 %	5,863 %	2,538 %	2,384 %	7,162 %
51	2,537 %	5,928 %	5,842 %	2,561 %	2,410 %	7,130 %
52	2,560 %	5,920 %	5,821 %	2,583 %	2,435 %	7,099 %
53	2,581 %	5,913 %	5,801 %	2,605 %	2,459 %	7,069 %

54	2,603 %	5,905 %	5,782 %	2,625 %	2,482 %	7,040 %
55	2,623 %	5,898 %	5,764 %	2,645 %	2,505 %	7,012 %
56	2,643 %	5,891 %	5,746 %	2,665 %	2,527 %	6,985 %
57	2,662 %	5,885 %	5,729 %	2,683 %	2,548 %	6,960 %
58	2,680 %	5,878 %	5,712 %	2,701 %	2,568 %	6,934 %
59	2,698 %	5,872 %	5,696 %	2,719 %	2,588 %	6,910 %
60	2,715 %	5,866 %	5,680 %	2,736 %	2,607 %	6,887 %
61	2,732 %	5,860 %	5,665 %	2,752 %	2,625 %	6,864 %
62	2,748 %	5,855 %	5,650 %	2,768 %	2,643 %	6,842 %
63	2,764 %	5,849 %	5,636 %	2,783 %	2,661 %	6,821 %
64	2,779 %	5,844 %	5,622 %	2,798 %	2,677 %	6,800 %
65	2,794 %	5,839 %	5,609 %	2,813 %	2,694 %	6,780 %
66	2,808 %	5,834 %	5,596 %	2,827 %	2,710 %	6,761 %
67	2,822 %	5,829 %	5,583 %	2,841 %	2,725 %	6,742 %
68	2,836 %	5,824 %	5,571 %	2,854 %	2,740 %	6,723 %
69	2,849 %	5,819 %	5,559 %	2,867 %	2,754 %	6,706 %
70	2,862 %	5,815 %	5,548 %	2,879 %	2,769 %	6,688 %
71	2,874 %	5,810 %	5,536 %	2,891 %	2,782 %	6,672 %
72	2,886 %	5,806 %	5,525 %	2,903 %	2,796 %	6,655 %
73	2,898 %	5,802 %	5,515 %	2,915 %	2,809 %	6,639 %
74	2,909 %	5,798 %	5,505 %	2,926 %	2,821 %	6,624 %
75	2,920 %	5,794 %	5,494 %	2,937 %	2,834 %	6,609 %
76	2,931 %	5,790 %	5,485 %	2,947 %	2,845 %	6,594 %
77	2,942 %	5,786 %	5,475 %	2,958 %	2,857 %	6,580 %
78	2,952 %	5,783 %	5,466 %	2,968 %	2,869 %	6,566 %
79	2,962 %	5,779 %	5,457 %	2,978 %	2,880 %	6,552 %
80	2,972 %	5,776 %	5,448 %	2,987 %	2,890 %	6,539 %

81	2,982 %	5,772 %	5,439 %	2,997 %	2,901 %	6,526 %
82	2,991 %	5,769 %	5,431 %	3,006 %	2,911 %	6,514 %
83	3,000 %	5,766 %	5,423 %	3,015 %	2,921 %	6,502 %
84	3,009 %	5,763 %	5,414 %	3,024 %	2,931 %	6,490 %
85	3,018 %	5,759 %	5,407 %	3,032 %	2,941 %	6,478 %
86	3,026 %	5,756 %	5,399 %	3,040 %	2,950 %	6,466 %
87	3,034 %	5,754 %	5,392 %	3,048 %	2,959 %	6,455 %
88	3,042 %	5,751 %	5,384 %	3,056 %	2,968 %	6,444 %
89	3,050 %	5,748 %	5,377 %	3,064 %	2,977 %	6,434 %
90	3,058 %	5,745 %	5,370 %	3,072 %	2,986 %	6,423 %
91	3,066 %	5,742 %	5,363 %	3,079 %	2,994 %	6,413 %
92	3,073 %	5,740 %	5,357 %	3,086 %	3,002 %	6,403 %
93	3,080 %	5,737 %	5,350 %	3,094 %	3,010 %	6,393 %
94	3,087 %	5,735 %	5,344 %	3,101 %	3,018 %	6,384 %
95	3,094 %	5,732 %	5,337 %	3,107 %	3,026 %	6,375 %
96	3,101 %	5,730 %	5,331 %	3,114 %	3,033 %	6,365 %
97	3,108 %	5,727 %	5,325 %	3,121 %	3,041 %	6,356 %
98	3,114 %	5,725 %	5,319 %	3,127 %	3,048 %	6,348 %
99	3,121 %	5,723 %	5,314 %	3,133 %	3,055 %	6,339 %
100	3,127 %	5,721 %	5,308 %	3,139 %	3,062 %	6,331 %
101	3,133 %	5,718 %	5,302 %	3,145 %	3,069 %	6,322 %
102	3,139 %	5,716 %	5,297 %	3,151 %	3,075 %	6,314 %
103	3,145 %	5,714 %	5,292 %	3,157 %	3,082 %	6,306 %
104	3,151 %	5,712 %	5,286 %	3,163 %	3,088 %	6,299 %
105	3,157 %	5,710 %	5,281 %	3,168 %	3,094 %	6,291 %
106	3,162 %	5,708 %	5,276 %	3,174 %	3,101 %	6,283 %
107	3,168 %	5,706 %	5,271 %	3,179 %	3,107 %	6,276 %

108	3,173 %	5,704 %	5,266 %	3,184 %	3,113 %	6,269 %
109	3,178 %	5,702 %	5,262 %	3,190 %	3,118 %	6,262 %
110	3,183 %	5,701 %	5,257 %	3,195 %	3,124 %	6,255 %
111	3,189 %	5,699 %	5,252 %	3,200 %	3,130 %	6,248 %
112	3,194 %	5,697 %	5,248 %	3,205 %	3,135 %	6,241 %
113	3,198 %	5,695 %	5,244 %	3,209 %	3,141 %	6,235 %
114	3,203 %	5,693 %	5,239 %	3,214 %	3,146 %	6,228 %
115	3,208 %	5,692 %	5,235 %	3,219 %	3,151 %	6,222 %
116	3,213 %	5,690 %	5,231 %	3,223 %	3,156 %	6,216 %
117	3,217 %	5,689 %	5,227 %	3,228 %	3,161 %	6,210 %
118	3,222 %	5,687 %	5,223 %	3,232 %	3,166 %	6,203 %
119	3,226 %	5,685 %	5,219 %	3,237 %	3,171 %	6,198 %
120	3,231 %	5,684 %	5,215 %	3,241 %	3,176 %	6,192 %
121	3,235 %	5,682 %	5,211 %	3,245 %	3,181 %	6,186 %
122	3,239 %	5,681 %	5,207 %	3,249 %	3,186 %	6,180 %
123	3,243 %	5,679 %	5,203 %	3,253 %	3,190 %	6,175 %
124	3,247 %	5,678 %	5,200 %	3,257 %	3,195 %	6,169 %
125	3,251 %	5,676 %	5,196 %	3,261 %	3,199 %	6,164 %
126	3,255 %	5,675 %	5,193 %	3,265 %	3,203 %	6,159 %
127	3,259 %	5,674 %	5,189 %	3,269 %	3,208 %	6,153 %
128	3,263 %	5,672 %	5,186 %	3,273 %	3,212 %	6,148 %
129	3,267 %	5,671 %	5,182 %	3,276 %	3,216 %	6,143 %
130	3,270 %	5,670 %	5,179 %	3,280 %	3,220 %	6,138 %
131	3,274 %	5,668 %	5,176 %	3,284 %	3,224 %	6,133 %
132	3,278 %	5,667 %	5,172 %	3,287 %	3,228 %	6,129 %
133	3,281 %	5,666 %	5,169 %	3,291 %	3,232 %	6,124 %
134	3,285 %	5,665 %	5,166 %	3,294 %	3,236 %	6,119 %

135	3,288 %	5,663 %	5,163 %	3,297 %	3,240 %	6,115 %
136	3,292 %	5,662 %	5,160 %	3,301 %	3,243 %	6,110 %
137	3,295 %	5,661 %	5,157 %	3,304 %	3,247 %	6,106 %
138	3,298 %	5,660 %	5,154 %	3,307 %	3,251 %	6,101 %
139	3,301 %	5,659 %	5,151 %	3,310 %	3,254 %	6,097 %
140	3,305 %	5,658 %	5,148 %	3,313 %	3,258 %	6,093 %
141	3,308 %	5,656 %	5,145 %	3,317 %	3,261 %	6,088 %
142	3,311 %	5,655 %	5,143 %	3,320 %	3,265 %	6,084 %
143	3,314 %	5,654 %	5,140 %	3,323 %	3,268 %	6,080 %
144	3,317 %	5,653 %	5,137 %	3,326 %	3,272 %	6,076 %
145	3,320 %	5,652 %	5,134 %	3,328 %	3,275 %	6,072 %
146	3,323 %	5,651 %	5,132 %	3,331 %	3,278 %	6,068 %
147	3,326 %	5,650 %	5,129 %	3,334 %	3,281 %	6,064 %
148	3,329 %	5,649 %	5,127 %	3,337 %	3,284 %	6,061 %
149	3,331 %	5,648 %	5,124 %	3,340 %	3,288 %	6,057 %
150	3,334 %	5,647 %	5,122 %	3,343 %	3,291 %	6,053 %

Term to maturity (in years)	Real	Renminbi-yuan	Ringgit	Russian rouble	Singapore dollar	South Korean won
1	2,140 %	1,792 %	1,645 %	3,942 %	- 0,025 %	0,421 %
2	3,251 %	1,843 %	1,832 %	4,203 %	0,025 %	0,451 %
3	4,244 %	1,914 %	1,966 %	4,464 %	0,088 %	0,481 %
4	5,006 %	1,996 %	2,103 %	4,701 %	0,163 %	0,504 %
5	5,606 %	2,083 %	2,255 %	4,934 %	0,248 %	0,516 %
6	6,062 %	2,174 %	2,403 %	5,138 %	0,339 %	0,525 %
7	6,421 %	2,264 %	2,534 %	5,318 %	0,422 %	0,544 %
8	6,710 %	2,352 %	2,650 %	5,477 %	0,489 %	0,576 %
9	6,947 %	2,437 %	2,750 %	5,616 %	0,537 %	0,598 %

10	7,152 %	2,518 %	2,845 %	5,737 %	0,564 %	0,595 %
11	7,302 %	2,595 %	2,939 %	5,844 %	0,571 %	0,563 %
12	7,403 %	2,669 %	3,032 %	5,939 %	0,569 %	0,516 %
13	7,467 %	2,739 %	3,122 %	6,019 %	0,566 %	0,466 %
14	7,504 %	2,805 %	3,211 %	6,083 %	0,564 %	0,423 %
15	7,520 %	2,868 %	3,301 %	6,129 %	0,568 %	0,389 %
16	7,521 %	2,927 %	3,393 %	6,158 %	0,580 %	0,368 %
17	7,509 %	2,983 %	3,484 %	6,173 %	0,599 %	0,361 %
18	7,489 %	3,036 %	3,569 %	6,176 %	0,627 %	0,368 %
19	7,462 %	3,086 %	3,647 %	6,170 %	0,664 %	0,389 %
20	7,430 %	3,133 %	3,715 %	6,157 %	0,710 %	0,424 %
21	7,394 %	3,178 %	3,770 %	6,139 %	0,766 %	0,474 %
22	7,356 %	3,221 %	3,816 %	6,118 %	0,827 %	0,533 %
23	7,316 %	3,261 %	3,852 %	6,094 %	0,893 %	0,599 %
24	7,275 %	3,299 %	3,882 %	6,067 %	0,960 %	0,669 %
25	7,234 %	3,336 %	3,905 %	6,039 %	1,029 %	0,742 %
26	7,193 %	3,371 %	3,924 %	6,011 %	1,097 %	0,815 %
27	7,152 %	3,403 %	3,939 %	5,981 %	1,165 %	0,888 %
28	7,112 %	3,435 %	3,951 %	5,952 %	1,231 %	0,960 %
29	7,073 %	3,465 %	3,959 %	5,923 %	1,296 %	1,030 %
30	7,034 %	3,493 %	3,966 %	5,894 %	1,359 %	1,100 %
31	6,996 %	3,520 %	3,971 %	5,865 %	1,420 %	1,167 %
32	6,960 %	3,546 %	3,974 %	5,837 %	1,480 %	1,232 %
33	6,924 %	3,571 %	3,976 %	5,810 %	1,537 %	1,295 %
34	6,890 %	3,595 %	3,976 %	5,783 %	1,592 %	1,356 %
35	6,856 %	3,617 %	3,976 %	5,757 %	1,645 %	1,415 %
36	6,824 %	3,639 %	3,976 %	5,732 %	1,697 %	1,472 %

37	6,793 %	3,659 %	3,974 %	5,707 %	1,746 %	1,527 %
38	6,763 %	3,679 %	3,973 %	5,683 %	1,793 %	1,579 %
39	6,734 %	3,698 %	3,970 %	5,660 %	1,839 %	1,630 %
40	6,707 %	3,717 %	3,968 %	5,638 %	1,882 %	1,678 %
41	6,680 %	3,734 %	3,965 %	5,616 %	1,925 %	1,725 %
42	6,654 %	3,751 %	3,962 %	5,596 %	1,965 %	1,770 %
43	6,629 %	3,767 %	3,960 %	5,576 %	2,004 %	1,813 %
44	6,605 %	3,782 %	3,957 %	5,556 %	2,041 %	1,854 %
45	6,582 %	3,797 %	3,953 %	5,538 %	2,077 %	1,894 %
46	6,560 %	3,812 %	3,950 %	5,519 %	2,112 %	1,933 %
47	6,538 %	3,826 %	3,947 %	5,502 %	2,145 %	1,970 %
48	6,517 %	3,839 %	3,944 %	5,485 %	2,177 %	2,005 %
49	6,497 %	3,852 %	3,941 %	5,469 %	2,208 %	2,040 %
50	6,478 %	3,864 %	3,938 %	5,453 %	2,238 %	2,073 %
51	6,460 %	3,876 %	3,935 %	5,438 %	2,267 %	2,105 %
52	6,442 %	3,888 %	3,932 %	5,423 %	2,295 %	2,136 %
53	6,424 %	3,899 %	3,929 %	5,409 %	2,321 %	2,165 %
54	6,408 %	3,909 %	3,926 %	5,396 %	2,347 %	2,194 %
55	6,391 %	3,920 %	3,923 %	5,382 %	2,372 %	2,222 %
56	6,376 %	3,930 %	3,920 %	5,370 %	2,396 %	2,248 %
57	6,361 %	3,940 %	3,918 %	5,357 %	2,420 %	2,274 %
58	6,346 %	3,949 %	3,915 %	5,345 %	2,442 %	2,299 %
59	6,332 %	3,958 %	3,912 %	5,334 %	2,464 %	2,324 %
60	6,318 %	3,967 %	3,910 %	5,322 %	2,485 %	2,347 %
61	6,305 %	3,976 %	3,907 %	5,311 %	2,506 %	2,370 %
62	6,292 %	3,984 %	3,905 %	5,301 %	2,525 %	2,392 %
63	6,279 %	3,992 %	3,903 %	5,291 %	2,545 %	2,413 %

64	6,267 %	4,000 %	3,900 %	5,281 %	2,563 %	2,434 %
65	6,255 %	4,007 %	3,898 %	5,271 %	2,581 %	2,454 %
66	6,244 %	4,015 %	3,896 %	5,262 %	2,599 %	2,473 %
67	6,233 %	4,022 %	3,894 %	5,253 %	2,616 %	2,492 %
68	6,222 %	4,029 %	3,892 %	5,244 %	2,632 %	2,510 %
69	6,212 %	4,035 %	3,890 %	5,235 %	2,648 %	2,528 %
70	6,202 %	4,042 %	3,888 %	5,227 %	2,664 %	2,545 %
71	6,192 %	4,048 %	3,886 %	5,219 %	2,679 %	2,562 %
72	6,182 %	4,055 %	3,884 %	5,211 %	2,694 %	2,579 %
73	6,173 %	4,061 %	3,882 %	5,203 %	2,708 %	2,595 %
74	6,164 %	4,066 %	3,881 %	5,196 %	2,722 %	2,610 %
75	6,155 %	4,072 %	3,879 %	5,189 %	2,736 %	2,625 %
76	6,146 %	4,078 %	3,877 %	5,181 %	2,749 %	2,640 %
77	6,138 %	4,083 %	3,876 %	5,175 %	2,762 %	2,654 %
78	6,130 %	4,089 %	3,874 %	5,168 %	2,775 %	2,668 %
79	6,122 %	4,094 %	3,872 %	5,161 %	2,787 %	2,682 %
80	6,114 %	4,099 %	3,871 %	5,155 %	2,799 %	2,695 %
81	6,106 %	4,104 %	3,869 %	5,149 %	2,811 %	2,708 %
82	6,099 %	4,109 %	3,868 %	5,143 %	2,822 %	2,721 %
83	6,092 %	4,113 %	3,867 %	5,137 %	2,833 %	2,733 %
84	6,085 %	4,118 %	3,865 %	5,131 %	2,844 %	2,745 %
85	6,078 %	4,122 %	3,864 %	5,125 %	2,855 %	2,757 %
86	6,071 %	4,127 %	3,862 %	5,120 %	2,865 %	2,768 %
87	6,064 %	4,131 %	3,861 %	5,114 %	2,875 %	2,779 %
88	6,058 %	4,135 %	3,860 %	5,109 %	2,885 %	2,790 %
89	6,052 %	4,139 %	3,859 %	5,104 %	2,895 %	2,801 %
90	6,046 %	4,143 %	3,857 %	5,099 %	2,904 %	2,812 %

