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Legislation

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Contents

II *Non-legislative acts*

REGULATIONS

- ★ **Commission Implementing Regulation (EU) 2018/1699 of 9 November 2018 laying down technical information for the calculation of technical provisions and basic own funds for reporting with reference dates from 30 September 2018 until 30 December 2018 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⁽¹⁾ 1**

DECISIONS

- ★ **Council Implementing Decision (EU) 2018/1700 of 6 November 2018 amending Implementing Decision 2013/54/EU authorising the Republic of Slovenia to introduce a special measure derogating from Article 287 of Directive 2006/112/EC on the common system of value added tax 78**
- ★ **Commission Decision (EU) 2018/1701 of 7 November 2018 on the proposed citizens' initiative entitled 'Mandatory food labelling Non-Vegetarian/Vegetarian/Vegan' (notified under document C(2018) 7300) 80**
- ★ **Commission Decision (EU) 2018/1702 of 8 November 2018 establishing the EU Ecolabel criteria for lubricants (notified under document C(2018) 7125)⁽¹⁾ 82**
- ★ **Commission Implementing Decision (EU) 2018/1703 of 12 November 2018 terminating the partial interim review concerning imports of ammonium nitrate originating in Russia 97**

⁽¹⁾ Text with EEA relevance.

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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.

The titles of all other acts are printed in bold type and preceded by an asterisk.

II

(Non-legislative acts)

REGULATIONS

COMMISSION IMPLEMENTING REGULATION (EU) 2018/1699

of 9 November 2018

laying down technical information for the calculation of technical provisions and basic own funds for reporting with reference dates from 30 September 2018 until 30 December 2018 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 reinsurance 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 5 October 2018, the European Insurance and Occupational Pensions Authority provided the Commission with the technical information related to end of September 2018 market data. That information was published on 5 October 2018 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 September 2018 until 30 December 2018.

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 September 2018.

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

Done at Brussels, 9 November 2018.

For the Commission
The President
Jean-Claude JUNCKER

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	– 0,342 %	1,885 %	– 0,352 %	0,342 %	– 0,358 %	0,090 %
2	– 0,207 %	2,128 %	– 0,217 %	1,402 %	– 0,110 %	0,293 %
3	– 0,032 %	2,214 %	– 0,042 %	1,958 %	0,116 %	0,608 %
4	0,136 %	2,271 %	0,126 %	2,427 %	0,320 %	0,984 %
5	0,292 %	2,305 %	0,282 %	2,710 %	0,514 %	1,277 %
6	0,439 %	2,319 %	0,429 %	2,900 %	0,682 %	1,504 %
7	0,571 %	2,324 %	0,561 %	3,157 %	0,830 %	1,697 %
8	0,691 %	2,326 %	0,681 %	3,358 %	0,961 %	1,870 %
9	0,803 %	2,331 %	0,793 %	3,515 %	1,080 %	2,028 %
10	0,907 %	2,340 %	0,897 %	3,603 %	1,186 %	2,164 %
11	0,998 %	2,341 %	0,987 %	3,669 %	1,330 %	2,280 %
12	1,077 %	2,334 %	1,067 %	3,726 %	1,491 %	2,381 %
13	1,150 %	2,324 %	1,139 %	3,776 %	1,651 %	2,470 %
14	1,212 %	2,318 %	1,202 %	3,819 %	1,801 %	2,549 %
15	1,262 %	2,320 %	1,252 %	3,858 %	1,939 %	2,620 %
16	1,299 %	2,334 %	1,288 %	3,891 %	2,063 %	2,685 %
17	1,329 %	2,356 %	1,318 %	3,920 %	2,175 %	2,743 %
18	1,358 %	2,384 %	1,347 %	3,946 %	2,277 %	2,797 %
19	1,390 %	2,416 %	1,379 %	3,970 %	2,368 %	2,847 %
20	1,428 %	2,451 %	1,417 %	3,990 %	2,451 %	2,893 %
21	1,473 %	2,487 %	1,463 %	4,009 %	2,526 %	2,935 %
22	1,524 %	2,525 %	1,514 %	4,026 %	2,595 %	2,975 %
23	1,579 %	2,562 %	1,569 %	4,041 %	2,657 %	3,012 %
24	1,636 %	2,599 %	1,626 %	4,055 %	2,715 %	3,047 %
25	1,694 %	2,636 %	1,684 %	4,068 %	2,768 %	3,079 %
26	1,751 %	2,672 %	1,742 %	4,080 %	2,817 %	3,110 %
27	1,809 %	2,708 %	1,800 %	4,091 %	2,862 %	3,139 %
28	1,865 %	2,742 %	1,857 %	4,101 %	2,904 %	3,166 %
29	1,921 %	2,776 %	1,912 %	4,111 %	2,944 %	3,192 %
30	1,975 %	2,808 %	1,967 %	4,119 %	2,980 %	3,216 %
31	2,027 %	2,839 %	2,019 %	4,127 %	3,015 %	3,239 %
32	2,078 %	2,870 %	2,070 %	4,135 %	3,047 %	3,261 %
33	2,127 %	2,899 %	2,120 %	4,142 %	3,077 %	3,282 %
34	2,175 %	2,927 %	2,167 %	4,149 %	3,106 %	3,302 %
35	2,221 %	2,954 %	2,213 %	4,155 %	3,133 %	3,321 %
36	2,265 %	2,980 %	2,258 %	4,161 %	3,158 %	3,339 %
37	2,307 %	3,005 %	2,300 %	4,166 %	3,182 %	3,356 %
38	2,348 %	3,029 %	2,341 %	4,171 %	3,205 %	3,373 %
39	2,387 %	3,053 %	2,381 %	4,176 %	3,226 %	3,389 %

Term to maturity (in years)	Euro	Czech koruna	Danish krone	Forint	Krona	Kuna
40	2,425 %	3,075 %	2,419 %	4,181 %	3,247 %	3,404 %
41	2,462 %	3,096 %	2,455 %	4,185 %	3,266 %	3,418 %
42	2,497 %	3,117 %	2,491 %	4,190 %	3,285 %	3,432 %
43	2,530 %	3,137 %	2,524 %	4,194 %	3,303 %	3,446 %
44	2,563 %	3,156 %	2,557 %	4,197 %	3,320 %	3,458 %
45	2,594 %	3,175 %	2,588 %	4,201 %	3,336 %	3,471 %
46	2,624 %	3,193 %	2,618 %	4,204 %	3,351 %	3,483 %
47	2,653 %	3,210 %	2,647 %	4,208 %	3,366 %	3,494 %
48	2,681 %	3,227 %	2,675 %	4,211 %	3,380 %	3,505 %
49	2,708 %	3,243 %	2,702 %	4,214 %	3,394 %	3,515 %
50	2,734 %	3,258 %	2,728 %	4,217 %	3,407 %	3,526 %
51	2,759 %	3,273 %	2,754 %	4,220 %	3,419 %	3,535 %
52	2,783 %	3,287 %	2,778 %	4,222 %	3,432 %	3,545 %
53	2,806 %	3,301 %	2,801 %	4,225 %	3,443 %	3,554 %
54	2,828 %	3,315 %	2,824 %	4,227 %	3,454 %	3,563 %
55	2,850 %	3,328 %	2,845 %	4,230 %	3,465 %	3,571 %
56	2,871 %	3,340 %	2,867 %	4,232 %	3,476 %	3,580 %
57	2,891 %	3,352 %	2,887 %	4,234 %	3,486 %	3,588 %
58	2,911 %	3,364 %	2,907 %	4,236 %	3,495 %	3,595 %
59	2,930 %	3,375 %	2,926 %	4,238 %	3,505 %	3,603 %
60	2,948 %	3,386 %	2,944 %	4,240 %	3,514 %	3,610 %
61	2,966 %	3,397 %	2,962 %	4,242 %	3,523 %	3,617 %
62	2,983 %	3,407 %	2,979 %	4,244 %	3,531 %	3,624 %
63	3,000 %	3,418 %	2,996 %	4,245 %	3,539 %	3,631 %
64	3,016 %	3,427 %	3,012 %	4,247 %	3,547 %	3,637 %
65	3,032 %	3,437 %	3,028 %	4,249 %	3,555 %	3,643 %
66	3,047 %	3,446 %	3,044 %	4,250 %	3,562 %	3,649 %
67	3,062 %	3,455 %	3,058 %	4,252 %	3,570 %	3,655 %
68	3,077 %	3,463 %	3,073 %	4,253 %	3,577 %	3,661 %
69	3,091 %	3,472 %	3,087 %	4,255 %	3,584 %	3,667 %
70	3,104 %	3,480 %	3,101 %	4,256 %	3,590 %	3,672 %
71	3,117 %	3,488 %	3,114 %	4,258 %	3,597 %	3,677 %
72	3,130 %	3,496 %	3,127 %	4,259 %	3,603 %	3,682 %
73	3,143 %	3,503 %	3,139 %	4,260 %	3,609 %	3,687 %
74	3,155 %	3,511 %	3,152 %	4,261 %	3,615 %	3,692 %
75	3,167 %	3,518 %	3,163 %	4,263 %	3,621 %	3,697 %
76	3,178 %	3,525 %	3,175 %	4,264 %	3,626 %	3,701 %
77	3,190 %	3,532 %	3,186 %	4,265 %	3,632 %	3,706 %
78	3,201 %	3,538 %	3,197 %	4,266 %	3,637 %	3,710 %
79	3,211 %	3,545 %	3,208 %	4,267 %	3,643 %	3,715 %

Term to maturity (in years)	Euro	Czech koruna	Danish krone	Forint	Krona	Kuna
80	3,222 %	3,551 %	3,219 %	4,268 %	3,648 %	3,719 %
81	3,232 %	3,557 %	3,229 %	4,269 %	3,653 %	3,723 %
82	3,242 %	3,563 %	3,239 %	4,270 %	3,657 %	3,727 %
83	3,252 %	3,569 %	3,248 %	4,271 %	3,662 %	3,731 %
84	3,261 %	3,575 %	3,258 %	4,272 %	3,667 %	3,734 %
85	3,270 %	3,580 %	3,267 %	4,273 %	3,671 %	3,738 %
86	3,279 %	3,586 %	3,276 %	4,274 %	3,676 %	3,742 %
87	3,288 %	3,591 %	3,285 %	4,275 %	3,680 %	3,745 %
88	3,297 %	3,596 %	3,294 %	4,276 %	3,684 %	3,749 %
89	3,305 %	3,601 %	3,302 %	4,277 %	3,688 %	3,752 %
90	3,313 %	3,606 %	3,311 %	4,277 %	3,692 %	3,755 %
91	3,321 %	3,611 %	3,319 %	4,278 %	3,696 %	3,759 %
92	3,329 %	3,616 %	3,327 %	4,279 %	3,700 %	3,762 %
93	3,337 %	3,620 %	3,334 %	4,280 %	3,704 %	3,765 %
94	3,345 %	3,625 %	3,342 %	4,281 %	3,707 %	3,768 %
95	3,352 %	3,629 %	3,349 %	4,281 %	3,711 %	3,771 %
96	3,359 %	3,634 %	3,357 %	4,282 %	3,715 %	3,774 %
97	3,366 %	3,638 %	3,364 %	4,283 %	3,718 %	3,776 %
98	3,373 %	3,642 %	3,371 %	4,283 %	3,721 %	3,779 %
99	3,380 %	3,646 %	3,378 %	4,284 %	3,725 %	3,782 %
100	3,387 %	3,650 %	3,384 %	4,285 %	3,728 %	3,785 %
101	3,393 %	3,654 %	3,391 %	4,285 %	3,731 %	3,787 %
102	3,400 %	3,658 %	3,397 %	4,286 %	3,734 %	3,790 %
103	3,406 %	3,662 %	3,404 %	4,287 %	3,737 %	3,792 %
104	3,412 %	3,666 %	3,410 %	4,287 %	3,740 %	3,795 %
105	3,418 %	3,669 %	3,416 %	4,288 %	3,743 %	3,797 %
106	3,424 %	3,673 %	3,422 %	4,289 %	3,746 %	3,800 %
107	3,430 %	3,676 %	3,428 %	4,289 %	3,749 %	3,802 %
108	3,436 %	3,680 %	3,433 %	4,290 %	3,752 %	3,804 %
109	3,441 %	3,683 %	3,439 %	4,290 %	3,755 %	3,807 %
110	3,447 %	3,687 %	3,445 %	4,291 %	3,757 %	3,809 %
111	3,452 %	3,690 %	3,450 %	4,291 %	3,760 %	3,811 %
112	3,458 %	3,693 %	3,455 %	4,292 %	3,762 %	3,813 %
113	3,463 %	3,696 %	3,461 %	4,292 %	3,765 %	3,815 %
114	3,468 %	3,699 %	3,466 %	4,293 %	3,767 %	3,817 %
115	3,473 %	3,702 %	3,471 %	4,293 %	3,770 %	3,819 %
116	3,478 %	3,705 %	3,476 %	4,294 %	3,772 %	3,821 %
117	3,483 %	3,708 %	3,481 %	4,294 %	3,775 %	3,823 %
118	3,488 %	3,711 %	3,486 %	4,295 %	3,777 %	3,825 %
119	3,492 %	3,714 %	3,490 %	4,295 %	3,779 %	3,827 %

Term to maturity (in years)	Euro	Czech koruna	Danish krone	Forint	Krona	Kuna
120	3,497 %	3,717 %	3,495 %	4,296 %	3,782 %	3,829 %
121	3,502 %	3,720 %	3,499 %	4,296 %	3,784 %	3,831 %
122	3,506 %	3,722 %	3,504 %	4,297 %	3,786 %	3,832 %
123	3,511 %	3,725 %	3,508 %	4,297 %	3,788 %	3,834 %
124	3,515 %	3,728 %	3,513 %	4,298 %	3,790 %	3,836 %
125	3,519 %	3,730 %	3,517 %	4,298 %	3,792 %	3,838 %
126	3,523 %	3,733 %	3,521 %	4,298 %	3,794 %	3,839 %
127	3,527 %	3,735 %	3,525 %	4,299 %	3,796 %	3,841 %
128	3,532 %	3,738 %	3,530 %	4,299 %	3,798 %	3,843 %
129	3,536 %	3,740 %	3,534 %	4,300 %	3,800 %	3,844 %
130	3,539 %	3,742 %	3,537 %	4,300 %	3,802 %	3,846 %
131	3,543 %	3,745 %	3,541 %	4,300 %	3,804 %	3,847 %
132	3,547 %	3,747 %	3,545 %	4,301 %	3,806 %	3,849 %
133	3,551 %	3,749 %	3,549 %	4,301 %	3,808 %	3,850 %
134	3,555 %	3,752 %	3,553 %	4,301 %	3,810 %	3,852 %
135	3,558 %	3,754 %	3,556 %	4,302 %	3,811 %	3,853 %
136	3,562 %	3,756 %	3,560 %	4,302 %	3,813 %	3,855 %
137	3,566 %	3,758 %	3,564 %	4,302 %	3,815 %	3,856 %
138	3,569 %	3,760 %	3,567 %	4,303 %	3,817 %	3,858 %
139	3,572 %	3,762 %	3,571 %	4,303 %	3,818 %	3,859 %
140	3,576 %	3,764 %	3,574 %	4,304 %	3,820 %	3,860 %
141	3,579 %	3,766 %	3,577 %	4,304 %	3,822 %	3,862 %
142	3,583 %	3,768 %	3,581 %	4,304 %	3,823 %	3,863 %
143	3,586 %	3,770 %	3,584 %	4,304 %	3,825 %	3,864 %
144	3,589 %	3,772 %	3,587 %	4,305 %	3,826 %	3,866 %
145	3,592 %	3,774 %	3,590 %	4,305 %	3,828 %	3,867 %
146	3,595 %	3,776 %	3,594 %	4,305 %	3,829 %	3,868 %
147	3,598 %	3,778 %	3,597 %	4,306 %	3,831 %	3,869 %
148	3,601 %	3,780 %	3,600 %	4,306 %	3,832 %	3,871 %
149	3,604 %	3,782 %	3,603 %	4,306 %	3,834 %	3,872 %
150	3,607 %	3,783 %	3,606 %	4,307 %	3,835 %	3,873 %

Term to maturity (in years)	Lev	Pound sterling	Romanian leu	Zloty	Króna	Norwegian krone
1	– 0,392 %	0,896 %	3,301 %	1,181 %	5,017 %	1,172 %
2	– 0,257 %	1,057 %	3,681 %	1,436 %	5,140 %	1,452 %
3	– 0,082 %	1,185 %	3,963 %	1,741 %	5,305 %	1,640 %
4	0,086 %	1,279 %	4,154 %	2,220 %	5,410 %	1,780 %
5	0,241 %	1,354 %	4,278 %	2,472 %	5,482 %	1,901 %
6	0,388 %	1,410 %	4,382 %	2,734 %	5,543 %	1,981 %
7	0,520 %	1,459 %	4,495 %	2,929 %	5,601 %	2,054 %
8	0,641 %	1,501 %	4,628 %	3,079 %	5,643 %	2,117 %
9	0,752 %	1,540 %	4,768 %	3,159 %	5,661 %	2,173 %

Term to maturity (in years)	Lev	Pound sterling	Romanian leu	Zloty	Króna	Norwegian krone
10	0,856 %	1,573 %	4,891 %	3,172 %	5,661 %	2,221 %
11	0,946 %	1,602 %	4,980 %	3,179 %	5,649 %	2,270 %
12	1,026 %	1,625 %	5,042 %	3,190 %	5,628 %	2,323 %
13	1,098 %	1,645 %	5,083 %	3,205 %	5,601 %	2,376 %
14	1,161 %	1,659 %	5,108 %	3,222 %	5,570 %	2,428 %
15	1,210 %	1,670 %	5,121 %	3,240 %	5,537 %	2,480 %
16	1,247 %	1,679 %	5,126 %	3,258 %	5,502 %	2,531 %
17	1,277 %	1,687 %	5,123 %	3,278 %	5,466 %	2,579 %
18	1,305 %	1,692 %	5,116 %	3,297 %	5,430 %	2,626 %
19	1,337 %	1,695 %	5,105 %	3,316 %	5,394 %	2,672 %
20	1,376 %	1,696 %	5,090 %	3,335 %	5,358 %	2,715 %
21	1,422 %	1,695 %	5,074 %	3,354 %	5,323 %	2,756 %
22	1,474 %	1,693 %	5,056 %	3,372 %	5,289 %	2,796 %
23	1,530 %	1,690 %	5,037 %	3,389 %	5,256 %	2,834 %
24	1,588 %	1,687 %	5,017 %	3,407 %	5,223 %	2,870 %
25	1,646 %	1,683 %	4,996 %	3,423 %	5,192 %	2,905 %
26	1,706 %	1,679 %	4,976 %	3,439 %	5,161 %	2,938 %
27	1,764 %	1,674 %	4,955 %	3,455 %	5,132 %	2,970 %
28	1,822 %	1,670 %	4,935 %	3,470 %	5,103 %	3,000 %
29	1,878 %	1,664 %	4,915 %	3,484 %	5,076 %	3,029 %
30	1,934 %	1,659 %	4,895 %	3,498 %	5,049 %	3,056 %
31	1,987 %	1,652 %	4,876 %	3,512 %	5,024 %	3,082 %
32	2,039 %	1,646 %	4,857 %	3,525 %	4,999 %	3,108 %
33	2,089 %	1,641 %	4,838 %	3,537 %	4,976 %	3,132 %
34	2,138 %	1,635 %	4,820 %	3,549 %	4,953 %	3,155 %
35	2,184 %	1,631 %	4,803 %	3,561 %	4,931 %	3,177 %
36	2,229 %	1,628 %	4,786 %	3,572 %	4,910 %	3,198 %
37	2,273 %	1,624 %	4,769 %	3,583 %	4,890 %	3,219 %
38	2,314 %	1,619 %	4,754 %	3,593 %	4,871 %	3,238 %
39	2,355 %	1,613 %	4,738 %	3,603 %	4,852 %	3,257 %
40	2,393 %	1,605 %	4,723 %	3,613 %	4,834 %	3,275 %
41	2,430 %	1,594 %	4,709 %	3,622 %	4,817 %	3,292 %
42	2,466 %	1,582 %	4,695 %	3,631 %	4,800 %	3,308 %
43	2,500 %	1,571 %	4,682 %	3,639 %	4,784 %	3,324 %
44	2,534 %	1,561 %	4,669 %	3,648 %	4,768 %	3,340 %
45	2,565 %	1,554 %	4,656 %	3,656 %	4,754 %	3,354 %
46	2,596 %	1,549 %	4,644 %	3,664 %	4,739 %	3,369 %
47	2,626 %	1,548 %	4,632 %	3,671 %	4,725 %	3,382 %
48	2,654 %	1,551 %	4,621 %	3,678 %	4,712 %	3,395 %
49	2,681 %	1,558 %	4,610 %	3,685 %	4,699 %	3,408 %

Term to maturity (in years)	Lev	Pound sterling	Romanian leu	Zloty	Króna	Norwegian krone
50	2,708 %	1,569 %	4,599 %	3,692 %	4,687 %	3,420 %
51	2,733 %	1,584 %	4,589 %	3,699 %	4,675 %	3,432 %
52	2,758 %	1,603 %	4,579 %	3,705 %	4,663 %	3,444 %
53	2,782 %	1,625 %	4,570 %	3,711 %	4,652 %	3,455 %
54	2,805 %	1,649 %	4,560 %	3,717 %	4,641 %	3,465 %
55	2,827 %	1,675 %	4,551 %	3,723 %	4,631 %	3,475 %
56	2,848 %	1,702 %	4,543 %	3,728 %	4,621 %	3,485 %
57	2,869 %	1,730 %	4,534 %	3,734 %	4,611 %	3,495 %
58	2,889 %	1,758 %	4,526 %	3,739 %	4,601 %	3,504 %
59	2,908 %	1,787 %	4,518 %	3,744 %	4,592 %	3,513 %
60	2,927 %	1,816 %	4,511 %	3,749 %	4,583 %	3,522 %
61	2,945 %	1,845 %	4,503 %	3,754 %	4,575 %	3,531 %
62	2,963 %	1,874 %	4,496 %	3,758 %	4,566 %	3,539 %
63	2,980 %	1,903 %	4,489 %	3,763 %	4,558 %	3,547 %
64	2,996 %	1,932 %	4,482 %	3,767 %	4,551 %	3,554 %
65	3,012 %	1,960 %	4,476 %	3,771 %	4,543 %	3,562 %
66	3,028 %	1,988 %	4,469 %	3,775 %	4,536 %	3,569 %
67	3,043 %	2,015 %	4,463 %	3,779 %	4,528 %	3,576 %
68	3,058 %	2,043 %	4,457 %	3,783 %	4,521 %	3,583 %
69	3,072 %	2,069 %	4,451 %	3,787 %	4,515 %	3,590 %
70	3,086 %	2,095 %	4,446 %	3,791 %	4,508 %	3,596 %
71	3,099 %	2,121 %	4,440 %	3,794 %	4,502 %	3,603 %
72	3,112 %	2,146 %	4,435 %	3,798 %	4,495 %	3,609 %
73	3,125 %	2,170 %	4,429 %	3,801 %	4,489 %	3,615 %
74	3,137 %	2,194 %	4,424 %	3,805 %	4,483 %	3,621 %
75	3,150 %	2,218 %	4,419 %	3,808 %	4,478 %	3,626 %
76	3,161 %	2,241 %	4,415 %	3,811 %	4,472 %	3,632 %
77	3,173 %	2,264 %	4,410 %	3,814 %	4,467 %	3,637 %
78	3,184 %	2,286 %	4,405 %	3,817 %	4,461 %	3,643 %
79	3,195 %	2,307 %	4,401 %	3,820 %	4,456 %	3,648 %
80	3,206 %	2,328 %	4,396 %	3,823 %	4,451 %	3,653 %
81	3,216 %	2,349 %	4,392 %	3,826 %	4,446 %	3,658 %
82	3,226 %	2,369 %	4,388 %	3,828 %	4,441 %	3,662 %
83	3,236 %	2,389 %	4,384 %	3,831 %	4,436 %	3,667 %
84	3,246 %	2,408 %	4,380 %	3,834 %	4,432 %	3,671 %
85	3,255 %	2,427 %	4,376 %	3,836 %	4,427 %	3,676 %
86	3,264 %	2,446 %	4,372 %	3,839 %	4,423 %	3,680 %
87	3,273 %	2,464 %	4,369 %	3,841 %	4,419 %	3,684 %
88	3,282 %	2,482 %	4,365 %	3,843 %	4,415 %	3,689 %
89	3,291 %	2,499 %	4,361 %	3,846 %	4,410 %	3,693 %

Term to maturity (in years)	Lev	Pound sterling	Romanian leu	Zloty	Króna	Norwegian krone
90	3,299 %	2,516 %	4,358 %	3,848 %	4,406 %	3,697 %
91	3,307 %	2,533 %	4,355 %	3,850 %	4,402 %	3,700 %
92	3,315 %	2,549 %	4,351 %	3,852 %	4,399 %	3,704 %
93	3,323 %	2,565 %	4,348 %	3,854 %	4,395 %	3,708 %
94	3,331 %	2,580 %	4,345 %	3,856 %	4,391 %	3,712 %
95	3,338 %	2,596 %	4,342 %	3,859 %	4,388 %	3,715 %
96	3,346 %	2,611 %	4,339 %	3,861 %	4,384 %	3,719 %
97	3,353 %	2,625 %	4,336 %	3,862 %	4,381 %	3,722 %
98	3,360 %	2,640 %	4,333 %	3,864 %	4,377 %	3,725 %
99	3,367 %	2,654 %	4,330 %	3,866 %	4,374 %	3,729 %
100	3,374 %	2,668 %	4,327 %	3,868 %	4,371 %	3,732 %
101	3,381 %	2,681 %	4,324 %	3,870 %	4,368 %	3,735 %
102	3,387 %	2,695 %	4,322 %	3,872 %	4,364 %	3,738 %
103	3,393 %	2,708 %	4,319 %	3,873 %	4,361 %	3,741 %
104	3,400 %	2,721 %	4,316 %	3,875 %	4,358 %	3,744 %
105	3,406 %	2,733 %	4,314 %	3,877 %	4,355 %	3,747 %
106	3,412 %	2,745 %	4,311 %	3,878 %	4,353 %	3,750 %
107	3,418 %	2,758 %	4,309 %	3,880 %	4,350 %	3,753 %
108	3,424 %	2,769 %	4,307 %	3,882 %	4,347 %	3,755 %
109	3,429 %	2,781 %	4,304 %	3,883 %	4,344 %	3,758 %
110	3,435 %	2,793 %	4,302 %	3,885 %	4,342 %	3,761 %
111	3,441 %	2,804 %	4,300 %	3,886 %	4,339 %	3,763 %
112	3,446 %	2,815 %	4,297 %	3,888 %	4,336 %	3,766 %
113	3,451 %	2,826 %	4,295 %	3,889 %	4,334 %	3,768 %
114	3,457 %	2,836 %	4,293 %	3,890 %	4,331 %	3,771 %
115	3,462 %	2,847 %	4,291 %	3,892 %	4,329 %	3,773 %
116	3,467 %	2,857 %	4,289 %	3,893 %	4,326 %	3,776 %
117	3,472 %	2,867 %	4,287 %	3,894 %	4,324 %	3,778 %
118	3,477 %	2,877 %	4,285 %	3,896 %	4,322 %	3,780 %
119	3,481 %	2,887 %	4,283 %	3,897 %	4,319 %	3,783 %
120	3,486 %	2,897 %	4,281 %	3,898 %	4,317 %	3,785 %
121	3,491 %	2,906 %	4,279 %	3,900 %	4,315 %	3,787 %
122	3,495 %	2,915 %	4,277 %	3,901 %	4,313 %	3,789 %
123	3,500 %	2,925 %	4,275 %	3,902 %	4,311 %	3,791 %
124	3,504 %	2,934 %	4,273 %	3,903 %	4,309 %	3,793 %
125	3,509 %	2,943 %	4,272 %	3,904 %	4,307 %	3,795 %
126	3,513 %	2,951 %	4,270 %	3,906 %	4,304 %	3,797 %
127	3,517 %	2,960 %	4,268 %	3,907 %	4,302 %	3,799 %
128	3,521 %	2,968 %	4,266 %	3,908 %	4,301 %	3,801 %
129	3,525 %	2,977 %	4,265 %	3,909 %	4,299 %	3,803 %

Term to maturity (in years)	Lev	Pound sterling	Romanian leu	Zloty	Króna	Norwegian krone
130	3,529 %	2,985 %	4,263 %	3,910 %	4,297 %	3,805 %
131	3,533 %	2,993 %	4,261 %	3,911 %	4,295 %	3,807 %
132	3,537 %	3,001 %	4,260 %	3,912 %	4,293 %	3,809 %
133	3,541 %	3,009 %	4,258 %	3,913 %	4,291 %	3,811 %
134	3,545 %	3,017 %	4,257 %	3,914 %	4,289 %	3,812 %
135	3,549 %	3,024 %	4,255 %	3,915 %	4,288 %	3,814 %
136	3,552 %	3,032 %	4,254 %	3,916 %	4,286 %	3,816 %
137	3,556 %	3,039 %	4,252 %	3,917 %	4,284 %	3,818 %
138	3,560 %	3,046 %	4,251 %	3,918 %	4,282 %	3,819 %
139	3,563 %	3,054 %	4,249 %	3,919 %	4,281 %	3,821 %
140	3,567 %	3,061 %	4,248 %	3,920 %	4,279 %	3,823 %
141	3,570 %	3,068 %	4,246 %	3,921 %	4,277 %	3,824 %
142	3,573 %	3,075 %	4,245 %	3,922 %	4,276 %	3,826 %
143	3,577 %	3,081 %	4,244 %	3,923 %	4,274 %	3,827 %
144	3,580 %	3,088 %	4,242 %	3,924 %	4,273 %	3,829 %
145	3,583 %	3,095 %	4,241 %	3,924 %	4,271 %	3,830 %
146	3,586 %	3,101 %	4,240 %	3,925 %	4,270 %	3,832 %
147	3,590 %	3,108 %	4,238 %	3,926 %	4,268 %	3,833 %
148	3,593 %	3,114 %	4,237 %	3,927 %	4,267 %	3,835 %
149	3,596 %	3,120 %	4,236 %	3,928 %	4,265 %	3,836 %
150	3,599 %	3,126 %	4,235 %	3,929 %	4,264 %	3,838 %

Term to maturity (in years)	Swiss franc	Australian dollar	Baht	Canadian dollar	Chilean peso	Colombian peso
1	– 0,747 %	1,859 %	1,425 %	2,171 %	2,986 %	4,169 %
2	– 0,609 %	1,941 %	1,664 %	2,377 %	3,386 %	4,882 %
3	– 0,433 %	2,029 %	1,869 %	2,457 %	3,605 %	5,310 %
4	– 0,256 %	2,116 %	2,030 %	2,501 %	3,769 %	5,614 %
5	– 0,126 %	2,219 %	2,144 %	2,529 %	3,882 %	5,902 %
6	0,008 %	2,319 %	2,236 %	2,560 %	3,981 %	6,117 %
7	0,145 %	2,409 %	2,318 %	2,578 %	4,074 %	6,350 %
8	0,261 %	2,489 %	2,397 %	2,601 %	4,158 %	6,553 %
9	0,348 %	2,556 %	2,467 %	2,630 %	4,230 %	6,676 %
10	0,450 %	2,617 %	2,524 %	2,653 %	4,290 %	6,795 %
11	0,518 %	2,672 %	2,569 %	2,672 %	4,337 %	6,877 %
12	0,591 %	2,719 %	2,606 %	2,693 %	4,373 %	6,921 %
13	0,656 %	2,760 %	2,642 %	2,716 %	4,401 %	6,937 %
14	0,717 %	2,793 %	2,678 %	2,738 %	4,423 %	6,931 %
15	0,772 %	2,819 %	2,714 %	2,755 %	4,441 %	6,911 %
16	0,819 %	2,837 %	2,750 %	2,767 %	4,455 %	6,879 %
17	0,857 %	2,850 %	2,786 %	2,772 %	4,466 %	6,839 %
18	0,886 %	2,859 %	2,822 %	2,773 %	4,474 %	6,793 %
19	0,909 %	2,865 %	2,857 %	2,770 %	4,481 %	6,742 %

Term to maturity (in years)	Swiss franc	Australian dollar	Baht	Canadian dollar	Chilean peso	Colombian peso
20	0,926 %	2,869 %	2,891 %	2,764 %	4,486 %	6,689 %
21	0,937 %	2,872 %	2,925 %	2,754 %	4,490 %	6,634 %
22	0,946 %	2,872 %	2,957 %	2,743 %	4,493 %	6,579 %
23	0,956 %	2,869 %	2,988 %	2,732 %	4,495 %	6,523 %
24	0,970 %	2,863 %	3,018 %	2,722 %	4,496 %	6,468 %
25	0,988 %	2,853 %	3,047 %	2,714 %	4,496 %	6,413 %
26	1,012 %	2,840 %	3,074 %	2,708 %	4,496 %	6,359 %
27	1,042 %	2,825 %	3,101 %	2,705 %	4,496 %	6,307 %
28	1,074 %	2,813 %	3,127 %	2,706 %	4,495 %	6,256 %
29	1,109 %	2,803 %	3,151 %	2,710 %	4,494 %	6,206 %
30	1,146 %	2,798 %	3,175 %	2,717 %	4,493 %	6,158 %
31	1,183 %	2,799 %	3,197 %	2,728 %	4,492 %	6,111 %
32	1,221 %	2,804 %	3,219 %	2,742 %	4,490 %	6,066 %
33	1,259 %	2,813 %	3,240 %	2,758 %	4,489 %	6,023 %
34	1,297 %	2,824 %	3,260 %	2,775 %	4,487 %	5,981 %
35	1,334 %	2,838 %	3,279 %	2,794 %	4,485 %	5,941 %
36	1,371 %	2,854 %	3,297 %	2,814 %	4,483 %	5,902 %
37	1,406 %	2,870 %	3,315 %	2,834 %	4,481 %	5,865 %
38	1,441 %	2,888 %	3,332 %	2,855 %	4,479 %	5,829 %
39	1,476 %	2,906 %	3,348 %	2,875 %	4,478 %	5,795 %
40	1,509 %	2,925 %	3,364 %	2,896 %	4,476 %	5,762 %
41	1,541 %	2,943 %	3,379 %	2,917 %	4,474 %	5,730 %
42	1,572 %	2,962 %	3,393 %	2,937 %	4,472 %	5,699 %
43	1,603 %	2,981 %	3,407 %	2,957 %	4,470 %	5,670 %
44	1,632 %	3,000 %	3,421 %	2,977 %	4,468 %	5,641 %
45	1,661 %	3,018 %	3,434 %	2,997 %	4,466 %	5,614 %
46	1,688 %	3,036 %	3,446 %	3,016 %	4,464 %	5,588 %
47	1,715 %	3,054 %	3,458 %	3,035 %	4,463 %	5,562 %
48	1,741 %	3,072 %	3,470 %	3,053 %	4,461 %	5,538 %
49	1,766 %	3,089 %	3,481 %	3,071 %	4,459 %	5,514 %
50	1,790 %	3,106 %	3,492 %	3,088 %	4,457 %	5,492 %
51	1,813 %	3,122 %	3,502 %	3,105 %	4,456 %	5,470 %
52	1,836 %	3,138 %	3,512 %	3,121 %	4,454 %	5,449 %
53	1,858 %	3,153 %	3,522 %	3,137 %	4,452 %	5,429 %
54	1,879 %	3,169 %	3,531 %	3,153 %	4,451 %	5,409 %
55	1,900 %	3,183 %	3,541 %	3,168 %	4,449 %	5,390 %
56	1,919 %	3,198 %	3,549 %	3,183 %	4,448 %	5,372 %
57	1,939 %	3,212 %	3,558 %	3,197 %	4,446 %	5,354 %
58	1,957 %	3,225 %	3,566 %	3,211 %	4,445 %	5,337 %
59	1,975 %	3,239 %	3,574 %	3,225 %	4,443 %	5,320 %

Term to maturity (in years)	Swiss franc	Australian dollar	Baht	Canadian dollar	Chilean peso	Colombian peso
60	1,993 %	3,251 %	3,582 %	3,238 %	4,442 %	5,304 %
61	2,010 %	3,264 %	3,589 %	3,251 %	4,441 %	5,289 %
62	2,026 %	3,276 %	3,597 %	3,263 %	4,439 %	5,273 %
63	2,042 %	3,288 %	3,604 %	3,275 %	4,438 %	5,259 %
64	2,058 %	3,300 %	3,610 %	3,287 %	4,437 %	5,245 %
65	2,073 %	3,311 %	3,617 %	3,298 %	4,436 %	5,231 %
66	2,087 %	3,322 %	3,624 %	3,309 %	4,434 %	5,218 %
67	2,101 %	3,332 %	3,630 %	3,320 %	4,433 %	5,205 %
68	2,115 %	3,343 %	3,636 %	3,331 %	4,432 %	5,192 %
69	2,129 %	3,353 %	3,642 %	3,341 %	4,431 %	5,180 %
70	2,142 %	3,362 %	3,648 %	3,351 %	4,430 %	5,168 %
71	2,154 %	3,372 %	3,653 %	3,360 %	4,429 %	5,157 %
72	2,167 %	3,381 %	3,659 %	3,370 %	4,428 %	5,145 %
73	2,179 %	3,390 %	3,664 %	3,379 %	4,427 %	5,134 %
74	2,190 %	3,399 %	3,669 %	3,388 %	4,426 %	5,124 %
75	2,202 %	3,408 %	3,674 %	3,397 %	4,425 %	5,114 %
76	2,213 %	3,416 %	3,679 %	3,405 %	4,424 %	5,103 %
77	2,224 %	3,424 %	3,684 %	3,413 %	4,423 %	5,094 %
78	2,234 %	3,432 %	3,688 %	3,421 %	4,422 %	5,084 %
79	2,244 %	3,440 %	3,693 %	3,429 %	4,421 %	5,075 %
80	2,254 %	3,447 %	3,697 %	3,437 %	4,420 %	5,066 %
81	2,264 %	3,455 %	3,702 %	3,445 %	4,420 %	5,057 %
82	2,274 %	3,462 %	3,706 %	3,452 %	4,419 %	5,048 %
83	2,283 %	3,469 %	3,710 %	3,459 %	4,418 %	5,040 %
84	2,292 %	3,476 %	3,714 %	3,466 %	4,417 %	5,032 %
85	2,301 %	3,482 %	3,718 %	3,473 %	4,416 %	5,024 %
86	2,310 %	3,489 %	3,722 %	3,480 %	4,416 %	5,016 %
87	2,318 %	3,495 %	3,726 %	3,486 %	4,415 %	5,008 %
88	2,326 %	3,502 %	3,729 %	3,492 %	4,414 %	5,001 %
89	2,334 %	3,508 %	3,733 %	3,499 %	4,413 %	4,993 %
90	2,342 %	3,514 %	3,736 %	3,505 %	4,413 %	4,986 %
91	2,350 %	3,520 %	3,740 %	3,511 %	4,412 %	4,979 %
92	2,358 %	3,525 %	3,743 %	3,517 %	4,411 %	4,972 %
93	2,365 %	3,531 %	3,747 %	3,522 %	4,411 %	4,965 %
94	2,372 %	3,537 %	3,750 %	3,528 %	4,410 %	4,959 %
95	2,379 %	3,542 %	3,753 %	3,533 %	4,409 %	4,952 %
96	2,386 %	3,547 %	3,756 %	3,539 %	4,409 %	4,946 %
97	2,393 %	3,552 %	3,759 %	3,544 %	4,408 %	4,940 %
98	2,400 %	3,557 %	3,762 %	3,549 %	4,408 %	4,934 %
99	2,406 %	3,562 %	3,765 %	3,554 %	4,407 %	4,928 %

Term to maturity (in years)	Swiss franc	Australian dollar	Baht	Canadian dollar	Chilean peso	Colombian peso
100	2,413 %	3,567 %	3,768 %	3,559 %	4,407 %	4,922 %
101	2,419 %	3,572 %	3,771 %	3,564 %	4,406 %	4,917 %
102	2,425 %	3,577 %	3,773 %	3,569 %	4,405 %	4,911 %
103	2,431 %	3,581 %	3,776 %	3,573 %	4,405 %	4,906 %
104	2,437 %	3,586 %	3,779 %	3,578 %	4,404 %	4,900 %
105	2,443 %	3,590 %	3,781 %	3,582 %	4,404 %	4,895 %
106	2,449 %	3,595 %	3,784 %	3,587 %	4,403 %	4,890 %
107	2,454 %	3,599 %	3,786 %	3,591 %	4,403 %	4,885 %
108	2,460 %	3,603 %	3,789 %	3,595 %	4,402 %	4,880 %
109	2,465 %	3,607 %	3,791 %	3,600 %	4,402 %	4,875 %
110	2,471 %	3,611 %	3,793 %	3,604 %	4,401 %	4,870 %
111	2,476 %	3,615 %	3,796 %	3,608 %	4,401 %	4,865 %
112	2,481 %	3,619 %	3,798 %	3,612 %	4,400 %	4,861 %
113	2,486 %	3,623 %	3,800 %	3,615 %	4,400 %	4,856 %
114	2,491 %	3,626 %	3,802 %	3,619 %	4,400 %	4,852 %
115	2,496 %	3,630 %	3,804 %	3,623 %	4,399 %	4,847 %
116	2,500 %	3,634 %	3,807 %	3,627 %	4,399 %	4,843 %
117	2,505 %	3,637 %	3,809 %	3,630 %	4,398 %	4,839 %
118	2,510 %	3,641 %	3,811 %	3,634 %	4,398 %	4,835 %
119	2,514 %	3,644 %	3,813 %	3,637 %	4,398 %	4,831 %
120	2,519 %	3,648 %	3,815 %	3,641 %	4,397 %	4,827 %
121	2,523 %	3,651 %	3,817 %	3,644 %	4,397 %	4,823 %
122	2,527 %	3,654 %	3,819 %	3,647 %	4,396 %	4,819 %
123	2,532 %	3,657 %	3,820 %	3,651 %	4,396 %	4,815 %
124	2,536 %	3,661 %	3,822 %	3,654 %	4,396 %	4,811 %
125	2,540 %	3,664 %	3,824 %	3,657 %	4,395 %	4,808 %
126	2,544 %	3,667 %	3,826 %	3,660 %	4,395 %	4,804 %
127	2,548 %	3,670 %	3,828 %	3,663 %	4,395 %	4,800 %
128	2,552 %	3,673 %	3,829 %	3,666 %	4,394 %	4,797 %
129	2,556 %	3,676 %	3,831 %	3,669 %	4,394 %	4,793 %
130	2,560 %	3,678 %	3,833 %	3,672 %	4,394 %	4,790 %
131	2,563 %	3,681 %	3,834 %	3,675 %	4,393 %	4,787 %
132	2,567 %	3,684 %	3,836 %	3,678 %	4,393 %	4,783 %
133	2,571 %	3,687 %	3,838 %	3,681 %	4,393 %	4,780 %
134	2,574 %	3,690 %	3,839 %	3,683 %	4,392 %	4,777 %
135	2,578 %	3,692 %	3,841 %	3,686 %	4,392 %	4,774 %
136	2,581 %	3,695 %	3,842 %	3,689 %	4,392 %	4,770 %
137	2,585 %	3,697 %	3,844 %	3,691 %	4,391 %	4,767 %
138	2,588 %	3,700 %	3,845 %	3,694 %	4,391 %	4,764 %
139	2,591 %	3,702 %	3,847 %	3,697 %	4,391 %	4,761 %

Term to maturity (in years)	Swiss franc	Australian dollar	Baht	Canadian dollar	Chilean peso	Colombian peso
140	2,594 %	3,705 %	3,848 %	3,699 %	4,390 %	4,758 %
141	2,598 %	3,707 %	3,850 %	3,702 %	4,390 %	4,756 %
142	2,601 %	3,710 %	3,851 %	3,704 %	4,390 %	4,753 %
143	2,604 %	3,712 %	3,853 %	3,706 %	4,390 %	4,750 %
144	2,607 %	3,715 %	3,854 %	3,709 %	4,389 %	4,747 %
145	2,610 %	3,717 %	3,855 %	3,711 %	4,389 %	4,744 %
146	2,613 %	3,719 %	3,857 %	3,713 %	4,389 %	4,742 %
147	2,616 %	3,721 %	3,858 %	3,716 %	4,388 %	4,739 %
148	2,619 %	3,724 %	3,859 %	3,718 %	4,388 %	4,736 %
149	2,622 %	3,726 %	3,860 %	3,720 %	4,388 %	4,734 %
150	2,625 %	3,728 %	3,862 %	3,722 %	4,388 %	4,731 %

Term to maturity (in years)	Hong Kong dollar	Indian rupee	Mexican peso	New Taiwan dollar	New Zealand dollar	Rand
1	2,351 %	7,533 %	8,048 %	0,382 %	1,843 %	7,088 %
2	2,568 %	7,680 %	7,858 %	0,465 %	1,917 %	7,362 %
3	2,685 %	7,803 %	7,772 %	0,539 %	2,027 %	7,563 %
4	2,739 %	7,887 %	7,796 %	0,596 %	2,153 %	7,703 %
5	2,797 %	7,945 %	7,842 %	0,639 %	2,283 %	7,911 %
6	2,826 %	7,984 %	7,906 %	0,673 %	2,412 %	8,071 %
7	2,837 %	8,011 %	7,988 %	0,696 %	2,535 %	8,231 %
8	2,845 %	8,033 %	8,081 %	0,727 %	2,645 %	8,384 %
9	2,859 %	8,047 %	8,176 %	0,766 %	2,752 %	8,506 %
10	2,882 %	8,056 %	8,262 %	0,804 %	2,836 %	8,594 %
11	2,913 %	8,044 %	8,334 %	0,862 %	2,906 %	8,691 %
12	2,940 %	8,015 %	8,397 %	0,937 %	2,969 %	8,787 %
13	2,953 %	7,975 %	8,453 %	1,021 %	3,025 %	8,866 %
14	2,960 %	7,925 %	8,505 %	1,110 %	3,074 %	8,921 %
15	2,967 %	7,871 %	8,556 %	1,200 %	3,116 %	8,950 %
16	2,978 %	7,812 %	8,606 %	1,290 %	3,152 %	8,953 %
17	2,994 %	7,751 %	8,652 %	1,379 %	3,182 %	8,933 %
18	3,012 %	7,689 %	8,688 %	1,466 %	3,209 %	8,897 %
19	3,032 %	7,627 %	8,710 %	1,550 %	3,234 %	8,848 %
20	3,054 %	7,565 %	8,714 %	1,631 %	3,257 %	8,789 %
21	3,076 %	7,504 %	8,700 %	1,708 %	3,279 %	8,724 %
22	3,098 %	7,444 %	8,668 %	1,783 %	3,300 %	8,654 %
23	3,121 %	7,386 %	8,624 %	1,854 %	3,321 %	8,580 %
24	3,143 %	7,329 %	8,571 %	1,922 %	3,341 %	8,505 %
25	3,165 %	7,274 %	8,510 %	1,987 %	3,360 %	8,429 %
26	3,187 %	7,221 %	8,444 %	2,049 %	3,379 %	8,353 %
27	3,208 %	7,169 %	8,374 %	2,108 %	3,396 %	8,277 %
28	3,229 %	7,119 %	8,302 %	2,164 %	3,413 %	8,203 %
29	3,249 %	7,071 %	8,229 %	2,218 %	3,430 %	8,130 %

Term to maturity (in years)	Hong Kong dollar	Indian rupee	Mexican peso	New Taiwan dollar	New Zealand dollar	Rand
30	3,268 %	7,025 %	8,156 %	2,269 %	3,446 %	8,059 %
31	3,287 %	6,981 %	8,083 %	2,318 %	3,461 %	7,990 %
32	3,306 %	6,939 %	8,011 %	2,365 %	3,475 %	7,922 %
33	3,323 %	6,898 %	7,940 %	2,409 %	3,489 %	7,857 %
34	3,341 %	6,859 %	7,871 %	2,452 %	3,503 %	7,795 %
35	3,357 %	6,821 %	7,804 %	2,493 %	3,516 %	7,734 %
36	3,373 %	6,785 %	7,738 %	2,531 %	3,528 %	7,675 %
37	3,388 %	6,750 %	7,675 %	2,569 %	3,540 %	7,619 %
38	3,403 %	6,717 %	7,613 %	2,604 %	3,551 %	7,565 %
39	3,418 %	6,685 %	7,554 %	2,638 %	3,562 %	7,513 %
40	3,431 %	6,654 %	7,496 %	2,671 %	3,573 %	7,463 %
41	3,445 %	6,624 %	7,441 %	2,703 %	3,583 %	7,414 %
42	3,458 %	6,596 %	7,388 %	2,733 %	3,593 %	7,368 %
43	3,470 %	6,569 %	7,336 %	2,761 %	3,603 %	7,323 %
44	3,482 %	6,543 %	7,287 %	2,789 %	3,612 %	7,280 %
45	3,493 %	6,517 %	7,239 %	2,816 %	3,621 %	7,239 %
46	3,505 %	6,493 %	7,193 %	2,841 %	3,629 %	7,199 %
47	3,515 %	6,470 %	7,149 %	2,866 %	3,637 %	7,161 %
48	3,526 %	6,447 %	7,106 %	2,890 %	3,645 %	7,124 %
49	3,536 %	6,425 %	7,065 %	2,913 %	3,653 %	7,089 %
50	3,545 %	6,405 %	7,025 %	2,935 %	3,660 %	7,055 %
51	3,555 %	6,384 %	6,987 %	2,956 %	3,668 %	7,022 %
52	3,564 %	6,365 %	6,950 %	2,976 %	3,675 %	6,990 %
53	3,573 %	6,346 %	6,915 %	2,996 %	3,681 %	6,959 %
54	3,581 %	6,328 %	6,880 %	3,015 %	3,688 %	6,930 %
55	3,589 %	6,311 %	6,847 %	3,033 %	3,694 %	6,901 %
56	3,597 %	6,294 %	6,815 %	3,051 %	3,700 %	6,874 %
57	3,605 %	6,277 %	6,784 %	3,068 %	3,706 %	6,847 %
58	3,612 %	6,261 %	6,754 %	3,085 %	3,712 %	6,822 %
59	3,619 %	6,246 %	6,726 %	3,101 %	3,717 %	6,797 %
60	3,626 %	6,231 %	6,698 %	3,117 %	3,723 %	6,773 %
61	3,633 %	6,217 %	6,671 %	3,132 %	3,728 %	6,749 %
62	3,640 %	6,203 %	6,644 %	3,146 %	3,733 %	6,727 %
63	3,646 %	6,190 %	6,619 %	3,160 %	3,738 %	6,705 %
64	3,652 %	6,177 %	6,594 %	3,174 %	3,742 %	6,684 %
65	3,658 %	6,164 %	6,570 %	3,187 %	3,747 %	6,663 %
66	3,664 %	6,152 %	6,547 %	3,200 %	3,751 %	6,643 %
67	3,670 %	6,140 %	6,525 %	3,213 %	3,756 %	6,624 %
68	3,675 %	6,128 %	6,503 %	3,225 %	3,760 %	6,605 %
69	3,681 %	6,117 %	6,482 %	3,237 %	3,764 %	6,587 %

Term to maturity (in years)	Hong Kong dollar	Indian rupee	Mexican peso	New Taiwan dollar	New Zealand dollar	Rand
70	3,686 %	6,106 %	6,461 %	3,249 %	3,768 %	6,569 %
71	3,691 %	6,095 %	6,441 %	3,260 %	3,772 %	6,552 %
72	3,696 %	6,085 %	6,422 %	3,271 %	3,776 %	6,535 %
73	3,701 %	6,075 %	6,403 %	3,281 %	3,780 %	6,519 %
74	3,705 %	6,065 %	6,385 %	3,292 %	3,783 %	6,503 %
75	3,710 %	6,056 %	6,367 %	3,302 %	3,787 %	6,487 %
76	3,714 %	6,046 %	6,349 %	3,311 %	3,790 %	6,472 %
77	3,719 %	6,037 %	6,332 %	3,321 %	3,794 %	6,458 %
78	3,723 %	6,028 %	6,316 %	3,330 %	3,797 %	6,443 %
79	3,727 %	6,020 %	6,300 %	3,339 %	3,800 %	6,430 %
80	3,731 %	6,011 %	6,284 %	3,348 %	3,803 %	6,416 %
81	3,735 %	6,003 %	6,269 %	3,357 %	3,806 %	6,403 %
82	3,739 %	5,995 %	6,254 %	3,365 %	3,809 %	6,390 %
83	3,742 %	5,987 %	6,239 %	3,373 %	3,812 %	6,377 %
84	3,746 %	5,980 %	6,225 %	3,381 %	3,815 %	6,365 %
85	3,750 %	5,972 %	6,211 %	3,389 %	3,817 %	6,353 %
86	3,753 %	5,965 %	6,198 %	3,397 %	3,820 %	6,341 %
87	3,757 %	5,958 %	6,184 %	3,404 %	3,823 %	6,330 %
88	3,760 %	5,951 %	6,171 %	3,412 %	3,825 %	6,319 %
89	3,763 %	5,944 %	6,159 %	3,419 %	3,828 %	6,308 %
90	3,766 %	5,938 %	6,146 %	3,426 %	3,830 %	6,297 %
91	3,769 %	5,931 %	6,134 %	3,433 %	3,833 %	6,287 %
92	3,772 %	5,925 %	6,122 %	3,439 %	3,835 %	6,276 %
93	3,775 %	5,919 %	6,111 %	3,446 %	3,837 %	6,266 %
94	3,778 %	5,913 %	6,099 %	3,452 %	3,840 %	6,257 %
95	3,781 %	5,907 %	6,088 %	3,458 %	3,842 %	6,247 %
96	3,784 %	5,901 %	6,077 %	3,465 %	3,844 %	6,238 %
97	3,787 %	5,895 %	6,067 %	3,471 %	3,846 %	6,228 %
98	3,789 %	5,890 %	6,056 %	3,477 %	3,848 %	6,219 %
99	3,792 %	5,884 %	6,046 %	3,482 %	3,850 %	6,211 %
100	3,795 %	5,879 %	6,036 %	3,488 %	3,852 %	6,202 %
101	3,797 %	5,874 %	6,026 %	3,494 %	3,854 %	6,194 %
102	3,800 %	5,868 %	6,017 %	3,499 %	3,856 %	6,185 %
103	3,802 %	5,863 %	6,007 %	3,504 %	3,858 %	6,177 %
104	3,804 %	5,858 %	5,998 %	3,510 %	3,860 %	6,169 %
105	3,807 %	5,854 %	5,989 %	3,515 %	3,862 %	6,161 %
106	3,809 %	5,849 %	5,980 %	3,520 %	3,863 %	6,154 %
107	3,811 %	5,844 %	5,971 %	3,525 %	3,865 %	6,146 %
108	3,813 %	5,840 %	5,963 %	3,530 %	3,867 %	6,139 %
109	3,816 %	5,835 %	5,954 %	3,534 %	3,869 %	6,131 %