91	6,040 %	4,147 %	3,856 %	5,094 %	2,913 %	2,822 %
92	6,034 %	4,151 %	3,855 %	5,089 %	2,922 %	2,832 %
93	6,028 %	4,155 %	3,854 %	5,084 %	2,931 %	2,842 %
94	6,022 %	4,158 %	3,853 %	5,080 %	2,940 %	2,851 %
95	6,017 %	4,162 %	3,852 %	5,075 %	2,948 %	2,861 %
96	6,011 %	4,165 %	3,851 %	5,071 %	2,957 %	2,870 %
97	6,006 %	4,169 %	3,850 %	5,066 %	2,965 %	2,879 %
98	6,001 %	4,172 %	3,849 %	5,062 %	2,973 %	2,888 %
99	5,996 %	4,176 %	3,848 %	5,058 %	2,981 %	2,897 %
100	5,991 %	4,179 %	3,847 %	5,054 %	2,988 %	2,905 %
101	5,986 %	4,182 %	3,846 %	5,050 %	2,996 %	2,913 %
102	5,981 %	4,185 %	3,845 %	5,046 %	3,003 %	2,922 %
103	5,977 %	4,188 %	3,844 %	5,042 %	3,011 %	2,930 %
104	5,972 %	4,191 %	3,843 %	5,038 %	3,018 %	2,937 %
105	5,967 %	4,194 %	3,842 %	5,035 %	3,025 %	2,945 %
106	5,963 %	4,197 %	3,841 %	5,031 %	3,031 %	2,953 %
107	5,959 %	4,200 %	3,840 %	5,027 %	3,038 %	2,960 %
108	5,954 %	4,203 %	3,840 %	5,024 %	3,045 %	2,967 %
109	5,950 %	4,205 %	3,839 %	5,020 %	3,051 %	2,975 %
110	5,946 %	4,208 %	3,838 %	5,017 %	3,057 %	2,982 %
111	5,942 %	4,211 %	3,837 %	5,014 %	3,064 %	2,989 %
112	5,938 %	4,213 %	3,836 %	5,010 %	3,070 %	2,995 %
113	5,934 %	4,216 %	3,836 %	5,007 %	3,076 %	3,002 %
114	5,931 %	4,218 %	3,835 %	5,004 %	3,082 %	3,009 %
115	5,927 %	4,221 %	3,834 %	5,001 %	3,087 %	3,015 %
116	5,923 %	4,223 %	3,833 %	4,998 %	3,093 %	3,021 %
117	5,919 %	4,225 %	3,833 %	4,995 %	3,099 %	3,027 %

118	5,916 %	4,228 %	3,832 %	4,992 %	3,104 %	3,034 %
119	5,912 %	4,230 %	3,831 %	4,989 %	3,110 %	3,040 %
120	5,909 %	4,232 %	3,831 %	4,986 %	3,115 %	3,045 %
121	5,906 %	4,234 %	3,830 %	4,984 %	3,120 %	3,051 %
122	5,902 %	4,237 %	3,829 %	4,981 %	3,125 %	3,057 %
123	5,899 %	4,239 %	3,829 %	4,978 %	3,130 %	3,063 %
124	5,896 %	4,241 %	3,828 %	4,975 %	3,135 %	3,068 %
125	5,893 %	4,243 %	3,827 %	4,973 %	3,140 %	3,074 %
126	5,889 %	4,245 %	3,827 %	4,970 %	3,145 %	3,079 %
127	5,886 %	4,247 %	3,826 %	4,968 %	3,150 %	3,084 %
128	5,883 %	4,249 %	3,826 %	4,965 %	3,155 %	3,089 %
129	5,880 %	4,251 %	3,825 %	4,963 %	3,159 %	3,094 %
130	5,877 %	4,253 %	3,824 %	4,960 %	3,164 %	3,099 %
131	5,875 %	4,255 %	3,824 %	4,958 %	3,168 %	3,104 %
132	5,872 %	4,257 %	3,823 %	4,956 %	3,173 %	3,109 %
133	5,869 %	4,258 %	3,823 %	4,953 %	3,177 %	3,114 %
134	5,866 %	4,260 %	3,822 %	4,951 %	3,181 %	3,119 %
135	5,863 %	4,262 %	3,822 %	4,949 %	3,185 %	3,124 %
136	5,861 %	4,264 %	3,821 %	4,947 %	3,189 %	3,128 %
137	5,858 %	4,265 %	3,821 %	4,945 %	3,194 %	3,133 %
138	5,856 %	4,267 %	3,820 %	4,942 %	3,198 %	3,137 %
139	5,853 %	4,269 %	3,820 %	4,940 %	3,202 %	3,141 %
140	5,850 %	4,270 %	3,819 %	4,938 %	3,205 %	3,146 %
141	5,848 %	4,272 %	3,819 %	4,936 %	3,209 %	3,150 %
142	5,845 %	4,274 %	3,818 %	4,934 %	3,213 %	3,154 %
143	5,843 %	4,275 %	3,818 %	4,932 %	3,217 %	3,158 %
144	5,841 %	4,277 %	3,817 %	4,930 %	3,221 %	3,163 %

145	5,838 %	4,278 %	3,817 %	4,928 %	3,224 %	3,167 %
146	5,836 %	4,280 %	3,816 %	4,926 %	3,228 %	3,171 %
147	5,834 %	4,281 %	3,816 %	4,925 %	3,231 %	3,175 %
148	5,831 %	4,283 %	3,815 %	4,923 %	3,235 %	3,178 %
149	5,829 %	4,284 %	3,815 %	4,921 %	3,238 %	3,182 %
150	5,827 %	4,286 %	3,814 %	4,919 %	3,242 %	3,186 %

Term to maturity (in years)	Turkish lira	US dollar	Yen
1	8,466 %	0,062 %	- 0,116 %
2	9,188 %	0,024 %	- 0,122 %
3	9,694 %	0,032 %	- 0,127 %
4	10,213 %	0,067 %	- 0,125 %
5	10,732 %	0,126 %	- 0,119 %
6	11,234 %	0,196 %	- 0,108 %
7	11,754 %	0,262 %	- 0,093 %
8	12,303 %	0,332 %	- 0,074 %
9	12,798 %	0,391 %	- 0,053 %
10	13,156 %	0,443 %	- 0,030 %
11	13,389 %	0,489 %	- 0,007 %
12	13,528 %	0,528 %	0,015 %
13	13,592 %	0,560 %	0,037 %
14	13,598 %	0,588 %	0,059 %
15	13,557 %	0,612 %	0,083 %
16	13,479 %	0,635 %	0,108 %
17	13,372 %	0,656 %	0,131 %
18	13,243 %	0,674 %	0,150 %
19	13,095 %	0,688 %	0,163 %

20	12,935 %	0,697 %	0,168 %
21	12,766 %	0,703 %	0,167 %
22	12,591 %	0,707 %	0,162 %
23	12,413 %	0,710 %	0,157 %
24	12,234 %	0,715 %	0,155 %
25	12,055 %	0,723 %	0,156 %
26	11,878 %	0,732 %	0,163 %
27	11,705 %	0,740 %	0,176 %
28	11,535 %	0,745 %	0,195 %
29	11,370 %	0,743 %	0,221 %
30	11,209 %	0,732 %	0,255 %
31	11,054 %	0,713 %	0,296 %
32	10,904 %	0,689 %	0,343 %
33	10,760 %	0,661 %	0,394 %
34	10,622 %	0,633 %	0,447 %
35	10,488 %	0,607 %	0,503 %
36	10,360 %	0,582 %	0,558 %
37	10,237 %	0,561 %	0,615 %
38	10,120 %	0,543 %	0,671 %
39	10,007 %	0,528 %	0,726 %
40	9,898 %	0,517 %	0,781 %
41	9,794 %	0,511 %	0,835 %
42	9,695 %	0,508 %	0,888 %
43	9,599 %	0,509 %	0,939 %
44	9,508 %	0,513 %	0,989 %
45	9,420 %	0,522 %	1,038 %
46	9,335 %	0,534 %	1,086 %

47	9,254 %	0,549 %	1,132 %
48	9,176 %	0,568 %	1,177 %
49	9,101 %	0,590 %	1,220 %
50	9,029 %	0,616 %	1,263 %
51	8,960 %	0,646 %	1,303 %
52	8,893 %	0,679 %	1,343 %
53	8,829 %	0,713 %	1,382 %
54	8,767 %	0,749 %	1,419 %
55	8,707 %	0,786 %	1,455 %
56	8,649 %	0,824 %	1,490 %
57	8,593 %	0,863 %	1,524 %
58	8,539 %	0,901 %	1,557 %
59	8,487 %	0,940 %	1,588 %
60	8,437 %	0,978 %	1,619 %
61	8,389 %	1,016 %	1,649 %
62	8,341 %	1,053 %	1,678 %
63	8,296 %	1,091 %	1,707 %
64	8,252 %	1,127 %	1,734 %
65	8,209 %	1,163 %	1,761 %
66	8,167 %	1,199 %	1,787 %
67	8,127 %	1,233 %	1,812 %
68	8,088 %	1,267 %	1,836 %
69	8,050 %	1,301 %	1,860 %
70	8,013 %	1,333 %	1,883 %
71	7,978 %	1,365 %	1,905 %
72	7,943 %	1,397 %	1,927 %
73	7,909 %	1,427 %	1,949 %

74	7,876 %	1,457 %	1,969 %
75	7,844 %	1,487 %	1,989 %
76	7,813 %	1,515 %	2,009 %
77	7,783 %	1,543 %	2,028 %
78	7,753 %	1,571 %	2,047 %
79	7,724 %	1,597 %	2,065 %
80	7,696 %	1,624 %	2,083 %
81	7,669 %	1,649 %	2,100 %
82	7,642 %	1,674 %	2,117 %
83	7,616 %	1,699 %	2,134 %
84	7,591 %	1,722 %	2,150 %
85	7,566 %	1,746 %	2,166 %
86	7,541 %	1,769 %	2,181 %
87	7,518 %	1,791 %	2,196 %
88	7,495 %	1,813 %	2,211 %
89	7,472 %	1,834 %	2,225 %
90	7,450 %	1,855 %	2,239 %
91	7,428 %	1,876 %	2,253 %
92	7,407 %	1,896 %	2,266 %
93	7,386 %	1,916 %	2,280 %
94	7,366 %	1,935 %	2,293 %
95	7,346 %	1,954 %	2,305 %
96	7,327 %	1,972 %	2,318 %
97	7,308 %	1,990 %	2,330 %
98	7,289 %	2,008 %	2,342 %
99	7,271 %	2,026 %	2,353 %
100	7,253 %	2,043 %	2,365 %

101	7,236 %	2,059 %	2,376 %
102	7,219 %	2,076 %	2,387 %
103	7,202 %	2,092 %	2,397 %
104	7,185 %	2,108 %	2,408 %
105	7,169 %	2,123 %	2,418 %
106	7,153 %	2,138 %	2,429 %
107	7,138 %	2,153 %	2,438 %
108	7,122 %	2,168 %	2,448 %
109	7,107 %	2,182 %	2,458 %
110	7,093 %	2,197 %	2,467 %
111	7,078 %	2,210 %	2,477 %
112	7,064 %	2,224 %	2,486 %
113	7,050 %	2,237 %	2,495 %
114	7,036 %	2,251 %	2,503 %
115	7,023 %	2,264 %	2,512 %
116	7,010 %	2,276 %	2,520 %
117	6,997 %	2,289 %	2,529 %
118	6,984 %	2,301 %	2,537 %
119	6,971 %	2,313 %	2,545 %
120	6,959 %	2,325 %	2,553 %
121	6,947 %	2,337 %	2,561 %
122	6,935 %	2,348 %	2,568 %
123	6,923 %	2,360 %	2,576 %
124	6,912 %	2,371 %	2,583 %
125	6,900 %	2,382 %	2,591 %
126	6,889 %	2,392 %	2,598 %
127	6,878 %	2,403 %	2,605 %

128	6,867 %	2,414 %	2,612 %
129	6,857 %	2,424 %	2,619 %
130	6,846 %	2,434 %	2,625 %
131	6,836 %	2,444 %	2,632 %
132	6,826 %	2,454 %	2,639 %
133	6,816 %	2,463 %	2,645 %
134	6,806 %	2,473 %	2,651 %
135	6,796 %	2,482 %	2,658 %
136	6,786 %	2,492 %	2,664 %
137	6,777 %	2,501 %	2,670 %
138	6,768 %	2,510 %	2,676 %
139	6,758 %	2,519 %	2,682 %
140	6,749 %	2,527 %	2,688 %
141	6,740 %	2,536 %	2,693 %
142	6,732 %	2,545 %	2,699 %
143	6,723 %	2,553 %	2,705 %
144	6,715 %	2,561 %	2,710 %
145	6,706 %	2,569 %	2,716 %
146	6,698 %	2,577 %	2,721 %
147	6,690 %	2,585 %	2,726 %
148	6,681 %	2,593 %	2,731 %
149	6,674 %	2,601 %	2,737 %
150	6,666 %	2,608 %	2,742 %

ANNEX II

Fundamental spreads for the calculation of the matching adjustment

The fundamental spreads set out in this Annex are expressed in basis points and do not include any increase in accordance with Article 77c(1)(c) of Directive 2009/138/EC.

1. Exposures to central governments and central banks

The fundamental spreads apply to exposures denominated in all currencies.

The fundamental spreads for durations from 11 to 30 years are equal to the fundamental spreads for duration 10 years.

Duration (in years)	Austria	Belgium	Bulgaria	Croatia	Czech Republic	Cyprus	Denmark
1	0	0	31	5	0	25	1
2	0	0	39	5	0	41	0
3	0	1	44	5	1	46	0
4	0	2	47	5	3	47	0
5	0	4	51	5	4	50	0
6	1	5	54	5	6	53	0
7	2	5	57	5	9	54	0
8	2	6	58	5	11	53	0
9	3	7	60	5	12	51	0
10	3	8	62	5	13	50	0

Duration (in years)	Estonia	Finland	France	Germany	Greece	Hungary	Ireland
1	0	0	0	0	388	4	16
2	0	0	0	0	241	4	22
3	1	0	0	0	214	4	25
4	2	0	0	0	186	4	26
5	4	0	0	0	171	4	27
6	5	0	0	0	168	4	28
7	5	0	0	0	165	4	29
8	6	0	1	0	169	2	30

9	7	0	2	0	171	1	30
10	8	0	3	0	173	4	31

Duration (in years)	Italy	Latvia	Lithuania	Luxembourg	Malta	Netherlands	Poland
1	6	5	5	0	16	0	4
2	14	11	11	0	22	0	4
3	19	14	15	0	25	0	4
4	22	16	17	0	26	0	4
5	24	18	19	0	27	0	4
6	25	19	20	0	28	0	4
7	27	21	22	0	29	0	4
8	28	22	23	1	30	0	4
9	30	23	24	2	30	0	4
10	31	23	25	2	31	0	4

Duration (in years)	Portugal	Romania	Slovakia	Slovenia	Spain	Sweden	United Kingdom
1	25	9	12	18	5	0	0
2	41	17	15	21	11	0	0
3	46	19	18	25	15	0	0
4	47	20	19	30	17	0	0
5	50	21	20	33	19	0	0
6	53	23	22	36	20	0	0
7	54	24	23	38	22	0	0
8	53	26	24	39	23	0	0
9	51	27	25	40	24	0	0
10	50	25	25	40	25	0	0

Duration (in years)	Liechtenstein	Norway	Switzerland	Australia	Brazil	Canada	Chile
1	0	0	0	0	12	0	17
2	0	0	0	0	12	0	19
3	0	0	0	0	12	0	18
4	0	0	0	0	12	0	17
5	0	0	0	0	12	0	16
6	0	0	0	0	12	0	15
7	0	0	0	0	12	0	14
8	0	0	0	0	12	0	15
9	0	0	0	0	12	0	16
10	0	0	0	0	12	0	13

Duration (in years)	China	Colombia	Hong Kong	India	Japan	Malaysia	Mexico
1	0	11	0	10	0	0	9
2	0	18	0	10	0	0	9
3	2	29	0	10	0	0	10
4	2	36	0	10	0	0	10
5	3	38	0	10	0	0	10
6	3	41	0	10	0	0	10
7	4	43	0	10	0	0	10
8	7	41	0	10	0	0	10
9	5	38	0	10	0	0	10
10	5	41	0	10	1	0	10

Duration (in years)	New Zealand	Russia	Singapore	South Africa	South Korea	Thailand	Taiwan
1	0	0	0	6	9	1	4
2	0	0	0	8	12	0	4

3	0	0	0	9	12	0	4
4	0	0	0	8	14	0	4
5	0	1	0	8	15	0	4
6	0	5	0	9	15	0	4
7	0	7	0	10	15	0	4
8	0	11	0	12	15	0	4
9	0	17	0	12	15	0	4
10	0	17	0	13	15	0	4

Duration (in years)	United States
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0

2. Exposures to financial institutions

2.1 Euro

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	6	20	45	118	232	548	1186
2	6	20	45	118	232	548	954
3	7	22	46	112	228	545	778

4	9	25	48	114	227	544	644
5	10	27	53	117	227	544	544
6	11	30	57	122	227	544	544
7	12	32	59	124	227	544	544
8	12	33	58	123	227	544	544
9	13	33	58	122	227	544	544
10	13	35	59	122	227	544	544
11	14	36	59	122	227	544	544
12	14	37	59	122	227	544	544
13	14	37	59	122	227	544	544
14	15	37	59	122	227	544	544
15	15	37	59	122	227	544	544
16	15	37	59	122	227	544	544
17	15	37	59	122	227	544	544
18	15	37	59	122	227	544	544
19	15	37	59	122	227	544	544
20	16	37	59	122	227	544	544
21	16	37	59	122	227	544	544
22	17	37	59	122	227	544	544
23	17	37	59	122	227	544	544
24	18	37	59	122	227	544	544
25	18	37	59	122	227	544	544
26	20	37	59	122	227	544	544
27	21	37	59	122	227	544	544
28	21	37	59	122	227	544	544
29	22	37	59	122	227	544	544
30	22	37	59	122	227	544	544

2.2 Czech koruna

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	14	27	52	125	239	556	1198
2	15	29	54	127	241	557	965
3	17	32	55	121	237	554	787
4	18	34	58	123	236	553	652
5	19	36	62	126	236	552	552
6	19	38	65	130	235	552	552
7	20	39	66	132	234	551	551
8	19	39	65	130	234	550	550
9	19	40	65	128	233	550	550
10	19	40	64	128	233	549	549
11	19	41	64	127	232	549	549
12	19	41	63	127	231	548	548
13	18	41	63	126	231	548	548
14	18	41	62	126	230	547	547
15	18	40	62	125	230	547	547
16	17	40	61	125	229	546	546
17	17	40	61	124	229	546	546
18	17	40	61	124	229	546	546
19	17	40	61	124	229	546	546
20	17	40	62	125	230	546	546
21	18	40	62	125	230	547	547
22	18	41	62	125	230	547	547
23	18	41	62	125	230	547	547
24	18	41	62	126	230	547	547
25	20	41	62	126	230	547	547