Term to maturity (in years)	Hong Kong dollar	Indian rupee	Mexican peso	New Taiwan dollar	New Zealand dollar	Rand
110	3,818 %	5,831 %	5,946 %	3,539 %	3,870 %	6,124 %
111	3,820 %	5,826 %	5,938 %	3,544 %	3,872 %	6,117 %
112	3,822 %	5,822 %	5,930 %	3,548 %	3,873 %	6,110 %
113	3,824 %	5,818 %	5,922 %	3,552 %	3,875 %	6,104 %
114	3,826 %	5,814 %	5,915 %	3,557 %	3,876 %	6,097 %
115	3,828 %	5,810 %	5,907 %	3,561 %	3,878 %	6,090 %
116	3,830 %	5,806 %	5,900 %	3,565 %	3,879 %	6,084 %
117	3,832 %	5,802 %	5,892 %	3,569 %	3,881 %	6,078 %
118	3,833 %	5,798 %	5,885 %	3,574 %	3,882 %	6,072 %
119	3,835 %	5,794 %	5,878 %	3,578 %	3,884 %	6,066 %
120	3,837 %	5,791 %	5,871 %	3,581 %	3,885 %	6,060 %
121	3,839 %	5,787 %	5,864 %	3,585 %	3,886 %	6,054 %
122	3,841 %	5,783 %	5,858 %	3,589 %	3,888 %	6,048 %
123	3,842 %	5,780 %	5,851 %	3,593 %	3,889 %	6,042 %
124	3,844 %	5,776 %	5,845 %	3,597 %	3,890 %	6,037 %
125	3,846 %	5,773 %	5,838 %	3,600 %	3,892 %	6,031 %
126	3,847 %	5,770 %	5,832 %	3,604 %	3,893 %	6,026 %
127	3,849 %	5,766 %	5,826 %	3,607 %	3,894 %	6,020 %
128	3,850 %	5,763 %	5,820 %	3,611 %	3,895 %	6,015 %
129	3,852 %	5,760 %	5,814 %	3,614 %	3,897 %	6,010 %
130	3,853 %	5,757 %	5,808 %	3,617 %	3,898 %	6,005 %
131	3,855 %	5,753 %	5,802 %	3,621 %	3,899 %	6,000 %
132	3,856 %	5,750 %	5,796 %	3,624 %	3,900 %	5,995 %
133	3,858 %	5,747 %	5,791 %	3,627 %	3,901 %	5,990 %
134	3,859 %	5,744 %	5,785 %	3,630 %	3,902 %	5,985 %
135	3,861 %	5,741 %	5,780 %	3,633 %	3,903 %	5,980 %
136	3,862 %	5,739 %	5,774 %	3,636 %	3,905 %	5,976 %
137	3,863 %	5,736 %	5,769 %	3,639 %	3,906 %	5,971 %
138	3,865 %	5,733 %	5,764 %	3,642 %	3,907 %	5,967 %
139	3,866 %	5,730 %	5,759 %	3,645 %	3,908 %	5,962 %
140	3,867 %	5,727 %	5,753 %	3,648 %	3,909 %	5,958 %
141	3,869 %	5,725 %	5,748 %	3,651 %	3,910 %	5,954 %
142	3,870 %	5,722 %	5,744 %	3,654 %	3,911 %	5,949 %
143	3,871 %	5,720 %	5,739 %	3,657 %	3,912 %	5,945 %
144	3,873 %	5,717 %	5,734 %	3,659 %	3,913 %	5,941 %
145	3,874 %	5,714 %	5,729 %	3,662 %	3,914 %	5,937 %
146	3,875 %	5,712 %	5,724 %	3,665 %	3,914 %	5,933 %
147	3,876 %	5,709 %	5,720 %	3,667 %	3,915 %	5,929 %
148	3,877 %	5,707 %	5,715 %	3,670 %	3,916 %	5,925 %
149	3,878 %	5,705 %	5,711 %	3,672 %	3,917 %	5,921 %
150	3,880 %	5,702 %	5,706 %	3,675 %	3,918 %	5,917 %

Term to maturity (in years)	Real	Renminbi-yuan	Ringgit	Russian rouble	Singapore dollar	South Korean won
1	7,491 %	2,712 %	3,521 %	8,590 %	1,782 %	1,767 %
2	8,911 %	2,826 %	3,536 %	8,966 %	1,974 %	1,854 %
3	9,812 %	2,961 %	3,574 %	8,906 %	2,092 %	1,897 %
4	10,535 %	3,077 %	3,622 %	8,882 %	2,175 %	1,931 %
5	10,946 %	3,160 %	3,666 %	8,846 %	2,250 %	1,957 %
6	11,215 %	3,241 %	3,724 %	8,821 %	2,321 %	1,971 %
7	11,384 %	3,310 %	3,795 %	8,797 %	2,388 %	1,986 %
8	11,503 %	3,358 %	3,872 %	8,785 %	2,448 %	2,006 %
9	11,589 %	3,393 %	3,948 %	8,772 %	2,503 %	2,031 %
10	11,655 %	3,422 %	4,017 %	8,744 %	2,554 %	2,056 %
11	11,671 %	3,451 %	4,077 %	8,691 %	2,603 %	2,081 %
12	11,640 %	3,479 %	4,132 %	8,618 %	2,653 %	2,100 %
13	11,574 %	3,506 %	4,183 %	8,532 %	2,706 %	2,111 %
14	11,482 %	3,532 %	4,235 %	8,438 %	2,755 %	2,114 %
15	11,371 %	3,558 %	4,291 %	8,337 %	2,794 %	2,112 %
16	11,247 %	3,582 %	4,351 %	8,233 %	2,822 %	2,106 %
17	11,112 %	3,606 %	4,412 %	8,127 %	2,842 %	2,101 %
18	10,972 %	3,628 %	4,469 %	8,021 %	2,857 %	2,099 %
19	10,827 %	3,650 %	4,521 %	7,915 %	2,872 %	2,104 %
20	10,681 %	3,671 %	4,564 %	7,812 %	2,887 %	2,116 %
21	10,535 %	3,691 %	4,596 %	7,710 %	2,906 %	2,137 %
22	10,390 %	3,710 %	4,620 %	7,611 %	2,926 %	2,165 %
23	10,247 %	3,728 %	4,637 %	7,515 %	2,948 %	2,197 %
24	10,107 %	3,745 %	4,648 %	7,422 %	2,971 %	2,233 %
25	9,971 %	3,762 %	4,655 %	7,332 %	2,994 %	2,271 %
26	9,839 %	3,778 %	4,658 %	7,246 %	3,018 %	2,309 %
27	9,711 %	3,793 %	4,657 %	7,162 %	3,041 %	2,349 %
28	9,587 %	3,807 %	4,655 %	7,082 %	3,065 %	2,388 %
29	9,468 %	3,821 %	4,651 %	7,005 %	3,088 %	2,427 %
30	9,353 %	3,835 %	4,645 %	6,932 %	3,110 %	2,466 %
31	9,243 %	3,848 %	4,638 %	6,861 %	3,132 %	2,504 %
32	9,137 %	3,860 %	4,630 %	6,793 %	3,154 %	2,541 %
33	9,035 %	3,872 %	4,621 %	6,728 %	3,175 %	2,577 %
34	8,938 %	3,883 %	4,612 %	6,666 %	3,195 %	2,612 %
35	8,844 %	3,894 %	4,603 %	6,607 %	3,215 %	2,646 %
36	8,755 %	3,905 %	4,593 %	6,550 %	3,234 %	2,679 %
37	8,669 %	3,915 %	4,583 %	6,495 %	3,252 %	2,710 %
38	8,587 %	3,925 %	4,573 %	6,443 %	3,270 %	2,741 %
39	8,509 %	3,934 %	4,564 %	6,393 %	3,287 %	2,771 %

Term to maturity (in years)	Real	Renminbi-yuan	Ringgit	Russian rouble	Singapore dollar	South Korean won
40	8,433 %	3,943 %	4,554 %	6,345 %	3,304 %	2,799 %
41	8,361 %	3,952 %	4,544 %	6,298 %	3,320 %	2,827 %
42	8,292 %	3,960 %	4,535 %	6,254 %	3,335 %	2,853 %
43	8,225 %	3,968 %	4,526 %	6,212 %	3,350 %	2,879 %
44	8,162 %	3,976 %	4,517 %	6,171 %	3,365 %	2,904 %
45	8,100 %	3,983 %	4,508 %	6,132 %	3,379 %	2,927 %
46	8,042 %	3,991 %	4,499 %	6,094 %	3,392 %	2,950 %
47	7,985 %	3,998 %	4,491 %	6,058 %	3,405 %	2,972 %
48	7,931 %	4,004 %	4,483 %	6,023 %	3,418 %	2,994 %
49	7,879 %	4,011 %	4,475 %	5,990 %	3,430 %	3,014 %
50	7,829 %	4,017 %	4,467 %	5,957 %	3,442 %	3,034 %
51	7,780 %	4,023 %	4,459 %	5,926 %	3,453 %	3,053 %
52	7,734 %	4,029 %	4,452 %	5,896 %	3,464 %	3,072 %
53	7,689 %	4,035 %	4,445 %	5,867 %	3,474 %	3,090 %
54	7,645 %	4,040 %	4,438 %	5,840 %	3,485 %	3,107 %
55	7,604 %	4,046 %	4,431 %	5,813 %	3,495 %	3,124 %
56	7,563 %	4,051 %	4,425 %	5,787 %	3,504 %	3,140 %
57	7,524 %	4,056 %	4,419 %	5,762 %	3,514 %	3,155 %
58	7,487 %	4,061 %	4,412 %	5,737 %	3,523 %	3,171 %
59	7,451 %	4,065 %	4,406 %	5,714 %	3,531 %	3,185 %
60	7,415 %	4,070 %	4,401 %	5,691 %	3,540 %	3,199 %
61	7,381 %	4,074 %	4,395 %	5,669 %	3,548 %	3,213 %
62	7,348 %	4,079 %	4,390 %	5,648 %	3,556 %	3,226 %
63	7,317 %	4,083 %	4,384 %	5,627 %	3,563 %	3,239 %
64	7,286 %	4,087 %	4,379 %	5,607 %	3,571 %	3,252 %
65	7,256 %	4,091 %	4,374 %	5,588 %	3,578 %	3,264 %
66	7,227 %	4,095 %	4,369 %	5,569 %	3,585 %	3,276 %
67	7,198 %	4,098 %	4,365 %	5,551 %	3,592 %	3,287 %
68	7,171 %	4,102 %	4,360 %	5,533 %	3,599 %	3,298 %
69	7,144 %	4,105 %	4,356 %	5,516 %	3,605 %	3,309 %
70	7,119 %	4,109 %	4,351 %	5,499 %	3,612 %	3,320 %
71	7,094 %	4,112 %	4,347 %	5,483 %	3,618 %	3,330 %
72	7,069 %	4,115 %	4,343 %	5,467 %	3,624 %	3,340 %
73	7,045 %	4,119 %	4,339 %	5,452 %	3,629 %	3,349 %
74	7,022 %	4,122 %	4,335 %	5,437 %	3,635 %	3,359 %
75	7,000 %	4,125 %	4,331 %	5,423 %	3,641 %	3,368 %
76	6,978 %	4,128 %	4,328 %	5,408 %	3,646 %	3,377 %
77	6,957 %	4,130 %	4,324 %	5,395 %	3,651 %	3,386 %
78	6,936 %	4,133 %	4,321 %	5,381 %	3,656 %	3,394 %
79	6,916 %	4,136 %	4,317 %	5,368 %	3,661 %	3,402 %

Term to maturity (in years)	Real	Renminbi-yuan	Ringgit	Russian rouble	Singapore dollar	South Korean won
80	6,896 %	4,139 %	4,314 %	5,355 %	3,666 %	3,410 %
81	6,877 %	4,141 %	4,311 %	5,343 %	3,671 %	3,418 %
82	6,858 %	4,144 %	4,307 %	5,331 %	3,675 %	3,426 %
83	6,840 %	4,146 %	4,304 %	5,319 %	3,680 %	3,433 %
84	6,822 %	4,148 %	4,301 %	5,307 %	3,684 %	3,441 %
85	6,805 %	4,151 %	4,298 %	5,296 %	3,688 %	3,448 %
86	6,788 %	4,153 %	4,295 %	5,285 %	3,693 %	3,455 %
87	6,771 %	4,155 %	4,293 %	5,274 %	3,697 %	3,462 %
88	6,755 %	4,158 %	4,290 %	5,264 %	3,701 %	3,468 %
89	6,739 %	4,160 %	4,287 %	5,253 %	3,705 %	3,475 %
90	6,723 %	4,162 %	4,285 %	5,243 %	3,708 %	3,481 %
91	6,708 %	4,164 %	4,282 %	5,233 %	3,712 %	3,487 %
92	6,693 %	4,166 %	4,279 %	5,224 %	3,716 %	3,494 %
93	6,679 %	4,168 %	4,277 %	5,214 %	3,719 %	3,500 %
94	6,664 %	4,170 %	4,275 %	5,205 %	3,723 %	3,505 %
95	6,651 %	4,172 %	4,272 %	5,196 %	3,726 %	3,511 %
96	6,637 %	4,174 %	4,270 %	5,187 %	3,730 %	3,517 %
97	6,624 %	4,175 %	4,268 %	5,178 %	3,733 %	3,522 %
98	6,611 %	4,177 %	4,265 %	5,170 %	3,736 %	3,528 %
99	6,598 %	4,179 %	4,263 %	5,162 %	3,739 %	3,533 %
100	6,585 %	4,181 %	4,261 %	5,154 %	3,743 %	3,538 %
101	6,573 %	4,182 %	4,259 %	5,146 %	3,746 %	3,543 %
102	6,561 %	4,184 %	4,257 %	5,138 %	3,749 %	3,548 %
103	6,549 %	4,185 %	4,255 %	5,130 %	3,751 %	3,553 %
104	6,537 %	4,187 %	4,253 %	5,123 %	3,754 %	3,558 %
105	6,526 %	4,189 %	4,251 %	5,115 %	3,757 %	3,562 %
106	6,515 %	4,190 %	4,249 %	5,108 %	3,760 %	3,567 %
107	6,504 %	4,192 %	4,247 %	5,101 %	3,763 %	3,571 %
108	6,493 %	4,193 %	4,245 %	5,094 %	3,765 %	3,576 %
109	6,483 %	4,195 %	4,244 %	5,087 %	3,768 %	3,580 %
110	6,472 %	4,196 %	4,242 %	5,080 %	3,770 %	3,584 %
111	6,462 %	4,197 %	4,240 %	5,074 %	3,773 %	3,589 %
112	6,452 %	4,199 %	4,238 %	5,067 %	3,775 %	3,593 %
113	6,442 %	4,200 %	4,237 %	5,061 %	3,778 %	3,597 %
114	6,433 %	4,201 %	4,235 %	5,055 %	3,780 %	3,601 %
115	6,423 %	4,203 %	4,234 %	5,048 %	3,783 %	3,605 %
116	6,414 %	4,204 %	4,232 %	5,042 %	3,785 %	3,608 %
117	6,405 %	4,205 %	4,230 %	5,036 %	3,787 %	3,612 %
118	6,396 %	4,206 %	4,229 %	5,031 %	3,789 %	3,616 %
119	6,387 %	4,208 %	4,227 %	5,025 %	3,792 %	3,620 %

Term to maturity (in years)	Real	Renminbi-yuan	Ringgit	Russian rouble	Singapore dollar	South Korean won
120	6,378 %	4,209 %	4,226 %	5,019 %	3,794 %	3,623 %
121	6,370 %	4,210 %	4,224 %	5,014 %	3,796 %	3,627 %
122	6,361 %	4,211 %	4,223 %	5,008 %	3,798 %	3,630 %
123	6,353 %	4,212 %	4,222 %	5,003 %	3,800 %	3,633 %
124	6,345 %	4,213 %	4,220 %	4,998 %	3,802 %	3,637 %
125	6,337 %	4,214 %	4,219 %	4,992 %	3,804 %	3,640 %
126	6,329 %	4,215 %	4,218 %	4,987 %	3,806 %	3,643 %
127	6,321 %	4,217 %	4,216 %	4,982 %	3,808 %	3,647 %
128	6,314 %	4,218 %	4,215 %	4,977 %	3,810 %	3,650 %
129	6,306 %	4,219 %	4,214 %	4,972 %	3,812 %	3,653 %
130	6,299 %	4,220 %	4,212 %	4,968 %	3,813 %	3,656 %
131	6,292 %	4,221 %	4,211 %	4,963 %	3,815 %	3,659 %
132	6,284 %	4,222 %	4,210 %	4,958 %	3,817 %	3,662 %
133	6,277 %	4,223 %	4,209 %	4,954 %	3,819 %	3,665 %
134	6,270 %	4,223 %	4,208 %	4,949 %	3,820 %	3,668 %
135	6,264 %	4,224 %	4,206 %	4,945 %	3,822 %	3,670 %
136	6,257 %	4,225 %	4,205 %	4,940 %	3,824 %	3,673 %
137	6,250 %	4,226 %	4,204 %	4,936 %	3,825 %	3,676 %
138	6,244 %	4,227 %	4,203 %	4,932 %	3,827 %	3,679 %
139	6,237 %	4,228 %	4,202 %	4,927 %	3,829 %	3,681 %
140	6,231 %	4,229 %	4,201 %	4,923 %	3,830 %	3,684 %
141	6,225 %	4,230 %	4,200 %	4,919 %	3,832 %	3,687 %
142	6,218 %	4,231 %	4,199 %	4,915 %	3,833 %	3,689 %
143	6,212 %	4,231 %	4,198 %	4,911 %	3,835 %	3,692 %
144	6,206 %	4,232 %	4,197 %	4,907 %	3,836 %	3,694 %
145	6,200 %	4,233 %	4,196 %	4,904 %	3,838 %	3,697 %
146	6,194 %	4,234 %	4,195 %	4,900 %	3,839 %	3,699 %
147	6,189 %	4,235 %	4,194 %	4,896 %	3,841 %	3,701 %
148	6,183 %	4,235 %	4,193 %	4,892 %	3,842 %	3,704 %
149	6,177 %	4,236 %	4,192 %	4,889 %	3,844 %	3,706 %
150	6,172 %	4,237 %	4,191 %	4,885 %	3,845 %	3,708 %

Term to maturity (in years)	Turkish lira	US dollar	Yen
1	29,780 %	2,642 %	– 0,066 %
2	27,665 %	2,853 %	– 0,043 %
3	26,359 %	2,914 %	– 0,016 %
4	24,110 %	2,931 %	0,015 %
5	21,332 %	2,935 %	0,049 %
6	20,252 %	2,941 %	0,086 %
7	19,674 %	2,952 %	0,128 %
8	18,507 %	2,963 %	0,170 %
9	17,017 %	2,976 %	0,211 %

Term to maturity (in years)	Turkish lira	US dollar	Yen
10	15,601 %	2,989 %	0,254 %
11	14,441 %	3,004 %	0,299 %
12	13,502 %	3,011 %	0,344 %
13	12,729 %	3,018 %	0,388 %
14	12,083 %	3,025 %	0,432 %
15	11,536 %	3,031 %	0,474 %
16	11,069 %	3,034 %	0,516 %
17	10,665 %	3,037 %	0,555 %
18	10,313 %	3,038 %	0,593 %
19	10,003 %	3,037 %	0,628 %
20	9,730 %	3,036 %	0,662 %
21	9,487 %	3,033 %	0,693 %
22	9,269 %	3,029 %	0,722 %
23	9,073 %	3,025 %	0,747 %
24	8,896 %	3,020 %	0,768 %
25	8,735 %	3,015 %	0,786 %
26	8,588 %	3,010 %	0,800 %
27	8,454 %	3,004 %	0,813 %
28	8,331 %	2,999 %	0,828 %
29	8,217 %	2,994 %	0,846 %
30	8,112 %	2,989 %	0,869 %
31	8,015 %	2,984 %	0,897 %
32	7,925 %	2,980 %	0,930 %
33	7,840 %	2,975 %	0,967 %
34	7,761 %	2,970 %	1,006 %
35	7,687 %	2,965 %	1,046 %
36	7,618 %	2,959 %	1,087 %
37	7,553 %	2,952 %	1,129 %
38	7,492 %	2,944 %	1,170 %
39	7,434 %	2,935 %	1,212 %
40	7,379 %	2,924 %	1,253 %
41	7,327 %	2,912 %	1,294 %
42	7,278 %	2,900 %	1,333 %
43	7,231 %	2,888 %	1,372 %
44	7,187 %	2,877 %	1,410 %
45	7,144 %	2,867 %	1,448 %
46	7,104 %	2,858 %	1,484 %
47	7,066 %	2,852 %	1,519 %
48	7,029 %	2,848 %	1,553 %
49	6,993 %	2,846 %	1,587 %

Term to maturity (in years)	Turkish lira	US dollar	Yen
50	6,960 %	2,846 %	1,619 %
51	6,927 %	2,849 %	1,650 %
52	6,896 %	2,855 %	1,681 %
53	6,867 %	2,862 %	1,710 %
54	6,838 %	2,870 %	1,739 %
55	6,810 %	2,880 %	1,767 %
56	6,784 %	2,891 %	1,794 %
57	6,758 %	2,902 %	1,820 %
58	6,733 %	2,914 %	1,845 %
59	6,710 %	2,927 %	1,870 %
60	6,687 %	2,940 %	1,894 %
61	6,664 %	2,953 %	1,917 %
62	6,643 %	2,966 %	1,939 %
63	6,622 %	2,979 %	1,961 %
64	6,602 %	2,992 %	1,982 %
65	6,583 %	3,005 %	2,003 %
66	6,564 %	3,019 %	2,023 %
67	6,545 %	3,032 %	2,042 %
68	6,528 %	3,045 %	2,061 %
69	6,510 %	3,057 %	2,080 %
70	6,494 %	3,070 %	2,097 %
71	6,477 %	3,082 %	2,115 %
72	6,462 %	3,094 %	2,132 %
73	6,446 %	3,106 %	2,148 %
74	6,431 %	3,118 %	2,164 %
75	6,417 %	3,130 %	2,180 %
76	6,403 %	3,141 %	2,195 %
77	6,389 %	3,152 %	2,210 %
78	6,376 %	3,163 %	2,225 %
79	6,363 %	3,174 %	2,239 %
80	6,350 %	3,184 %	2,252 %
81	6,337 %	3,194 %	2,266 %
82	6,325 %	3,205 %	2,279 %
83	6,313 %	3,214 %	2,292 %
84	6,302 %	3,224 %	2,304 %
85	6,291 %	3,233 %	2,317 %
86	6,280 %	3,243 %	2,329 %
87	6,269 %	3,252 %	2,340 %
88	6,258 %	3,261 %	2,352 %
89	6,248 %	3,269 %	2,363 %

Term to maturity (in years)	Turkish lira	US dollar	Yen
90	6,238 %	3,278 %	2,374 %
91	6,228 %	3,286 %	2,384 %
92	6,219 %	3,294 %	2,395 %
93	6,209 %	3,302 %	2,405 %
94	6,200 %	3,310 %	2,415 %
95	6,191 %	3,318 %	2,425 %
96	6,182 %	3,325 %	2,434 %
97	6,174 %	3,333 %	2,444 %
98	6,165 %	3,340 %	2,453 %
99	6,157 %	3,347 %	2,462 %
100	6,149 %	3,354 %	2,471 %
101	6,141 %	3,361 %	2,479 %
102	6,133 %	3,368 %	2,488 %
103	6,126 %	3,374 %	2,496 %
104	6,118 %	3,381 %	2,504 %
105	6,111 %	3,387 %	2,513 %
106	6,104 %	3,393 %	2,520 %
107	6,096 %	3,399 %	2,528 %
108	6,090 %	3,405 %	2,536 %
109	6,083 %	3,411 %	2,543 %
110	6,076 %	3,417 %	2,550 %
111	6,070 %	3,423 %	2,558 %
112	6,063 %	3,428 %	2,565 %
113	6,057 %	3,434 %	2,572 %
114	6,051 %	3,439 %	2,578 %
115	6,044 %	3,444 %	2,585 %
116	6,038 %	3,450 %	2,592 %
117	6,032 %	3,455 %	2,598 %
118	6,027 %	3,460 %	2,604 %
119	6,021 %	3,465 %	2,611 %
120	6,015 %	3,470 %	2,617 %
121	6,010 %	3,474 %	2,623 %
122	6,004 %	3,479 %	2,629 %
123	5,999 %	3,484 %	2,635 %
124	5,994 %	3,488 %	2,640 %
125	5,989 %	3,493 %	2,646 %
126	5,984 %	3,497 %	2,652 %
127	5,979 %	3,502 %	2,657 %
128	5,974 %	3,506 %	2,662 %
129	5,969 %	3,510 %	2,668 %

Term to maturity (in years)	Turkish lira	US dollar	Yen
130	5,964 %	3,514 %	2,673 %
131	5,959 %	3,518 %	2,678 %
132	5,955 %	3,522 %	2,683 %
133	5,950 %	3,526 %	2,688 %
134	5,946 %	3,530 %	2,693 %
135	5,941 %	3,534 %	2,698 %
136	5,937 %	3,538 %	2,703 %
137	5,933 %	3,541 %	2,708 %
138	5,928 %	3,545 %	2,712 %
139	5,924 %	3,549 %	2,717 %
140	5,920 %	3,552 %	2,721 %
141	5,916 %	3,556 %	2,726 %
142	5,912 %	3,559 %	2,730 %
143	5,908 %	3,563 %	2,734 %
144	5,904 %	3,566 %	2,739 %
145	5,900 %	3,569 %	2,743 %
146	5,897 %	3,573 %	2,747 %
147	5,893 %	3,576 %	2,751 %
148	5,889 %	3,579 %	2,755 %
149	5,886 %	3,582 %	2,759 %
150	5,882 %	3,585 %	2,763 %

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	33	5	0	26	1
2	0	0	40	5	0	43	1
3	0	1	46	5	2	49	0
4	0	3	49	5	4	50	0
5	0	4	53	5	5	53	0
6	1	5	56	5	7	55	0
7	2	6	59	5	9	56	0
8	3	7	61	5	12	55	0
9	3	8	63	5	13	52	0
10	4	8	65	5	14	52	0

Duration (in years)	Estonia	Finland	France	Germany	Greece	Hungary	Ireland
1	0	0	0	0	411	4	17
2	0	0	0	0	253	4	24
3	1	0	0	0	224	4	26
4	3	0	0	0	194	4	27
5	4	0	0	0	177	4	29
6	5	0	0	0	174	4	30
7	6	0	0	0	171	4	31
8	7	0	1	0	175	2	32
9	8	1	2	0	177	1	32
10	8	1	3	0	179	4	32

Duration (in years)	Italy	Latvia	Lithuania	Luxembourg	Malta	Netherlands	Poland
1	6	5	5	0	17	0	4
2	14	12	12	0	24	0	4
3	18	15	15	0	26	0	4
4	20	17	17	0	27	0	4
5	22	19	19	0	29	0	4
6	24	20	21	0	30	0	4
7	25	22	22	0	31	0	4
8	27	23	24	1	32	0	4
9	28	24	25	2	32	0	4
10	29	25	25	3	32	0	4

Duration (in years)	Portugal	Romania	Slovakia	Slovenia	Spain	Sweden	United Kingdom
1	26	9	13	20	5	0	0
2	43	18	17	23	12	0	0
3	49	20	19	27	15	0	0
4	50	21	20	32	17	0	0
5	53	23	22	35	19	0	0
6	55	24	23	38	21	0	0
7	56	26	25	40	22	0	0
8	55	27	26	41	24	0	0
9	52	29	26	42	25	0	0
10	52	26	26	42	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	1	30	0	10	0	0	9
4	2	38	0	10	0	0	10
5	2	39	0	10	0	0	10
6	3	43	0	10	0	0	10
7	3	45	0	10	0	0	10
8	7	43	0	10	0	0	10
9	5	40	0	10	1	0	10
10	5	42	0	10	1	0	10

Duration (in years)	New Zealand	Russia	Singapore	South Africa	South Korea	Thailand	Taiwan
1	0	0	0	4	10	0	4
2	0	0	0	7	12	0	4
3	0	0	0	7	12	0	4
4	0	0	0	6	14	0	4

Duration (in years)	New Zealand	Russia	Singapore	South Africa	South Korea	Thailand	Taiwan
5	0	2	0	5	15	0	4
6	0	5	0	6	15	0	4
7	0	8	0	8	16	0	4
8	0	12	0	9	16	0	4
9	0	18	0	9	16	0	4
10	0	18	0	10	16	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	21	46	123	237	568	1 182
2	6	21	46	123	237	568	971
3	7	23	47	116	233	565	805
4	8	25	50	118	232	563	675
5	10	28	55	120	232	563	572
6	11	30	58	125	232	563	563
7	12	33	60	128	232	563	563
8	12	33	60	126	232	563	563
9	12	34	60	125	232	563	563
10	13	35	60	125	232	563	563
11	13	36	60	125	232	563	563
12	14	37	60	125	232	563	563
13	14	38	60	125	232	563	563
14	14	38	60	125	232	563	563
15	14	38	60	125	232	563	563
16	14	38	60	125	232	563	563
17	14	38	60	125	232	563	563
18	14	38	60	125	232	563	563
19	14	38	60	125	232	563	563

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
20	15	38	60	125	232	563	563
21	15	38	60	125	232	563	563
22	16	38	60	125	232	563	563
23	17	38	60	125	232	563	563
24	18	38	60	125	232	563	563
25	18	38	60	125	232	563	563
26	19	38	60	125	232	563	563
27	20	38	60	125	232	563	563
28	21	38	60	125	232	563	563
29	21	38	60	125	232	563	563
30	22	38	60	125	232	563	563

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	11	26	51	128	242	574	1 223
2	13	28	53	130	244	576	1 006
3	15	31	55	123	241	572	834
4	16	33	57	125	240	571	698
5	17	35	62	128	239	571	591
6	17	37	65	132	238	570	570
7	18	39	66	134	238	569	569
8	18	39	65	132	237	569	569
9	17	39	65	130	237	569	569
10	17	40	64	130	236	568	568
11	17	41	64	129	236	568	568
12	17	41	64	129	235	567	567
13	17	41	63	128	235	566	566
14	17	41	62	127	234	566	566
15	16	40	62	127	234	565	565
16	16	40	61	126	233	565	565
17	15	39	61	126	233	565	565
18	15	39	61	126	233	565	565
19	15	39	61	126	233	565	565
20	16	40	62	127	233	565	565
21	16	40	62	127	234	565	565
22	17	40	62	127	234	565	565
23	18	40	62	127	234	566	566
24	18	40	62	127	234	566	566
25	19	41	62	127	234	566	566
26	19	41	62	127	234	566	566
27	21	41	62	127	234	566	566
28	21	41	62	127	234	566	566
29	22	41	62	127	234	566	566
30	22	41	62	127	234	566	566