26	20	41	62	126	230	547	547
27	21	41	62	126	230	547	547
28	21	41	62	125	230	547	547
29	22	41	62	125	230	547	547
30	22	41	62	125	230	547	547

2.3 Danish krone

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	6	20	44	118	231	548	1186
2	6	20	44	118	231	548	954
3	7	22	45	111	228	544	778
4	8	25	48	114	227	543	644
5	10	27	53	117	227	543	543
6	11	29	57	121	227	543	543
7	12	32	59	124	227	543	543
8	12	32	58	123	227	543	543
9	12	33	58	122	227	543	543
10	13	34	58	122	227	543	543
11	14	36	59	122	227	543	543
12	14	36	59	122	227	543	543
13	14	37	59	122	227	543	543
14	14	37	59	122	227	543	543
15	14	37	59	122	227	543	543
16	14	37	59	122	227	543	543
17	14	37	59	122	227	543	543
18	14	37	59	122	227	543	543
19	14	37	59	122	227	543	543

20	16	37	59	122	227	543	543
21	16	37	59	122	227	543	543
22	17	37	59	122	227	543	543
23	17	37	59	122	227	543	543
24	18	37	59	122	227	543	543
25	18	37	59	122	227	543	543
26	20	37	59	122	227	543	543
27	21	37	59	122	227	543	543
28	21	37	59	122	227	543	543
29	22	37	59	122	227	543	543
30	22	37	59	122	227	543	543

2.4 Forint

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	80	93	118	191	305	622	1199
2	76	90	114	188	301	618	968
3	80	95	118	184	300	617	792
4	79	95	119	184	297	614	658
5	78	95	122	185	295	612	612
6	77	96	123	188	293	610	610
7	77	96	123	189	291	608	608
8	76	96	122	186	290	607	607
9	75	96	121	184	289	606	606
10	72	93	117	181	285	602	602
11	70	92	115	178	283	600	600
12	69	91	114	177	282	598	598
13	68	91	113	176	281	598	598

14	68	91	112	176	280	597	597
15	68	91	112	175	280	597	597
16	67	90	112	175	279	596	596
17	67	90	111	174	279	596	596
18	66	89	111	174	278	595	595
19	65	88	110	173	278	594	594
20	65	88	109	172	277	594	594
21	64	87	109	172	276	593	593
22	63	86	108	171	276	592	592
23	62	85	107	170	275	591	591
24	61	84	106	169	274	590	590
25	60	83	105	168	273	589	589
26	59	82	104	167	272	588	588
27	58	81	103	166	271	587	587
28	57	80	102	165	270	586	586
29	56	79	101	164	268	585	585
30	55	78	100	163	267	584	584

2.5 Krona

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	10	24	48	122	235	552	1192
2	12	26	50	124	237	554	959
3	14	29	52	118	235	551	782
4	16	32	55	121	234	551	648
5	17	35	61	124	234	551	551
6	18	37	64	129	234	551	551
7	19	39	66	131	234	550	550

8	19	39	65	129	233	550	550
9	19	39	64	128	233	550	550
10	19	40	64	128	232	549	549
11	19	41	64	127	232	549	549
12	19	42	64	127	232	549	549
13	19	42	64	127	232	549	549
14	19	42	64	127	232	548	548
15	19	42	64	127	232	548	548
16	19	42	63	126	231	548	548
17	19	42	63	127	231	548	548
18	19	42	63	127	231	548	548
19	19	42	64	127	232	548	548
20	20	42	64	127	232	549	549
21	20	43	64	128	232	549	549
22	20	43	65	128	233	549	549
23	20	43	65	128	233	549	549
24	21	43	65	128	233	550	550
25	21	43	65	128	233	550	550
26	21	43	65	128	233	550	550
27	21	43	65	128	233	549	549
28	21	43	65	128	233	549	549
29	22	43	65	128	233	549	549
30	22	43	65	128	232	549	549

2.6 Kuna

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	49	63	87	161	274	591	1191

2	53	67	91	165	278	595	963
3	58	73	96	162	279	595	788
4	62	78	101	167	280	597	655
5	64	81	107	171	281	597	597
6	65	83	111	175	281	597	597
7	66	85	112	177	280	597	597
8	65	85	111	175	279	596	596
9	63	84	109	173	278	595	595
10	63	84	108	172	276	593	593
11	62	84	107	170	275	592	592
12	61	83	106	169	273	590	590
13	60	82	104	167	272	589	589
14	59	81	103	166	271	588	588
15	58	80	102	165	270	587	587
16	57	79	101	164	269	586	586
17	56	79	100	163	268	585	585
18	55	78	99	163	267	584	584
19	54	77	99	162	267	584	584
20	54	77	98	161	266	583	583
21	53	76	98	161	266	582	582
22	53	75	97	160	265	582	582
23	52	75	96	159	264	581	581
24	51	74	95	159	263	580	580
25	50	73	95	158	262	579	579
26	49	72	94	157	262	578	578
27	49	71	93	156	261	578	578
28	48	70	92	155	260	577	577

29	47	70	91	154	259	576	576
30	46	69	90	154	258	575	575

2.7 Lev

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	6	19	44	117	231	548	1185
2	6	19	44	117	231	548	953
3	7	22	45	111	227	544	777
4	8	24	48	113	226	543	644
5	9	27	53	116	226	543	543
6	10	29	56	121	226	543	543
7	12	31	58	123	226	543	543
8	11	32	58	122	226	543	543
9	12	33	58	121	226	543	543
10	12	34	58	121	226	543	543
11	13	35	58	121	226	543	543
12	13	36	58	121	226	543	543
13	14	36	58	121	226	543	543
14	14	37	58	121	226	543	543
15	14	36	58	121	226	543	543
16	14	36	58	121	226	543	543
17	14	36	58	121	226	543	543
18	14	36	58	121	226	543	543
19	14	36	58	121	226	543	543
20	16	36	58	121	226	543	543
21	16	36	58	121	226	543	543
22	17	36	58	121	226	543	543

23	17	36	58	121	226	543	543
24	18	37	58	121	226	543	543
25	18	37	58	121	226	543	543
26	20	37	58	121	226	543	543
27	21	37	58	121	226	543	543
28	21	37	58	121	226	543	543
29	22	37	58	121	226	543	543
30	22	37	58	121	226	543	543

2.8 Pound sterling

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	8	25	55	149	250	566	1196
2	8	25	55	149	250	566	962
3	9	27	55	135	246	563	784
4	10	29	57	125	244	561	650
5	11	31	58	114	243	560	560
6	14	34	61	107	242	559	559
7	16	37	62	100	241	557	557
8	17	38	60	93	240	556	556
9	20	45	64	87	239	555	555
10	19	45	62	84	238	555	555
11	18	44	61	84	237	554	554
12	18	43	61	86	236	553	553
13	18	44	62	86	235	552	552
14	18	44	62	86	235	551	551
15	18	44	62	86	234	551	551
16	18	44	62	86	232	549	549

17	18	44	62	86	232	548	548
18	18	44	62	86	231	548	548
19	18	44	62	86	231	548	548
20	18	44	62	86	231	548	548
21	18	44	62	86	231	548	548
22	18	44	62	86	231	548	548
23	18	44	62	86	231	547	547
24	18	44	62	86	230	547	547
25	19	44	62	86	230	546	546
26	20	44	62	86	229	546	546
27	21	44	62	86	229	545	545
28	21	44	62	86	228	545	545
29	22	44	62	86	228	544	544
30	22	44	62	86	227	544	544

2.9 Romanian leu

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	86	100	124	197	311	628	1249
2	84	98	122	196	309	626	1009
3	83	98	121	187	304	620	824
4	82	99	122	187	301	617	684
5	81	99	125	188	298	615	615
6	80	99	126	191	296	613	613
7	79	98	125	191	293	610	610
8	77	97	123	187	291	608	608
9	75	96	120	184	289	606	606
10	74	95	119	183	287	604	604

11	73	95	118	181	286	603	603
12	71	94	116	179	284	601	601
13	70	93	115	178	283	599	599
14	69	92	113	176	281	598	598
15	68	90	112	175	280	597	597
16	66	89	111	174	279	595	595
17	65	88	110	173	278	594	594
18	64	87	109	172	277	593	593
19	64	86	108	171	276	593	593
20	63	85	107	170	275	592	592
21	62	85	106	169	274	591	591
22	61	84	105	168	273	590	590
23	60	83	104	167	272	589	589
24	59	82	103	166	271	588	588
25	58	80	102	165	270	587	587
26	57	79	101	164	269	586	586
27	56	78	100	163	268	585	585
28	55	77	99	162	267	584	584
29	54	76	98	161	266	583	583
30	53	75	97	160	265	582	582

2.10 Zloty

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	58	72	97	170	284	600	1191
2	57	71	96	169	283	599	960
3	58	73	96	162	278	595	785
4	58	74	98	163	276	593	652

5	57	75	101	164	274	591	591
6	57	75	102	167	272	589	589
7	56	76	103	168	271	588	588
8	55	75	101	166	269	586	586
9	54	74	99	163	268	585	585
10	53	74	98	162	267	583	583
11	53	75	98	161	266	582	582
12	52	75	97	160	265	582	582
13	52	74	96	159	264	581	581
14	51	74	96	159	263	580	580
15	51	73	95	158	263	580	580
16	50	72	94	157	262	579	579
17	49	72	93	157	261	578	578
18	48	71	93	156	261	578	578
19	48	71	92	156	260	577	577
20	48	71	92	155	260	577	577
21	48	70	92	155	260	577	577
22	47	70	91	155	259	576	576
23	47	69	91	154	259	576	576
24	46	69	90	153	258	575	575
25	45	68	90	153	258	574	574
26	45	67	89	152	257	574	574
27	44	67	88	151	256	573	573
28	43	66	88	151	255	572	572
29	43	65	87	150	255	572	572
30	42	65	86	149	254	571	571

2.11 Norwegian krone

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	31	45	70	143	257	573	1199
2	32	46	70	144	257	574	966
3	32	47	70	136	253	569	788
4	33	49	72	138	251	568	653
5	33	50	77	140	250	567	567
6	33	52	79	144	249	566	566
7	34	53	80	146	248	565	565
8	33	53	79	143	247	564	564
9	32	53	78	142	247	563	563
10	32	54	78	141	246	563	563
11	32	54	77	141	245	562	562
12	32	54	77	140	244	561	561
13	31	54	76	139	244	560	560
14	31	54	75	138	243	560	560
15	30	53	74	138	242	559	559
16	29	52	74	137	242	558	558
17	29	52	73	136	241	558	558
18	29	51	73	136	241	558	558
19	28	51	73	136	241	557	557
20	28	51	73	136	241	557	557
21	28	51	73	136	241	557	557
22	28	51	73	136	241	557	557
23	28	51	73	136	240	557	557
24	28	51	72	136	240	557	557
25	28	51	72	135	240	557	557

26	28	50	72	135	240	557	557
27	27	50	72	135	239	556	556
28	27	50	71	134	239	556	556
29	27	49	71	134	239	556	556
30	26	49	71	134	239	555	555

2.12 Swiss franc

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	3	25	99	212	529	1180
2	1	5	26	100	213	530	950
3	2	5	28	93	210	526	775
4	3	7	30	96	209	526	642
5	4	9	35	99	209	525	540
6	5	11	39	103	209	525	525
7	5	14	41	106	209	525	525
8	6	14	40	105	209	525	525
9	7	15	40	104	209	525	525
10	8	16	40	104	209	525	525
11	9	19	42	105	210	526	526
12	9	18	40	104	208	525	525
13	10	19	41	105	209	526	526
14	11	20	41	104	209	526	526
15	12	18	40	103	208	525	525
16	13	17	39	102	207	524	524
17	13	17	39	102	207	524	524
18	14	17	39	102	207	524	524
19	14	18	39	103	207	524	524

20	16	19	40	103	208	525	525
21	16	19	40	103	208	525	525
22	17	20	40	104	208	525	525
23	17	20	40	103	208	525	525
24	18	22	40	103	208	525	525
25	18	22	40	103	208	525	525
26	20	23	40	103	208	525	525
27	20	23	41	103	208	524	524
28	21	24	43	103	208	524	524
29	21	26	44	103	208	524	524
30	22	26	45	103	207	524	524

2.13 Australian dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	47	60	85	158	272	589	1195
2	47	60	85	158	272	589	962
3	47	62	85	151	268	584	785
4	48	64	87	153	266	583	651
5	48	65	91	155	265	582	582
6	48	66	94	158	264	580	580
7	48	68	95	160	263	579	579
8	47	67	93	158	262	578	578
9	46	67	92	156	261	577	577
10	46	68	92	155	260	577	577
11	46	68	91	154	259	576	576
12	45	68	90	153	258	575	575
13	45	68	90	153	257	574	574

14	45	67	89	152	257	574	574
15	44	67	88	151	256	573	573
16	43	66	87	151	255	572	572
17	42	65	87	150	255	572	572
18	42	65	86	149	254	571	571
19	42	64	86	149	254	571	571
20	41	64	86	149	254	570	570
21	41	64	85	149	253	570	570
22	41	63	85	148	253	570	570
23	40	63	85	148	252	569	569
24	40	62	84	147	252	569	569
25	39	62	83	146	251	568	568
26	38	61	83	146	251	567	567
27	38	60	82	145	250	567	567
28	37	60	81	144	249	566	566
29	36	59	81	144	248	565	565
30	36	58	80	143	248	565	565

2.14 Baht

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	17	31	55	129	242	559	1196
2	21	35	59	133	246	563	963
3	25	40	63	129	246	562	786
4	29	45	68	134	247	564	652
5	31	49	75	138	248	565	565
6	30	49	76	141	246	563	563
7	35	55	81	147	249	566	566

8	34	54	80	144	248	565	565
9	35	56	80	144	249	566	566
10	37	58	82	145	250	567	567
11	38	60	83	146	251	568	568
12	39	62	84	147	252	569	569
13	40	62	84	147	252	569	569
14	40	63	85	148	253	569	569
15	40	63	85	148	253	569	569
16	40	63	84	147	252	569	569
17	40	63	84	147	252	569	569
18	39	62	84	147	251	568	568
19	39	62	83	146	251	568	568
20	39	62	83	146	251	568	568
21	39	62	83	146	251	568	568
22	39	61	83	146	251	568	568
23	38	61	83	146	251	567	567
24	38	61	82	145	250	567	567
25	37	60	82	145	250	566	566
26	37	60	81	144	249	566	566
27	36	59	81	144	249	565	565
28	36	59	80	143	248	565	565
29	35	58	80	143	248	564	564
30	35	58	79	142	247	564	564

2.15 Canadian dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	17	30	55	128	242	559	1200

2	18	32	56	130	243	560	967
3	20	35	58	124	240	557	789
4	21	37	61	126	240	556	654
5	23	40	66	130	239	556	556
6	24	42	70	134	239	556	556
7	25	44	71	137	239	556	556
8	25	45	71	135	239	556	556
9	25	46	71	135	239	556	556
10	26	47	71	135	239	556	556
11	26	48	72	135	240	556	556
12	27	49	72	135	240	556	556
13	27	50	72	135	240	556	556
14	28	50	72	135	240	557	557
15	28	50	72	135	240	557	557
16	27	50	72	135	240	556	556
17	27	50	72	135	240	556	556
18	27	50	72	135	240	556	556
19	27	50	72	135	239	556	556
20	27	50	72	135	240	556	556
21	27	50	72	135	240	556	556
22	27	50	71	135	239	556	556
23	27	49	71	134	239	556	556
24	26	49	71	134	238	555	555
25	26	49	70	133	238	555	555
26	25	48	70	133	238	554	554
27	25	48	69	132	237	554	554
28	25	47	69	132	237	554	554

29	24	47	69	132	236	553	553
30	24	47	68	131	236	553	553

2.16 Chilean peso

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	50	64	89	162	276	592	1194
2	53	67	91	165	279	595	960
3	57	72	95	161	278	594	784
4	59	76	99	164	278	594	651
5	61	79	105	168	278	595	595
6	63	81	109	173	279	595	595
7	64	83	110	176	278	595	595
8	64	84	110	174	278	595	595
9	63	84	109	173	278	595	595
10	64	85	110	173	278	594	594
11	64	86	109	173	277	594	594
12	64	86	109	172	277	593	593
13	64	86	108	171	276	593	593
14	63	86	107	170	275	592	592
15	62	85	106	169	274	591	591
16	61	84	106	169	273	590	590
17	60	83	105	168	273	589	589
18	60	83	104	167	272	589	589
19	59	82	103	167	271	588	588
20	58	81	103	166	271	587	587
21	58	80	102	165	270	587	587
22	57	80	101	164	269	586	586

23	56	79	100	164	268	585	585
24	55	78	99	163	267	584	584
25	54	77	99	162	266	583	583
26	53	76	98	161	266	582	582
27	52	75	97	160	265	581	581
28	52	74	96	159	264	580	580
29	51	73	95	158	263	580	580
30	50	73	94	157	262	579	579

2.17 Colombian peso

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	82	96	120	194	307	624	1228
2	86	100	124	198	312	628	998
3	88	103	126	192	309	625	820
4	89	105	128	194	307	624	683
5	92	109	135	199	309	625	625
6	94	112	139	204	309	626	626
7	95	115	142	207	310	626	626
8	96	116	142	207	311	627	627
9	97	118	143	207	311	628	628
10	98	119	143	207	311	628	628
11	98	120	143	206	311	628	628
12	97	120	142	205	310	627	627
13	97	119	141	204	309	626	626
14	95	118	140	203	308	624	624
15	94	117	138	201	306	623	623
16	93	115	137	200	305	622	622

17	91	114	135	199	303	620	620
18	90	113	134	197	302	619	619
19	88	111	133	196	301	617	617
20	87	110	131	195	299	616	616
21	86	108	130	193	298	615	615
22	84	107	129	192	296	613	613
23	83	105	127	190	295	612	612
24	81	104	125	189	293	610	610
25	79	102	124	187	292	608	608
26	78	101	122	185	290	607	607
27	76	99	120	184	288	605	605
28	75	97	119	182	287	604	604
29	73	96	117	181	285	602	602
30	72	94	116	179	284	601	601

2.18 Hong Kong dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	10	24	48	122	236	552	1202
2	13	27	52	125	239	555	967
3	17	32	55	121	237	554	788
4	20	36	59	125	238	555	653
5	22	39	65	129	239	556	556
6	24	42	69	134	239	556	556
7	25	45	71	137	240	556	556
8	25	45	71	136	240	556	556
9	25	46	71	135	240	556	556
10	26	47	71	135	240	556	556

11	26	48	71	135	239	556	556
12	26	49	71	134	239	556	556
13	26	49	71	134	238	555	555
14	26	48	70	133	238	555	555
15	25	48	69	132	237	554	554
16	24	47	68	132	236	553	553
17	24	46	68	131	236	553	553
18	23	46	68	131	236	552	552
19	23	46	67	131	235	552	552
20	23	46	68	131	236	552	552
21	23	46	68	131	236	552	552
22	23	46	68	131	236	552	552
23	23	46	68	131	236	552	552
24	23	46	68	131	235	552	552
25	23	46	67	131	235	552	552
26	23	46	67	130	235	552	552
27	23	46	67	130	235	552	552
28	23	45	67	130	235	552	552
29	22	45	67	130	235	551	551
30	22	45	66	130	234	551	551

2.19 Indian rupee

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	95	109	133	207	321	637	1258
2	96	110	134	208	321	638	1019
3	97	112	135	201	317	634	836
4	98	114	138	203	316	633	695

5	99	116	142	206	316	633	633
6	99	118	145	210	315	632	632
7	100	120	147	212	315	631	631
8	100	120	146	210	314	631	631
9	99	120	145	209	313	630	630
10	98	120	144	207	312	629	629
11	97	119	142	206	310	627	627
12	96	118	140	204	308	625	625
13	94	117	139	202	307	623	623
14	92	115	137	200	305	621	621
15	91	113	135	198	303	620	620
16	89	111	133	196	301	618	618
17	87	110	131	195	299	616	616
18	85	108	130	193	298	615	615
19	84	107	128	192	296	613	613
20	83	106	127	191	295	612	612
21	82	105	126	190	294	611	611
22	81	104	125	188	293	610	610
23	80	102	124	187	292	609	609
24	79	101	123	186	291	607	607
25	77	100	122	185	290	606	606
26	76	99	120	184	288	605	605
27	75	98	119	182	287	604	604
28	74	97	118	181	286	603	603
29	73	96	117	180	285	602	602
30	72	94	116	179	284	601	601

2.20 Mexican peso

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	330	344	369	442	556	872	1273
2	83	97	122	195	309	625	1024
3	87	102	125	191	308	624	837
4	90	106	130	195	309	625	694
5	93	110	136	200	310	626	626
6	94	113	140	205	310	627	627
7	96	116	142	208	310	627	627
8	97	117	143	207	311	628	628
9	97	118	143	207	311	628	628
10	97	119	143	206	311	628	628
11	98	120	143	206	311	628	628
12	98	121	143	206	311	628	628
13	99	122	144	207	311	628	628
14	100	123	144	207	312	629	629
15	101	123	145	208	313	629	629
16	101	124	146	209	314	630	630
17	102	125	147	210	315	631	631
18	103	126	148	211	316	632	632
19	104	127	149	212	316	633	633
20	105	128	149	212	317	634	634
21	105	128	149	212	317	634	634
22	105	127	149	212	317	634	634
23	104	127	148	211	316	633	633
24	103	126	147	211	315	632	632
25	102	125	146	210	314	631	631

26	101	124	145	208	313	630	630
27	100	122	144	207	312	629	629
28	98	121	142	206	310	627	627
29	97	120	141	204	309	626	626
30	95	118	140	203	308	624	624

2.21 New Taiwan dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	12	36	109	223	540	1195
2	1	11	36	109	223	540	962
3	2	13	37	103	219	536	785
4	3	15	39	104	217	534	650
5	4	17	43	106	216	533	547
6	5	18	45	110	215	532	532
7	5	20	47	112	215	532	532
8	6	20	46	110	214	531	531
9	7	20	44	108	213	530	530
10	8	20	44	108	212	529	529
11	9	21	44	108	212	529	529
12	9	22	44	108	212	529	529
13	10	23	44	108	212	529	529
14	11	23	45	108	213	529	529
15	12	23	45	108	213	530	530
16	13	23	45	108	213	530	530
17	13	24	45	109	213	530	530
18	14	24	46	109	214	531	531
19	15	25	47	110	214	531	531

20	16	26	47	111	215	532	532
21	17	27	48	111	216	533	533
22	17	27	49	112	217	534	534
23	18	28	49	113	217	534	534
24	18	28	50	113	218	535	535
25	20	29	50	114	218	535	535
26	20	29	51	114	219	535	535
27	21	29	51	114	219	536	536
28	21	30	51	114	219	536	536
29	22	30	52	115	219	536	536
30	22	30	52	115	220	536	536

2.22 New Zealand dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	52	66	91	164	278	594	1195
2	53	67	92	165	279	595	961
3	54	69	92	158	275	591	784
4	55	71	95	160	273	590	650
5	55	73	99	162	272	589	589
6	56	74	102	166	272	588	588
7	56	75	102	168	270	587	587
8	55	75	101	166	270	586	586
9	55	76	100	164	269	586	586
10	54	75	99	163	268	584	584
11	53	75	98	161	266	583	583
12	52	74	97	160	265	581	581
13	51	73	95	158	263	580	580

14	50	72	94	157	262	579	579
15	48	71	93	156	260	577	577
16	47	69	91	154	259	576	576
17	46	68	90	153	258	575	575
18	44	67	89	152	257	574	574
19	44	66	88	151	256	573	573
20	43	66	87	151	255	572	572
21	43	65	87	150	255	572	572
22	42	65	86	149	254	571	571
23	41	64	86	149	254	570	570
24	41	63	85	148	253	570	570
25	40	63	84	147	252	569	569
26	39	62	84	147	251	568	568
27	39	61	83	146	251	568	568
28	38	61	82	145	250	567	567
29	37	60	82	145	249	566	566
30	37	59	81	144	249	566	566

2.23 Rand

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	116	130	154	228	341	658	1256
2	117	131	155	229	342	659	1013
3	120	135	158	224	340	657	830
4	122	138	161	227	340	657	692
5	123	141	167	230	340	657	657
6	124	143	170	235	340	657	657
7	125	145	171	237	339	656	656

8	124	145	170	235	339	656	656
9	124	145	170	233	338	655	655
10	123	145	169	232	337	654	654
11	123	145	168	231	336	653	653
12	122	144	166	229	334	651	651
13	120	143	164	228	332	649	649
14	118	141	162	226	330	647	647
15	116	139	160	223	328	645	645
16	113	136	158	221	326	643	643
17	111	134	156	219	324	640	640
18	109	132	154	217	322	638	638
19	107	130	152	215	320	636	636
20	106	128	150	213	318	635	635
21	104	127	148	211	316	633	633
22	102	125	146	210	314	631	631
23	100	123	145	208	312	629	629
24	98	121	143	206	311	627	627
25	97	119	141	204	309	626	626
26	95	118	139	202	307	624	624
27	93	116	137	200	305	622	622
28	91	114	136	199	304	620	620
29	90	112	134	197	302	619	619
30	88	111	132	196	300	617	617

2.24 Real

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	169	183	207	281	394	711	1234

2	178	192	217	290	404	720	1007
3	184	199	222	288	405	721	831
4	187	203	226	292	405	722	722
5	188	205	231	295	405	722	722
6	188	206	234	298	404	720	720
7	188	207	234	300	402	719	719
8	187	207	233	297	401	718	718
9	185	206	231	295	400	716	716
10	185	206	230	293	398	715	715
11	183	205	228	292	396	713	713
12	181	204	226	289	394	711	711
13	179	201	223	286	391	708	708
14	176	199	220	283	388	705	705
15	173	196	217	280	385	702	702
16	170	192	214	277	382	699	699
17	167	189	211	274	379	696	696
18	164	186	208	271	376	693	693
19	161	183	205	268	373	690	690
20	158	180	202	265	370	687	687
21	155	177	199	262	367	684	684
22	151	174	196	259	364	680	680
23	148	171	193	256	361	677	677
24	145	168	190	253	357	674	674
25	142	165	187	250	354	671	671
26	139	162	184	247	351	668	668
27	136	159	181	244	348	665	665
28	133	156	178	241	346	662	662

29	131	153	175	238	343	660	660
30	128	151	172	236	340	657	657

2.25 Renminbi-yuan

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	31	44	69	142	256	573	1228
2	31	45	70	143	257	573	989
3	33	48	71	137	253	570	807
4	34	50	73	139	252	569	669
5	35	52	78	141	251	568	568
6	35	53	81	145	251	567	567
7	35	55	82	147	250	567	567
8	34	54	80	145	249	565	565
9	33	54	79	143	248	565	565
10	33	55	79	142	247	564	564
11	33	55	78	142	246	563	563
12	33	55	78	141	246	562	562
13	33	55	77	140	245	562	562
14	32	55	77	140	245	561	561
15	32	55	76	140	244	561	561
16	32	55	76	139	244	561	561
17	32	55	76	139	244	561	561
18	32	55	76	139	244	561	561
19	32	55	76	140	244	561	561
20	32	55	76	140	244	561	561
21	32	55	76	140	244	561	561
22	32	55	76	140	244	561	561

23	32	55	76	139	244	561	561
24	32	54	76	139	244	561	561
25	31	54	76	139	244	560	560
26	31	54	75	139	243	560	560
27	31	54	75	138	243	560	560
28	31	53	75	138	243	559	559
29	30	53	74	138	242	559	559
30	30	53	74	137	242	559	559

2.26 Ringgit

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	28	42	66	140	253	570	1225
2	30	43	68	141	255	572	988
3	32	47	70	136	253	569	807
4	34	51	74	139	253	569	670
5	37	54	80	143	253	570	570
6	38	56	84	148	254	570	570
7	40	59	86	151	254	571	571
8	40	60	86	150	254	571	571
9	40	61	86	149	254	571	571
10	41	62	86	150	254	571	571
11	42	64	87	150	255	572	572
12	42	65	87	150	255	572	572
13	42	65	87	150	255	572	572
14	42	65	87	150	255	571	571
15	42	65	87	150	254	571	571
16	42	65	86	149	254	571	571

17	42	65	86	149	254	571	571
18	42	65	86	149	254	571	571
19	42	65	86	149	254	571	571
20	42	65	87	150	254	571	571
21	42	65	87	150	255	571	571
22	42	65	87	150	254	571	571
23	42	65	86	150	254	571	571
24	42	64	86	149	254	571	571
25	41	64	86	149	253	570	570
26	41	64	85	148	253	570	570
27	40	63	85	148	252	569	569
28	40	63	84	147	252	569	569
29	39	62	83	147	251	568	568
30	39	61	83	146	251	568	568

2.27 Russian rouble

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	126	140	164	238	352	668	1268
2	125	139	163	237	350	667	1024
3	125	140	163	229	346	662	838
4	125	141	165	230	344	660	696
5	126	143	169	233	343	659	659
6	125	144	171	236	341	658	658
7	126	145	172	237	340	657	657
8	125	145	171	235	339	656	656
9	124	144	169	233	338	655	655
10	124	145	169	233	337	654	654

11	123	145	169	232	337	653	653
12	123	145	167	231	335	652	652
13	122	144	166	229	334	651	651
14	121	143	165	228	333	650	650
15	118	141	163	226	331	647	647
16	116	139	161	224	328	645	645
17	114	136	158	221	326	643	643
18	111	134	156	219	324	640	640
19	109	132	154	217	322	638	638
20	107	130	151	215	319	636	636
21	105	128	149	212	317	634	634
22	103	125	147	210	315	632	632
23	100	123	145	208	313	629	629
24	98	121	143	206	310	627	627
25	96	119	140	204	308	625	625
26	94	117	138	201	306	623	623
27	92	115	136	199	304	621	621
28	90	113	134	197	302	619	619
29	88	111	132	195	300	617	617
30	86	109	130	193	298	615	615

2.28 Singapore dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	12	37	110	224	541	1194
2	1	14	39	112	226	542	961
3	3	18	41	107	224	540	784
4	5	21	45	110	224	540	650

5	7	25	51	114	224	541	547
6	9	27	55	119	225	541	541
7	10	30	57	122	225	542	542
8	10	31	56	121	225	542	542
9	10	31	56	120	225	542	542
10	11	32	56	120	225	541	541
11	11	33	56	120	224	541	541
12	11	34	56	119	224	541	541
13	11	34	56	119	224	541	541
14	11	34	56	119	224	540	540
15	12	34	56	119	223	540	540
16	13	34	55	118	223	540	540
17	13	34	55	118	223	540	540
18	14	34	55	118	223	540	540
19	15	34	55	119	223	540	540
20	16	34	56	119	224	541	541
21	16	35	56	120	224	541	541
22	17	35	57	120	225	541	541
23	18	35	57	120	225	542	542
24	18	36	57	120	225	542	542
25	20	36	57	120	225	542	542
26	20	36	57	121	225	542	542
27	21	36	58	121	225	542	542
28	21	36	58	121	226	542	542
29	22	36	58	121	226	542	542
30	22	36	58	121	226	542	542

2.29 South Korean won

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	36	50	74	147	261	578	1202
2	36	50	74	148	261	578	968
3	36	51	74	140	257	573	790
4	36	52	76	141	255	571	654
5	37	54	80	143	253	570	570
6	39	57	85	149	255	571	571
7	37	56	83	148	251	568	568
8	40	60	86	151	254	571	571
9	39	60	85	149	253	570	570
10	34	56	80	143	248	565	565
11	30	52	75	139	243	560	560
12	27	50	72	135	240	557	557
13	25	48	70	133	238	554	554
14	23	46	68	131	236	552	552
15	22	45	66	129	234	551	551
16	20	43	65	128	233	549	549
17	20	42	64	127	232	549	549
18	19	42	63	126	231	548	548
19	18	41	63	126	231	548	548
20	19	41	63	126	231	548	548
21	19	41	63	126	231	548	548
22	19	41	63	126	231	548	548
23	18	41	63	126	231	547	547
24	18	41	63	126	231	547	547
25	20	41	63	126	230	547	547

26	20	41	62	126	230	547	547
27	21	41	62	125	230	547	547
28	21	41	62	125	230	547	547
29	22	41	62	125	230	547	547
30	22	40	62	125	230	547	547

2.30 Turkish lira

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	201	214	239	312	426	743	1356
2	197	211	235	309	422	739	1101
3	193	208	231	297	414	730	904
4	190	206	229	295	408	725	753
5	186	203	229	293	403	720	720
6	182	201	228	293	398	715	715
7	179	198	225	291	393	710	710
8	174	195	221	285	389	706	706
9	170	191	216	280	385	701	701
10	167	188	212	276	380	697	697
11	163	185	208	272	376	693	693
12	159	182	204	267	372	689	689
13	156	178	200	263	368	685	685
14	152	175	196	260	364	681	681
15	149	171	193	256	361	678	678
16	145	168	189	253	357	674	674
17	142	165	186	249	354	671	671
18	139	162	183	246	351	668	668
19	136	159	180	244	348	665	665

20	133	156	178	241	346	662	662
21	131	153	175	238	343	660	660
22	128	151	172	235	340	657	657
23	125	148	169	233	337	654	654
24	123	145	167	230	335	652	652
25	120	143	164	227	332	649	649
26	118	140	162	225	330	647	647
27	115	138	159	223	327	644	644
28	113	136	157	220	325	642	642
29	111	133	155	218	323	640	640
30	108	131	153	216	321	637	637

2.31 US dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	9	26	50	105	241	557	1195
2	9	26	50	105	241	557	961
3	10	29	52	101	239	555	784
4	13	34	56	98	239	556	650
5	17	40	61	101	240	557	557
6	19	43	65	98	241	557	557
7	20	45	64	92	241	558	558
8	18	44	63	91	241	558	558
9	18	45	65	95	241	558	558
10	20	48	68	98	241	558	558
11	22	50	70	101	241	558	558
12	24	53	71	102	241	558	558
13	25	55	71	102	241	558	558

14	25	55	72	102	241	558	558
15	25	55	72	102	241	558	558
16	25	55	72	102	241	557	557
17	25	55	72	102	241	557	557
18	25	55	72	102	241	557	557
19	25	55	72	102	241	558	558
20	25	55	72	102	241	558	558
21	25	55	72	102	241	558	558
22	25	55	72	102	241	558	558
23	25	55	72	102	241	558	558
24	25	55	72	102	241	558	558
25	25	55	72	102	241	558	558
26	25	55	72	102	241	558	558
27	25	55	72	102	241	558	558
28	25	55	72	102	241	557	557
29	25	55	72	102	240	557	557
30	25	55	72	102	240	557	557

2.32 Yen

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	3	14	88	202	518	1192
2	1	5	13	87	200	517	959
3	2	5	13	79	195	512	782
4	3	6	14	80	193	510	648
5	4	6	19	82	192	509	545
6	5	8	22	86	192	508	508
7	5	9	23	89	191	508	508

8	6	9	23	87	191	508	508
9	7	10	23	87	191	508	508
10	8	10	23	87	191	508	508
11	9	12	23	87	191	508	508
12	9	12	24	87	192	508	508
13	10	13	24	87	192	509	509
14	11	13	26	87	192	509	509
15	12	15	27	88	192	509	509
16	13	16	28	88	192	509	509
17	13	16	30	88	193	510	510
18	14	17	31	89	193	510	510
19	14	18	32	89	194	511	511
20	16	19	33	90	194	511	511
21	16	19	34	90	195	512	512
22	17	20	36	91	195	512	512
23	17	21	37	91	196	512	512
24	18	22	38	91	196	513	513
25	18	22	39	91	196	513	513
26	20	23	40	91	196	513	513
27	21	23	41	91	196	513	513
28	21	25	43	91	196	513	513
29	22	26	44	91	196	513	513
30	22	26	45	91	196	513	513