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	46	123	237	568	1 182
2	6	20	46	123	237	568	970
3	7	23	47	116	233	564	805
4	8	25	50	117	232	563	675
5	9	28	55	120	232	563	572
6	11	30	58	125	232	563	563
7	12	33	60	128	232	563	563
8	12	33	60	126	232	563	563
9	12	34	59	125	232	563	563
10	13	35	60	125	232	563	563
11	13	36	60	125	232	563	563
12	14	37	60	125	232	563	563
13	14	38	60	125	232	563	563
14	14	38	60	125	232	563	563
15	14	38	60	125	232	563	563
16	14	38	60	125	232	563	563
17	14	38	60	125	232	563	563
18	14	38	60	125	232	563	563
19	14	38	60	125	232	563	563
20	15	38	60	125	232	563	563
21	15	38	60	125	232	563	563
22	16	38	60	125	232	563	563
23	17	38	60	125	232	563	563
24	18	38	60	125	232	563	563
25	18	38	60	125	232	563	563
26	19	38	60	125	232	563	563
27	20	38	60	125	232	563	563
28	21	38	60	125	232	563	563
29	21	38	60	125	232	563	563
30	22	38	60	125	232	563	563

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	83	98	123	201	314	646	1 194
2	79	94	119	196	310	642	992
3	83	99	123	191	309	640	827
4	81	98	123	191	305	637	696
5	80	99	125	191	302	634	634
6	79	99	127	194	300	632	632
7	78	99	126	194	298	630	630
8	77	98	125	191	297	628	628
9	76	98	123	189	295	627	627

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
10	73	95	120	185	292	623	623
11	70	94	117	182	289	620	620
12	69	93	116	181	287	619	619
13	69	93	115	180	286	618	618
14	69	92	114	179	286	618	618
15	68	92	114	179	286	617	617
16	67	91	113	178	285	617	617
17	67	91	113	178	284	616	616
18	66	90	112	177	284	615	615
19	65	89	111	176	283	615	615
20	65	89	110	176	282	614	614
21	64	88	110	175	282	613	613
22	63	87	109	174	281	612	612
23	62	86	108	173	280	611	611
24	61	85	107	172	279	610	610
25	60	84	106	171	278	609	609
26	59	83	105	170	277	608	608
27	58	82	104	169	276	607	607
28	57	81	103	168	274	606	606
29	56	80	102	167	273	605	605
30	55	79	101	166	272	604	604

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	9	24	50	127	240	572	1 181
2	11	26	51	129	242	574	972
3	13	29	54	122	240	571	806
4	15	32	57	125	239	571	676
5	17	35	62	128	239	571	574
6	18	38	66	132	239	571	571
7	19	40	67	135	239	570	570
8	18	40	66	133	238	570	570
9	18	40	66	131	238	569	569
10	18	41	65	131	237	569	569
11	18	42	65	130	237	569	569
12	18	42	65	130	236	568	568
13	19	42	64	129	236	568	568
14	18	42	64	129	236	568	568
15	18	42	64	129	236	567	567
16	18	42	63	128	235	567	567
17	18	41	63	128	235	567	567
18	18	41	63	128	235	567	567
19	18	42	63	128	235	567	567

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
20	18	42	64	129	236	567	567
21	18	42	64	129	236	568	568
22	19	43	64	129	236	568	568
23	19	43	65	130	236	568	568
24	19	43	65	130	236	568	568
25	19	43	65	130	236	568	568
26	19	43	65	130	236	568	568
27	20	43	65	130	236	568	568
28	21	43	65	130	236	568	568
29	21	43	64	129	236	568	568
30	22	43	64	129	236	568	568

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	51	66	91	168	282	613	1 190
2	55	69	95	172	286	617	978
3	60	76	100	169	286	618	812
4	64	81	105	173	287	619	683
5	66	84	111	177	288	620	620
6	67	87	115	181	288	620	620
7	68	88	116	183	287	619	619
8	66	88	114	181	286	618	618
9	65	87	113	178	285	616	616
10	64	87	111	176	283	615	615
11	63	86	110	175	282	613	613
12	62	86	108	173	280	612	612
13	61	85	107	172	279	610	610
14	60	84	105	170	277	609	609
15	58	82	104	169	276	608	608
16	57	81	103	168	275	607	607
17	56	80	102	167	274	606	606
18	56	80	101	166	273	605	605
19	55	79	101	166	272	604	604
20	54	78	100	165	272	604	604
21	54	78	99	164	271	603	603
22	53	77	99	164	270	602	602
23	52	76	98	163	270	601	601
24	51	75	97	162	269	600	600
25	50	74	96	161	268	600	600
26	50	73	95	160	267	599	599
27	49	73	94	159	266	598	598
28	48	72	94	159	265	597	597
29	47	71	93	158	265	596	596
30	46	70	92	157	264	595	595

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	5	20	45	122	236	568	1 181
2	5	20	45	122	236	568	970
3	6	22	46	115	232	564	804
4	7	24	49	117	231	563	674
5	9	27	54	120	231	563	572
6	10	29	58	124	231	563	563
7	11	32	59	127	231	563	563
8	11	32	59	125	231	563	563
9	11	33	59	124	231	563	563
10	12	35	59	124	231	563	563
11	12	36	59	124	231	563	563
12	13	36	59	124	231	563	563
13	13	37	59	124	231	563	563
14	13	37	59	124	231	563	563
15	13	37	59	124	231	563	563
16	13	37	59	124	231	563	563
17	13	37	59	124	231	563	563
18	14	37	59	124	231	563	563
19	14	37	59	124	231	563	563
20	15	37	59	124	231	563	563
21	15	37	59	124	231	563	563
22	16	37	59	124	231	563	563
23	17	37	59	124	231	563	563
24	18	37	59	124	231	563	563
25	18	37	59	124	231	563	563
26	19	37	59	124	231	563	563
27	20	37	59	124	231	563	563
28	21	37	59	124	231	563	563
29	21	37	59	124	231	563	563
30	22	37	59	124	231	563	563

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	7	25	56	155	255	586	1 205
2	7	25	56	155	255	586	990
3	8	27	56	139	251	582	820
4	10	29	58	128	249	581	687
5	11	31	58	116	248	579	582
6	14	34	62	108	247	578	578
7	16	37	62	101	246	577	577
8	16	38	61	93	244	576	576
9	19	45	64	87	243	575	575

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
10	18	45	62	84	243	574	574
11	17	44	60	83	242	573	573
12	17	43	61	84	241	573	573
13	17	44	61	84	240	572	572
14	17	44	61	84	239	571	571
15	17	44	61	84	239	570	570
16	17	44	61	84	237	569	569
17	17	44	61	84	236	568	568
18	17	44	61	84	236	567	567
19	17	44	61	84	236	567	567
20	17	44	61	84	236	568	568
21	17	44	61	84	236	568	568
22	17	44	61	84	236	568	568
23	18	44	61	84	236	567	567
24	18	44	61	84	235	567	567
25	18	44	61	84	235	566	566
26	19	44	61	84	234	566	566
27	20	44	61	84	234	565	565
28	21	44	61	84	233	565	565
29	21	44	61	84	233	564	564
30	22	44	61	84	232	564	564

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	87	101	127	204	317	649	1 250
2	84	99	124	202	315	647	1 030
3	83	99	123	192	309	641	855
4	82	99	124	192	306	637	718
5	81	99	126	192	303	634	634
6	80	99	127	194	301	632	632
7	78	99	126	194	298	630	630
8	76	97	123	190	295	627	627
9	73	95	121	186	293	625	625
10	72	95	119	184	291	623	623
11	71	94	118	183	290	621	621
12	70	93	116	181	288	619	619
13	69	92	114	179	286	618	618
14	67	91	113	178	285	616	616
15	66	90	111	177	283	615	615
16	65	88	110	175	282	614	614
17	63	87	109	174	281	613	613
18	62	86	108	173	280	612	612
19	62	85	107	172	279	611	611

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
20	61	85	106	171	278	610	610
21	60	84	106	171	277	609	609
22	59	83	105	170	276	608	608
23	58	82	104	169	275	607	607
24	57	81	103	168	274	606	606
25	56	80	102	167	273	605	605
26	55	79	101	166	272	604	604
27	54	78	100	165	271	603	603
28	53	77	99	164	270	602	602
29	52	76	98	163	269	601	601
30	51	75	97	162	268	600	600

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	60	74	100	177	291	622	1 210
2	58	73	99	176	289	621	995
3	58	74	98	167	284	616	827
4	58	75	100	168	282	614	696
5	58	76	103	169	280	612	612
6	57	77	105	171	278	610	610
7	57	77	105	172	276	608	608
8	55	76	103	169	275	606	606
9	53	75	101	167	273	605	605
10	53	75	100	165	272	603	603
11	52	75	99	164	271	602	602
12	52	75	98	163	270	602	602
13	51	75	97	162	269	601	601
14	51	75	97	162	268	600	600
15	50	74	96	161	268	599	599
16	49	73	95	160	267	598	598
17	49	72	94	159	266	598	598
18	48	72	94	159	265	597	597
19	47	71	93	158	265	597	597
20	47	71	93	158	265	596	596
21	47	71	93	158	264	596	596
22	46	70	92	157	264	596	596
23	46	70	92	157	263	595	595
24	45	69	91	156	263	595	595
25	45	69	90	155	262	594	594
26	44	68	90	155	262	593	593
27	43	67	89	154	261	593	593
28	43	67	88	153	260	592	592
29	42	66	88	153	259	591	591
30	41	65	87	152	259	590	590

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	71	148	262	593	1 210
2	31	46	71	148	262	594	996
3	31	47	71	140	257	589	826
4	32	49	73	141	255	587	692
5	32	51	78	143	254	586	587
6	33	52	80	147	254	585	585
7	33	54	81	149	253	584	584
8	32	53	80	146	252	583	583
9	31	53	79	145	251	583	583
10	31	54	78	144	250	582	582
11	31	54	78	143	250	581	581
12	31	54	77	142	249	581	581
13	30	54	76	141	248	580	580
14	30	54	76	141	247	579	579
15	29	53	75	140	247	578	578
16	28	52	74	139	246	577	577
17	28	52	73	138	245	577	577
18	27	51	73	138	245	576	576
19	27	51	73	138	245	576	576
20	27	51	73	138	245	576	576
21	27	51	73	138	245	576	576
22	27	51	73	138	245	576	576
23	27	51	73	138	244	576	576
24	27	51	72	137	244	576	576
25	27	50	72	137	244	576	576
26	26	50	72	137	244	575	575
27	26	50	72	137	244	575	575
28	26	50	71	136	243	575	575
29	26	49	71	136	243	575	575
30	25	49	71	136	243	574	574

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	26	103	217	548	1 174
2	1	5	27	104	218	549	964
3	2	5	28	97	214	546	800
4	3	6	31	99	213	545	670
5	4	9	36	102	213	544	568
6	4	11	39	106	213	544	544
7	5	14	41	109	213	544	544
8	6	14	41	107	213	544	544
9	7	15	41	106	213	544	544

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
10	8	16	41	106	213	544	544
11	8	19	42	107	214	545	545
12	9	18	41	106	212	544	544
13	10	20	42	107	213	545	545
14	11	20	42	107	213	545	545
15	11	18	40	105	212	544	544
16	12	17	39	104	211	543	543
17	12	17	39	104	211	543	543
18	14	17	39	104	211	543	543
19	14	19	40	105	211	543	543
20	15	19	40	105	212	544	544
21	15	20	41	106	212	544	544
22	16	20	41	106	213	544	544
23	17	22	41	106	213	544	544
24	18	22	41	106	212	544	544
25	18	23	42	106	212	544	544
26	19	23	43	106	212	544	544
27	19	25	45	105	212	544	544
28	21	25	46	105	212	544	544
29	21	26	47	105	212	544	544
30	22	27	48	105	212	544	544

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	62	87	164	278	610	1 223
2	47	62	87	164	278	610	1 004
3	48	64	88	156	274	605	832
4	48	65	90	158	272	603	697
5	49	67	94	159	271	602	602
6	49	68	96	163	269	601	601
7	49	69	97	164	268	600	600
8	48	69	95	162	267	599	599
9	47	69	94	160	266	598	598
10	46	69	93	159	265	597	597
11	46	69	93	158	264	596	596
12	46	69	92	157	264	595	595
13	45	69	91	156	263	595	595
14	45	69	90	155	262	594	594
15	44	68	90	155	262	593	593
16	43	67	89	154	261	592	592
17	43	66	88	153	260	592	592
18	42	66	88	153	260	591	591
19	42	65	87	152	259	591	591

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
20	41	65	87	152	259	591	591
21	41	65	87	152	259	590	590
22	41	65	87	152	258	590	590
23	40	64	86	151	258	589	589
24	40	64	86	151	257	589	589
25	39	63	85	150	257	588	588
26	39	63	84	149	256	588	588
27	38	62	84	149	255	587	587
28	37	61	83	148	255	586	586
29	37	61	82	147	254	586	586
30	36	60	82	147	254	585	585

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	15	30	56	133	246	578	1 215
2	20	34	60	137	250	582	999
3	24	40	64	133	250	581	829
4	27	45	69	137	251	583	695
5	30	49	76	141	252	584	589
6	29	49	77	144	250	582	582
7	34	55	82	150	254	586	586
8	33	54	81	147	253	584	584
9	34	56	81	147	254	585	585
10	36	59	83	148	255	587	587
11	38	61	84	149	256	588	588
12	39	62	85	150	257	588	588
13	40	63	85	150	257	589	589
14	40	64	86	151	258	589	589
15	40	64	86	151	258	589	589
16	40	63	85	150	257	589	589
17	40	63	85	150	257	589	589
18	39	63	85	150	256	588	588
19	38	62	84	149	256	588	588
20	38	62	84	149	256	588	588
21	38	62	84	149	256	588	588
22	38	62	84	149	256	587	587
23	38	62	84	149	255	587	587
24	37	61	83	148	255	587	587
25	37	61	83	148	254	586	586
26	36	60	82	147	254	586	586
27	36	60	82	147	253	585	585
28	35	59	81	146	253	585	585
29	35	59	81	146	252	584	584
30	34	58	80	145	252	584	584

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	14	29	55	132	245	577	1 229
2	16	30	56	133	247	578	1 010
3	18	34	58	127	244	575	837
4	19	37	61	129	243	575	701
5	21	39	66	132	243	575	594
6	22	42	70	137	243	575	575
7	23	44	72	139	243	575	575
8	23	45	71	138	243	575	575
9	24	46	71	137	243	575	575
10	24	47	71	137	243	575	575
11	25	48	72	137	244	575	575
12	26	49	72	137	244	575	575
13	26	50	72	137	244	575	575
14	26	50	72	137	244	576	576
15	26	50	72	137	244	576	576
16	26	50	72	137	244	575	575
17	26	50	72	137	244	575	575
18	26	50	72	137	244	575	575
19	26	50	72	137	244	575	575
20	26	50	72	137	244	575	575
21	26	50	72	137	244	575	575
22	26	50	72	137	244	575	575
23	26	50	72	137	243	575	575
24	25	49	71	136	243	575	575
25	25	49	71	136	243	574	574
26	25	49	70	135	242	574	574
27	24	48	70	135	242	573	573
28	24	48	70	135	241	573	573
29	24	48	69	134	241	573	573
30	23	47	69	134	241	572	572

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	65	90	167	281	613	1 244
2	53	68	93	170	284	616	1 025
3	57	73	97	166	283	614	851
4	59	76	101	168	283	614	714
5	61	79	106	172	283	615	615
6	63	82	110	177	284	615	615
7	64	84	112	179	283	615	615
8	63	84	111	177	283	614	614
9	63	85	110	176	283	614	614

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
10	63	86	110	176	282	614	614
11	63	87	110	175	282	614	614
12	63	87	109	174	281	613	613
13	63	87	109	174	280	612	612
14	62	86	108	173	279	611	611
15	61	85	107	172	279	610	610
16	60	84	106	171	278	609	609
17	59	83	105	170	277	609	609
18	59	83	104	169	276	608	608
19	58	82	104	169	275	607	607
20	57	81	103	168	275	606	606
21	57	80	102	167	274	606	606
22	56	80	101	167	273	605	605
23	55	79	101	166	272	604	604
24	54	78	100	165	271	603	603
25	53	77	99	164	271	602	602
26	52	76	98	163	270	601	601
27	51	75	97	162	269	600	600
28	50	74	96	161	268	599	599
29	49	73	95	160	267	599	599
30	49	73	94	159	266	598	598

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	81	96	121	198	312	644	1 266
2	85	100	126	203	316	648	1 048
3	87	103	127	196	313	644	872
4	87	104	129	197	311	643	732
5	90	109	136	201	313	644	644
6	92	112	140	207	313	645	645
7	94	114	142	209	313	645	645
8	94	116	142	209	314	646	646
9	95	117	143	208	315	646	646
10	96	118	143	208	315	646	646
11	96	119	142	207	314	646	646
12	95	119	141	207	313	645	645
13	94	118	140	205	312	644	644
14	93	117	139	204	311	642	642
15	92	115	137	202	309	641	641
16	90	114	136	201	308	639	639
17	89	113	134	199	306	638	638
18	87	111	133	198	305	636	636
19	86	110	132	197	303	635	635

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
20	85	109	130	195	302	634	634
21	83	107	129	194	301	632	632
22	82	106	127	192	299	631	631
23	80	104	126	191	298	629	629
24	79	103	124	189	296	628	628
25	77	101	123	188	295	626	626
26	75	99	121	186	293	625	625
27	74	98	120	185	291	623	623
28	72	96	118	183	290	622	622
29	71	95	117	182	288	620	620
30	69	93	115	180	287	619	619

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	8	22	48	125	239	570	1 232
2	11	26	51	128	242	574	1 013
3	15	30	55	123	241	572	840
4	18	35	59	127	241	573	703
5	20	39	66	131	242	574	596
6	22	42	70	137	243	575	575
7	24	44	72	139	243	575	575
8	24	45	71	138	243	575	575
9	24	46	71	137	243	575	575
10	24	47	72	137	243	575	575
11	25	48	72	137	243	575	575
12	25	49	71	136	243	575	575
13	25	49	71	136	243	574	574
14	24	48	70	135	242	573	573
15	24	48	69	134	241	573	573
16	23	47	68	133	240	572	572
17	22	46	68	133	240	571	571
18	22	46	68	133	239	571	571
19	22	46	67	132	239	571	571
20	22	46	68	133	239	571	571
21	22	46	68	133	240	571	571
22	22	46	68	133	240	571	571
23	22	46	68	133	240	571	571
24	22	46	68	133	239	571	571
25	22	46	67	133	239	571	571
26	22	46	67	132	239	571	571
27	21	45	67	132	239	571	571
28	21	45	67	132	239	570	570
29	22	45	67	132	239	570	570
30	22	45	67	132	238	570	570

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	94	108	134	211	324	656	1 331
2	94	109	134	211	325	656	1 094
3	95	111	135	203	321	652	907
4	96	113	137	205	319	651	760
5	97	115	142	207	319	650	650
6	97	116	145	211	318	650	650
7	98	118	146	213	317	649	649
8	97	119	145	212	317	649	649
9	96	118	144	210	316	648	648
10	95	118	143	208	315	646	646
11	94	117	141	206	313	644	644
12	93	116	139	204	311	642	642
13	91	115	137	202	309	641	641
14	90	113	135	200	307	639	639
15	88	112	133	198	305	637	637
16	86	109	131	196	303	635	635
17	84	108	130	195	301	633	633
18	82	106	128	193	300	632	632
19	81	105	127	192	298	630	630
20	80	104	126	191	297	629	629
21	79	103	125	190	296	628	628
22	78	102	124	189	295	627	627
23	77	101	122	187	294	626	626
24	75	99	121	186	293	625	625
25	74	98	120	185	292	623	623
26	73	97	119	184	291	622	622
27	72	96	118	183	290	621	621
28	71	95	117	182	288	620	620
29	70	94	116	181	287	619	619
30	69	93	115	180	286	618	618

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	343	358	383	460	574	906	1 341
2	79	94	120	197	310	642	1 098
3	83	99	123	192	309	641	908
4	87	104	128	196	311	642	760
5	89	108	135	200	312	643	644
6	91	111	139	206	312	644	644
7	93	113	141	209	313	644	644
8	94	115	141	208	313	645	645
9	94	116	141	207	314	645	645

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
10	94	117	141	206	313	645	645
11	95	118	141	206	313	645	645
12	95	119	141	206	313	645	645
13	96	120	142	207	313	645	645
14	97	120	142	207	314	646	646
15	97	121	143	208	315	646	646
16	98	122	144	209	316	647	647
17	99	123	145	210	317	648	648
18	100	124	146	211	318	649	649
19	101	125	147	212	319	650	650
20	102	126	148	213	319	651	651
21	102	126	148	213	320	651	651
22	102	126	147	213	319	651	651
23	101	125	147	212	319	650	650
24	100	124	146	211	318	650	650
25	99	123	145	210	317	649	649
26	98	122	144	209	316	647	647
27	97	121	143	208	315	646	646
28	96	120	142	207	313	645	645
29	94	118	140	205	312	644	644
30	93	117	139	204	311	642	642

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	10	36	113	227	558	1 195
2	1	10	36	113	227	558	981
3	2	12	36	105	223	554	812
4	3	14	38	106	221	552	680
5	4	16	43	108	220	551	576
6	4	17	45	112	219	550	550
7	5	19	47	114	218	550	550
8	7	19	45	112	217	549	549
9	7	19	44	110	216	548	548
10	8	20	44	109	216	548	548
11	8	20	44	109	216	547	547
12	9	21	44	109	216	547	547
13	10	22	44	109	216	547	547
14	11	22	44	109	216	548	548
15	11	23	44	109	216	548	548
16	12	23	44	109	216	548	548
17	12	23	45	110	217	548	548
18	14	23	45	110	217	549	549
19	15	24	46	111	218	549	549

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
20	15	25	47	112	219	550	550
21	16	26	48	113	219	551	551
22	17	26	48	113	220	552	552
23	18	27	49	114	221	552	552
24	18	28	49	114	221	553	553
25	18	28	50	115	222	553	553
26	19	28	50	115	222	554	554
27	20	29	51	116	222	554	554
28	21	29	51	116	223	554	554
29	21	29	51	116	223	555	555
30	22	30	51	116	223	555	555

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	53	68	93	170	284	616	1 222
2	54	69	94	171	285	617	1 003
3	55	71	95	164	281	613	831
4	56	73	97	165	279	611	697
5	56	74	101	167	278	610	610
6	57	76	104	171	278	609	609
7	56	77	105	172	276	608	608
8	56	77	104	170	276	607	607
9	55	77	103	168	275	607	607
10	54	77	102	167	273	605	605
11	53	77	100	165	272	604	604
12	52	76	99	164	270	602	602
13	51	75	97	162	269	600	600
14	50	74	95	160	267	599	599
15	48	72	94	159	266	597	597
16	47	70	92	157	264	596	596
17	45	69	91	156	263	595	595
18	44	68	90	155	262	593	593
19	43	67	89	154	261	593	593
20	43	67	89	154	260	592	592
21	42	66	88	153	260	591	591
22	42	66	87	152	259	591	591
23	41	65	87	152	258	590	590
24	40	64	86	151	258	589	589
25	40	63	85	150	257	589	589
26	39	63	85	150	256	588	588
27	38	62	84	149	256	587	587
28	37	61	83	148	255	587	587
29	37	61	83	148	254	586	586
30	36	60	82	147	254	585	585

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	115	130	155	232	346	678	1 322
2	116	131	156	233	347	679	1 089
3	119	134	159	227	345	676	903
4	120	137	162	230	344	676	757
5	122	140	167	233	344	676	676
6	123	142	170	237	344	675	675
7	123	144	172	239	343	675	675
8	123	144	170	237	342	674	674
9	122	144	169	235	341	673	673
10	121	144	168	234	340	672	672
11	120	143	167	232	339	670	670
12	119	142	165	230	337	669	669
13	117	141	163	228	335	666	666
14	115	139	161	226	333	664	664
15	113	137	159	224	330	662	662
16	110	134	156	221	328	659	659
17	108	132	154	219	326	657	657
18	106	130	152	217	323	655	655
19	104	128	149	214	321	653	653
20	102	126	148	213	320	651	651
21	100	124	146	211	318	649	649
22	98	122	144	209	316	648	648
23	97	121	142	207	314	646	646
24	95	119	141	206	312	644	644
25	93	117	139	204	311	642	642
26	91	115	137	202	309	640	640
27	90	114	135	200	307	639	639
28	88	112	134	199	305	637	637
29	86	110	132	197	304	636	636
30	85	109	131	196	302	634	634

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	173	187	213	290	404	735	1 330
2	182	197	222	299	413	745	1 110
3	187	203	227	296	413	745	928
4	189	207	231	299	413	745	784
5	191	209	236	301	413	744	744
6	190	210	238	305	411	743	743
7	190	211	238	306	410	741	741
8	188	210	236	303	408	740	740
9	187	209	235	300	407	738	738

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
10	186	209	233	299	405	737	737
11	185	208	231	297	403	735	735
12	183	206	229	294	401	732	732
13	180	204	226	291	398	729	729
14	177	201	223	288	395	726	726
15	174	198	220	285	391	723	723
16	171	195	216	281	388	720	720
17	167	191	213	278	385	717	717
18	164	188	210	275	382	714	714
19	161	185	207	272	379	710	710
20	158	182	204	269	376	707	707
21	155	179	201	266	373	704	704
22	152	176	198	263	369	701	701
23	149	173	195	260	366	698	698
24	146	170	191	256	363	695	695
25	143	166	188	253	360	692	692
26	139	163	185	250	357	689	689
27	137	160	182	247	354	686	686
28	134	158	179	244	351	683	683
29	131	155	177	242	348	680	680
30	128	152	174	239	346	677	677

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	28	43	69	146	259	591	1 239
2	29	44	70	147	260	592	1 017
3	31	46	71	139	257	588	843
4	31	49	73	141	255	587	707
5	32	51	78	143	255	586	599
6	33	52	80	147	254	585	585
7	33	54	81	149	253	585	585
8	32	53	80	146	252	583	583
9	31	53	79	144	251	582	582
10	31	54	78	143	250	582	582
11	31	54	77	143	249	581	581
12	31	54	77	142	249	580	580
13	30	54	76	141	248	580	580
14	30	54	76	141	248	579	579
15	30	54	75	140	247	579	579
16	30	53	75	140	247	579	579
17	29	53	75	140	247	579	579
18	29	53	75	140	247	579	579
19	30	53	75	140	247	579	579

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
20	30	54	75	140	247	579	579
21	30	54	75	140	247	579	579
22	30	54	75	140	247	579	579
23	30	53	75	140	247	579	579
24	29	53	75	140	247	578	578
25	29	53	75	140	247	578	578
26	29	53	75	140	246	578	578
27	29	53	74	139	246	578	578
28	28	52	74	139	246	577	577
29	28	52	74	139	246	577	577
30	28	52	73	138	245	577	577

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	25	39	65	142	256	587	1 254
2	27	41	67	144	257	589	1 029
3	29	45	69	138	255	587	852
4	32	49	73	141	255	587	713
5	34	52	79	145	256	588	604
6	35	55	83	150	256	588	588
7	37	58	85	153	257	588	588
8	37	58	85	151	257	588	588
9	37	59	85	150	257	589	589
10	38	61	85	151	257	589	589
11	39	62	86	151	258	589	589
12	40	63	86	151	258	589	589
13	40	64	86	151	258	589	589
14	40	64	86	151	258	589	589
15	40	64	86	151	257	589	589
16	39	63	85	150	257	589	589
17	39	63	85	150	257	589	589
18	39	63	85	150	257	589	589
19	39	63	85	150	257	589	589
20	40	64	86	151	257	589	589
21	40	64	86	151	257	589	589
22	40	64	86	151	257	589	589
23	40	64	85	150	257	589	589
24	39	63	85	150	257	589	589
25	39	63	85	150	257	588	588
26	39	63	84	149	256	588	588
27	38	62	84	149	256	587	587
28	38	62	83	148	255	587	587
29	37	61	83	148	255	586	586
30	37	61	82	147	254	586	586