3. Other exposures

3.1 Euro

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	2	15	21	43	163	294	3030

2	2	15	21	43	163	333	2255
3	1	15	23	48	158	346	1701
4	1	16	26	52	155	346	1313
5	2	18	30	54	155	337	1040
6	4	21	32	57	155	324	843
7	5	23	34	59	155	309	697
8	5	24	35	62	155	292	586
9	6	25	37	65	155	276	499
10	6	26	38	67	155	259	429
11	6	26	39	68	155	250	373
12	6	26	39	68	155	250	326
13	6	26	39	68	155	250	287
14	6	26	39	68	155	250	254
15	6	26	39	68	155	250	250
16	6	26	40	68	155	250	250
17	6	26	43	68	155	250	250
18	6	26	45	68	155	250	250
19	7	26	47	68	155	250	250
20	7	26	50	68	155	250	250
21	7	26	52	68	155	250	250
22	7	26	54	68	155	250	250
23	8	26	57	68	155	250	250
24	8	26	59	68	155	250	250
25	9	26	61	68	155	250	250
26	9	26	63	68	155	250	250
27	9	26	66	68	155	250	250
28	10	26	68	70	155	250	250

29	10	26	70	72	155	250	250
30	10	26	73	74	155	250	250

3.2 Czech koruna

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	9	22	28	50	170	297	3063
2	11	24	30	52	172	336	2281
3	10	24	33	57	167	350	1722
4	10	25	36	61	164	350	1330
5	11	27	38	63	164	341	1054
6	12	29	40	65	163	328	855
7	12	31	41	67	163	313	707
8	12	31	42	68	162	296	594
9	12	31	43	71	161	279	505
10	12	31	44	73	161	263	435
11	11	31	44	73	160	255	378
12	11	31	43	72	160	254	330
13	10	30	43	72	159	254	291
14	10	30	42	71	159	253	258
15	9	29	42	71	158	253	253
16	9	28	41	70	158	252	252
17	8	28	43	70	158	252	252
18	8	28	46	70	157	252	252
19	8	28	48	70	157	252	252
20	9	29	50	71	158	252	252
21	9	29	53	71	158	253	253
22	9	29	55	71	158	253	253

23	9	29	57	71	159	253	253
24	10	29	60	71	159	253	253
25	10	29	62	71	159	253	253
26	10	29	65	71	159	253	253
27	10	29	67	71	159	253	253
28	10	29	69	71	159	253	253
29	10	29	72	73	158	253	253
30	10	29	74	74	158	253	253

3.3 Danish krone

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	1	14	21	43	163	294	3030
2	1	14	21	43	163	333	2254
3	1	15	23	48	157	346	1700
4	1	16	26	52	155	346	1313
5	2	18	30	54	155	337	1040
6	3	20	32	57	155	324	843
7	5	23	34	59	155	308	697
8	5	24	35	62	155	292	586
9	5	25	37	65	155	275	499
10	6	25	38	67	155	259	429
11	6	26	39	68	155	249	373
12	6	26	39	68	155	249	326
13	6	26	39	68	155	249	287
14	6	26	39	68	155	249	254
15	6	26	39	68	155	249	249
16	6	26	40	68	155	249	249

17	6	26	43	68	155	249	249
18	6	26	45	68	155	249	249
19	7	26	47	68	155	249	249
20	7	26	50	68	155	249	249
21	7	26	52	68	155	249	249
22	7	26	54	68	155	249	249
23	8	26	57	68	155	249	249
24	8	26	59	68	155	249	249
25	9	26	61	68	155	249	249
26	9	26	63	68	155	249	249
27	9	26	66	68	155	249	249
28	10	26	68	70	155	249	249
29	10	26	70	72	155	249	249
30	10	26	73	74	155	249	249

3.4 Forint

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	75	88	94	116	236	333	3065
2	71	84	91	113	233	338	2289
3	73	87	96	120	230	352	1732
4	71	86	97	122	225	353	1341
5	70	86	98	122	223	345	1065
6	70	87	98	123	221	332	865
7	69	87	98	123	220	317	716
8	68	87	98	125	218	313	602
9	68	87	99	127	217	312	513
10	64	84	97	125	214	308	442

11	62	82	95	124	211	306	385
12	61	81	94	123	210	304	337
13	60	80	93	122	209	304	304
14	60	80	92	121	209	303	303
15	59	79	92	121	208	303	303
16	59	79	92	121	208	302	302
17	58	78	91	120	207	302	302
18	58	78	91	119	207	301	301
19	57	77	90	119	206	300	300
20	56	76	89	118	205	300	300
21	56	76	89	117	205	299	299
22	55	75	88	117	204	298	298
23	54	74	87	116	203	297	297
24	53	73	86	115	202	296	296
25	52	72	85	114	201	295	295
26	51	71	84	113	200	294	294
27	50	70	83	112	199	293	293
28	49	69	82	111	198	292	292
29	48	68	81	110	197	291	291
30	47	67	80	109	196	290	290

3.5 Krona

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	5	18	25	47	167	296	3047
2	7	20	27	49	168	335	2268
3	8	21	30	55	164	348	1711
4	8	23	33	59	162	348	1322

5	9	25	37	61	162	339	1047
6	11	28	39	64	162	326	849
7	12	30	41	66	162	311	702
8	12	30	42	68	162	294	589
9	12	31	43	71	161	277	502
10	11	31	44	72	161	261	432
11	11	31	44	73	160	255	376
12	11	31	44	73	160	255	329
13	11	31	44	73	160	255	291
14	11	31	44	73	160	254	258
15	11	31	44	73	160	254	254
16	11	30	43	72	160	254	254
17	11	31	43	72	160	254	254
18	11	31	46	72	160	254	254
19	11	31	48	73	160	254	254
20	11	31	50	73	160	255	255
21	12	32	53	73	161	255	255
22	12	32	56	74	161	255	255
23	12	32	58	74	161	256	256
24	12	32	60	74	161	256	256
25	12	32	62	74	161	256	256
26	12	32	65	74	161	256	256
27	12	32	67	74	161	256	256
28	12	32	70	74	161	255	255
29	12	32	72	74	161	255	255
30	12	32	74	76	161	255	255

3.6 Kuna

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	44	57	64	86	206	302	3043
2	48	61	68	90	209	336	2276
3	52	66	74	99	208	351	1724
4	54	69	79	105	208	352	1335
5	56	72	83	108	209	344	1060
6	57	74	86	111	209	331	860
7	58	76	87	112	208	315	712
8	57	76	87	114	207	302	598
9	56	76	88	116	206	301	509
10	55	75	88	116	205	299	438
11	54	74	87	116	203	298	381
12	53	73	86	115	202	296	333
13	51	71	84	113	200	295	295
14	50	70	83	112	199	294	294
15	49	69	82	111	198	293	293
16	48	68	81	110	197	292	292
17	47	67	80	109	196	291	291
18	47	67	79	108	196	290	290
19	46	66	79	108	195	290	290
20	46	65	78	107	195	289	289
21	45	65	78	107	194	288	288
22	44	64	77	106	193	288	288
23	43	63	76	105	192	287	287
24	43	62	75	104	192	286	286
25	42	62	75	103	191	285	285

26	41	61	74	103	190	284	284
27	40	60	73	102	189	284	284
28	39	59	72	101	188	283	283
29	38	58	72	100	187	282	282
30	38	58	75	99	187	281	281

3.7 Lev

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	1	14	20	42	162	294	3028
2	1	14	20	42	162	332	2253
3	1	14	23	47	157	346	1699
4	1	15	26	51	154	345	1312
5	1	17	29	53	154	337	1040
6	3	20	31	56	154	324	843
7	4	22	33	58	154	308	697
8	4	23	34	61	154	292	585
9	5	24	36	64	154	275	498
10	5	25	38	66	154	259	429
11	5	25	38	67	154	249	372
12	5	25	38	67	154	249	326
13	5	25	38	67	154	249	287
14	5	25	38	67	154	249	254
15	5	25	38	67	154	249	249
16	6	25	40	67	154	249	249
17	6	25	43	67	154	249	249
18	6	25	45	67	154	249	249
19	7	25	47	67	154	249	249

20	7	25	50	67	154	249	249
21	7	25	52	67	154	249	249
22	7	25	54	67	154	249	249
23	8	25	57	67	154	249	249
24	8	25	59	67	154	249	249
25	9	25	61	67	154	249	249
26	9	25	63	67	154	249	249
27	9	25	66	68	154	249	249
28	10	25	68	70	154	249	249
29	10	25	70	72	154	249	249
30	10	25	73	74	154	249	249

3.8 Pound sterling

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	11	22	45	181	297	3058
2	0	11	22	45	181	335	2275
3	1	11	24	50	176	349	1716
4	1	13	26	56	172	349	1325
5	1	16	29	59	171	340	1050
6	2	18	33	60	170	327	851
7	3	21	36	60	169	311	703
8	5	24	37	60	168	295	591
9	8	31	42	59	167	278	503
10	10	34	42	57	166	261	433
11	9	33	41	57	165	260	376
12	8	32	41	57	164	259	329
13	7	31	42	57	164	258	289

14	7	31	42	57	163	257	257
15	7	31	43	57	162	257	257
16	7	31	43	57	161	255	255
17	7	31	43	57	160	254	254
18	7	31	45	57	159	254	254
19	7	31	47	57	159	254	254
20	7	31	50	57	160	254	254
21	7	31	52	57	160	254	254
22	7	31	54	59	160	254	254
23	8	31	57	60	159	253	253
24	8	31	59	62	158	253	253
25	9	31	62	64	158	252	252
26	9	31	63	66	157	252	252
27	9	31	66	68	157	251	251
28	10	31	68	70	156	251	251
29	10	31	70	72	156	250	250
30	10	31	73	74	156	250	250

3.9 Romanian leu

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	81	94	100	123	242	339	3201
2	79	92	99	121	241	351	2393
3	77	91	99	124	233	367	1809
4	75	90	100	126	229	367	1399
5	73	89	101	125	226	358	1109
6	73	90	101	126	224	344	899
7	72	90	101	126	222	328	743

8	69	88	100	126	219	314	625
9	68	87	99	127	217	312	532
10	66	86	99	127	216	310	458
11	65	85	98	127	214	309	397
12	63	83	96	125	213	307	348
13	62	82	95	124	211	305	306
14	60	80	93	122	210	304	304
15	59	79	92	121	208	303	303
16	58	78	91	120	207	301	301
17	57	77	90	119	206	300	300
18	56	76	89	118	205	299	299
19	55	75	88	117	204	299	299
20	54	74	87	116	203	298	298
21	53	73	86	115	202	297	297
22	52	72	85	114	201	296	296
23	51	71	84	113	200	295	295
24	50	70	83	112	199	294	294
25	49	69	82	111	198	293	293
26	48	68	81	110	197	292	292
27	47	67	80	109	196	291	291
28	46	66	79	108	195	290	290
29	45	65	78	107	194	289	289
30	44	64	77	106	193	288	288

3.10 Zloty

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	54	67	73	95	215	311	3045

2	53	66	72	94	214	335	2270
3	51	65	74	98	208	349	1717
4	50	65	76	101	204	350	1329
5	49	65	77	101	203	342	1055
6	49	66	78	103	201	329	857
7	49	67	78	103	199	314	709
8	48	67	78	104	198	298	597
9	47	66	78	106	196	291	508
10	46	65	78	107	195	289	438
11	45	65	78	107	194	288	380
12	44	64	77	106	193	288	333
13	43	63	76	105	192	287	293
14	43	63	76	105	192	286	286
15	42	62	75	104	191	286	286
16	41	61	74	103	190	285	285
17	41	61	73	102	190	284	284
18	40	60	73	102	189	284	284
19	40	59	72	101	189	283	283
20	39	59	72	101	188	283	283
21	39	59	72	101	188	283	283
22	39	59	71	100	188	282	282
23	38	58	71	100	187	282	282
24	38	57	70	99	187	281	281
25	37	57	70	99	186	280	280
26	36	56	69	98	185	280	280
27	36	55	68	97	185	279	279
28	35	55	70	97	184	278	278

29	34	54	72	96	183	278	278
30	33	53	75	95	182	277	277

3.11 Norwegian krone

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	27	40	46	68	188	297	3065
2	27	40	47	69	189	337	2285
3	26	40	48	73	182	351	1725
4	25	40	50	76	179	351	1333
5	25	41	53	77	178	342	1057
6	26	43	54	79	177	329	857
7	26	45	55	81	177	313	708
8	26	44	56	82	176	297	595
9	25	45	57	85	175	280	507
10	25	45	58	86	174	269	436
11	25	44	57	86	174	268	379
12	24	44	57	86	173	267	332
13	23	43	56	85	172	267	292
14	22	42	55	84	171	266	266
15	22	42	54	83	171	265	265
16	21	41	54	83	170	264	264
17	20	40	53	82	170	264	264
18	20	40	53	82	169	264	264
19	20	40	53	82	169	263	263
20	20	40	53	82	169	263	263
21	20	40	53	82	169	263	263
22	20	40	56	82	169	263	263

23	20	40	58	82	169	263	263
24	20	39	60	81	169	263	263
25	19	39	62	81	168	263	263
26	19	39	65	81	168	263	263
27	19	39	67	81	168	262	262
28	19	38	70	80	168	262	262
29	18	38	72	80	167	262	262
30	18	38	74	80	167	261	261

3.12 Swiss franc

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	0	3	24	144	293	3016
2	0	1	6	25	145	331	2244
3	1	1	8	30	140	345	1693
4	1	3	11	34	137	344	1308
5	1	4	14	36	137	336	1036
6	2	4	16	39	137	323	840
7	2	5	19	41	137	308	695
8	2	6	22	43	137	291	584
9	2	7	23	46	137	275	497
10	4	8	26	48	137	259	428
11	4	9	29	50	138	243	371
12	4	9	30	49	137	231	325
13	4	10	33	50	138	232	286
14	4	11	36	50	137	232	253
15	5	12	38	49	136	231	231
16	6	12	40	48	135	230	230

17	6	14	42	49	135	230	230
18	6	14	45	50	135	230	230
19	7	15	47	53	136	230	230
20	7	16	49	54	136	231	231
21	7	17	51	56	137	231	231
22	7	17	54	59	137	231	231
23	8	19	57	60	137	231	231
24	8	19	58	62	136	231	231
25	8	20	61	64	136	231	231
26	9	21	63	66	136	231	231
27	9	22	66	68	136	230	230
28	10	22	68	70	136	230	230
29	10	24	70	72	136	230	230
30	10	24	73	74	136	230	230

3.13 Australian dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	42	55	61	83	203	300	3055
2	42	55	61	83	203	336	2276
3	41	55	63	88	197	349	1718
4	40	55	65	91	194	349	1327
5	40	56	68	92	193	341	1052
6	40	57	69	94	192	328	853
7	41	59	70	95	191	312	706
8	40	59	70	96	190	296	593
9	39	59	71	99	189	283	505
10	39	59	71	100	188	283	435

11	38	58	71	100	187	282	378
12	37	57	70	99	186	281	331
13	37	57	70	98	186	280	292
14	36	56	69	98	185	280	280
15	35	55	68	97	185	279	279
16	35	54	67	96	184	278	278
17	34	54	67	96	183	278	278
18	34	53	66	95	183	277	277
19	33	53	66	95	182	277	277
20	33	53	66	95	182	276	276
21	33	53	65	94	182	276	276
22	32	52	65	94	181	276	276
23	32	52	65	93	181	275	275
24	31	51	64	93	180	275	275
25	31	50	63	92	180	274	274
26	30	50	64	92	179	273	273
27	29	49	67	91	178	273	273
28	28	48	69	90	178	272	272
29	28	48	72	90	177	271	271
30	27	47	74	89	176	271	271

3.14 Baht

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	12	25	32	54	174	297	3058
2	16	29	36	58	178	336	2277
3	19	33	41	66	175	350	1719
4	21	36	46	72	175	350	1330

5	23	39	51	75	176	342	1055
6	23	40	51	76	174	329	856
7	28	46	57	82	178	313	708
8	27	45	57	83	177	297	595
9	28	47	59	87	177	280	507
10	29	49	62	90	179	273	437
11	31	50	63	92	180	274	379
12	31	51	64	93	180	275	332
13	32	51	64	93	181	275	293
14	32	52	65	94	181	275	275
15	32	52	65	94	181	275	275
16	31	51	64	93	180	275	275
17	31	51	64	93	180	275	275
18	31	51	64	93	180	274	274
19	30	50	63	92	179	274	274
20	30	50	63	92	179	274	274
21	30	50	63	92	179	274	274
22	30	50	63	92	179	274	274
23	30	50	63	92	179	273	273
24	29	49	62	91	178	273	273
25	29	49	62	91	178	272	272
26	28	48	65	90	178	272	272
27	28	48	67	90	177	271	271
28	27	47	70	89	176	271	271
29	27	47	72	89	176	270	270
30	26	46	74	88	175	270	270

3.15 Canadian dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	12	25	31	53	173	298	3069
2	13	26	33	55	174	337	2287
3	13	27	36	60	170	351	1727
4	14	29	39	65	168	351	1334
5	15	31	42	67	168	342	1057
6	16	33	45	70	168	329	857
7	18	36	47	72	168	314	709
8	18	36	48	74	168	297	596
9	18	37	49	77	168	280	507
10	19	38	51	79	168	264	436
11	19	39	52	80	168	262	379
12	19	39	52	81	168	262	332
13	19	39	52	81	168	263	292
14	19	39	52	81	168	263	263
15	19	39	52	81	168	263	263
16	19	39	52	81	168	262	262
17	19	39	52	81	168	262	262
18	19	39	52	81	168	262	262
19	19	39	52	81	168	262	262
20	19	39	52	81	168	262	262
21	19	39	53	81	168	262	262
22	19	39	55	80	168	262	262
23	18	38	57	80	167	262	262
24	18	38	59	80	167	261	261
25	17	37	62	79	166	261	261

26	17	37	64	79	166	260	260
27	17	36	67	78	166	260	260
28	16	36	69	78	165	260	260
29	16	36	72	77	165	259	259
30	15	35	74	77	164	259	259

3.16 Chilean peso

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	46	59	65	87	207	303	3053
2	49	61	68	90	210	335	2271
3	51	65	73	98	207	349	1714
4	52	67	77	103	206	349	1327
5	53	69	81	105	207	342	1055
6	55	72	84	109	207	330	858
7	57	75	86	111	207	315	712
8	56	75	86	113	206	301	600
9	56	76	88	116	206	301	512
10	57	76	89	118	206	300	442
11	57	76	89	118	206	300	385
12	56	76	89	118	205	299	337
13	55	75	88	117	204	299	299
14	54	74	87	116	203	298	298
15	54	73	86	115	203	297	297
16	53	73	86	114	202	296	296
17	52	72	85	114	201	295	295
18	51	71	84	113	200	295	295
19	51	71	83	112	200	294	294

20	50	70	83	112	199	294	294
21	49	69	82	111	198	293	293
22	48	68	81	110	198	292	292
23	48	68	80	109	197	291	291
24	47	67	79	108	196	290	290
25	46	66	79	108	195	289	289
26	45	65	78	107	194	288	288
27	44	64	77	106	193	287	287
28	43	63	76	105	192	287	287
29	42	62	75	104	191	286	286
30	41	61	76	103	190	285	285

3.17 Colombian peso

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	77	90	97	119	239	335	3143
2	82	95	101	123	243	348	2366
3	82	95	104	129	238	365	1798
4	81	96	106	132	235	367	1395
5	84	100	112	136	237	360	1110
6	86	103	115	140	238	348	904
7	88	106	117	142	238	333	751
8	89	108	119	146	239	334	635
9	90	109	121	149	240	334	544
10	91	110	123	151	240	334	470
11	90	110	123	152	239	334	410
12	89	109	122	151	239	333	360
13	88	108	121	150	237	332	332

14	87	107	120	149	236	330	330
15	85	105	118	147	234	329	329
16	84	104	117	146	233	328	328
17	83	103	115	144	232	326	326
18	81	101	114	143	230	325	325
19	80	100	113	142	229	323	323
20	79	99	111	140	228	322	322
21	77	97	110	139	226	321	321
22	76	96	109	137	225	319	319
23	74	94	107	136	223	318	318
24	73	92	105	134	222	316	316
25	71	91	104	133	220	314	314
26	69	89	102	131	218	313	313
27	68	88	100	129	217	311	311
28	66	86	99	128	215	310	310
29	65	85	97	126	214	308	308
30	63	83	96	125	212	307	307

3.18 Hong Kong dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	6	19	25	47	167	298	3073
2	9	22	28	50	170	337	2287
3	10	24	33	57	167	351	1725
4	12	27	37	63	166	350	1333
5	14	30	42	66	167	342	1056
6	16	33	45	70	168	329	856
7	18	36	47	72	168	313	708

8	18	37	48	74	168	296	595
9	18	38	50	77	168	280	506
10	19	38	51	79	168	263	436
11	19	39	51	80	168	262	378
12	18	38	51	80	167	262	331
13	18	38	51	80	167	261	291
14	17	37	50	79	166	261	261
15	16	36	49	78	165	260	260
16	16	35	48	77	165	259	259
17	15	35	48	77	164	259	259
18	15	35	48	77	164	258	258
19	15	35	48	76	164	258	258
20	15	35	50	77	164	258	258
21	15	35	53	77	164	258	258
22	15	35	55	77	164	258	258
23	15	35	57	77	164	258	258
24	15	35	60	77	164	258	258
25	15	35	62	76	164	258	258
26	14	34	65	76	164	258	258
27	14	34	67	76	163	258	258
28	14	34	69	76	163	258	258
29	14	34	72	76	163	257	257
30	14	34	74	75	163	257	257

3.19 Indian rupee

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	91	104	110	132	252	348	3225

2	91	104	111	133	253	355	2418
3	91	104	113	138	247	372	1834
4	90	105	116	141	245	373	1423
5	91	107	119	143	244	365	1131
6	92	109	120	145	243	352	919
7	93	111	122	147	243	337	761
8	93	111	123	149	243	337	640
9	92	111	123	151	242	336	546
10	91	111	123	152	240	335	470
11	90	109	122	151	239	333	408
12	88	108	120	149	237	331	357
13	86	106	119	148	235	329	329
14	84	104	117	146	233	327	327
15	82	102	115	144	231	326	326
16	80	100	113	142	229	324	324
17	79	98	111	140	228	322	322
18	77	97	110	139	226	321	321
19	76	96	108	137	225	319	319
20	75	95	107	136	224	318	318
21	74	93	106	135	223	317	317
22	72	92	105	134	221	316	316
23	71	91	104	133	220	315	315
24	70	90	103	132	219	314	314
25	69	89	102	131	218	312	312
26	68	88	100	129	217	311	311
27	66	86	99	128	216	310	310
28	65	85	98	127	214	309	309

29	64	84	97	126	213	308	308
30	63	83	96	125	212	307	307

3.20 Mexican peso

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	326	339	345	367	487	583	3266
2	79	92	98	120	240	356	2433
3	81	94	103	128	237	372	1838
4	83	98	108	134	237	372	1422
5	85	101	112	137	238	363	1128
6	87	104	115	140	239	350	916
7	89	107	118	143	239	335	758
8	90	108	120	146	240	334	638
9	90	109	121	149	240	334	544
10	90	110	123	151	240	334	468
11	90	110	123	152	239	334	407
12	90	110	123	152	240	334	357
13	91	111	124	153	240	334	334
14	91	111	124	153	240	335	335
15	92	112	125	154	241	336	336
16	93	113	126	155	242	336	336
17	94	114	127	156	243	337	337
18	95	115	128	157	244	338	338
19	96	116	129	158	245	339	339
20	96	116	129	158	245	340	340
21	96	116	129	158	245	340	340
22	96	116	129	158	245	340	340

23	95	115	128	157	245	339	339
24	95	115	127	156	244	338	338
25	94	113	126	155	243	337	337
26	92	112	125	154	241	336	336
27	91	111	124	153	240	335	335
28	90	110	122	151	239	333	333
29	88	108	121	150	237	332	332
30	87	107	120	149	236	330	330

3.21 New Taiwan dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	6	12	35	154	296	3055
2	0	6	12	34	154	335	2275
3	1	6	14	39	149	349	1717
4	1	6	17	42	145	349	1326
5	1	7	19	43	145	340	1050
6	2	9	21	46	144	327	851
7	2	11	22	47	143	311	704
8	2	11	22	49	142	295	591
9	2	11	24	51	141	278	503
10	4	11	26	52	141	261	433
11	4	11	29	53	141	245	376
12	4	11	32	53	141	235	329
13	4	12	33	53	141	235	290
14	4	12	36	54	141	235	257
15	5	12	39	54	141	236	236
16	6	12	40	54	141	236	236

17	6	14	43	54	142	236	236
18	6	14	46	55	142	237	237
19	7	15	48	55	143	237	237
20	7	16	50	56	144	238	238
21	7	17	53	57	144	239	239
22	8	17	55	60	145	240	240
23	8	19	57	62	146	240	240
24	8	20	60	64	146	241	241
25	9	20	62	65	147	241	241
26	9	22	65	67	147	241	241
27	9	22	67	69	147	242	242
28	10	23	69	71	148	242	242
29	10	24	72	73	148	242	242
30	10	24	74	74	148	243	243

3.22 New Zealand dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	48	61	67	89	209	306	3054
2	49	62	68	90	210	335	2273
3	48	62	70	95	204	349	1715
4	47	62	72	98	201	348	1325
5	47	63	75	99	200	340	1050
6	48	65	77	102	200	327	852
7	48	67	77	102	199	312	704
8	48	67	78	105	198	295	592
9	48	67	79	107	197	292	504
10	47	66	79	108	196	290	434

11	45	65	78	107	195	289	377
12	44	64	77	106	193	287	330
13	43	62	75	104	192	286	291
14	41	61	74	103	190	285	285
15	40	60	73	101	189	283	283
16	38	58	71	100	187	282	282
17	37	57	70	99	186	281	281
18	36	56	69	98	185	280	280
19	35	55	68	97	184	279	279
20	35	55	67	96	184	278	278
21	34	54	67	96	183	278	278
22	34	53	66	95	183	277	277
23	33	53	66	95	182	276	276
24	32	52	65	94	181	276	276
25	31	51	64	93	180	275	275
26	31	51	65	92	180	274	274
27	30	50	67	92	179	274	274
28	29	49	69	91	178	273	273
29	29	49	72	90	178	272	272
30	28	48	74	90	177	272	272

3.23 Rand

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	111	124	131	153	273	369	3220
2	112	125	132	154	274	370	2404
3	113	127	136	160	270	369	1822
4	114	129	139	165	268	371	1415

5	115	131	143	167	268	364	1127
6	117	134	145	170	268	363	919
7	118	136	147	172	268	362	763
8	117	136	147	174	267	362	644
9	117	136	148	176	266	361	550
10	116	136	149	177	266	360	475
11	115	135	148	177	264	359	414
12	114	133	146	175	263	357	363
13	112	132	144	173	261	355	355
14	110	130	142	171	259	353	353
15	108	127	140	169	257	351	351
16	105	125	138	167	254	349	349
17	103	123	136	165	252	346	346
18	101	121	134	163	250	344	344
19	99	119	132	161	248	342	342
20	97	117	130	159	246	341	341
21	95	115	128	157	244	339	339
22	94	113	126	155	243	337	337
23	92	112	125	153	241	335	335
24	90	110	123	152	239	333	333
25	88	108	121	150	237	332	332
26	86	106	119	148	235	330	330
27	85	104	117	146	234	328	328
28	83	103	116	145	232	326	326
29	81	101	114	143	230	325	325
30	80	99	112	141	229	323	323

3.24 Real

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	164	177	184	206	326	422	3161
2	174	187	193	215	335	431	2387
3	178	192	200	225	334	431	1822
4	179	194	204	230	333	428	1419
5	180	196	208	232	333	428	1131
6	180	197	209	234	332	426	921
7	181	199	210	235	331	425	764
8	179	198	209	236	329	424	643
9	178	198	210	237	328	422	549
10	177	197	210	238	327	421	473
11	176	196	208	237	325	419	419
12	173	193	206	235	322	417	417
13	170	190	203	232	319	414	414
14	167	187	200	229	316	411	411
15	164	184	197	226	313	408	408
16	161	181	194	223	310	405	405
17	158	178	191	220	307	402	402
18	155	175	188	217	304	399	399
19	152	172	185	214	301	396	396
20	149	169	182	211	298	393	393
21	146	166	179	208	295	390	390
22	143	163	176	205	292	387	387
23	140	160	173	202	289	383	383
24	137	157	170	199	286	380	380
25	134	154	167	195	283	377	377

26	131	151	164	192	280	374	374
27	128	148	161	190	277	371	371
28	125	145	158	187	274	368	368
29	122	142	155	184	271	366	366
30	120	139	152	181	269	363	363

3.25 Renminbi-yuan

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	26	39	45	67	187	304	3144
2	27	40	46	68	188	345	2343
3	26	40	49	73	183	359	1769
4	26	41	51	77	180	359	1367
5	27	42	54	78	180	350	1084
6	27	44	56	81	179	337	879
7	28	46	57	82	178	321	727
8	27	46	57	84	177	304	611
9	26	46	58	86	176	287	520
10	26	46	59	87	175	270	448
11	26	45	58	87	175	269	389
12	25	45	58	87	174	268	340
13	24	44	57	86	173	268	300
14	24	44	57	86	173	267	267
15	24	44	56	85	173	267	267
16	24	43	56	85	173	267	267
17	23	43	56	85	172	267	267
18	23	43	56	85	173	267	267
19	24	43	56	85	173	267	267

20	24	44	56	85	173	267	267
21	24	44	56	85	173	267	267
22	24	44	57	85	173	267	267
23	23	43	59	85	172	267	267
24	23	43	61	85	172	267	267
25	23	43	64	85	172	266	266
26	23	43	66	84	172	266	266
27	22	42	69	84	171	266	266
28	22	42	71	84	171	266	266
29	22	42	73	83	171	265	265
30	21	41	77	83	170	265	265

3.26 Ringgit

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	23	36	43	65	185	304	3136
2	25	38	44	66	186	344	2341
3	26	40	48	73	182	359	1769
4	27	42	52	78	181	359	1368
5	29	45	56	80	182	351	1085
6	30	47	59	84	182	338	881
7	32	50	61	86	182	322	729
8	32	51	62	89	182	305	613
9	33	52	64	92	182	288	522
10	33	53	66	94	183	277	449
11	34	54	67	96	183	278	390
12	34	54	67	96	183	278	342
13	34	54	67	96	183	278	301

14	34	54	67	96	183	277	277
15	34	54	67	95	183	277	277
16	33	53	66	95	182	277	277
17	33	53	66	95	182	277	277
18	33	53	66	95	182	277	277
19	33	53	66	95	182	277	277
20	34	54	67	95	183	277	277
21	34	54	67	96	183	277	277
22	34	54	67	96	183	277	277
23	34	53	66	95	183	277	277
24	33	53	66	95	182	277	277
25	33	53	66	95	182	276	276
26	32	52	67	94	181	276	276
27	32	52	70	94	181	275	275
28	31	51	72	93	180	275	275
29	31	51	75	92	180	274	274
30	30	50	77	92	179	274	274

3.27 Russian rouble

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	122	134	141	163	283	379	3254
2	120	133	140	162	282	378	2433
3	119	132	141	166	275	373	1842
4	118	133	143	169	272	373	1426
5	118	134	146	170	271	365	1131
6	118	135	146	171	269	364	919
7	118	136	147	172	268	363	760

8	118	136	148	174	268	362	639
9	117	136	148	176	266	361	545
10	116	136	149	177	266	360	469
11	116	136	149	177	265	359	407
12	115	135	147	176	264	358	358
13	113	133	146	175	262	357	357
14	112	132	145	174	261	356	356
15	110	130	143	172	259	353	353
16	108	128	141	170	257	351	351
17	105	125	138	167	254	349	349
18	103	123	136	165	252	346	346
19	101	121	134	163	250	344	344
20	99	119	131	160	248	342	342
21	96	116	129	158	245	340	340
22	94	114	127	156	243	338	338
23	92	112	125	154	241	335	335
24	90	110	123	152	239	333	333
25	88	108	120	149	237	331	331
26	85	105	118	147	235	329	329
27	83	103	116	145	232	327	327
28	81	101	114	143	230	325	325
29	79	99	112	141	228	323	323
30	77	97	110	139	226	321	321

3.28 Singapore dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	7	13	35	155	296	3051

2	0	9	15	37	157	335	2273
3	1	10	19	44	153	349	1716
4	1	13	23	48	152	349	1326
5	1	15	27	51	153	340	1051
6	2	18	30	55	153	327	853
7	3	21	32	57	153	312	705
8	3	22	33	60	153	296	593
9	3	23	35	63	153	279	505
10	4	23	36	65	153	262	434
11	4	24	36	65	153	247	377
12	4	23	36	65	152	247	330
13	4	23	36	65	152	247	290
14	4	23	36	65	152	246	257
15	5	23	39	65	152	246	246
16	6	22	40	64	151	246	246
17	6	22	43	64	151	246	246
18	6	22	46	64	151	246	246
19	7	22	48	64	152	246	246
20	7	23	50	65	152	247	247
21	7	23	53	65	153	247	247
22	8	24	54	66	153	247	247
23	8	24	57	66	153	248	248
24	8	24	59	66	153	248	248
25	9	24	62	66	154	248	248
26	9	25	64	67	154	248	248
27	9	25	67	69	154	248	248
28	10	25	69	71	154	248	248

29	10	25	72	72	154	248	248
30	10	25	74	74	154	248	248

3.29 South Korean won

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	31	44	50	73	192	298	3074
2	31	44	51	73	193	337	2289
3	30	44	52	77	186	351	1728
4	29	44	54	80	183	351	1335
5	29	44	56	80	182	342	1057
6	31	48	60	85	183	329	857
7	29	47	58	83	179	313	708
8	33	52	63	89	183	296	595
9	32	51	63	91	182	280	506
10	27	47	59	88	176	271	435
11	23	42	55	84	172	266	378
12	19	39	52	81	168	263	330
13	17	37	50	79	166	260	291
14	15	35	48	77	164	258	258
15	13	33	46	75	162	257	257
16	12	32	45	74	161	255	255
17	11	31	44	73	160	255	255
18	10	30	46	72	159	254	254
19	10	30	47	72	159	254	254
20	10	30	50	72	159	254	254
21	10	30	53	72	159	254	254
22	10	30	54	72	159	254	254

23	10	30	57	72	159	253	253
24	10	30	59	72	159	253	253
25	10	30	62	72	159	253	253
26	10	30	64	71	159	253	253
27	10	29	67	71	159	253	253
28	10	29	69	71	158	253	253
29	10	29	72	72	158	253	253
30	10	29	74	74	158	253	253

3.30 Turkish lira

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	196	209	215	237	357	454	3493
2	192	205	212	234	354	450	2628
3	187	201	209	234	343	440	1996
4	182	197	207	233	336	431	1549
5	178	194	206	230	331	426	1232
6	175	192	203	228	326	421	1003
7	172	190	201	226	322	416	832
8	167	186	197	224	317	412	702
9	163	183	195	223	313	407	600
10	159	179	192	220	309	403	518
11	156	175	188	217	305	399	450
12	151	171	184	213	301	395	395
13	148	167	180	209	297	391	391
14	144	164	176	205	293	387	387
15	140	160	173	202	289	384	384
16	137	157	169	198	286	380	380

17	133	153	166	195	283	377	377
18	130	150	163	192	279	374	374
19	128	147	160	189	277	371	371
20	125	145	158	187	274	368	368
21	122	142	155	184	271	366	366
22	119	139	152	181	268	363	363
23	117	137	149	178	266	360	360
24	114	134	147	176	263	358	358
25	112	131	144	173	261	355	355
26	109	129	142	171	258	353	353
27	107	127	139	168	256	350	350
28	104	124	137	166	253	348	348
29	102	122	135	164	251	346	346
30	100	120	133	162	249	343	343

3.31 US dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	15	26	52	172	297	3056
2	0	15	26	52	172	335	2274
3	1	17	28	57	169	349	1715
4	1	20	32	62	167	348	1325
5	2	23	37	67	168	340	1050
6	5	27	39	69	169	327	851
7	7	31	42	72	169	312	704
8	10	34	46	74	169	295	592
9	11	37	50	76	169	278	504
10	12	39	51	77	169	264	434