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	125	140	165	242	356	687	1 351
2	123	138	164	241	354	686	1 114
3	123	139	163	232	350	681	922
4	124	141	165	233	348	679	772
5	124	143	170	235	347	678	678
6	124	143	172	238	345	677	677
7	124	145	172	240	344	675	675
8	123	145	171	237	343	675	675
9	122	144	169	235	342	673	673
10	122	145	169	234	341	673	673
11	122	145	168	234	340	672	672
12	121	145	167	232	339	671	671
13	120	144	166	231	338	669	669
14	119	143	165	230	336	668	668
15	117	141	162	228	334	666	666
16	115	139	160	225	332	664	664
17	112	136	158	223	329	661	661
18	110	134	155	220	327	659	659
19	107	131	153	218	325	657	657
20	105	129	151	216	323	654	654
21	103	127	149	214	321	652	652
22	101	125	147	212	318	650	650
23	99	123	144	209	316	648	648
24	96	120	142	207	314	646	646
25	94	118	140	205	312	643	643
26	92	116	138	203	310	641	641
27	90	114	136	201	308	639	639
28	88	112	134	199	306	637	637
29	86	110	132	197	304	635	635
30	84	108	130	195	302	633	633

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	10	36	113	226	558	1 221
2	1	12	38	115	228	560	1 004
3	2	16	40	109	226	558	832
4	3	20	44	112	226	558	697
5	5	23	50	116	227	559	591
6	6	26	54	121	227	559	559
7	8	29	56	124	228	559	559
8	8	29	56	122	228	559	559
9	8	30	56	121	228	559	559

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
10	8	31	56	121	228	559	559
11	9	32	55	121	227	559	559
12	10	33	55	120	227	559	559
13	10	33	55	120	227	558	558
14	11	33	55	120	227	558	558
15	12	33	55	120	226	558	558
16	12	32	54	119	226	558	558
17	14	32	54	119	226	558	558
18	14	32	54	119	226	558	558
19	15	33	55	120	226	558	558
20	15	33	55	120	227	559	559
21	16	34	56	121	227	559	559
22	17	34	56	121	228	559	559
23	18	34	56	121	228	560	560
24	18	35	57	122	228	560	560
25	19	35	57	122	229	560	560
26	19	35	57	122	229	560	560
27	21	35	57	122	229	561	561
28	21	35	57	122	229	561	561
29	22	36	57	122	229	561	561
30	22	36	57	122	229	561	561

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	35	50	75	152	266	598	1 221
2	36	50	76	153	267	598	1 002
3	36	52	76	144	262	593	830
4	36	53	77	145	260	591	695
5	36	55	81	147	258	590	590
6	39	58	86	153	260	591	591
7	36	57	84	152	256	588	588
8	40	61	88	154	260	591	591
9	39	61	87	152	259	590	590
10	34	57	81	146	253	585	585
11	30	53	76	141	248	580	580
12	27	50	73	138	245	576	576
13	24	48	70	135	242	574	574
14	23	47	68	133	240	572	572
15	21	45	67	132	239	570	570
16	20	43	65	130	237	569	569
17	19	43	64	129	236	568	568
18	18	42	64	129	236	567	567
19	18	41	63	128	235	567	567

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
20	18	42	63	128	235	567	567
21	18	42	63	128	235	567	567
22	18	42	63	128	235	567	567
23	18	42	63	128	235	567	567
24	18	42	63	128	235	567	567
25	19	41	63	128	235	567	567
26	19	41	63	128	235	567	567
27	21	41	63	128	235	566	566
28	21	41	63	128	235	566	566
29	21	41	63	128	235	566	566
30	22	41	63	128	234	566	566

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	192	206	232	309	423	754	1 786
2	189	204	229	306	420	752	1 441
3	186	202	226	294	412	743	1 180
4	183	200	224	292	406	738	969
5	179	198	225	290	401	733	800
6	176	195	223	290	397	728	728
7	173	193	221	288	392	724	724
8	168	190	216	283	388	720	720
9	164	186	212	277	384	716	716
10	161	183	208	273	380	711	711
11	157	180	204	269	376	707	707
12	154	177	200	265	372	703	703
13	150	174	196	261	368	699	699
14	147	170	192	257	364	696	696
15	143	167	189	254	361	692	692
16	140	164	185	250	357	689	689
17	136	160	182	247	354	686	686
18	134	157	179	244	351	683	683
19	131	155	176	242	348	680	680
20	128	152	174	239	346	677	677
21	125	149	171	236	343	675	675
22	123	147	169	234	340	672	672
23	120	144	166	231	338	669	669
24	118	142	164	229	335	667	667
25	115	139	161	226	333	665	665
26	113	137	159	224	330	662	662
27	111	135	156	221	328	660	660
28	109	132	154	219	326	658	658
29	106	130	152	217	324	655	655
30	104	128	150	215	322	653	653

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	8	26	51	108	244	576	1 237
2	8	26	51	108	244	576	1 018
3	9	29	53	103	242	574	843
4	12	34	56	100	243	574	706
5	16	40	61	103	244	575	597
6	18	43	65	99	244	576	576
7	19	45	64	92	245	576	576
8	17	44	64	91	245	577	577
9	17	45	66	95	245	577	577
10	19	48	68	99	245	577	577
11	21	50	70	102	245	577	577
12	23	53	71	103	245	577	577
13	24	54	72	103	245	577	577
14	24	55	72	103	245	577	577
15	24	55	72	103	245	577	577
16	24	55	72	103	245	576	576
17	24	55	72	103	245	577	577
18	24	55	72	103	245	577	577
19	24	55	72	103	245	577	577
20	24	55	72	103	245	577	577
21	24	55	72	103	246	577	577
22	24	55	72	103	246	578	578
23	24	55	72	103	246	578	578
24	24	55	72	103	246	578	578
25	24	55	72	103	246	578	578
26	24	55	72	103	246	577	577
27	24	55	72	103	246	577	577
28	24	55	72	103	246	577	577
29	24	55	72	103	245	577	577
30	24	55	72	103	245	577	577

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	13	91	204	536	1 187
2	1	5	12	89	203	534	973
3	2	5	12	80	198	529	806
4	3	6	13	81	195	527	674
5	4	7	18	83	195	526	571
6	4	8	21	88	194	526	526
7	5	8	22	90	194	526	526
8	6	9	22	88	194	525	525
9	7	11	22	87	194	526	526

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
10	8	11	22	87	194	526	526
11	8	12	23	87	194	526	526
12	9	12	24	88	194	526	526
13	10	14	26	88	195	526	526
14	11	14	27	88	195	527	527
15	11	15	29	89	195	527	527
16	12	16	30	89	195	527	527
17	12	17	31	89	196	528	528
18	14	17	33	90	196	528	528
19	14	19	34	90	197	529	529
20	15	19	35	91	198	529	529
21	15	20	36	91	198	530	530
22	16	20	38	92	199	530	530
23	17	22	40	92	199	531	531
24	18	22	41	93	199	531	531
25	18	23	42	93	200	531	531
26	19	23	43	93	200	531	531
27	19	25	45	93	200	531	531
28	21	25	46	93	200	531	531
29	21	26	47	93	200	532	532
30	22	27	48	93	200	532	532

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	1	15	21	44	165	303	3 035
2	1	15	21	44	165	340	2 254
3	1	15	24	49	160	352	1 700
4	1	16	27	53	157	351	1 314
5	2	18	30	55	157	342	1 042
6	3	21	33	58	157	329	846
7	4	24	35	60	157	313	700
8	5	24	36	63	157	297	589
9	5	25	37	66	157	280	502
10	5	26	39	68	157	263	433
11	5	26	39	69	157	250	376
12	6	26	39	69	157	250	330
13	6	26	39	69	157	250	291
14	6	26	39	69	157	250	258
15	6	26	40	69	157	250	250
16	8	26	43	69	157	250	250
17	8	26	46	69	157	250	250
18	8	26	48	69	157	250	250
19	9	26	50	69	157	250	250

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
20	9	26	53	69	157	250	250
21	9	26	55	69	157	250	250
22	10	26	58	69	157	250	250
23	10	26	61	69	157	250	250
24	12	26	63	69	157	250	250
25	12	26	66	69	157	250	250
26	12	26	68	72	157	250	250
27	13	26	71	74	157	250	250
28	13	26	73	76	157	250	250
29	14	26	76	78	157	250	250
30	14	27	78	79	157	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	6	20	26	49	171	313	3 148
2	8	22	29	51	173	352	2 343
3	8	23	31	57	167	364	1 765
4	8	24	34	60	165	363	1 363
5	9	25	37	62	164	353	1 079
6	9	28	39	65	164	339	874
7	11	30	41	66	163	322	723
8	10	30	41	68	163	305	607
9	10	30	42	71	162	287	517
10	10	31	44	72	162	270	445
11	10	31	44	73	161	254	386
12	9	30	43	72	161	254	338
13	8	29	42	72	160	253	298
14	8	29	42	71	160	253	264
15	8	28	41	71	159	252	252
16	8	28	44	70	159	251	251
17	8	28	46	70	158	251	251
18	8	27	49	70	158	251	251
19	9	27	51	70	158	251	251
20	9	28	54	70	159	252	252
21	9	28	57	71	159	252	252
22	10	28	59	71	159	252	252
23	11	29	62	71	159	252	252
24	12	29	65	71	160	252	252
25	12	29	67	71	160	252	252
26	12	29	70	73	160	252	252
27	13	29	72	74	160	252	252
28	13	29	74	77	160	252	252
29	14	29	77	79	160	252	252
30	14	29	79	81	160	252	252

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	15	21	44	165	303	3 035
2	1	15	21	44	165	340	2 254
3	1	15	24	49	160	352	1 700
4	1	16	27	53	157	351	1 314
5	2	18	30	54	157	342	1 042
6	3	21	32	58	157	329	845
7	4	23	34	60	157	313	700
8	4	24	36	62	157	297	589
9	5	25	37	66	157	280	502
10	5	26	39	68	157	263	433
11	5	26	39	68	157	250	376
12	6	26	39	69	157	250	329
13	6	26	39	69	157	250	290
14	6	26	39	69	157	250	258
15	6	26	40	69	157	250	250
16	8	26	43	69	157	250	250
17	8	26	46	69	157	250	250
18	8	26	48	69	157	250	250
19	9	26	50	69	157	250	250
20	9	26	53	69	157	250	250
21	9	26	55	69	157	250	250
22	10	26	58	69	157	250	250
23	10	26	61	69	157	250	250
24	12	26	63	69	157	250	250
25	12	26	66	69	157	250	250
26	12	26	68	72	157	250	250
27	13	26	71	74	157	250	250
28	13	26	73	76	157	250	250
29	13	26	76	78	157	250	250
30	14	27	78	79	157	250	250

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	78	92	99	121	243	338	3 070
2	74	88	94	117	238	347	2 307
3	76	91	99	125	235	362	1 748
4	73	89	100	126	230	362	1 355
5	72	89	101	125	228	354	1 077
6	71	89	101	126	226	340	874
7	71	90	101	126	223	325	725
8	69	89	101	128	222	315	610
9	69	89	101	129	221	314	521

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
10	65	86	99	128	217	310	449
11	63	83	96	126	214	307	390
12	61	82	95	124	213	306	341
13	60	81	94	124	212	305	305
14	60	81	94	123	211	304	304
15	59	80	93	123	211	304	304
16	59	80	93	122	210	303	303
17	58	79	92	121	210	303	303
18	57	78	91	121	209	302	302
19	57	77	90	120	208	301	301
20	56	77	90	119	208	301	301
21	55	76	89	119	207	300	300
22	54	75	88	118	206	299	299
23	53	74	87	117	205	298	298
24	52	73	86	116	204	297	297
25	51	72	85	115	203	296	296
26	50	71	84	114	202	295	295
27	49	70	83	113	201	294	294
28	48	69	82	112	200	293	293
29	47	68	81	110	199	292	292
30	46	67	81	109	198	291	291

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	48	169	303	3 035
2	6	20	27	49	171	340	2 257
3	7	22	30	55	166	353	1 703
4	7	23	34	60	164	352	1 317
5	9	25	37	62	164	343	1 045
6	10	28	40	65	164	330	848
7	11	30	41	67	164	314	702
8	11	31	42	69	164	298	591
9	11	31	43	72	163	281	504
10	11	32	44	73	163	264	434
11	11	31	44	74	162	255	378
12	10	31	44	74	162	255	331
13	10	31	44	73	162	254	292
14	10	30	43	73	161	254	259
15	9	30	43	73	161	254	254
16	9	30	43	72	161	253	253
17	9	30	46	72	161	253	253
18	9	30	49	72	161	253	253
19	9	30	51	72	161	253	253

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
20	9	30	53	73	161	254	254
21	10	31	56	73	161	254	254
22	10	31	58	73	162	254	254
23	11	31	61	73	162	255	255
24	12	31	64	73	162	255	255
25	12	31	66	73	162	255	255
26	12	31	69	73	162	255	255
27	13	31	71	74	162	255	255
28	13	31	73	76	162	255	255
29	14	31	77	79	162	255	255
30	14	31	79	81	162	254	254

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	46	60	66	89	210	305	3 057
2	50	64	70	93	214	342	2 273
3	54	68	77	102	213	355	1 717
4	56	72	82	108	213	355	1 330
5	58	74	86	111	214	347	1 056
6	59	77	89	114	213	334	858
7	60	79	90	116	213	318	711
8	59	79	90	117	212	304	598
9	58	78	90	119	210	303	510
10	57	77	90	119	209	301	440
11	55	76	89	118	207	300	383
12	54	75	88	117	205	298	335
13	52	73	86	116	204	297	297
14	51	72	85	114	203	295	295
15	50	71	84	113	201	294	294
16	49	69	82	112	200	293	293
17	48	69	82	111	199	292	292
18	47	68	81	110	199	291	291
19	46	67	80	110	198	291	291
20	46	66	79	109	197	290	290
21	45	66	79	108	197	289	289
22	44	65	78	108	196	289	289
23	43	64	77	107	195	288	288
24	42	63	76	106	194	287	287
25	42	63	76	105	193	286	286
26	41	62	75	104	192	285	285
27	40	61	74	103	192	284	284
28	39	60	75	102	191	284	284
29	38	59	77	102	190	283	283
30	37	58	79	101	189	282	282

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	0	14	20	43	165	303	3 033
2	0	14	20	43	165	339	2 253
3	1	14	23	48	159	352	1 699
4	1	15	26	52	156	351	1 313
5	2	17	29	54	156	342	1 041
6	2	20	32	57	156	328	845
7	4	23	34	59	156	313	699
8	4	23	35	62	156	296	588
9	4	24	36	65	156	280	502
10	4	25	38	67	156	263	432
11	5	25	38	68	156	249	376
12	6	25	38	68	156	249	329
13	6	25	38	68	156	249	290
14	6	25	38	68	156	249	257
15	6	25	40	68	156	249	249
16	8	25	43	68	156	249	249
17	8	25	46	68	156	249	249
18	8	25	48	68	156	249	249
19	9	25	50	68	156	249	249
20	9	25	53	68	156	249	249
21	9	25	55	68	156	249	249
22	10	25	58	68	156	249	249
23	10	26	61	68	156	249	249
24	12	26	63	68	156	249	249
25	12	26	66	69	156	249	249
26	12	26	68	71	156	249	249
27	13	26	71	74	156	249	249
28	13	26	73	76	156	249	249
29	13	26	76	77	156	249	249
30	14	27	78	79	156	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	183	309	3 098
2	0	11	22	45	183	346	2 303
3	1	11	24	50	178	359	1 736
4	1	13	26	56	174	357	1 340
5	2	16	29	59	173	348	1 062
6	2	18	33	60	172	334	861
7	3	21	36	60	171	318	712
8	4	23	37	60	170	301	598
9	7	31	42	58	169	284	510

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
10	9	34	41	57	168	267	439
11	8	33	41	56	167	260	381
12	7	32	41	56	166	259	334
13	6	31	41	56	166	258	294
14	6	31	41	56	165	258	260
15	6	31	41	56	164	257	257
16	8	31	43	56	163	255	255
17	8	31	46	56	162	254	254
18	8	31	48	56	161	254	254
19	9	31	51	57	161	254	254
20	9	31	53	59	161	254	254
21	9	31	56	62	162	254	254
22	10	31	58	64	161	254	254
23	11	31	61	66	161	254	254
24	12	31	63	68	161	253	253
25	12	31	66	70	160	253	253
26	12	31	68	72	160	252	252
27	13	31	71	74	159	252	252
28	13	31	73	76	159	252	252
29	13	31	75	77	158	251	251
30	14	31	78	80	158	251	251

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	82	95	102	125	246	341	3 221
2	79	93	100	122	244	360	2 402
3	77	91	100	125	236	374	1 814
4	74	90	101	127	231	373	1 402
5	72	89	101	126	228	363	1 111
6	72	90	101	127	226	349	901
7	71	90	101	126	223	332	746
8	68	88	99	126	221	315	627
9	66	86	99	127	218	311	535
10	65	85	98	127	217	309	461
11	63	84	97	126	215	308	400
12	62	82	95	125	213	306	351
13	60	81	94	123	212	304	309
14	58	79	92	122	210	303	303
15	57	78	91	120	209	302	302
16	56	77	90	119	207	300	300
17	55	76	89	118	206	299	299
18	54	75	88	117	205	298	298
19	53	74	87	116	204	297	297

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
20	52	73	86	115	204	297	297
21	51	72	85	114	203	296	296
22	50	71	84	113	202	295	295
23	49	70	83	112	201	294	294
24	48	69	82	111	200	293	293
25	47	68	81	110	199	292	292
26	46	67	80	109	198	291	291
27	45	66	79	108	197	290	290
28	44	65	78	107	196	289	289
29	43	64	80	106	195	288	288
30	42	63	82	105	194	287	287

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	55	69	75	98	219	314	3 112
2	54	67	74	97	218	348	2 316
3	52	67	75	100	211	362	1 749
4	51	66	77	103	207	362	1 356
5	49	66	78	103	205	353	1 077
6	49	67	79	104	203	340	875
7	49	68	79	105	202	324	725
8	47	67	79	106	200	307	610
9	46	67	79	107	199	291	520
10	45	66	79	108	197	290	447
11	44	65	78	108	196	289	389
12	44	64	77	107	195	288	340
13	43	64	77	106	195	287	300
14	42	63	76	106	194	287	287
15	41	62	75	105	193	286	286
16	40	61	74	104	192	285	285
17	40	61	74	103	192	284	284
18	39	60	73	103	191	284	284
19	39	59	72	102	190	283	283
20	38	59	72	102	190	283	283
21	38	59	72	102	190	283	283
22	38	59	72	101	189	282	282
23	37	58	71	101	189	282	282
24	37	57	70	100	188	281	281
25	36	57	70	99	188	280	280
26	35	56	70	99	187	280	280
27	35	55	72	98	186	279	279
28	34	55	75	97	186	278	278
29	33	54	78	97	185	278	278
30	33	53	80	96	184	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	26	40	46	69	190	310	3 112
2	26	40	47	69	191	348	2 316
3	25	40	48	73	184	361	1 747
4	24	40	50	76	181	360	1 350
5	24	41	53	77	180	351	1 070
6	25	43	54	80	179	337	868
7	25	45	55	81	178	321	718
8	25	44	56	83	177	303	603
9	24	45	57	85	177	286	514
10	24	45	58	86	176	269	443
11	23	44	57	87	175	268	385
12	23	43	56	86	174	267	337
13	22	43	56	85	174	266	297
14	21	42	55	84	173	266	266
15	20	41	54	84	172	265	265
16	19	40	53	83	171	264	264
17	19	40	53	82	171	264	264
18	19	39	52	82	170	263	263
19	18	39	52	82	170	263	263
20	18	39	54	82	170	263	263
21	18	39	57	82	170	263	263
22	18	39	59	82	170	263	263
23	18	39	62	82	170	263	263
24	18	39	65	81	170	263	263
25	18	39	67	81	169	262	262
26	17	38	70	81	169	262	262
27	17	38	72	81	169	262	262
28	17	38	75	80	169	262	262
29	17	38	77	80	168	261	261
30	16	37	79	81	168	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	145	301	3 015
2	0	1	6	25	146	337	2 239
3	1	2	9	30	141	350	1 689
4	1	3	11	34	138	349	1 305
5	2	4	15	36	138	340	1 035
6	2	4	17	39	138	326	840
7	3	6	19	41	138	311	695
8	4	6	22	44	138	295	585
9	4	8	25	47	138	278	498

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
10	4	9	28	49	138	262	430
11	4	10	30	51	139	246	373
12	6	10	32	49	138	231	327
13	6	12	35	51	139	232	288
14	6	12	38	50	139	232	256
15	6	14	40	49	137	230	230
16	8	14	43	50	136	229	229
17	8	15	46	52	136	229	229
18	8	16	47	54	136	229	229
19	9	17	50	56	137	230	230
20	9	18	53	59	137	230	230
21	9	19	55	60	138	231	231
22	10	20	58	62	138	231	231
23	10	20	60	65	138	231	231
24	11	22	62	67	138	231	231
25	12	22	65	69	138	231	231
26	12	24	67	71	138	231	231
27	13	24	69	72	138	230	230
28	13	25	72	74	139	230	230
29	13	26	75	77	140	230	230
30	14	27	78	79	141	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	56	63	85	207	313	3 147
2	42	56	63	85	207	351	2 337
3	41	56	64	90	201	364	1 761
4	40	56	67	93	197	362	1 359
5	40	57	69	93	196	352	1 077
6	41	59	70	96	195	339	874
7	41	60	71	97	194	322	723
8	40	60	71	98	193	305	608
9	39	60	72	100	192	288	518
10	39	60	73	101	191	284	446
11	38	59	72	101	190	283	387
12	37	58	71	101	189	282	339
13	37	58	71	100	188	281	299
14	36	57	70	99	188	280	280
15	35	56	69	99	187	280	280
16	34	55	68	98	186	279	279
17	34	55	68	97	186	278	278
18	33	54	67	97	185	278	278
19	33	54	67	96	185	277	277

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
20	33	54	67	96	184	277	277
21	32	53	66	96	184	277	277
22	32	53	66	95	184	277	277
23	32	52	65	95	183	276	276
24	31	52	65	94	183	276	276
25	30	51	67	94	182	275	275
26	30	51	70	93	182	274	274
27	29	50	72	93	181	274	274
28	29	49	74	92	180	273	273
29	28	49	77	91	180	272	272
30	27	48	79	91	179	272	272

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	11	24	31	54	175	311	3 125
2	15	28	35	58	179	349	2 325
3	17	32	41	66	177	362	1 754
4	20	35	46	72	177	361	1 355
5	22	39	51	75	178	352	1 074
6	21	39	51	76	176	338	871
7	27	46	57	82	179	322	721
8	25	45	57	84	178	305	606
9	27	47	59	87	179	287	516
10	28	49	62	91	180	273	445
11	30	51	64	93	181	274	386
12	30	51	64	94	182	275	338
13	31	52	65	94	183	275	298
14	31	52	65	95	183	276	276
15	31	52	65	95	183	276	276
16	31	52	65	94	183	275	275
17	31	52	65	94	183	275	275
18	30	51	64	93	182	275	275
19	30	51	64	93	181	274	274
20	30	51	64	93	181	274	274
21	30	50	63	93	181	274	274
22	29	50	63	93	181	274	274
23	29	50	63	92	181	274	274
24	29	49	65	92	180	273	273
25	28	49	67	92	180	273	273
26	28	49	70	91	179	272	272
27	27	48	72	91	179	272	272
28	27	48	75	90	178	271	271
29	26	47	77	89	178	271	271
30	26	46	80	89	177	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	10	23	30	53	174	314	3 163
2	11	25	31	54	175	353	2 353
3	11	26	35	60	171	366	1 773
4	12	27	38	64	169	364	1 368
5	13	30	42	66	169	354	1 083
6	14	32	44	69	169	340	878
7	16	35	46	71	169	324	726
8	16	36	47	74	169	306	610
9	16	37	49	77	169	289	519
10	17	38	51	79	169	271	447
11	17	38	51	80	169	262	388
12	17	38	51	81	169	262	340
13	17	38	51	81	169	262	299
14	18	38	51	81	169	262	265
15	18	39	52	81	169	262	262
16	17	38	51	81	169	262	262
17	17	38	51	81	169	262	262
18	17	38	51	81	169	262	262
19	17	38	51	81	169	262	262
20	18	38	54	81	169	262	262
21	18	38	57	81	169	262	262
22	17	38	59	81	169	262	262
23	17	38	62	80	169	262	262
24	17	38	65	80	168	261	261
25	16	37	67	80	168	261	261
26	16	37	70	79	168	260	260
27	15	36	72	79	167	260	260
28	15	36	74	78	167	260	260
29	15	36	77	79	167	259	259
30	14	35	79	81	166	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	45	59	65	88	210	318	3 205
2	48	62	68	91	212	358	2 390
3	50	65	74	99	210	372	1 804
4	51	67	78	104	208	371	1 394
5	53	70	82	106	209	361	1 105
6	55	73	84	110	209	347	896
7	56	75	86	112	209	330	741
8	56	75	87	114	208	313	623
9	56	76	88	116	208	301	531

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
10	56	77	90	118	208	301	457
11	56	77	90	119	207	300	397
12	55	76	89	118	207	300	348
13	54	75	88	117	206	299	306
14	53	74	87	117	205	298	298
15	52	73	86	116	204	297	297
16	51	72	85	115	203	296	296
17	51	72	85	114	202	295	295
18	50	71	84	113	202	294	294
19	49	70	83	113	201	294	294
20	49	69	82	112	200	293	293
21	48	69	82	111	200	292	292
22	47	68	81	110	199	292	292
23	46	67	80	109	198	291	291
24	45	66	79	109	197	290	290
25	44	65	78	108	196	289	289
26	43	64	77	107	195	288	288
27	42	63	76	106	194	287	287
28	42	62	76	105	193	286	286
29	41	62	79	104	192	285	285
30	40	61	82	103	191	284	284

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	76	90	97	119	241	336	3 266
2	80	94	101	124	245	366	2 446
3	80	95	104	129	240	381	1 850
4	79	95	106	132	236	380	1 432
5	82	99	111	135	238	371	1 137
6	84	102	114	139	239	357	923
7	86	105	116	142	239	341	765
8	87	107	118	145	240	332	643
9	88	108	120	149	240	333	548
10	88	109	122	151	240	333	472
11	88	109	122	151	240	332	411
12	87	108	121	150	239	332	360
13	86	107	120	149	237	330	330
14	84	105	118	148	236	329	329
15	83	104	117	146	234	327	327
16	81	102	115	145	233	326	326
17	80	101	114	143	232	324	324
18	79	99	112	142	230	323	323
19	77	98	111	141	229	322	322

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
20	76	97	110	139	228	320	320
21	74	95	108	138	226	319	319
22	73	94	107	136	225	318	318
23	71	92	105	135	223	316	316
24	70	91	104	133	222	314	314
25	68	89	102	132	220	313	313
26	67	88	101	130	218	311	311
27	65	86	99	128	217	310	310
28	64	84	97	127	215	308	308
29	62	83	96	125	214	307	307
30	61	81	94	124	212	305	305

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	3	17	23	46	167	315	3 172
2	6	20	27	49	171	354	2 360
3	8	23	31	57	167	367	1 779
4	10	26	36	62	167	365	1 373
5	12	29	41	65	168	356	1 087
6	14	32	44	69	168	341	881
7	16	35	46	72	169	325	728
8	16	36	47	74	169	307	612
9	17	37	49	77	169	290	521
10	17	38	51	80	169	272	448
11	17	38	51	80	169	262	390
12	17	38	51	80	169	261	341
13	16	37	50	80	168	261	300
14	16	36	49	79	167	260	266
15	15	36	49	78	167	259	259
16	14	35	48	77	166	259	259
17	14	34	47	77	165	258	258
18	13	34	50	77	165	258	258
19	13	34	52	76	165	258	258
20	13	34	54	76	165	258	258
21	13	34	57	77	165	258	258
22	13	34	60	77	165	258	258
23	13	34	62	77	165	258	258
24	13	34	65	76	165	258	258
25	13	34	67	76	165	258	258
26	13	34	70	76	165	257	257
27	13	34	72	76	164	257	257
28	13	33	75	78	164	257	257
29	14	33	77	79	164	257	257
30	14	33	80	82	164	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	89	102	109	132	253	348	3 443
2	89	103	109	132	253	381	2 563
3	88	103	111	137	248	396	1 933
4	88	104	114	140	245	394	1 492
5	88	105	117	142	244	384	1 181
6	89	107	119	144	243	368	957
7	90	109	120	146	243	351	790
8	90	110	121	148	243	335	664
9	89	110	122	150	242	334	565
10	88	109	122	151	240	333	486
11	86	107	120	150	238	331	422
12	85	105	118	148	236	329	369
13	83	104	117	146	234	327	327
14	81	102	115	144	232	325	325
15	79	100	113	142	231	323	323
16	77	98	111	140	229	321	321
17	75	96	109	139	227	320	320
18	74	94	107	137	225	318	318
19	72	93	106	136	224	317	317
20	71	92	105	135	223	316	316
21	70	91	104	133	222	315	315
22	69	90	103	132	221	314	314
23	68	89	102	131	220	312	312
24	67	88	101	130	218	311	311
25	66	86	99	129	217	310	310
26	64	85	98	128	216	309	309
27	63	84	97	127	215	308	308
28	62	83	96	126	214	307	307
29	61	82	95	124	213	306	306
30	60	81	94	123	212	305	305