11	13	40	53	78	169	264	377
12	14	41	54	80	169	264	330
13	15	43	55	80	169	264	290
14	15	44	55	80	169	264	264
15	15	44	55	80	169	264	264
16	15	44	55	80	169	263	263
17	15	44	55	80	169	263	263
18	15	44	55	80	169	263	263
19	15	44	55	80	169	264	264
20	15	44	55	80	169	264	264
21	15	44	55	80	170	264	264
22	15	44	55	80	170	264	264
23	15	44	57	80	170	264	264
24	15	44	59	80	170	264	264
25	15	44	62	80	170	264	264
26	15	44	64	80	169	264	264
27	15	44	66	80	169	264	264
28	15	44	68	80	169	263	263
29	15	44	71	80	169	263	263
30	15	44	73	80	168	263	263

3.32 Yen

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	0	3	13	133	296	3047
2	0	1	6	14	132	334	2268
3	1	1	9	17	125	348	1711
4	1	3	11	19	121	347	1321

5	1	4	14	22	120	339	1046
6	2	4	16	25	120	326	848
7	2	6	19	27	120	310	701
8	2	6	22	30	120	293	589
9	2	7	24	31	120	277	501
10	4	8	26	34	120	260	431
11	4	9	29	36	120	244	374
12	4	9	31	38	120	229	327
13	4	10	33	41	120	215	288
14	4	11	36	43	120	215	255
15	5	12	38	44	121	215	227
16	6	12	40	47	121	215	215
17	6	14	43	49	121	216	216
18	6	14	45	51	122	216	216
19	7	15	47	53	122	217	217
20	7	16	50	54	123	217	217
21	7	17	52	57	123	218	218
22	7	17	54	59	124	218	218
23	8	19	57	60	126	218	218
24	8	19	59	62	128	219	219
25	8	20	61	64	129	219	219
26	9	21	63	66	130	219	219
27	9	22	66	68	131	219	219
28	10	22	68	70	132	219	219
29	10	24	70	72	133	219	219
30	10	24	73	74	135	219	219

ANNEX III

Volatility adjustment to the relevant risk-free interest rate term structure

Currency	National insurance market	Volatility adjustment (in bps)
Euro	Austria	19
Euro	Belgium	19
Euro	Cyprus	19
Euro	Estonia	19
Euro	Finland	19
Euro	France	19
Euro	Germany	19
Euro	Greece	19
Euro	Ireland	19
Euro	Italy	19
Euro	Latvia	19
Euro	Lithuania	19
Euro	Luxembourg	19
Euro	Malta	19
Euro	Netherlands	19
Euro	Portugal	19
Euro	Slovakia	19
Euro	Slovenia	19
Euro	Spain	19
Czech koruna	Czech Republic	13
Danish krone	Denmark	31
Forint	Hungary	5
Krona	Sweden	17
Kuna	Croatia	6
Lev	Bulgaria	11

Currency	National insurance market	Volatility adjustment (in bps)
Pound sterling	United Kingdom	27
Romanian leu	Romania	6
Zloty	Poland	9
Króna	Iceland	14
Norwegian krone	Norway	36
Swiss franc	Liechtenstein	15
Swiss franc	Switzerland	15
Australian dollar	Australia	10
Canadian dollar	Canada	29
Renminbi-yuan	China	54
Hong Kong dollar	Hong Kong	8
US dollar	United States	53
Yen	Japan	12

DECISIONS

COMMISSION IMPLEMENTING DECISION (EU) 2020/1146

of 31 July 2020

amending Implementing Decision (EU) 2019/1956 as regards harmonised standards for certain household appliances, thermal-links, equipment in cable networks for television signals, sound signals and interactive services, circuit breakers, arc quenching and welding, installation couplers intended for permanent connection in fixed installations, transformers, reactors, power supply units and combinations, electric vehicle conductive charging system, cable ties and management, control circuit devices, switching elements, emergency lighting, electronic circuits used with luminaires and discharge lamps

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) No 1025/2012 of the European Parliament and of the Council of 25 October 2012 on European standardisation, amending Council Directives 89/686/EEC and 93/15/EEC and Directives 94/9/EC, 94/25/EC, 95/16/EC, 97/23/EC, 98/34/EC, 2004/22/EC, 2007/23/EC, 2009/23/EC and 2009/105/EC of the European Parliament and of the Council and repealing Council Decision 87/95/EEC and Decision No 1673/2006/EC of the European Parliament and of the Council ⁽¹⁾, and in particular Article 10(6) thereof,

Whereas:

- (1) In accordance with Article 12 of Directive 2014/35/EU of the European Parliament and of the Council ⁽²⁾, electrical equipment which is in conformity with harmonised standards or parts thereof, the references of which have been published in the *Official Journal of the European Union*, is to be presumed to be in conformity with the safety objectives referred to in Article 3 of that Directive and set out in Annex I to that Directive, covered by those harmonised standards or parts thereof.
- (2) By letter M/511 of 8 November 2012, the Commission made a request to the European Committee for Standardisation (CEN), the European Committee for Electrotechnical Standardisation (Cenelec) and the European Telecommunications Standards Institute (ETSI) for providing the first full list of the titles of harmonised standards and for the drafting, revision and the completion of harmonised standards, for electrical equipment designed for use within certain voltage limits in support of Directive 2014/35/EU. The safety objectives referred to in Article 3 of Directive 2014/35/EU and set out in Annex I to that Directive have not changed since the request was made to CEN, Cenelec and ETSI.
- (3) On the basis of the request M/511, CEN and Cenelec drafted the following harmonised standards and an amendment thereto: EN 50620:2017 and EN 50620:2017/A1:2019 for charging cables for electric vehicles; EN IEC 60947-9-1:2019 for arc quenching; and EN 61643-31:2019 for low voltage surge protective device.
- (4) On the basis of the request M/511, CEN and Cenelec revised the following standards, the references of which are published in the C series of the *Official Journal of the European Union* by Commission Communication (2018/C326/02) ⁽³⁾: EN 60691:2003; EN -11:2010; EN 60934:2001; EN 60974-2:2013; EN 60974-3:2014; EN 60974-5:2013; EN 60974-7:2013; EN 61535:2009; EN 61558-1:2005; EN 61851-1:2011; and EN 62275:2015. This resulted in adoption of, respectively, the following harmonised standards and amendments thereto: EN

⁽¹⁾ OJ L 316, 14.11.2012, p. 12.

⁽²⁾ Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits (OJ L 96, 29.3.2014, p. 357).

⁽³⁾ Commission Communication (2018/C 326/02) in the framework of the implementation of Directive 2014/35/EU of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits (OJ C 326, 14.9.2018, p. 4).

60691:2016 and EN 60691:2016/A1:2019, for thermal-links; EN 60728-11:2017 and EN 60728-11:2017/A11:2018, for equipment in cable networks for television signals, sound signals and interactive services; EN IEC 60934:2019 for circuit breakers for equipment (CBE); EN IEC 60947-9-1:2019 for arc quenching; EN IEC 60974-2:2019, EN IEC 60974-3:2019, EN IEC 60974-5:2019 and EN IEC 60974-7:2019, for arc welding; EN IEC 61535:2019 installation couplers intended for permanent connection in fixed installations; EN IEC 61558-1:2019 for transformers, reactors, power supply units and combinations thereof; EN IEC 61851-1:2019 for electric vehicle conductive charging system; and EN IEC 62275:2019 for cable ties in electrical installations.

- (5) On the basis of the request M/511, CEN and Cenelec amended the following standards, the references of which are included in Annex I to Commission Implementing Decision (EU) 2019/1956^(*): EN 60335-1:2012; and EN 60335-2-4:2010. This resulted in adoption of, respectively, the following amending harmonised standards: EN 60335-1:2012/A1:2019, EN 60335-1:2012/A2:2019 and EN 60335-1:2012/A14:2019 for household and similar electrical appliances; and EN 60335-2-4:2010/A2:2019 for spin extractors. CEN and Cenelec also amended the following standards, the references of which are published in the C series of the *Official Journal of the European Union* by Communication (2018/C 326/02): EN 60335-2-5:2015; EN 60335-2-7:2010; EN 60335-2-12:2003; EN 60335-2-13:2010; EN 60335-2-17:2013; EN 60335-2-35:2016; EN 60335-2-47:2003; EN 60335-2-48:2003; EN 60335-2-49:2003; EN 60335-2-52:2003; EN 60335-2-61:2003; EN 60335-2-66:2003; EN 60335-2-84:2003; EN 60335-2-87:2002; EN 60335-2-98:2003; EN 60947-5-4:2003; EN 61347-2-7:2012; EN 61347-2-11:2001; EN 61386-1:2008; and EN 62035:2014. This resulted in adoption of, respectively, the following amending harmonised standards: EN 60335-2-5:2015/A11:2019 for dishwashers; EN 60335-2-7:2010/A2:2019 for washing machines; EN 60335-2-12:2003/A2:201 and EN 60335-2-12:2003/A11:2019, for warming plates and similar appliances; EN 60335-2-13:2010/A1:2019 for deep fat fryers, frying pans and similar appliances; EN 60335-2-17:2013/A11:2019 for blankets, pads, clothing and similar flexible heating appliance; EN 60335-2-35:2016/A1:2019 for instantaneous water heaters; EN 60335-2-47:2003/A2:2019 for commercial electric boiling pans; EN 60335-2-48:2003/A2:2019 for commercial electric grillers and toasters; EN 60335-2-49:2003/A2:2019 for commercial electric appliances for keeping food and crockery warm; EN 60335-2-52:2003/A12:2019 for oral hygiene appliances; EN 60335-2-61:2003/A11:2019 for thermal-storage room heaters; EN 60335-2-66:2003/A11:2019 for water-bed heaters; EN 60335-2-84:2003/A2:2019 for toilets; EN 60335-2-87:2002/A2:2019 for electrical animal-stunning equipment; EN 60335-2-98:2003/A11:2019 for humidifiers; EN 60947-5-4:2003/A1:2019 for control circuit devices and switching elements; EN 61347-2-7:2012/A1:2019 for emergency lighting; EN 61347-2-11:2001/A1:2019 for miscellaneous electronic circuits used with luminaires; EN 61386-1:2008/A1:2019 for cable management; and EN 62035:2014/A1:2019 for discharge lamps.
- (6) The Commission, together with CEN and Cenelec, has assessed whether those harmonised standards and amendments thereto comply with the request M/511.
- (7) Harmonised standards EN 50620:2017 as amended by EN 50620:2017/A1:2019, EN IEC 60947-9-1:2019, EN 61643-31:2019, EN 60691:2003, EN 60728-11:2010, EN 60934:2001, EN 60974-2:2013, EN 60974-3:2014, EN 60974-5:2013, EN 60974-7:2013, EN 61535:2009, EN 61558-1:2005, EN 61851-1:2011, EN 62275:2015, EN 669-1:2018, EN 60335-1:2012 as amended by EN 60335-1:2012/A1:2019, EN 60335-1:2012/A2:2019 and EN 60335-1:2012/A14:2019, EN 60335-2-4:2010 as amended by EN 60335-2-4:2010/A2:2019, EN 60335-2-5:2015 as amended by EN 60335-2-5:2015/A11:2019, EN 60335-2-7:2010 as amended by EN 60335-2-7:2010/A2:2019, EN 60335-2-12:2003 as amended by EN 60335-2-12:2003/A11:2019, EN 60335-2-13:2010 as amended by EN 60335-2-13:2010/A1:2019, EN 60335-2-17:2013 as amended by EN 60335-2-17:2013/A11:2019, EN 60335-2-35:2016 as amended by EN 60335-2-35:2016/A1:2019, EN 60335-2-47:2003 as amended by EN 60335-2-47:2003/A2:2019, EN 60335-2-48:2003 as amended by EN 60335-2-48:2003/A2:2019, EN 60335-2-49:2003 as amended by EN 60335-2-49:2003/A2:2019, EN 60335-2-52:2003 as amended by EN 60335-2-52:2003/A12:2019, EN 60335-2-61:2003 as amended by EN 60335-2-61:2003/A11:2019, EN 60335-2-66:2003 as amended by EN 60335-2-66:2003/A11:2019, EN 60335-2-84:2003 as amended by EN 60335-2-47:2003/A2:2019, EN 60335-2-87:2002 as amended by EN 60335-2-87:2002/A2:2019, EN 60335-2-98:2003 as amended by EN 60335-2-98:2003/A11:2019, EN 60947-5-4:2003 as amended by EN 60947-5-4:2003/A1:2019, EN 61347-2-7:2012 as amended by EN 61347-2-11:2001, EN 61386-1:2008 as amended by EN 61386-1:2008/A1:2019, and EN 62035:2014 as amended by EN 62035:2014/A1:2019, and as amended or corrected by any other standards references of which are published in the *Official Journal of the European Union*, satisfy the safety objectives which they aim to cover and which are set out in Directive 2014/35/EU. It is therefore appropriate to publish the references of those standards in the *Official Journal of the European Union*, together with references of any relevant amending or correcting standards thereto.

(*) Commission Implementing Decision (EU) 2019/1956 of 26 November 2019 on the harmonised standards for electrical equipment designed for use within certain voltage limits and drafted in support of Directive 2014/35/EU of the European Parliament and of the Council (OJ L 306, 27.11.2019, p. 26).

- (8) Implementing Decision (EU) 2019/1956 provides in Annex I the references of harmonised standards conferring a presumption of conformity with Directive 2014/35/EU. In order to ensure that the references of harmonised standards drafted in support of Directive 2014/35/EU are listed in one act, the references of those standards should be included in Implementing Decision (EU) 2019/1956.
- (9) CEN and Cenelec also drafted the following corrigenda which introduce technical corrections to the following existing standards the references of which are published in the C series of the *Official Journal of the European Union* by Communication (2018/C 326/02): EN 60669-1:2018/AC:2018-11 correcting harmonised standard EN 60669-1:2018 for switches for household and similar fixed electrical installations; EN 61439-3:2012/AC:2019-04 correcting harmonised standard EN 61439-3:2012 for distribution boards intended to be operated by ordinary persons (DBO); EN 61557-9:2015/AC:2017-02 correcting harmonised standard EN 61557-9:2015 for equipment for insulation fault location in IT systems; and EN 62026-3:2015/AC:2019-12 correcting harmonised standard EN 62026-3:2015 for controller-device interfaces (CDIs) DeviceNets. In order to ensure correct and consistent application of harmonised standards the references of which have been published, it is appropriate to include the references of those harmonised standards together with the references of the corrigenda in Implementing Decision (EU) 2019/1956 which provides in its Annex I the references of harmonised standards conferring a presumption of conformity with Directive 2014/35/EU.
- (10) It is therefore necessary to withdraw the references of the following harmonised standards, from the C series of the *Official Journal of the European Union*, given that they have been revised, amended or corrected, together with the references of any amending or correcting standards thereto published in the *Official Journal of the European Union*: EN 60691:2003, EN 60728-11:2010, EN 60934:2001, EN 60974-2:2013, EN 60974-3:2014, EN 60974-5:2013, EN 60974-7:2013, EN 61535:2009, EN 61558-1:2005, EN 61851-1:2011, EN 62275:2015, EN 669-1:2018, EN 61439-3:2012, EN 61557-9:2015, EN 62026-3:2015, EN 60335-1:2012, EN 60335-2-4:2010, EN 60335-2-5:2015, EN 60335-2-7:2010, EN 60335-2-12:2003, EN 60335-2-13:2010, EN 60335-2-17:2013, EN 60335-2-35:2016, EN 60335-2-47:2003, EN 60335-2-48:2003, EN 60335-2-49:2003, EN 60335-2-52:2003, EN 60335-2-61:2003, EN 60335-2-66:2003, EN 60335-2-84:2003, EN 60335-2-87:2002, EN 60335-2-98:2003, EN 60669-1:2018, EN 60947-5-4:2003, EN 61347-2-7:2012, EN 61347-2-11:2001, EN 61386-1:2008 and EN 62035:2014. Annex II to Implementing Decision (EU) 2019/1956 lists the references of harmonised standards drafted in support of Directive 2014/35/EU that are withdrawn from the C series of the *Official Journal of the European Union*. It is therefore appropriate to include those references in that Annex.
- (11) It is also necessary to withdraw the references of harmonised standards EN 60335-1:2012 and EN 60335-2-4:2010 together with the references of any amending or correcting standards thereto published in the *Official Journal of the European Union*, from the L series of the *Official Journal of the European Union*, given that they have been amended. It is therefore appropriate to delete those references from Annex I to Implementing Decision (EU) 2019/1956.
- (12) In order to give manufacturers sufficient time to prepare for application of harmonised standards EN 50620:2017, EN 50620:2017/A1:2019, EN IEC 60947-9-1:2019, EN 61643-31:2019, EN 60691:2003, EN 60728-11:2010, EN 60934:2001, EN 60974-2:2013, EN 60974-3:2014, EN 60974-5:2013, EN 60974-7:2013, EN 61535:2009, EN 61558-1:2005, EN 61851-1:2011, EN 62275:2015, EN 669-1:2018, EN 60335-1:2012 as amended by EN 60335-1:2012/A1:2019, EN 60335-1:2012/A2:2019 and EN 60335-1:2012/A14:2019, EN 60335-2-4:2010 as amended by EN 60335-2-4:2010/A2:2019, EN 60335-2-5:2015 as amended by EN 60335-2-5:2015/A11:2019, EN 60335-2-7:2010 as amended by EN 60335-2-7:2010/A2:2019, EN 60335-2-12:2003 as amended by EN 60335-2-12:2003/A11:2019, EN 60335-2-13:2010 as amended by EN 60335-2-13:2010/A1:2019, EN 60335-2-17:2013 as amended by EN 60335-2-17:2013/A11:2019, EN 60335-2-35:2016 as amended by EN 60335-2-35:2016/A1:2019, EN 60335-2-47:2003 as amended by EN 60335-2-47:2003/A2:2019, EN 60335-2-48:2003 as amended by EN 60335-2-48:2003/A2:2019, EN 60335-2-49:2003 as amended by EN 60335-2-49:2003/A2:2019, EN 60335-2-52:2003 as amended by EN 60335-2-52:2003/A12:2019, EN 60335-2-61:2003 as amended by EN 60335-2-61:2003/A11:2019, EN 60335-2-66:2003 as amended by EN 60335-2-66:2003/A11:2019, EN 60335-2-84:2003 as amended by EN 60335-2-47:2003/A2:2019, EN 60335-2-87:2002 as amended by EN 60335-2-87:2002/A2:2019, EN 60335-2-98:2003 as amended by EN 60335-2-98:2003/A11:2019, EN 60947-5-4:2003 as amended by EN 60947-5-4:2003/A1:2019, EN 61347-2-7:2012 as amended by EN 61347-2-11:2001, EN 61386-1:2008 as amended by EN 61386-1:2008/A1:2019, EN 62035:2014 as amended by EN 62035:2014/A1:2019, EN 61439-3:2012 as corrected by EN 61439-3:2012/AC:2019-04, EN 61557-9:2015 as corrected by EN 61557-9:2015/AC:2017-02, EN 62026-3:2015 as corrected by EN 62026-3:2015/AC:2019-12, and EN 60669-1:2018 as corrected by EN 60669-1:2018/AC:2018-11, and as amended or corrected by any other standards references of which are published in the *Official Journal of the European Union*, it is necessary to defer the withdrawal of references of harmonised standards EN 60335-1:2012,

EN 60335-2-4:2010, EN 60335-2-5:2015, EN 60335-2-7:2010, EN 60335-2-12:2003, EN 60335-2-13:2010, EN 60335-2-17:2013, EN 60335-2-35:2016, EN 60335-2-47:2003, EN 60335-2-48:2003, EN 60335-2-49:2003, EN 60335-2-52:2003, EN 60335-2-61:2003, EN 60335-2-66:2003, EN 60335-2-84:2003, EN 60335-2-87:2002, EN 60335-2-98:2003, EN 60669-1:2018, EN 60947-5-4:2003, EN 61347-2-7:2012, EN 61347-2-11:2001, EN 61386-1:2008 and EN 62035:2014, together with references of any amending or correcting standards thereto published in the *Official Journal of the European Union*.