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	338	352	359	381	503	598	3 470
2	75	88	95	118	239	383	2 574
3	77	91	100	125	236	396	1 936
4	79	95	105	131	236	394	1 493
5	81	98	110	134	237	383	1 182
6	83	101	113	138	238	368	958
7	85	104	115	141	238	351	791
8	86	106	117	144	239	332	665
9	87	107	119	147	239	332	566

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
10	87	107	120	149	239	332	488
11	87	108	121	150	239	331	424
12	87	108	121	150	239	331	371
13	87	108	121	151	239	332	332
14	88	109	122	151	239	332	332
15	88	109	122	152	240	333	333
16	89	110	123	153	241	334	334
17	90	111	124	154	242	335	335
18	92	112	125	155	243	336	336
19	92	113	126	156	244	337	337
20	93	114	127	156	245	338	338
21	93	114	127	157	245	338	338
22	93	114	127	156	245	338	338
23	92	113	126	156	244	337	337
24	92	113	126	155	243	336	336
25	91	112	125	154	242	335	335
26	90	110	123	153	241	334	334
27	88	109	122	152	240	333	333
28	87	108	121	150	239	332	332
29	86	107	120	149	237	330	330
30	84	105	118	148	236	329	329

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	5	11	34	155	306	3 072
2	0	5	11	34	155	343	2 281
3	1	5	13	38	149	355	1 718
4	1	5	15	41	146	354	1 326
5	2	6	18	42	145	344	1 050
6	2	8	20	45	144	330	851
7	3	10	21	46	144	314	704
8	4	10	22	48	143	297	591
9	4	10	25	50	142	280	504
10	4	10	28	52	141	264	434
11	5	10	31	53	141	247	377
12	6	10	33	53	141	234	330
13	6	12	35	53	141	234	291
14	6	12	38	53	141	234	258
15	6	14	40	53	142	234	234
16	8	14	43	53	142	234	234
17	8	15	46	54	142	235	235
18	8	16	48	54	142	235	235
19	9	17	50	57	143	236	236

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
20	9	19	53	59	144	237	237
21	9	19	56	62	145	238	238
22	10	20	58	64	145	238	238
23	10	21	61	65	146	239	239
24	12	22	63	67	147	239	239
25	12	22	66	70	147	240	240
26	12	24	68	72	147	240	240
27	13	25	71	74	148	241	241
28	13	26	73	76	148	241	241
29	14	27	76	78	148	241	241
30	14	27	79	80	149	242	242

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	62	69	91	213	313	3 146
2	49	63	70	92	214	351	2 337
3	49	63	72	97	208	363	1 761
4	48	63	74	100	205	362	1 360
5	48	65	77	101	204	353	1 078
6	49	67	78	104	203	339	874
7	49	68	79	104	202	323	724
8	48	68	80	107	201	306	609
9	48	68	80	109	200	293	519
10	47	68	81	109	199	292	447
11	46	67	79	109	197	290	388
12	44	65	78	107	196	289	340
13	42	63	76	106	194	287	300
14	41	62	75	104	193	285	285
15	40	60	73	103	191	284	284
16	38	59	72	101	190	282	282
17	37	58	71	100	188	281	281
18	36	56	69	99	187	280	280
19	35	55	68	98	186	279	279
20	34	55	68	97	186	279	279
21	33	54	67	97	185	278	278
22	33	54	67	96	185	277	277
23	32	53	66	95	184	277	277
24	31	52	65	95	183	276	276
25	31	52	67	94	182	275	275
26	30	51	70	93	182	275	275
27	29	50	72	93	181	274	274
28	29	50	75	92	180	273	273
29	28	49	77	91	180	273	273
30	27	48	80	91	179	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	110	124	131	153	275	370	3 419
2	111	125	132	154	276	380	2 549
3	112	127	135	160	271	394	1 924
4	113	128	139	165	269	393	1 486
5	114	131	143	167	270	383	1 178
6	115	133	145	170	269	368	956
7	116	135	146	171	269	361	791
8	115	135	146	173	268	361	665
9	114	135	147	175	267	360	566
10	114	135	147	176	266	359	488
11	112	133	146	176	264	357	424
12	111	132	145	174	262	355	371
13	109	129	142	172	260	353	353
14	106	127	140	170	258	351	351
15	104	125	138	167	256	349	349
16	101	122	135	165	253	346	346
17	99	120	133	163	251	344	344
18	97	118	131	160	249	342	342
19	95	116	129	158	247	340	340
20	93	114	127	157	245	338	338
21	92	112	125	155	243	336	336
22	90	111	124	153	241	334	334
23	88	109	122	151	240	332	332
24	86	107	120	149	238	331	331
25	84	105	118	148	236	329	329
26	83	103	116	146	234	327	327
27	81	102	115	144	233	325	325
28	79	100	113	143	231	324	324
29	78	98	111	141	229	322	322
30	76	97	110	139	228	321	321

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	168	182	188	211	332	427	3 441
2	177	191	197	220	342	436	2 599
3	181	195	204	229	340	435	1 977
4	182	197	208	234	339	432	1 537
5	182	199	211	236	338	431	1 221
6	182	200	212	237	337	430	992
7	183	202	213	238	335	428	821
8	181	201	212	239	334	426	690
9	180	200	212	241	332	425	588

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
10	179	200	212	241	331	424	506
11	177	198	211	240	329	422	440
12	174	195	208	238	326	419	419
13	172	192	205	235	323	416	416
14	168	189	202	232	320	413	413
15	165	186	199	229	317	410	410
16	162	183	196	225	314	407	407
17	159	180	193	222	310	403	403
18	156	176	189	219	307	400	400
19	152	173	186	216	304	397	397
20	149	170	183	213	301	394	394
21	146	167	180	210	298	391	391
22	143	164	177	207	295	388	388
23	140	161	174	203	292	385	385
24	137	158	171	200	289	381	381
25	134	155	168	197	285	378	378
26	131	152	165	194	282	375	375
27	128	149	162	191	279	372	372
28	125	146	159	188	277	369	369
29	122	143	156	185	274	367	367
30	119	140	153	183	271	364	364

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	24	37	44	67	188	317	3 191
2	24	38	45	68	189	355	2 371
3	24	39	47	73	183	369	1 788
4	24	39	50	76	181	367	1 381
5	24	41	53	77	180	358	1 094
6	25	43	55	80	179	343	887
7	26	45	56	81	178	327	733
8	24	44	56	83	177	309	616
9	24	44	56	85	176	292	525
10	24	44	57	86	175	274	452
11	23	44	57	86	175	268	392
12	22	43	56	86	174	267	343
13	22	43	56	85	173	266	303
14	21	42	55	85	173	266	268
15	21	42	55	84	173	265	265
16	21	42	55	84	172	265	265
17	21	42	55	84	172	265	265
18	21	42	55	84	172	265	265
19	21	42	55	84	172	265	265

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
20	21	42	55	84	173	265	265
21	21	42	57	84	173	265	265
22	21	42	60	84	173	265	265
23	21	42	62	84	172	265	265
24	21	41	65	84	172	265	265
25	20	41	67	84	172	265	265
26	20	41	70	83	172	265	265
27	20	41	72	83	172	264	264
28	20	40	76	83	171	264	264
29	19	40	78	83	171	264	264
30	19	40	81	82	171	263	263

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	20	34	40	63	184	321	3 232
2	22	35	42	65	186	359	2 400
3	23	37	46	71	182	372	1 807
4	24	40	50	76	181	370	1 395
5	26	42	54	79	182	360	1 104
6	27	45	57	82	182	346	895
7	29	49	60	85	182	329	740
8	30	49	61	88	182	312	622
9	30	50	62	91	182	294	530
10	31	52	65	93	183	277	456
11	31	52	65	95	183	276	396
12	32	52	65	95	183	276	347
13	31	52	65	95	183	276	306
14	31	52	65	95	183	276	276
15	31	52	65	94	183	276	276
16	31	52	65	94	182	275	275
17	31	52	65	94	182	275	275
18	31	51	64	94	182	275	275
19	31	52	65	94	182	275	275
20	31	52	65	94	183	276	276
21	31	52	65	95	183	276	276
22	31	52	65	94	183	276	276
23	31	52	65	94	183	275	275
24	31	51	66	94	182	275	275
25	30	51	69	94	182	275	275
26	30	51	71	93	182	274	274
27	29	50	74	93	181	274	274
28	29	50	76	92	181	273	273
29	28	49	79	92	180	273	273
30	28	49	82	91	180	272	272

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	120	134	140	163	284	379	3 499
2	119	132	139	162	283	388	2 613
3	117	132	140	165	276	402	1 967
4	116	132	142	168	273	400	1 516
5	116	133	145	169	272	389	1 199
6	116	134	146	171	270	373	971
7	117	136	147	172	269	362	802
8	116	135	147	174	268	361	673
9	115	135	147	176	267	360	572
10	115	135	148	177	267	359	492
11	114	135	148	177	266	359	427
12	113	134	147	176	264	357	373
13	112	132	145	175	263	356	356
14	110	131	144	174	262	355	355
15	108	129	142	171	260	353	353
16	106	127	140	169	258	350	350
17	103	124	137	166	255	348	348
18	101	122	135	164	253	345	345
19	99	120	133	162	250	343	343
20	97	117	130	160	248	341	341
21	94	115	128	158	246	339	339
22	92	113	126	155	244	337	337
23	90	111	124	153	242	334	334
24	88	109	122	151	239	332	332
25	85	106	119	149	237	330	330
26	83	104	117	147	235	328	328
27	81	102	115	145	233	326	326
28	79	100	113	143	231	324	324
29	77	98	111	141	229	322	322
30	75	96	109	139	227	320	320

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	4	11	34	155	313	3 143
2	0	6	13	36	157	351	2 338
3	1	8	17	42	153	364	1 762
4	1	10	21	47	151	362	1 360
5	2	13	25	50	152	353	1 077
6	2	16	28	53	153	339	874
7	3	19	30	56	153	322	723
8	4	20	32	59	153	305	607
9	4	21	33	62	153	288	517

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
10	4	22	35	64	153	271	445
11	5	22	35	64	153	254	387
12	6	22	35	64	152	245	339
13	6	21	37	64	152	245	299
14	6	21	39	64	152	245	265
15	8	21	41	64	152	245	245
16	8	21	44	63	151	244	244
17	8	21	47	63	152	244	244
18	8	21	49	63	152	244	244
19	9	21	51	63	152	245	245
20	9	21	54	64	152	245	245
21	10	22	57	64	153	246	246
22	10	22	60	65	153	246	246
23	11	23	62	67	154	246	246
24	12	23	65	69	154	247	247
25	12	24	67	71	154	247	247
26	12	24	70	73	154	247	247
27	13	25	72	75	154	247	247
28	13	26	75	77	154	247	247
29	14	27	77	79	155	247	247
30	14	28	80	81	155	247	247

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	30	44	51	73	195	313	3 142
2	31	44	51	74	195	350	2 334
3	29	44	52	78	189	363	1 758
4	28	44	54	80	185	361	1 356
5	28	45	57	81	184	351	1 074
6	31	49	60	86	185	337	870
7	29	48	59	84	181	321	719
8	33	52	64	91	185	303	604
9	32	52	64	93	184	286	514
10	26	47	60	89	178	271	443
11	22	43	56	85	174	266	385
12	18	39	52	82	170	263	337
13	16	37	50	79	168	260	297
14	14	35	48	77	166	258	263
15	12	33	46	76	164	257	257
16	11	32	45	74	162	255	255
17	10	31	46	73	162	254	254
18	9	30	49	73	161	254	254
19	9	30	51	72	161	253	253

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
20	9	30	54	72	161	253	253
21	9	30	57	72	161	254	254
22	10	30	58	72	161	254	254
23	11	30	61	72	161	253	253
24	12	30	63	72	161	253	253
25	12	30	66	72	160	253	253
26	12	29	68	72	160	253	253
27	13	29	71	74	160	253	253
28	13	29	74	76	160	253	253
29	14	29	77	79	160	253	253
30	14	29	79	81	160	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	187	201	207	230	351	452	4 713
2	184	198	204	227	348	497	3 456
3	179	194	202	228	339	508	2 574
4	175	191	201	227	332	496	1 944
5	171	188	200	224	327	470	1 497
6	168	186	198	223	322	446	1 197
7	165	184	195	221	318	421	981
8	161	181	192	219	314	406	813
9	157	177	190	218	309	402	681
10	153	174	187	216	305	398	577
11	149	170	183	213	301	394	494
12	145	166	179	209	297	390	427
13	141	162	175	205	293	386	386
14	138	159	172	201	289	382	382
15	134	155	168	198	286	379	379
16	131	152	165	194	283	375	375
17	128	149	162	191	279	372	372
18	125	146	159	188	276	369	369
19	122	143	156	185	274	367	367
20	119	140	153	183	271	364	364
21	117	138	151	180	268	361	361
22	114	135	148	177	266	359	359
23	112	132	145	175	263	356	356
24	109	130	143	172	261	354	354
25	107	127	140	170	258	351	351
26	104	125	138	168	256	349	349
27	102	123	136	165	254	346	346
28	100	121	134	163	251	344	344
29	98	118	131	161	249	342	342
30	95	116	129	159	247	340	340

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	14	26	53	173	317	3 187
2	0	14	26	53	173	356	2 371
3	1	17	28	57	169	368	1 786
4	1	19	32	62	168	367	1 378
5	2	22	37	68	169	357	1 091
6	4	26	39	69	170	342	884
7	6	30	42	72	170	325	730
8	9	34	46	74	170	308	614
9	10	37	49	76	170	290	522
10	11	38	51	76	170	273	450
11	12	40	52	78	171	263	390
12	13	41	54	79	171	263	342
13	14	42	54	79	171	263	301
14	14	43	55	80	171	263	267
15	14	43	55	80	171	263	263
16	14	43	55	80	170	263	263
17	14	43	55	80	170	263	263
18	14	43	55	80	170	263	263
19	14	43	55	80	170	263	263
20	14	43	55	80	171	264	264
21	14	43	57	80	171	264	264
22	14	43	60	80	171	264	264
23	14	43	62	80	171	264	264
24	14	43	65	80	171	264	264
25	14	43	67	80	171	264	264
26	14	43	70	80	171	264	264
27	14	43	72	80	171	264	264
28	14	43	75	80	171	264	264
29	14	43	77	80	171	264	264
30	14	43	80	81	171	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	11	133	304	3 049
2	0	1	6	14	131	341	2 262
3	1	2	9	17	124	352	1 703
4	1	3	12	20	121	351	1 314
5	2	4	15	23	120	341	1 040
6	2	5	17	26	120	327	843
7	3	6	19	29	119	312	697
8	4	6	22	30	119	295	586
9	4	8	25	33	119	278	499

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
10	4	9	28	36	120	261	430
11	4	10	30	38	120	245	374
12	6	10	32	40	120	230	327
13	6	12	35	43	120	216	288
14	6	12	38	46	120	213	256
15	6	14	40	48	121	214	228
16	8	14	43	49	121	214	214
17	8	15	45	52	121	214	214
18	8	16	47	54	122	215	215
19	9	17	50	56	125	215	215
20	9	17	53	59	127	216	216
21	9	19	55	60	128	216	216
22	10	20	57	62	130	217	217
23	10	20	59	64	131	217	217
24	11	22	62	66	134	218	218
25	12	22	65	68	135	218	218
26	12	24	67	70	136	218	218
27	13	24	69	72	138	218	218
28	13	25	72	74	139	218	218
29	13	26	74	77	139	218	218
30	14	27	78	79	141	218	218

ANNEX III

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

Currency	National insurance market	Volatility adjustment (in bps)
Euro	Austria	13
Euro	Belgium	13
Euro	Cyprus	13
Euro	Estonia	13
Euro	Finland	13
Euro	France	13
Euro	Germany	13
Euro	Greece	13
Euro	Ireland	13
Euro	Italy	13
Euro	Latvia	13
Euro	Lithuania	13
Euro	Luxembourg	13
Euro	Malta	13
Euro	Netherlands	13
Euro	Portugal	13
Euro	Slovakia	13
Euro	Slovenia	13
Euro	Spain	13
Czech koruna	Czech Republic	8
Danish krone	Denmark	31
Forint	Hungary	3
Krona	Sweden	5
Kuna	Croatia	7
Lev	Bulgaria	– 9
Pound sterling	United Kingdom	21
Romanian leu	Romania	2
Zloty	Poland	6
Króna	Iceland	16
Norwegian krone	Norway	30
Swiss franc	Liechtenstein	0
Swiss franc	Switzerland	0
Australian dollar	Australia	10
Canadian dollar	Canada	23
US dollar	United States	33
Yen	Japan	1

DECISIONS

COUNCIL IMPLEMENTING DECISION (EU) 2018/1700

of 6 November 2018

amending Implementing Decision 2013/54/EU authorising the Republic of Slovenia to introduce a special measure derogating from Article 287 of Directive 2006/112/EC on the common system of value added tax

THE COUNCIL OF THE EUROPEAN UNION,

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

Having regard to Council Directive 2006/112/EC of 28 November 2006 on the common system of value added tax ⁽¹⁾, and in particular Article 395(1) thereof,

Having regard to the proposal from the European Commission,

Whereas:

- (1) Point (15) of Article 287 of Directive 2006/112/EC authorises Slovenia to exempt from value added tax (VAT) taxable persons whose annual turnover is no higher than EUR 25 000.
- (2) By Council Implementing Decision 2013/54/EU ⁽²⁾, Slovenia was authorised, until 31 December 2015 and by way of derogation from point (15) of Article 287 of Directive 2006/112/EC, to exempt from VAT taxable persons whose annual turnover is no higher than EUR 50 000. By Council Implementing Decision (EU) 2015/2089 ⁽³⁾, the application of Decision 2013/54/EU was extended until 31 December 2018.
- (3) By letter registered with the Commission on 22 May 2018, Slovenia requested an authorisation to continue to exempt from VAT taxable persons whose annual turnover is no higher than EUR 50 000.
- (4) In accordance with the second subparagraph of Article 395(2) of Directive 2006/112/EC, the Commission transmitted the request of Slovenia to other Member States by letter dated 25 June 2018. By letter dated 26 June 2018, the Commission notified Slovenia that it had all the information necessary to consider the request.
- (5) According to the information provided by Slovenia, at the end of 2017 around 48 % of VAT registered persons had a taxable turnover below EUR 50 000. Those taxable persons represented only 1 % of the total turnover of which 0,3 % was represented by taxable persons with taxable turnover under EUR 25 000.
- (6) Given that the higher threshold has resulted in reduced VAT obligations for small enterprises, whilst such enterprises may still opt for the regular VAT arrangements in accordance with Article 290 of Directive 2006/112/EC, Slovenia should be authorised to apply the measure for a further limited period until 31 December 2021.
- (7) As Articles 281 to 294 of Directive 2006/112/EC governing the special scheme for small enterprises are subject to review, it is possible that a directive amending those Articles will enter into force setting a date from which Member States are to apply national provisions before the period of validity of the derogation expires on 31 December 2021. In that case, this Decision should cease to apply.
- (8) The derogation has no impact on the Union's own resources accruing from VAT because Slovenia is to carry out a compensation calculation in accordance with Article 6 of Council Regulation (EEC, Euratom) No 1553/89 ⁽⁴⁾.

⁽¹⁾ OJ L 347, 11.12.2006, p. 1.

⁽²⁾ Council Implementing Decision 2013/54/EU of 22 January 2013 authorising the Republic of Slovenia to introduce a special measure derogating from Article 287 of Directive 2006/112/EC on the common system of value added tax (OJ L 22, 25.1.2013, p. 15).

⁽³⁾ Council Implementing Decision (EU) 2015/2089 of 10 November 2015 amending Implementing Decision 2013/54/EU authorising the Republic of Slovenia to introduce a special measure derogating from Article 287 of Directive 2006/112/EC on the common system of value added tax (OJ L 302, 19.11.2015, p. 107).

⁽⁴⁾ Council Regulation (EEC, Euratom) No 1553/89 of 29 May 1989 on the definitive uniform arrangements for the collection of own resources accruing from value added tax (OJ L 155, 7.6.1989, p. 9).

(9) Implementing Decision 2013/54/EU should therefore be amended accordingly,

HAS ADOPTED THIS DECISION:

Article 1

In Article 2 of Implementing Decision 2013/54/EU, the second paragraph is replaced by the following:

‘It shall apply from 1 January 2013 until the earlier of the following two dates:

- (a) 31 December 2021;
- (b) the date from which Member States are to apply any national provisions that they are required to adopt in the event that a directive enters into force amending Articles 281 to 294 of Directive 2006/112/EC governing the special scheme for small enterprises.’

Article 2

This Decision is addressed to the Republic of Slovenia.

Done at Brussels, 6 November 2018.

For the Council
The President
H. LÖGER

COMMISSION DECISION (EU) 2018/1701**of 7 November 2018****on the proposed citizens' initiative entitled 'Mandatory food labelling Non-Vegetarian/Vegetarian/Vegan'***(notified under document C(2018) 7300)***(Only the English text is authentic)**

THE EUROPEAN COMMISSION,

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

Having regard to Regulation (EU) No 211/2011 of the European Parliament and of the Council of 16 February 2011 on the citizens' initiative ⁽¹⁾, and in particular Article 4 thereof,

Whereas:

- (1) The subject matter of the proposed citizens' initiative entitled 'Mandatory food labelling Non-Vegetarian/Vegetarian/Vegan' refers to the following: 'Food labelling for vegetarians/vegans'.
- (2) The objectives of the proposed citizens' initiative refer to the following: 'Vegetarians and vegans struggle across the EU to identify suitable food. We must study the ingredients list of a food product to determine if it is fit for purchase with a hyper-awareness of ambiguous ingredients that could either be plant- or animal-based. Complicating this further is the fact that the EU does not have a unified language. We then propose laws mandating one of three simple pictorial labels on all food products: Non-Vegetarian, Vegetarian, or Vegan with all food labelling.'
- (3) The Treaty on European Union (TEU) reinforces citizenship of the Union and enhances further the democratic functioning of the Union by providing, inter alia, that every citizen is to have the right to participate in the democratic life of the Union by way of a European citizens' initiative.
- (4) To this end, the procedures and conditions required for the citizens' initiative should be clear, simple, user-friendly and proportionate to the nature of the citizens' initiative so as to encourage participation by citizens and to make the Union more accessible.
- (5) A legal act of the Union for the purpose of implementing the Treaties can be adopted for approximation of the provisions laid down by law, regulation or administrative action in Member States which have as their object the establishment and functioning of the internal market, on the basis of Article 114 of the Treaty on the Functioning of the European Union (TFEU).
- (6) For those reasons, the proposed citizens' initiative does not manifestly fall outside the framework of the Commission's powers to submit a proposal for a legal act of the Union for the purpose of implementing the Treaties in accordance with Article 4(2)(b) of the Regulation.
- (7) Furthermore, the citizens' committee has been formed and the contact persons have been designated in accordance with Article 3(2) of the Regulation and the proposed citizens' initiative is neither manifestly abusive, frivolous or vexatious nor manifestly contrary to the values of the Union as set out in Article 2 TEU.
- (8) The proposed citizens' initiative entitled 'Mandatory food labelling Non-Vegetarian/Vegetarian/Vegan' should therefore be registered,

HAS ADOPTED THIS DECISION:

Article 1

The proposed citizens' initiative entitled 'Mandatory food labelling Non-Vegetarian/Vegetarian/Vegan' is hereby registered.

Article 2

This Decision shall enter into force on 12 November 2018.

⁽¹⁾ OJ L 65, 11.3.2011, p. 1.

Article 3

This Decision is addressed to the organisers (members of the citizens' committee) of the proposed citizens' initiative entitled 'Mandatory food labelling Non-Vegetarian/Vegetarian/Vegan', represented by Ms Madeleine KAY and Ms Stefania DELPRETE acting as contact persons.

Done at Brussels, 7 November 2018.

For the Commission
Frans TIMMERMANS
Vice-President

COMMISSION DECISION (EU) 2018/1702
of 8 November 2018
establishing the EU Ecolabel criteria for lubricants
(notified under document C(2018) 7125)
(Text with EEA relevance)

THE EUROPEAN COMMISSION,

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

Having regard to Regulation (EC) No 66/2010 of the European Parliament and of the Council of 25 November 2009 on the EU Ecolabel ⁽¹⁾, and in particular Article 8(2) thereof,

After consulting the European Union Eco-labelling Board,

Whereas:

- (1) Under Regulation (EC) No 66/2010, the EU Ecolabel may be awarded to those products with a reduced environmental impact during their entire life cycle.
- (2) Regulation (EC) No 66/2010 provides that specific EU Ecolabel criteria are to be established according to product groups.
- (3) Commission Decision 2011/381/EU ⁽²⁾ established the criteria and the related assessment and verification requirements for lubricants. The period of validity of those criteria and requirements was extended to 31 December 2018 by Commission Decision (EU) 2015/877 ⁽³⁾.
- (4) The EU Ecolabel Fitness check (REFIT) of 30 June 2017, reviewing the implementation of Regulation (EC) No 66/2010 ⁽⁴⁾, concluded on the need to develop a more strategic approach for the EU Ecolabel, including streamlined criteria for selecting products. In line with those conclusions, and in consultation with the EU Ecolabelling Board, it is appropriate to revise the criteria for lubricants product group, taking into consideration the current success, stakeholders' interest in the product and potential future windows of opportunity for increased uptake and market's demand on sustainable products. The definition of the product group 'lubricants' should be modified to include a reference to the functionality of the product instead of its composition. This is to ensure that the definition clearly covers all relevant lubricant compositions.
- (5) In order to take into account recent market developments and innovations that have taken place in the intervening period, it is appropriate to establish a new set of EU Ecolabel criteria for the product group 'lubricants'. The aim of those criteria should be to promote products that have a limited impact on the aquatic environment, contain a limited amount of hazardous substances and performance as well as or better than a conventional lubricant available on the market. In line with the objectives of the European strategy for plastics in a circular economy ⁽⁵⁾, the criteria should also seek to facilitate the transition to a more circular economy by encouraging improved design and by further incentivising the demand for recycled materials.
- (6) The new criteria, as well as the related assessment and verification requirements, should remain valid until 31 December 2024, taking into account the innovation cycle for that product group.
- (7) For reasons of legal certainty, Decision 2011/381/EU should be repealed.

⁽¹⁾ OJ L 27, 30.1.2010, p. 1.

⁽²⁾ Commission Decision 2011/381/EU of 24 June 2011 on establishing the ecological criteria for the award of the EU Ecolabel to lubricants (OJ L 169, 29.6.2011, p. 28).

⁽³⁾ Commission Decision (EU) 2015/877 of 4 June 2015 amending Decisions 2009/568/EC, 2011/333/EU, 2011/381/EU, 2012/448/EU and 2012/481/EU in order to prolong the validity of the ecological criteria for the award of the EU Ecolabel to certain products (OJ L 142, 6.6.2015, p. 32).

⁽⁴⁾ Report from the Commission to the European Parliament and the Council on the review of implementation of Regulation (EC) No 122/2009 of the European Parliament and of the Council on 25 November 2009 on the voluntary participation by organisations in a Community eco-management and audit scheme (EMAS) and the Regulation (EC) No 66/2010 of the parliament and of the Council of 25 November 2009 on the EU Ecolabel (COM(2017) 355).

⁽⁵⁾ COM(2018) 28 final.

- (8) A transitional period should be allowed for producers whose products have been awarded the EU Ecolabel for lubricants on the basis of the criteria set out in Decision 2011/381/EU, so that they have sufficient time to adapt their products to comply with the revised criteria and requirements. For a limited period after adoption of this Decision, producers should also be allowed to submit applications based either on the criteria established by Decision 2011/381/EU or on the revised criteria established by this Decision. Where the EU Ecolabel was awarded on the basis of the criteria established by Decision 2011/381/EU, use of it should not be permitted after 31 December 2019.
- (9) The measures provided for in this Decision are in accordance with the opinion of the Committee established by Article 16 of Regulation (EC) No 66/2010,

HAS ADOPTED THIS DECISION:

Article 1

The product group 'lubricants' shall comprise any lubricant falling within one of the following sub-groups:

- (a) the Total Loss Lubricants (TLL) sub-group, which shall comprise chainsaw oils, wire rope lubricants, concrete release agents, total loss greases and other total loss lubricants;
- (b) the Partial Loss Lubricants (PLL) sub-group, which shall comprise gear oils intended for the use in open gears, stern tube oils, two-stroke oils, temporary protection against corrosion and partial loss greases;
- (c) the Accidental Loss Lubricants (ALL) sub-group, which shall comprise hydraulic systems, metalworking fluids, closed gear oils intended for the use in closed gears and accidental loss greases.

Article 2

For the purposes of this Decision, the following definitions shall apply:

- (1) 'lubricant' means a product that is capable of reducing friction, adhesion, heat, wear or corrosion when applied to a surface or introduced between two surfaces in relative motion, or is capable of transmitting mechanical power. The most common ingredients are base fluids and additives;
- (2) 'base fluid' means a lubricating fluid which flow, ageing, lubricity and anti-wear properties, as well as its properties regarding contaminant suspension, have not been improved by the inclusion of additive(s);
- (3) 'additive' means a substance or mixture which primary functions are the improvement of one or several of the following aspects: flow, ageing, lubricity, anti-wear properties and contaminant suspension;
- (4) 'substance' means a chemical element and its compounds in the natural state or obtained by any production process, including any additive necessary to preserve its stability and any impurity deriving from the process used, but excluding any solvent which may be separated without affecting the stability of the substance or changing its composition;
- (5) 'total loss' means that the lubricant is fully released to the environment during use;
- (6) 'partial loss' means that the lubricant is partially released to the environment during use and the non-released part can be recovered for re-processing, recycling or disposal;
- (7) 'accidental loss' means that the lubricant is used in a closed system and can be released to the environment only incidentally and, after use, can be recovered for re-processing, recycling or disposal;
- (8) 'chainsaw oil' means a lubricant that is used to lubricate the bar and chain on one or more types of chainsaw;
- (9) 'wire rope lubricant' means a lubricant that is used to lubricate wire ropes which consist of several strands of metal wire held together to form a rope;
- (10) 'concrete release agent' means a lubricant that is used in the construction industry to prevent freshly placed concrete adhering to a surface, usually plywood, overlaid plywood, steel or aluminium;
- (11) 'grease' means a solid or semi-solid lubricant which contains a thickener in order to thicken or modify the rheology of the base fluid;
- (12) 'gear oil' means a lubricant made specifically for transmissions, transfer cases, and differentials in automobiles, trucks, and other machinery;

- (13) 'stern tube oil' means a lubricant used in the stern tube of a ship;
- (14) 'two-stroke oil' means a lubricant used in two-stroke engines;
- (15) 'temporary protection against corrosion' means a lubricant that is applied to a metal surface as a thin film in order to prevent water and oxygen from coming into contact with the metal surface;
- (16) 'hydraulic systems' means a lubricant by means of which power is transferred in hydraulic machinery;
- (17) 'metalworking fluid' means a lubricant designed for metalworking processes, such as cutting and forming, and whose main functions are cooling, reducing friction, removing metal particles, and protecting the work pieces, the tool, and the machine tool from corrosion.

Article 3

In order to be awarded the EU Ecolabel under Regulation (EC) No 66/2010, a lubricant shall fall within the product group 'lubricants' as defined in Article 1 of this Decision and shall comply with the criteria and related assessment and verification requirements set out in the Annex to this Decision.

Article 4

The criteria for the product group 'lubricants' and the related assessment and verification requirements shall be valid until 31 December 2024.

Article 5

For administrative purposes, the code number assigned to the product group 'lubricants' shall be '027'.

Article 6

Decision 2011/381/EU is repealed.

Article 7

1. Notwithstanding Article 6, applications for the EU Ecolabel for products falling within the product group 'lubricants' submitted before the date of adoption of this Decision shall be evaluated in accordance with the conditions laid down in Decision 2011/381/EU.

2. Applications for the EU Ecolabel for products falling within the product group 'lubricants' submitted within two months from the date of adoption of this Decision may be based either on the criteria set out in Decision 2011/381/EU or on the criteria set out in this Decision. Those applications shall be evaluated in accordance with the criteria on which they are based.

3. Where the EU Ecolabel is awarded, in accordance with the criteria set out in Decision 2011/381/EU, the EU Ecolabel may be used only until 31 December 2019.

Article 8

This Decision is addressed to the Member States.

Done at Brussels, 8 November 2018.

For the Commission
Karmenu VELLA
Member of the Commission

ANNEX

FRAMEWORK
EU ECOLABEL CRITERIA

Criteria for awarding the EU Ecolabel to lubricants

CRITERIA

1. Excluded or limited substances
2. Additional aquatic toxicity requirements
3. Biodegradability and bioaccumulative potential
4. Renewable ingredients requirements
5. Packaging/container requirements
6. Minimum technical performance
7. Consumer information regarding use and disposal
8. Information appearing on the EU Ecolabel

ASSESSMENT AND VERIFICATION

(a) Requirements

The specific assessment and verification requirements are indicated within each criterion.

Where the applicant is required to provide the competent bodies with declarations, documentation, analyses, test reports, or other evidence to show compliance with the criteria, these may originate from the applicant and/or their supplier(s), as appropriate.

Competent bodies shall preferentially recognise attestations which are issued by bodies accredited in accordance with the relevant harmonised standard for testing and calibration laboratories (General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025:2005)) or with the principles of Good Laboratory Practice (GLP); and verifications by bodies that are accredited in accordance with the relevant harmonised standard for bodies certifying products, processes and services. Accreditation shall be carried out in accordance with Regulation (EC) No 765/2008 of the European Parliament and of the Council ⁽¹⁾.

Where appropriate, test methods other than those indicated for each criterion may be used if the competent body assessing the application accepts their equivalence.

Where appropriate, competent bodies may require supporting documentation and may carry out independent verifications or site visits.

As a prerequisite, the product shall meet all applicable legal requirements of the country or countries in which the product is intended to be placed on the market. The applicant shall declare the product's compliance with this requirement.

The Lubricant Substance Classification list (LuSC list), available on the EU Ecolabel website ⁽²⁾, contains substances and brands that have been assessed by a competent body with regard to the relevant requirements included in this Decision and the data can be used directly in the application process.

A Letter of Compliance issued by one of the EU Ecolabel competent bodies can be used directly in the application process.

A list of all intentionally added substances and/or formed intentionally after any chemical reaction in the applied lubricant at or above the concentration of 0,010 % weight by weight in the final product shall be provided to the competent body, indicating the trade name (if existing), the chemical name, the CAS No, the ingoing quantity, the function and the form present in the final product formulation. All listed substances present in the form of nanomaterials shall be clearly indicated on the list with the word 'nano' written in brackets.

⁽¹⁾ Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products and repealing Regulation (EEC) No 339/93 (OJ L 218, 13.8.2008, p. 30).

⁽²⁾ <http://ec.europa.eu/environment/ecolabel/>

For each substance listed, the Safety Data Sheets (SDS) in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council ⁽¹⁾ shall be provided. Where an SDS is not available for a single substance because it is part of a mixture, the applicant shall provide the SDS of the mixture.

(b) **Measurement thresholds**

Compliance with the ecological criteria is required for the final product and its constituent substances that are intentionally added and/or formed intentionally after any chemical reaction in the applied lubricant as indicated within each criterion.

In addition, the total fraction of the listed substances where the formulated criteria 2 and 3 do not apply shall remain below 0,5 % (w/w).

Note: Where grease can be used as both TLL and PLL (as in the case of multifunctional grease), criteria applicable to the TLL sub-group shall apply. If grease can be used as PLL and ALL, but not as TLL, then the criteria applicable to the PLL sub-group shall apply.

For gear oils used in open gears criteria applicable to the PLL sub-group shall apply while for gear oils used in closed gears criteria applicable to the ALL sub-group shall apply. When a gear oil can be used in both types of gears criteria applicable to the PLL sub-group shall apply.

CRITERION 1 — EXCLUDED OR LIMITED SUBSTANCES

For the purpose of criterion 1 impurities stated in the SDS, whose presence in the final product equals or exceeds 0,010 %, shall comply with the same requirements as the intentionally added substances.

1(a) **Hazardous substances**

(i) Final product

The final product shall not be classified in accordance with any of the hazard statements included in Table 1.

(ii) Substances

Substances that meet the criteria for classification with the hazard statements listed in Table 1 shall not be intentionally added or formed in the final product as specified by the respective limit values.

Where stricter, the generic or specific concentration limits determined in accordance with Article 10 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council ⁽²⁾ shall take precedence.

Table 1

Restricted hazard statements

Hazard statement	Limit value
H340 May cause genetic defects	≤ 0,010 % weight by weight per substance in the final product
H350 May cause cancer	
H350i May cause cancer by inhalation	
H360F May damage fertility	

⁽¹⁾ Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (OJ L 396, 30.12.2006, p. 1).

⁽²⁾ Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (OJ L 353, 31.12.2008, p. 1).

Hazard statement	Limit value
H360D May damage the unborn child	
H360FD May damage fertility. May damage the unborn child	
H360Fd May damage fertility. Suspected of damaging the unborn child	
H360Df May damage the unborn child. Suspected of damaging fertility	
H341 Suspected of causing genetic defects	
H351 Suspected of causing cancer	
H361f Suspected of damaging fertility	
H361d Suspected of damaging the unborn child	
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child	
H362 May cause harm to breast-fed children	
H300 Fatal if swallowed (oral)	
H310 Fatal in contact with skin (dermal)	
H330 Fatal if inhaled (inhal.)	
H304 May be fatal if swallowed and enters airways	$\leq 0,5 \times$ Final product classification limit for H304
H301 Toxic if swallowed	$<$ Final product classification limit for H301
H311 Toxic in contact with skin	$<$ Final product classification limit for H311
H331 Toxic if inhaled	$<$ Final product classification limit for H331
EUH070 Toxic by eye contact	$\leq 0,010$ % weight by weight per substance in the final product
H370 Causes damage to organs	
H372 Causes damage to organs through prolonged or repeated exposure	
H371 May cause damage to organs	
H373 May cause damage to organs through prolonged or repeated exposure	$<$ Final product classification limit for H373
H335 May cause respiratory irritation	$\leq 0,010$ % weight by weight per substance in the final product
H336 May cause drowsiness or dizziness	$<$ Final product classification limit for H336
H317: May cause allergic skin reaction	$<$ Final product classification limit for H317
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled	$\leq 0,010$ % weight by weight per substance in the final product
H314 Causes severe skin burns and eye damage	$<$ Final product classification limit for H314

Hazard statement	Limit value
H315 Causes skin irritation	< Final product classification limit for H315
H318: Causes serious eye damage	< Final product classification limit for H318
H319 Causes serious eye irritation	< Final product classification limit for H319
H400 Very toxic to aquatic life	$\leq 0,5 \times$ Final product classification limit for H400
H410 Very toxic to aquatic life with long-lasting effects	$\leq 0,5 \times$ Final product classification limit for H410
H411 Toxic to aquatic life with long-lasting effects	< Final product classification limit for H412 and H413
H412 Harmful to aquatic life with long-lasting effects	
H413 May cause long-lasting effects to aquatic life	
H420 Harms public health and the environment by destroying ozone in the upper atmosphere	$\leq 0,010$ % weight by weight per substance in the final product
EUH029 Contact with water liberates toxic gas	
EUH031 Contact with acids liberates toxic gas	
EUH032 Contact with acids liberates very toxic gas	
EUH066 Repeated exposure may cause skin dryness or cracking	< Final product classification limit for EUH066

Note: where final product classification limit (or $0,5 \times$ Final product classification limit) is mentioned, the maximum total concentration of all classified substances with the specific hazard statement(s) shall be considered.

This criterion does not apply to substances covered by Article 2(7)(a) and (b) of Regulation (EC) No 1907/2006 which sets out criteria for exempting substances within Annexes IV and V to that Regulation from the registration, downstream user and evaluation requirements. In order to determine whether that exclusion applies, the applicant shall screen any intentionally added/formed substance at or above the concentration of 0,010 % weight by weight in the final product.

1(b) Specified restricted substances

The substances listed below shall not be intentionally added or formed at or above the concentration of 0,010 % weight by weight in the final product:

- Substances appearing in the Union List of priority substances in the field of water policy in Annex X to Directive 2000/60/EC of the European Parliament and of the Council ⁽¹⁾ as amended by Decision No 2455/2001/EC ⁽²⁾ and the OSPAR List of Chemicals for Priority Action (<http://www.ospar.org/work-areas/hasec/chemicals/priority-action>),
- Organic halogen compounds and nitrite compounds,
- Metals or metallic compounds with the exception of sodium, potassium, magnesium and calcium. In the case of thickeners, also lithium and/or aluminium compounds may be used up to concentrations limited by the other criteria included in the Annex to this Decision.

⁽¹⁾ Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for Community action in the field of water policy (OJ L 327, 22.12.2000, p. 1).

⁽²⁾ Decision No 2455/2001/EC of the European Parliament and of the Council of 20 November 2001 establishing the list of priority substances in the field of water policy and amending Directive 2000/60/EC (OJ L 331, 15.12.2001, p. 1).

1(c) Substances of very high concern (SVHCs)

The final product shall not contain any intentionally added/formed substances that have been identified in accordance with the procedure described in Article 59(1) of Regulation (EU) No 1907/2006, which establishes the candidate list for substances of very high concern at or above the concentration of 0,010 % weight by weight in the final product.

Assessment and verification

The applicant shall provide a signed declaration of compliance with above sub-requirements, supported by declarations from suppliers, if appropriate; and the following supporting evidence:

To demonstrate compliance with 1(a)(i) the applicant shall provide the SDS of the final product.

To demonstrate compliance with 1(a)(ii), 1(b) and 1(c) the applicant shall provide:

- SDS of intentionally added mixtures and their concentration in the final product,
- SDS of intentionally added substances and their concentration in the final product.

For substances exempted from requirement 1(a)(ii) (see Annexes IV and V to Regulation (EC) No 1907/2006), a declaration to this effect by the applicant shall suffice to comply.

For requirement 1(c) reference to the latest list of substances of very high concern shall be made on the date of application.

The above evidence can also be provided directly to Competent Bodies by any supplier in the applicant's supply chain.

CRITERION 2 — ADDITIONAL AQUATIC TOXICITY REQUIREMENTS

The applicant shall demonstrate compliance by meeting the requirements of either criterion 2.1 or 2.2.

2.1. Requirement for the lubricant and its main components

The critical concentration for the aquatic toxicity for both the freshly prepared lubricant and for each main component shall not be lower than the values specified in Table 2.

Main component means any substance accounting for more than 5 % by weight of the lubricant.

Table 2

Aquatic toxicity values for both freshly prepared lubricant and for each main component

		ALL	PLL	TLL
Aquatic toxicity for the freshly prepared lubricant	Critical concentration for acute aquatic toxicity OR	> 100 mg/l	> 1 000 mg/l	> 1 000 mg/l
	Chronic aquatic toxicity	> 10 mg/l	> 100 mg/l	> 100 mg/l
Aquatic toxicity for each main component	Critical concentration for acute aquatic toxicity OR	> 100 mg/l		
	Chronic aquatic toxicity	> 10 mg/l		

Available acute aquatic toxicity test data for each main component shall be provided on each of the following two trophic levels:

- crustacean (daphnia preferred),
- aquatic plants (algae preferred).

In case acute aquatic toxicity test data is missing in one or both trophic levels, available test data on chronic aquatic toxicity for both the crustacean (daphnia preferred) and fish trophic level shall be accepted.

QSARs could be used to fill data gaps for chronic toxicity or for acute toxicity in only one of the relevant trophic levels.

In case the aforementioned test data is not available for each main component, a test shall be performed to generate data for acute toxicity in the missing trophic level/s (i.e. crustacean and/or aquatic plants).

Available acute aquatic toxicity test data for the lubricant shall be provided on each of the following three trophic levels:

- crustacean (daphnia preferred),
- aquatic plants (algae preferred),
- fish.

In case acute aquatic toxicity test data for the applied lubricant is missing for any of the mentioned trophic levels available test data on chronic aquatic toxicity shall be accepted for the missing trophic level/s.

In case the above data is not available for the applied lubricant, a test shall be performed to generate data on acute aquatic toxicity for the missing trophic level/s.

2.2. Requirement for each intentionally added or formed substances at or above 0,10 % weight by weight in the final product

Substances exhibiting a certain degree of aquatic toxicity are allowed up to a cumulative mass concentration indicated in Table 3.

Table 3

Cumulative mass percentage (% w/w) limits for substances present in the product with respect to their aquatic toxicity

	Cumulative mass percentage (% weight by weight in the final product)		
	ALL	PLL	TLL
Acute aquatic toxicity > 100 mg/l or Chronic aquatic toxicity > 10 mg/l	Not limited		
Acute aquatic toxicity > 10 to ≤ 100 mg/l or 1 mg/l < Chronic aquatic toxicity ≤ 10 mg/l	≤ 10 (≤ 20 for ALL greases)	≤ 10 (≤ 15 for PLL greases)	≤ 2 (≤ 10 for TLL greases)
Acute aquatic toxicity > 1 to ≤ 10 mg/l or 0,1 mg/l < Chronic aquatic toxicity ≤ 1 mg/l	≤ 2,5 (≤ 1 for ALL greases)	≤ 0,6	≤ 0,4
Acute aquatic toxicity ≤ 1 mg/l or Chronic aquatic toxicity ≤ 0,1 mg/l	≤ 0,1/M (*)	≤ 0,1/M (*)	≤ 0,1/M (*)

(*) M-factors for highly toxic components of mixtures shall be applied in accordance with Article 10 of Regulation (EC) No 1272/2008 as described in Section 4.1.3.5.5.5 of Annex I to that Regulation.

Available chronic aquatic toxicity test data for each substance (each intentionally added or formed substances at or above 0,10 % weight by weight in the final product) shall be provided for each of the following two trophic levels:

- crustacean (daphnia preferred), and
- fish

In case chronic aquatic toxicity test data is missing in one or both trophic levels, available data on acute aquatic toxicity for both trophic levels, crustacean (daphnia preferred) and aquatic plants (algae preferred) shall be accepted.

QSARs could be used to fill data gaps for chronic toxicity or for acute toxicity in only one of the relevant trophic levels.

In case the above data is not available for each substance, a test shall be performed to generate data for acute toxicity in the missing trophic level/s (i.e. crustacean and/or aquatic plants).

Assessment and verification applicable to criteria 2.1 and 2.2

In case of self-assessment by the applicant, for each substance, main component or for the lubricant, the applicant shall provide test reports or literature data including the references demonstrating compliance with the requirements set in sub-criterion 2.1 or 2.2.

For each substance or main component where the assessment is based on a valid letter of compliance (LoC), a copy of the letter shall be provided. For each substance or main component selected from the Lubricant Substance Classification list (LuSC-list) the assessment can be based on the information reported in said list and no documents need to be submitted.

Either marine or freshwater toxicity data are accepted.

Acute aquatic toxicity data (available or generated for the application) shall originate from tests carried out according to:

- ISO 10253 or ISO 8692 or OECD Test Guideline 201 or Part C.3 of the Annex to Commission Regulation (EC) No 440/2008 ⁽¹⁾ for algae,
- ISO 6341 or OECD Test Guideline 202 or Part C.2 of the Annex to Regulation (EC) No 440/2008 for daphnia,
- ISO 7346 or OECD Test Guideline 203 or Part C.1 of the Annex to Regulation (EC) No 440/2008 for fish (only applies to available existing data),
- fish embryo toxicity (FET) (non-animal alternative) test according to OECD Test Guideline 236 or part C.49 of the Annex to Regulation (EC) No 440/2008 for fish (only applies when a test needs to be performed for the application).

Only acute aquatic toxicity (72 or 96 hr) ErC₅₀ for algae, (48hr) EC₅₀ for daphnia and (96hr) LC₅₀ for fish are accepted.

Chronic aquatic toxicity data (available) shall originate from tests carried out according to:

- ISO 10253 or ISO 8692 or OECD Test Guideline 201 or Part C.3 of the Annex to Regulation (EC) No 440/2008 for algae,
- Part C.20 of the Annex to Regulation (EC) No 440/2008 or OECD Test Guideline 211 for daphnia,
- OECD Test Guideline 215 or Part C.14 of the Annex to Regulation (EC) No 440/2008 or ISO 12890 or OECD Test Guideline 212 or part C.15 of the Annex to Regulation (EC) No 440/2008 or OECD Test Guideline 210 for fish.

Only chronic toxicity data in the form of No Observed Effect Concentration (NOEC) data shall be accepted.

When QSARs are used to fill data gaps, the applicant shall provide the prediction generated for the target chemical. Results of (Q)SARs shall only be accepted if documentation on the validity and applicability domain of the applied model is provided by the applicant.

In the case of slightly soluble substances or mixtures (< 10 mg/l) the method of the water-accommodated fraction (WAF) can be used in the aquatic toxicity determination. The established loading level referred to as LL50 and related to the lethal loading or the EL50 related to the effective loading for acute aquatic toxicity and NOELR related to the no observable effect loading rate for chronic aquatic toxicity may be used directly in the classification criteria. The preparation of a water-accommodated fraction shall follow the recommendations set out according to one of the following guidelines: Appendix C to ECETOC Technical Report No 26 (1996), OECD 2002 Guidance Document on Aquatic Toxicity Testing of Difficult Substances and Mixtures (OECD Series on Testing and Assessment, No 23), ISO 5667-16 Water quality — Sampling — Part 16 (Guidance on biotesting of samples),

⁽¹⁾ Commission Regulation (EC) No 440/2008 of 30 May 2008 laying down test methods pursuant to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 142, 31.5.2008, p. 1).

ASTM D6081-98 (Standard practice for Aquatic Toxicity Testing for Lubricants: Sample Preparation and Results Interpretation) or equivalent methods. In addition, demonstration of the absence of toxicity for a substance at its limit of water solubility shall be deemed to have met the requirements of this criterion.

The following substances are exempted from requirements 2.1 and 2.2:

- any substance which is unlikely to cross biological membranes MM > 800 g/mol and with a molecular diameter > 1,5 nm (> 15 Å), or
- any substance which is a polymer and whose molecular weight fraction below 1 000 g/mol is less than 1 %, or
- any substance which is highly insoluble in water (water solubility < 10 µg/l)

The water solubility of substances shall be determined where appropriate according to OECD Test Guideline 105 or Part A.6 of the Annex to Regulation (EC) No 440/2008 or equivalent test methods.

A polymer molecular weight fraction below 1 000 g/mol shall be determined according to Part A.19 of the Annex to Regulation (EC) No 440/2008 or OECD Test Guideline 119 or equivalent test methods.

CRITERION 3 — BIODEGRADABILITY AND BIOACCUMULATIVE POTENTIAL

Requirements for the biodegradability of organic compounds and bioaccumulative potential shall be fulfilled by each intentionally added or formed substance at or above the concentration of 0,10 % weight by weight in the final product.

The lubricant shall not contain substances that are both non-biodegradable and (potentially) bioaccumulative. However, the lubricant may contain one or more substances with a certain degree of degradability and potential or actual bioaccumulation up to a cumulative mass concentration as indicated in Table 4.

Table 4

Cumulative mass percentage (%w/w) limits for substances present in the product with respect to their biodegradability and bio-accumulation potential

	ALL	PLL	TLL	Greases (ALL,PLL,TLL)
Readily aerobically biodegradable	> 90	> 75	> 95	> 80
Inherently aerobically biodegradable	≤ 10	≤ 25	≤ 5	≤ 20
Non-biodegradable and non-bioaccumulative	≤ 5	≤ 20	≤ 5	≤ 15
Non-biodegradable and bioaccumulative	≤ 0,1	≤ 0,1	≤ 0,1	≤ 0,1

Assessment and verification

For each substance where the assessment is carried out by the applicant, test reports or literature data including the references on the biodegradability and when required on the (potential) bioaccumulation shall be provided.

For each substance where the assessment is based on a valid letter of compliance (LoC), only a copy of the letter shall be provided.

For each substance selected from the Lubricant Substance Classification list (LuSC-list) the assessment can be based on the information reported in said list and no documents need to be submitted.

Biodegradation

'Inherently biodegradable' means a substance, which achieves the following level of degradation:

- > 70 % after 28 days for inherent biodegradation test, or
- > 20 % but < 60 % after 28 days in tests based on oxygen depletion or carbon dioxide generation.

Inherent biodegradability shall be measured in accordance with the following tests:

- Regulation (EC) No 440/2008 (Part C.9 of the Annex), OECD 302 or equivalent methods,
- tests based on oxygen depletion or carbon dioxide generation: Regulation (EC) No 440/2008 (Part C.4 of the Annex), OECD 306, OECD 310, or equivalent methods.

'Readily biodegradable' means an arbitrary classification of chemicals which have passed certain specified screening tests for ultimate biodegradability; these tests are so stringent that it is assumed that such compounds will rapidly and completely biodegrade in aquatic environments under aerobic conditions. Substances are considered rapidly degradable in the environment if one of the following criteria holds true:

1. if, in 28-day ready biodegradation studies, at least the following levels of degradation are achieved:

- tests based on dissolved organic carbon: 70 %,
- tests based on oxygen depletion or carbon dioxide generation: 60 % of theoretical maximum.

These levels of biodegradation must be achieved within 10 days of the start of degradation which point is taken as the time when 10 % of the substance has been degraded, unless the substance is identified as an UVCB or as a complex, multi-constituent substance with structurally similar components. In this case, and where there is sufficient justification, the 10-day window condition may be waived and the pass level applied at 28 days; or

2. if, in those cases, where only BOD and COD data are available, when the ratio of BOD₅/COD is $\geq 0,5$; or
3. if other convincing scientific evidence is available to demonstrate that the substance can be degraded (biotically and/or abiotically) in the aquatic environment to a level > 70 % within a 28-day period.

Ready biodegradability shall be measured in accordance with the following tests:

- Regulation (EC) No 440/2008 (Part C.4, C.5 in conjunction with C.6 and C.42 of the Annex), OECD 301, OECD 306, OECD 310, or equivalent methods.

Note: Within the frame of this criterion, the 10-day window principle will not necessarily apply. If the substance reaches the biodegradation pass level within 28 days but not within the 10-day time-window a slower degradation rate is assumed.

'Non-biodegradable' means a substance which fails the criteria for ultimate and inherent biodegradability.

The applicant may also use read-across data to estimate the biodegradability of a substance. 'Read-across' for the assessment of the biodegradability of a substance shall be acceptable if the reference substance differs by only one functional group or fragment from the substance applied in the product. If the reference substance is readily or inherently biodegradable and the functional group has a positive effect on the aerobic biodegradation, then the applied substance may also be regarded as readily or inherently biodegradable. Functional groups or fragments with a positive effect on the biodegradation are: aliphatic and aromatic alcohol [-OH], aliphatic and aromatic acid [-C(=O)-OH], aldehyde [-CHO], Ester [-C(=O)-O-C], amide [-C(=O)-N or -C(=S)-N]. Adequate and reliable documentation of the study on the reference substance should be provided. In case of a comparison with a fragment, not included above, adequate and reliable documentation of the studies should be provided on the positive effect of the functional group on the biodegradation of structurally similar substances.

Bioaccumulation

The (potential) bioaccumulation does not need to be established when the substance:

- has a MM > 800 g/mol and has a molecular diameter $> 1,5$ nm (> 15 Å), or
- has an octanol-water partition coefficient, log K_{ow} , value of < 3 or > 7 , or
- has a measured BCF of ≤ 100 l/kg, or
- is a polymer and its molecular weight fraction below 1 000 g/mol is less than 1 %.

Since most substances used in lubricants are quite hydrophobic the bioconcentration factor (BCF) value should be based on the lipid weight content and care must be shown to ensure a sufficient exposure time. The BCF shall be assessed according to Part C.13 of the Annex to Regulation (EC) No 440/2008 or equivalent test methods.