- (13) Harmonised standard EN 50178:1997 was revised by CEN and Cenelec. This resulted in adoption of standard EN 62477-1:2012 and its amendment, EN 62477-1:2012/A11:2014. By Commission Communication (2016/C 249/03) ⁽³⁾, the references of standard EN 62477-1:2012 and of its amendment, EN 62477-1:2012/A11:2014, were published in the C series of the *Official Journal of the European Union* and the reference of standard EN 50178:1997 was included in the column of superseded standards without however indicating a transitional date of cessation of presumption of conformity. In that communication the reference of standard EN 50178:1997 also appeared in the column of published standards. Communication (2018/C 326/02) published both, references of standard EN 62477-1:2012 and of its amendment, EN 62477-1:2012/A11:2014, and of standard EN 50178:1997, without indicating that standard EN 50178:1997 was superseded. Given uncertainty as to the withdrawal of the reference of standard EN 50178:1997 from the C series of the *Official Journal of the European Union* it is necessary to include the reference of EN 50178:1997 in Annex II to Implementing Decision (EU) 2019/1956 which lists the references of harmonised standards drafted in support of Directive 2014/35/EU that are withdrawn from the C series.
- (14) Implementing Decision (EU) 2019/1956 should therefore be amended accordingly.
- (15) Compliance with a harmonised standard confers a presumption of conformity with the corresponding essential requirements, including the safety objectives, set out in Union harmonisation legislation from the date of publication of the reference of such standard in the *Official Journal of the European Union*. This Decision should therefore enter into force on the day of its publication,

HAS ADOPTED THIS DECISION:

Article 1

Annex I to Implementing Decision (EU) 2020/1956 is amended in accordance with Annex I to this Decision.

Article 2

Annex II to Implementing Decision (EU) 2020/1956 is amended in accordance with Annex II to this Decision.

Article 3

This Decision shall enter into force on the day of its publication in the *Official Journal of the European Union*.

Point (1) of Annex I shall apply from 3 February 2022.

Done at Brussels, 31 July 2020.

For the Commission
The President
Ursula VON DER LEYEN

⁽³⁾ Commission Communication (2016/C 249/03) in the framework of the implementation of Directive 2014/35/EU of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits (OJ C 249, 8.7.2016, p. 62).

ANNEX I

Annex I to Implementing Decision (EU) 2019/1956 is amended as follows:

(1) rows 2 and 3 are deleted;

(2) the following row 2a is inserted:

‘2a.	EN 60335-1:2012 Household and similar electrical appliances – Safety – Part 1: General requirements EN 60335-1:2012/A11:2014 EN 60335-1:2012/A13:2017 EN 60335-1:2012/A1:2019 EN 60335-1:2012/A2:2019 EN 60335-1:2012/A14:2019’
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(3) the following row 3a is inserted:

‘3a.	EN 60335-2-4:2010 Household and similar electrical appliances – Safety – Part 2-4: Particular requirements for spin extractors EN 60335-2-4:2010/A1:2015 EN 60335-2-4:2010/A11:2018 EN 60335-2-4:2010/A2:2019’
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(4) the following rows are added:

No	Reference of the standard
‘28.	EN 50620:2017 Electric cables – Charging cables for electric vehicles EN 50620:2017/A1:2019
29.	EN 60335-2-5:2015 Household and similar electrical appliances – Safety – Part 2-5: Particular requirements for dishwashers EN 60335-2-5:2015/A11:2019
30.	EN 60335-2-7:2010 Household and similar electrical appliances – Safety – Part 2-7: Particular requirements for washing machines EN 60335-2-7:2010/A1:2013 EN 60335-2-7:2010/A11:2013 EN 60335-2-7:2010/A2:2019
31.	EN 60335-2-12:2003 Household and similar electrical appliances – Safety – Part 2-12: Particular requirements for warming plates and similar appliances EN 60335-2-12:2003/A1:2008 EN 60335-2-12:2003/A2:2019 EN 60335-2-12:2003/A11:2019
32.	EN 60335-2-13:2010 Household and similar electrical appliances – Safety – Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances EN 60335-2-13:2010/A11:2012 EN 60335-2-13:2010/A1:2019

33.	EN 60335-2-17:2013 Household and similar electrical appliances – Safety – Part 2-17: Particular requirements for blankets, pads, clothing and similar flexible heating appliances EN 60335-2-17:2013/A11:2019
34.	EN 60335-2-35:2016 Household and similar electrical appliances – Safety – Part 2-35: Particular requirements for instantaneous water heaters EN 60335-2-35:2016/A1:2019
35.	EN 60335-2-47:2003 Household and similar electrical appliances – Safety – Part 2-47: Particular requirements for commercial electric boiling pans EN 60335-2-47:2003/AC:2007 EN 60335-2-47:2003/A1:2008 EN 60335-2-47:2003/A11:2012 EN 60335-2-47:2003/A2:2019
36.	EN 60335-2-48:2003 Household and similar electrical appliances – Safety – Part 2-48: Particular requirements for commercial electric grillers and toasters EN 60335-2-48:2003/AC:2007 EN 60335-2-48:2003/A1:2008 EN 60335-2-48:2003/A11:2012 EN 60335-2-48:2003/A2:2019
37.	EN 60335-2-49:2003 Household and similar electrical appliances – Safety – Part 2-49: Particular requirements for commercial electric appliances for keeping food and crockery warm EN 60335-2-49:2003/AC:2007 EN 60335-2-49:2003/A1:2008 EN 60335-2-49:2003/A11:2012 EN 60335-2-49:2003/A2:2019
38.	EN 60335-2-52:2003 Household and similar electrical appliances – Safety – Part 2-52: Particular requirements for oral hygiene appliances EN 60335-2-52:2003/A11:2010/AC:2012 EN 60335-2-52:2003/A1:2008 EN 60335-2-52:2003/A11:2010 EN 60335-2-52:2003/A12:2019
39.	EN 60335-2-61:2003 Household and similar electrical appliances – Safety – Part 2-61: Particular requirements for thermal-storage room heaters EN 60335-2-61:2003/A1:2005 EN 60335-2-61:2003/A2:2008 EN 60335-2-61:2003/A11:2019
40.	EN 60335-2-66:2003 Household and similar electrical appliances – Safety – Part 2-66: Particular requirements for water-bed heaters EN 60335-2-66:2003/A1:2008 EN 60335-2-66:2003/A2:2012 EN 60335-2-66:2003/A11:2019

41.	EN 60335-2-84:2003 Household and similar electrical appliances – Safety – Part 2-84: Particular requirements for toilets EN 60335-2-84:2003/A1:2008 EN 60335-2-84:2003/A2:2019
42.	EN 60335-2-87:2002 Household and similar electrical appliances – Safety – Part 2-87: Particular requirements for electrical animal-stunning equipment EN 60335-2-87:2002/A1:2007 EN 60335-2-87:2002/A2:2019
43.	EN 60335-2-98:2003 Household and similar electrical appliances – Safety – Part 2-98: Particular requirements for humidifiers EN 60335-2-98:2003/A1:2005 EN 60335-2-98:2003/A2:2008 EN 60335-2-98:2003/A11:2019
44.	EN 60669-1:2018 Switches for household and similar fixed electrical installations – Part 1: General requirements EN 60669-1:2018/AC:2018-11
45.	EN 60691:2016 Thermal-links – Requirements and application guide EN 60691:2016/A1:2019
46.	EN 60728-11:2017 Cable networks for television signals, sound signals and interactive services – Part 11: Safety EN 60728-11:2017/A11:2018
47.	EN IEC 60934:2019 Circuit breakers for equipment (CBE)
48.	EN 60947-5-4:2003 Low-voltage switchgear and controlgear – Part 5-4: Control circuit devices and switching elements – Method of assessing the performance of low-energy contacts – Special tests EN 60947-5-4:2003/A1:2019
49.	EN IEC 60947-9-1:2019 Low-voltage switchgear and controlgear – Part 9-1: Active arc-fault mitigation systems – Arc quenching devices
50.	EN IEC 60974-2:2019 Arc welding equipment – Part 2: Liquid cooling systems
51.	EN IEC 60974-3:2019 Arc welding equipment – Part 3: Arc striking and stabilizing devices
52.	EN IEC 60974-5:2019 Arc welding equipment – Part 5: Wire feeders
53.	EN IEC 60974-7:2019 Arc welding equipment – Part 7: Torches
54.	EN 61347-2-7:2012 Lamp controlgear – Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained) EN 61347-2-7:2012/A1:2019

55.	EN 61347-2-11:2001 Lamp controlgear – Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires EN 61347-2-11:2001/AC:2002 EN 61347-2-11:2001/AC:2010 EN 61347-2-11:2001/A1:2019
56.	EN 61386-1:2008 Conduit systems for cable management – Part 1: General requirements EN 61386-1:2008/A1:2019
57.	EN 61439-3:2012 Low-voltage switchgear and controlgear assemblies – Part 3: Distribution boards intended to be operated by ordinary persons (DBO) EN 61439-3:2012/AC:2019-04
58.	EN IEC 61535:2019 Installation couplers intended for permanent connection in fixed installations
59.	EN 61557-9:2015 Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 9: Equipment for insulation fault location in IT systems EN 61557-9:2015/AC:2017-02
60.	EN IEC 61558-1:2019 Safety of transformers, reactors, power supply units and combinations thereof – Part 1: General requirements and tests
61.	EN 61643-31:2019 Low-voltage surge protective devices – Part 31: Requirements and test methods for SPDs for photovoltaic installations
62.	EN IEC 61851-1:2019 Electric vehicle conductive charging system – Part 1: General requirements
63.	EN 62026-3:2015 Low-voltage switchgear and controlgear – Controller-device interfaces (CDIs) – Part 3: DeviceNet EN 62026-3:2015/AC:2019-12
64.	EN 62035:2014 Discharge lamps (excluding fluorescent lamps) – Safety specifications EN 62035:2014/A1:2019
65.	EN IEC 62275:2019 Cable management systems – Cable ties for electrical installations'

ANNEX II

In Annex II to Implementing Decision (EU) 2019/1956, the following rows are added:

No	Reference of the standard	Date of withdrawal
29.	EN 60335-2-5:2015 Household and similar electrical appliances – Safety – Part 2-5: Particular requirements for dishwashers	3 February 2022
30.	EN 60335-2-7:2010 Household and similar electrical appliances – Safety – Part 2-7: Particular requirements for washing machines EN 60335-2-7:2010/A1:2013 EN 60335-2-7:2010/A11:2013	3 February 2022
31.	EN 60335-2-12:2003 Household and similar electrical appliances – Safety – Part 2-12: Particular requirements for warming plates and similar appliances EN 60335-2-12:2003/A1:2008	3 February 2022
32.	EN 60335-2-13:2010 Household and similar electrical appliances – Safety – Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances EN 60335-2-13:2010/A11:2012	3 February 2022
33.	EN 60335-2-17:2013 Household and similar electrical appliances – Safety – Part 2-17: Particular requirements for blankets, pads, clothing and similar flexible heating appliances	3 February 2022
34.	EN 60335-2-35:2016 Household and similar electrical appliances – Safety – Part 2-35: Particular requirements for instantaneous water heaters	3 February 2022
35.	EN 60335-2-47:2003 Household and similar electrical appliances – Safety – Part 2-47: Particular requirements for commercial electric boiling pans EN 60335-2-47:2003/AC:2007 EN 60335-2-47:2003/A1:2008 EN 60335-2-47:2003/A11:2012	3 February 2022
36.	EN 60335-2-48:2003 Household and similar electrical appliances – Safety – Part 2-48: Particular requirements for commercial electric grillers and toasters EN 60335-2-48:2003/AC:2007 EN 60335-2-48:2003/A1:2008 EN 60335-2-48:2003/A11:2012	3 February 2022
37.	EN 60335-2-49:2003 Household and similar electrical appliances – Safety – Part 2-49: Particular requirements for commercial electric appliances for keeping food and crockery warm EN 60335-2-49:2003/AC:2007 EN 60335-2-49:2003/A1:2008 EN 60335-2-49:2003/A11:2012	3 February 2022

38.	EN 60335-2-52:2003 Household and similar electrical appliances – Safety – Part 2-52: Particular requirements for oral hygiene appliances EN 60335-2-52:2003/A11:2010/AC:2012 EN 60335-2-52:2003/A1:2008 EN 60335-2-52:2003/A11:2010	3 February 2022
39.	EN 60335-2-61:2003 Household and similar electrical appliances – Safety – Part 2-61: Particular requirements for thermal-storage room heaters EN 60335-2-61:2003/A1:2005 EN 60335-2-61:2003/A2:2008	3 February 2022
40.	EN 60335-2-66:2003 Household and similar electrical appliances – Safety – Part 2-66: Particular requirements for water-bed heaters EN 60335-2-66:2003/A1:2008 EN 60335-2-66:2003/A2:2012	3 February 2022
41.	EN 60335-2-84:2003 Household and similar electrical appliances – Safety – Part 2-84: Particular requirements for toilets EN 60335-2-84:2003/A1:2008	3 February 2022
42.	EN 60335-2-87:2002 Household and similar electrical appliances – Safety – Part 2-87: Particular requirements for electrical animal-stunning equipment EN 60335-2-87:2002/A1:2007	3 February 2022
43.	EN 60335-2-98:2003 Household and similar electrical appliances – Safety – Part 2-98: Particular requirements for humidifiers EN 60335-2-98:2003/A1:2005 EN 60335-2-98:2003/A2:2008	3 February 2022
44.	EN 60669-1:2018 Switches for household and similar fixed electrical installations – Part 1: General requirements	3 February 2021
45.	EN 60691:2003 Thermal-links – Requirements and application guide EN 60691:2003/A1:2007 EN 60691:2003/A2:2010	3 February 2022
46.	EN 60728-11:2010 Cable networks for television signals, sound signals and interactive services – Part 11: Safety	3 February 2022
47.	EN 60934:2001 Circuit-breakers for equipment (CBE) EN 60934:2001/A1:2007 EN 60934:2001/A2:2013	3 February 2022
48.	EN 60947-5-4:2003 Low-voltage switchgear and controlgear – Part 5-4: Control circuit devices and switching elements – Method of assessing the performance of low-energy contacts – Special tests	3 February 2022

49.	EN 60974-2:2013 Arc welding equipment – Part 2: Liquid cooling systems	3 February 2022
50.	EN 60974-3:2014 Arc welding equipment – Part 3: Arc striking and stabilizing devices	3 February 2022
51.	EN 60974-5:2013 Arc welding equipment – Part 5: Wire feeders	3 February 2022
52.	EN 60974-7:2013 Arc welding equipment – Part 7: Torches	3 February 2022
53.	EN 61347-2-7:2012 Lamp controlgear – Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)	3 February 2022
54.	EN 61347-2-11:2001 Lamp controlgear – Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires EN 61347-2-11:2001/AC:2002 EN 61347-2-11:2001/AC:2010	3 February 2022
55.	EN 61386-1:2008 Conduit systems for cable management – Part 1: General requirements	3 February 2022
56.	EN 61439-3:2012 Low-voltage switchgear and controlgear assemblies – Part 3: Distribution boards intended to be operated by ordinary persons (DBO)	3 February 2021
57.	EN 61535:2009 Installation couplers intended for permanent connection in fixed installations EN 61535:2009/A1:2013	3 February 2022
58.	EN 61557-9:2015 Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 9: Equipment for insulation fault location in IT systems	3 February 2021
59.	EN 61558-1:2005 Safety of power transformers, power supplies, reactors and similar products – Part 1: General requirements and tests EN 61558-1:2005/A1:2009 EN 61558-1:2005/AC:2006	3 February 2022
60.	EN 61851-1:2011 Electric vehicle conductive charging system – Part 1: General requirements	3 February 2022
61.	EN 62026-3:2015 Low-voltage switchgear and controlgear – Controller-device interfaces (CDIs) – Part 3: DeviceNet	3 February 2021
62.	EN 62035:2014 Discharge lamps (excluding fluorescent lamps) – Safety specifications	3 February 2022
63.	EN 62275:2015 Cable management systems – Cable ties for electrical installations	3 February 2022

64.	EN 50178:1997 Electronic equipment for use in power installations'	
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ISSN 1977-0677 (electronic edition)
ISSN 1725-2555 (paper edition)



Publications Office of the European Union
2985 Luxembourg
LUXEMBOURG

EN