The log octanol/water partition coefficient (log K_{ow}) shall be assessed according to Part A.8 of the Annex to Regulation (EC) No 440/2008 or OECD 123 or equivalent test methods. In case of an organic substance other than a surfactant

where no experimental value is available, a calculation method can be used. The following calculation methods are allowed: CLOGP, LOGKOW, (KOWWIN) and SPARC. Estimated $\log K_{ow}$ values obtained by any of these calculation methods < 3 or > 7 indicate that the substance is not expected to bioaccumulate.

$\log K_{ow}$ values are applicable to organic chemicals only. To assess the bioaccumulation potential of non-organic compounds, surfactants, and some organo-metallic compounds, BCF measurements shall be carried out.

CRITERION 4 — RENEWABLE INGREDIENTS REQUIREMENTS

- (a) In the specific case of renewable ingredients from palm oil or palm kernel oil, or derived from palm oil or palm kernel oil, 100 % w/w of the renewable ingredients used shall meet the requirements for sustainable production of a certification scheme that is a multi-stakeholder organisation with a broad membership, including NGOs, industry and government and that addresses environmental impacts on soil, biodiversity, organic carbon stocks and conservation of natural resources.
- (b) If the term 'bio-based' or 'bio-lubricant' is used, the minimum bio-based carbon content in the final product shall be 25 % in accordance with EN 16807.

Assessment and verification

To demonstrate compliance with criterion 4(a) evidence through third-party chain of custody certificates that the input materials used in the manufacturing originate from sustainably managed plantations shall be provided. Roundtable for Sustainable Palm Oil (RSPO) certificates or certificates of any equivalent or stricter sustainable production scheme demonstrating compliance to any of the following models: identity preserved, segregated, mass balance shall be accepted. For palm oil and palm kernel oil derivatives, the amounts of RSPO credits purchased and claimed in the RSPO PalmTrace system model during the most recent annual trading period shall be provided to demonstrate compliance to the Book and Claim supply chain model.

To demonstrate compliance with criterion 4(b) the applicant shall enclose the final product test report in accordance with EN 16807, ASTM D 6866, DIN CEN/TS 16137 (SPEC 91236), EN 16640 or EN 16785-1.

CRITERION 5 — PACKAGING/CONTAINER REQUIREMENTS

- (a) Recycled content (applicable only in the case of lubricants sold in plastic packaging/container): plastic packaging/container shall be made of a minimum of 25 % of post-consumer plastic.
- (b) Design (applicable only in the case of lubricants designed to be sold to private end-consumers): the packaging/container should have an appropriate system (e.g. prolongation systems or narrow apertures) in order to avoid spillage during use.

Assessment and verification

The applicant shall provide the following evidence as applicable:

The composition of the plastic packaging/container and the shares of recycled and virgin material. If necessary, a declaration of compliance from the plastic packaging/container supplier shall be included.

Post-consumer plastic means plastic generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product which can no longer be used for its intended purpose. This includes returns of plastic from the distribution chain.

Post-consumer plastic content shall be calculated as shown below. As there are no methods available for directly measuring the recycled content in a product or packaging, the mass of plastic obtained from the recycling process, after accounting for losses and other diversions, shall be used.

$$X(\%) = A/P \times 100$$

Where:

X is the (post-consumer) recycled content

A is the mass of the recycled (post-consumer) plastic

P is the mass of the packaging/container

A description of the design of the packaging/container, along with photos or technical drawings, shall also be provided.

CRITERION 6 — MINIMUM TECHNICAL PERFORMANCE

The lubricant product shall comply with the corresponding minimum technical performance requirements as specified in Table 5.

Table 5

Minimum technical performance for lubricant products

Lubricant category	Minimum technical performance
Chainsaw oils	KWF test version 2017 test or equivalent
— Wire rope lubricants — Concrete release agents — Other total loss lubricants — Stern tube oils — Metalworking fluids	'Fit for purpose' demonstrated by at least one 'applicant's clients' approval'
Gear oils	gear oils (closed gears): ISO 12925-1 or DIN 51517 (Section I, II or III) gear oils (open gears): 'Fit for purpose' demonstrated by at least one 'applicant's clients' approval'.
Two-stroke oils	two-stroke marine: NMMA TC-W3 two-stroke terrestrial: ISO 13738 (EGD)
Hydraulic systems	ISO 15380 (Tables 2 to 5) Fire resistant hydraulic fluids: ISO 15380 (Tables 2 to 5) + ISO 12922 (Table 1 to 3) or Factory Mutual Approval
Temporary protection against corrosion	ISO/TS 12928 or 'Fit for purpose' demonstrated by at least one 'applicant's clients' approval'.
Lubricating greases	Greases for temporary protection against corrosion: ISO/TS 12928 or 'Fit for purpose' demonstrated by at least one 'applicant's clients' approval'. Greases for closed gear: DIN 51826 Greases for roller bearings, plain bearings and sliding surfaces: DIN 51825 All other greases: ISO 12924 or 'Fit for purpose' demonstrated by at least one 'applicant's clients' approval'

Note: Multipurpose greases that include any of the above specified applications among their potential uses shall be tested according to the corresponding specific test of the relevant specified application.

Assessment and verification

The applicant shall provide a declaration of compliance with this criterion supported by testing results, where appropriate.

For hydraulic systems, it shall be indicated on the product information sheet which elastomers have been tested.

Applicant's clients' approval means a letter/document/statements issued by clients for a specific product, assuring that the product met their specifications and works correctly in its intended application.

CRITERION 7 — CONSUMER INFORMATION REGARDING USE AND DISPOSAL

In the case of lubricants designed to be sold to private end-consumers, the following information (in text form or pictograms) shall be present on the packaging/container (comparable text formulations are permitted):

'Avoid any spillage of unused product to the environment',

'Product residue and package/container should be disposed of in dedicated collection points'.

Assessment and verification

The applicant shall provide a sample of the product container/packaging or its artwork where the above information appears.

CRITERION 8 — INFORMATION APPEARING ON THE EU ECOLABEL

The optional label with text box may contain the following text:

- (a) 'Less hazardous substances ending up in the environment';
- (b) 'Verified performance';
- (c) 'X % of certified renewable ingredients used' (where relevant) ⁽¹⁾,

The guidelines for the use of the optional label with text box can be found in the 'Guidelines for the use of the EU Ecolabel logo' on the website:

http://ec.europa.eu/environment/ecolabel/documents/logo_guidelines.pdf

Assessment and verification

The applicant shall provide a sample of the label. If statement c) is used, the applicant shall provide the relevant certificate(s) related to the percentage of certified renewable ingredient(s) used.

⁽¹⁾ If certified renewable ingredients are used, regardless of the type of biomass (e.g. rapeseed, sunflower, palm, soy, etc.), total content of certified ingredients can be indicated.

COMMISSION IMPLEMENTING DECISION (EU) 2018/1703**of 12 November 2018****terminating the partial interim review concerning imports of ammonium nitrate originating in Russia**

THE EUROPEAN COMMISSION,

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

Having regard to Regulation (EU) 2016/1036 of the European Parliament and of the Council of 8 June 2016 on protection against dumped imports from countries not members of the European Union ⁽¹⁾ ('the basic Regulation'), and in particular Article 11(3) thereof,

Whereas:

A. PROCEDURE**1. Previous investigations and existing anti-dumping measures**

- (1) By Council Regulation (EC) No 2022/95 ⁽²⁾, the Council imposed a definitive anti-dumping duty on imports of ammonium nitrate currently falling within CN codes 3102 30 90 and 3102 40 90 and originating in Russia. Pursuant to a further investigation, which established that the duty was being absorbed, the measures were amended by Council Regulation (EC) No 663/98 ⁽³⁾. Following a first expiry review and a first interim review pursuant to Articles 11(2) and 11(3) of Council Regulation (EC) No 384/96 ⁽⁴⁾ the Council, by Regulation (EC) No 658/2002 ⁽⁵⁾, imposed a definitive, country-wide anti-dumping duty of EUR 47,07 per tonne on imports of ammonium nitrate falling within CN codes 3102 30 90 and 3102 40 90 and originating in Russia. Subsequently, a product scope interim review pursuant to Article 11(3) of Regulation (EC) No 384/96 was carried out and, by Council Regulation (EC) No 945/2005 ⁽⁶⁾, a definitive anti-dumping duty ranging between EUR 41,42 per tonne and EUR 47,07 per tonne was imposed on imports of solid fertilisers with an ammonium nitrate content exceeding 80 % by weight, currently falling within CN codes 3102 30 90, 3102 40 90, ex 3102 29 00, ex 3102 60 00, ex 3102 90 00, ex 3105 10 00, ex 3105 20 10, ex 3105 51 00, ex 3105 59 00 and ex 3105 90 20 originating in Russia.
- (2) Following a second expiry review and a second partial interim review pursuant to Articles 11(2) and 11(3) of Regulation (EC) No 384/96, the Council, by Regulation (EC) No 661/2008 ⁽⁷⁾, maintained the measures in force. The duty was left unchanged, except for the EuroChem group, for which the fixed amount of duty was set between EUR 28,88 and EUR 32,82 per tonne.
- (3) The European Commission ('the Commission'), by Decision 2008/577/EC ⁽⁸⁾, accepted the undertakings' offers with a quantitative ceiling from the Russian producers JSC Acron and JSC Dorogobuzh, members of the Acron Holding Company and from EuroChem group. By Decision 2012/629/EU ⁽⁹⁾, the Commission withdrew its acceptance of the undertaking offered by the EuroChem Group because of the impracticability of the undertaking.

⁽¹⁾ OJ L 176, 30.6.2016, p. 21.

⁽²⁾ Council Regulation (EC) No 2022/95 of 16 August 1995 imposing definitive anti-dumping duty on imports of ammonium nitrate originating in Russia (OJ L 198, 23.8.1995, p. 1).

⁽³⁾ Council Regulation (EC) No 663/98 of 23 March 1998 amending Regulation (EC) No 2022/95 imposing a definitive anti-dumping duty on imports of ammonium nitrate originating in Russia (OJ L 93, 26.3.1998, p. 1).

⁽⁴⁾ Council Regulation (EC) No 384/96 of 22 December 1995 on protection against dumped imports from countries not members of the European Community (OJ L 56, 6.3.1996, p. 1).

⁽⁵⁾ Council Regulation (EC) No 658/2002 of 15 April 2002 imposing a definitive anti-dumping duty on imports of ammonium nitrate originating in Russia (OJ L 102, 18.4.2002, p. 1).

⁽⁶⁾ Council Regulation (EC) No 945/2005 of 21 June 2005 amending Regulation (EC) No 658/2002 imposing a definitive anti-dumping duty on imports of ammonium nitrate originating in Russia and Regulation (EC) No 132/2001 imposing a definitive anti-dumping duty on imports of ammonium nitrate originating in, inter alia, Ukraine, following a partial interim review pursuant to Article 11(3) of Regulation (EC) No 384/96 (OJ L 160, 23.6.2005, p. 1).

⁽⁷⁾ Council Regulation (EC) No 661/2008 of 8 July 2008 imposing a definitive anti-dumping duty on imports of ammonium nitrate originating in Russia following an expiry review pursuant to Article 11(2) and a partial interim review pursuant to Article 11(3) of Regulation (EC) No 384/96 (OJ L 185, 12.7.2008, p. 1).

⁽⁸⁾ Commission Decision 2008/577/EC of 4 July 2008 accepting the undertaking offered in connection with the anti-dumping proceeding concerning imports of ammonium nitrate originating in Russia and Ukraine (OJ L 185, 12.7.2008, p. 43).

⁽⁹⁾ Commission Decision 2012/629/EU of 10 October 2012 amending Decision 2008/577/EC accepting the undertakings offered in connection with the anti-dumping proceeding concerning imports of ammonium nitrate originating in Russia (OJ L 277, 11.10.2012, p. 8).

- (4) By judgment of 10 September 2008 ⁽¹⁾, interpreted by judgment of 9 July 2009 ⁽²⁾, the General Court annulled Regulation (EC) No 945/2005 in so far as it concerned JSC Kirovo-Chepetsky Khimichesky Kombinat, part of OJSC UCC UralChem. The Council, by Regulation (EC) No 989/2009 ⁽³⁾, amended Regulation (EC) No 661/2008 accordingly. Consequently, the anti-dumping duty of EUR 47,07 per tonne for the company Kirovo applies only to imports of ammonium nitrate currently falling within CN codes 3102 30 90 and 3102 40 90.
- (5) Following a third expiry review pursuant to Article 11(2) of Council Regulation (EC) No 1225/2009 ⁽⁴⁾, the Commission, by Implementing Regulation (EU) No 999/2014 ⁽⁵⁾, maintained the measures in force.
- (6) The Commission, by Implementing Regulation (EU) 2016/415 ⁽⁶⁾, withdrew the acceptance of the undertaking for the Acron Holding Company due to the impracticability of the undertaking.
- (7) The Acron Holding Company is currently subject to the country-wide anti-dumping duty rate ranging between EUR 41,42 per tonne and EUR 47,07 per tonne depending on the product type.

2. Request for a partial interim review limited to dumping

- (8) In April 2016, the Commission received a request for a partial interim review pursuant to Article 11(3) of the basic Regulation submitted by two Russian exporting producers PJSC Acron and PJSC Dorogobuzh and their affiliated trading company Agronova Europe AG in Switzerland (jointly referred to as 'the Acron group' or 'the applicant' or 'the exporting producer'). The request was limited in scope to the examination of dumping as far as the Acron group was concerned. The Acron group provided sufficient evidence that the continued imposition of the measure at its current level was no longer necessary to offset injurious dumping.

3. Initiation of a partial interim review limited to dumping

- (9) Having determined, after informing the Member States, that sufficient evidence existed to justify the initiation of a partial interim review limited to the examination of dumping as far as the applicant was concerned, the Commission announced on 17 August 2017, by a notice published in the *Official Journal of the European Union* ⁽⁷⁾ ('Notice of Initiation'), the initiation of a partial interim review pursuant to Article 11(3) of the basic Regulation.
- (10) The Commission officially informed the applicant, the authorities of the exporting country and the Union industry of the initiation of the partial interim review investigation. Interested parties were given the opportunity to make their views known in writing and to be heard.
- (11) On the same day, the Commission announced, by way of a Notice of Initiation ⁽⁸⁾, the initiation of another partial review of the anti-dumping measures applicable to imports of ammonium nitrate originating in Russia, limited to the examination of injury pursuant to Article 11(3) of the basic Regulation.

4. Investigation

- (12) In order to obtain the information necessary for its investigation, the Commission sent questionnaires to the Acron group. Replies were received within the deadline set for that purpose.
- (13) The Commission sought and verified all information it deemed necessary for the determination of dumping. Verification visits were carried out at the premises of the Acron group, namely PJSC Acron and PJSC Dorogobuzh and their related trader Agronova Europe AG in Switzerland. As of 5 January 2018 Agronova Europe AG changed its name to Acron Switzerland AG.

⁽¹⁾ Case T-348/05.

⁽²⁾ Case T-348/05 INTP.

⁽³⁾ Council Regulation (EC) No 989/2009 of 19 October 2009 amending Regulation (EC) No 661/2008, imposing a definitive anti-dumping duty on imports of ammonium nitrate originating in Russia (OJ L 278, 23.10.2009, p. 1).

⁽⁴⁾ Council Regulation (EC) No 1225/2009 of 30 November 2009 on protection against dumped imports from countries not members of the European Community (OJ L 343, 22.12.2009, p. 51).

⁽⁵⁾ Commission Implementing Regulation (EU) No 999/2014 of 23 September 2014 imposing a definitive anti-dumping duty on imports of ammonium nitrate originating in Russia (OJ L 280, 24.9.2014, p. 19).

⁽⁶⁾ Commission Implementing Regulation (EU) 2016/415 of 21 March 2016 withdrawing the acceptance of the undertaking for two exporting producers and repealing Decision 2008/577/EC accepting an undertaking offered in connection with the anti-dumping proceeding concerning imports of ammonium nitrate originating in Russia (OJ L 75, 22.3.2016, p. 10).

⁽⁷⁾ Notice of initiation of a partial interim review of the anti-dumping measures applicable to imports of ammonium nitrate originating in Russia (OJ C 271, 17.8.2017, p. 9).

⁽⁸⁾ Notice of initiation of a partial interim review of the anti-dumping measures applicable to imports of ammonium nitrate originating in Russia (OJ C 271, 17.8.2017, p. 15).

5. Review investigation period

- (14) The investigation of the level of dumping covered the period from 1 July 2016 to 30 June 2017 ('the review investigation period').

B. PRODUCT CONCERNED AND LIKE PRODUCT

1. Product concerned

- (15) The product under review is solid fertilisers with an ammonium nitrate content exceeding 80 % by weight originating in Russia ('the product concerned'), currently falling within CN codes 3102 30 90, 3102 40 90, ex 3102 29 00, ex 3102 60 00, ex 3102 90 00, ex 3105 10 00, ex 3105 20 10, ex 3105 51 00, ex 3105 59 00 and ex 3105 90 20.

2. Like product

- (16) The product concerned and the product produced and sold by the Acron group domestically, on the Union as well as on other exports markets share the same basic physical and chemical characteristics.
- (17) The Commission therefore concluded that these products are alike within the meaning of Article 1(4) of the basic Regulation.

C. LASTING NATURE OF CHANGED CIRCUMSTANCES

- (18) In accordance with Article 11(3) of the basic Regulation, the Commission examined whether the circumstances on the basis of which the current dumping margin was established have changed, and whether such change was of a lasting nature.
- (19) Gas is the most important raw material for ammonium nitrate representing over 60 % of the total cost of production. Similarly to previous investigations, the Commission found that domestic gas prices in Russia are regulated by the State via federal laws and do not reflect normal market conditions, where prices are principally set by production costs and profit expectations.
- (20) The Commission cannot qualify changes in domestic raw material prices as lasting because such changes are normally the result of volatile market forces. In any case, the Commission found that gas prices in Russia were regulated by the State via federal laws and did not reflect normal market conditions, where prices are principally set by production costs and profit expectations. Gas prices set by the State are directly applicable to state-owned companies, such as Gazprom. Gazprom is the biggest gas provider in the country with a market share above 50 %, and therefore it acts as a price-setter. On this basis, this situation is similar to the one that prevailed in previous investigations. Therefore, the Commission considers that the circumstances regarding the gas market in Russia have not changed and, as a result, that a modification of the measures pursuant to Article 11(3) of the basic Regulation is not warranted on that basis.
- (21) In the review request, the applicant raised some further claims such as withdrawal of its undertaking, internal reorganisation within the Acron group, Russia's accession to the WTO and currency exchange rate fluctuations. The relevance of these claims to the dumping margin or to the alleged lasting nature of the circumstances could however not be clearly ascertained. In particular, the applicant failed to provide sufficient evidence that its export price to the Union has changed due to the withdrawal of the undertaking. Similarly, no sufficient evidence was provided to demonstrate that the internal reorganisation within the Acron group has resulted in a change in the normal value/domestic sales prices. The applicant also failed to provide evidence as to how Russia's WTO accession impacted on the dumping margin. Finally, the Commission considers that currency exchange fluctuations do not constitute a change of a lasting nature as they are influenced by multiple market forces and tend to fluctuate over time.
- (22) Following disclosure, the applicant first claimed that the Commission failed to disclose all the elements regarding the applicant's dumping margin calculation and that would constitute a breach of its rights of defence.
- (23) In this respect, the Commission notes that the applicant had received the General Disclosure Document detailing all considerations on the basis of which the Commission decided to terminate this investigation. This allowed the applicant to fully exercise its rights of defence. Given that the Commission concluded that there was no change of circumstances of lasting nature which would justify the recalculation of the applicant's dumping margin, the argument on any possible miscalculation of the dumping margin became moot. Thus, the claim was rejected.

- (24) Second, the applicant contested the conclusion of the Commission regarding the absence of changes of lasting nature that could have an impact on the dumping margin.
- (25) The applicant claimed that the last time its individual dumping margin was established was in 2008, when Russia was not yet a WTO Member. The dumping margin at the time was calculated with the use of a gas-cost adjustment methodology that was justified by the conclusion that domestic prices for natural gas in Russia were regulated and could not be considered to reasonably reflect a price normally payable in undistorted markets. In 2012, however, Russia acceded to the WTO and made commitments to ensure that producers/distributors of natural gas in the Russian Federation would operate, within the relevant regulatory framework, on the basis of normal commercial considerations, based on recovery of costs and profit. These commitments were incorporated in the Accession Protocol of the Russian Federation to the WTO dated 17 December 2011.
- (26) In this respect, the Commission points out that the purpose of the present investigation is not to establish whether or not Russia's current natural gas regulatory system is consistent with its WTO commitments. The Commission takes no position in this regard. Rather, the objective of an investigation pursuant to Article 11(3) of the basic Regulation is to determine whether there is a lasting change of circumstances that warrants the recalculation of the anti-dumping duty for the applicant. However, after having assessed the conditions of the natural gas market in Russia during the review investigation period, the Commission concluded on the basis of the findings described in recital 20, that the natural gas market in Russia is still distorted.
- (27) The fact that Russia undertook a number of commitments when acceding to the WTO and that no dispute settlement has been launched for non-compliance does not alter this assessment. The Commission's conclusion was based on its investigation and the evidence on file. WTO Members enjoy a political discretion to bring or to abstain from bringing cases before the WTO. The absence of cases regarding Russia for a breach of its commitments — can therefore not automatically lead to a conclusion that such distortions do not exist.
- (28) Third, the applicant also claimed that the Commission failed to take into account that gas prices in Russia have substantially and continuously increased over the last 14 years and more than doubled since the interim review investigation, when Acron group's dumping margin was last recalculated. It is claimed that the increase in domestic gas prices has never been considered by the Commission. In addition, the applicant contested that Gazprom would act as a 'price-setter' on the Russian domestic market.
- (29) As the Commission noted in recital 20 above, the domestic price of natural gas is still distorted and the fact that the prices have increased in the past 14 years does not contradict that assessment. Regarding Gazprom's market position, the Commission found that given its market share and prominent position, Gazprom acts as a price-setter on the Russian domestic gas market. This is also acknowledged in the annual report of Novatek, one of the independent gas providers ⁽¹⁾.
- (30) Fourth, the applicant claimed that the Commission disregarded evidence it has submitted regarding alleged changes in the cost structure of the Union industry. In particular, the Commission would have disregarded the effect of the equalisation trend in the gas prices according to which prices for natural gas supplied by Gazprom to the Union have decreased to the benefit of the members of the Union industry.
- (31) As stipulated in point 1 of the Notice of Initiation, this partial interim review investigation was limited to the assessment of dumping as far as the applicant is concerned. For this reason, changes in the cost structure of the Union industry fell outside the scope of this review and, consequently, were not assessed in the context of this investigation. For these reasons the claim was rejected.
- (32) Fifth, the applicant contested the finding that the withdrawal of its undertaking did not constitute in itself a change of a lasting nature. In support of this argument, the applicant invoked a case in which the Commission is said to have concluded that the withdrawal of the undertaking constituted a substantial change of circumstance of a lasting nature within the meaning of Article 11(3) of the basic Regulation ⁽²⁾. The applicant further claimed that the withdrawal of the undertaking also involved changes in Acron group's sales structure to the Union and that the Commission would have misunderstood that the withdrawal of the undertaking had no impact on the applicant's export price.
- (33) These claims cannot be accepted. First, the mere fact that an exporting producer's undertaking is withdrawn voluntarily or otherwise cannot be considered as a change of a lasting nature within the meaning of Article 11(3)

⁽¹⁾ PAO Novatek, annual report 2017, p. 70. Accessible at: https://s-trade-collab3.net1.cec.eu.int/sites/tdi/R669_R674_AN/_layouts/15/start.aspx#/SitePages/Home.aspx?InitialTabId=Ribbon%2ERead&VisibilityContext=WSSTabPersistence

⁽²⁾ See for example Commission Decision 2006/37/EC of 5 December 2005 accepting an undertaking offered in connection with the anti-dumping and anti-subsidy proceedings concerning imports of sulphanilic acid originating in India (OJ L 22, 26.1.2006, p. 52).

of the basic Regulation. Article 8(9) of the basic Regulation establishes that when an undertaking is withdrawn the duty imposed by the Commission in accordance with Article 9(4) of the basic Regulation is automatically applicable. The case cited by the applicant concerns a review where the Commission considered the effects of an anti-absorption investigation as change of circumstances of lasting nature in order to reinstate an undertaking. Second, the factual circumstances in that are different from the present case and moreover the referred decision does not contain any statement which would support the applicant's claim.

- (34) The Commission also did not consider that the changes presented by the applicant could be considered as changes of lasting nature under Article 11(3) of the basic Regulation. For example, channelling all EU sales via a related trader can easily be reversed. Similarly, the pricing policy of a company is a decision that can be taken at any moment based on many different considerations. Therefore, the Commission concluded that there was no sufficient evidence that the export price (and consequently the dumping margin) would have changed and that such an alleged change would be of lasting nature. Thus the claim was rejected.
- (35) Sixth, the applicant disagreed that currency exchange variations do not constitute a change of lasting nature. According to the applicant, following a period of relative stability starting in 2009, the Rouble plunged in mid-2014 due to the impact of the EU economic sanctions and has not recovered since. This change in the exchange rate allegedly had an impact on the dumping calculations.
- (36) As stated in recital 21 above, it is the consistent practice of the Commission not to consider currency exchange rate variations as a change of lasting nature due to the fact that they are influenced by multiple market forces and tend to fluctuate over time. The applicant did not submit any evidence that would put into question this understanding and justify a change of practice in this regard. As a result, the claim was rejected.
- (37) Seventh and finally, the applicant claimed that the Commission should have also taken into account the findings of the parallel interim review limited to injury covering the same product. That review concluded that the restructuring of the Union industry and the global changes which occurred on the ammonium nitrate market since 2002 warranted the review of the measures.
- (38) As mentioned in recital 31, the scope of this interim review was limited to dumping. The applicant failed to show how the changes in the global ammonium nitrate market and in the Union market would impact its dumping margin and how the findings of the Commission in another review would be relevant or contradict the Commission's conclusions on this case. This claim was therefore rejected.

D. UNDERTAKING OFFER

- (39) The applicant submitted a duly signed voluntary undertaking offer in accordance with Article 8 of the basic Regulation. The Commission analysed the undertaking offer and considered that its acceptance would be impractical. The applicant has related companies in two Member States. According to the information available to the Commission, one of these related companies produces and sells the like product and also other products (i.e. fertilisers) on the Union market. The applicant also sells other products to Union customers. If the related party in the Union and the applicant sell the product concerned and other products to the same customers in the Union, the prices for such transactions could be set in such a way to compensate for the minimum import price subject to the undertaking. Such a cross-compensation would however not be identifiable by monitoring activities since the price structure for the majority of products produced and sold by the related company in the Union is not subject to any publicly available source. Thus it cannot be determined whether the prices paid by the customers respond to the value of the products or take into account a potential rebate in order to compensate transactions subject to the undertaking for which a minimum import price has to be respected. Accordingly, a high risk of cross-compensation exists with sales of ammonium nitrate or other products to the same customers.
- (40) In its undertaking offer, the applicant committed not to sell directly or indirectly any products to its related Union producer. Furthermore, the applicant committed not to sell the products covered by the undertaking to the same customers in the Union to which other products are sold. In this respect, the Commission notes that even under these commitments the undertaking would still remain impracticable and difficult to monitor. The Union-based producer cannot be subject to monitoring activities as it cannot be party to an undertaking, since under Article 8 of the basic Regulation undertakings can be offered only by exporting producers. Furthermore, even if the related Union producer were to offer equal commitments, the monitoring of such undertaking would be impracticable due to the applicant's complex structure.

- (41) The applicant was given the opportunity to comment on this decision.

TERMINATION OF THE INVESTIGATION

- (42) Interested parties were informed of the essential facts and considerations on the basis of which it was intended to terminate this investigation, and were given the opportunity to comment. Interested parties who so requested were granted a hearing.
- (43) For the reasons stated above, the Commission therefore concludes that the partial interim review concerning imports of the product concerned originating in Russia should be terminated.
- (44) This Decision is in accordance with the opinion of the Committee established by Article 15(1) of the basic Regulation,

HAS ADOPTED THIS DECISION:

Article 1

The partial interim review limited to dumping concerning imports of ammonium nitrate originating in Russia (currently falling within CN codes 3102 30 90, 3102 40 90, ex 3102 29 00, ex 3102 60 00, ex 3102 90 00, ex 3105 10 00, ex 3105 20 10, ex 3105 51 00, ex 3105 59 00 and ex 3105 90 20) is terminated.

Article 2

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

Done at Brussels, 12 November 2018.

For the Commission
The President
Jean-Claude JUNCKER

