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⁽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.

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II

(Non-legislative acts)

REGULATIONS

COMMISSION IMPLEMENTING REGULATION (EU) 2022/1380

of 8 August 2022

laying down the rules and conditions for verification queries by carriers, provisions for data protection and security for the carriers' authentication scheme as well as fall back procedures in case of technical impossibility and repealing Implementing Regulation (EU) 2021/1217

THE EUROPEAN COMMISSION,

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

Having regard to Regulation (EU) 2018/1240 of the European Parliament and of the Council of 12 September 2018 establishing a European Travel Information and Authorisation System (ETIAS) and amending Regulations (EU) No 1077/2011, (EU) No 515/2014, (EU) 2016/399, (EU) 2016/1624 and (EU) 2017/2226 ⁽¹⁾, and in particular Article 45(2), third paragraph, and (3) and Article 46(4) and (5) thereof,

Whereas:

- (1) Regulation (EU) 2018/1240 establishes the European Travel Information and Authorisation System (ETIAS) applicable to visa exempt third-country nationals seeking to enter the territory of the Member States.
- (2) The purpose of this Regulation is to lay down the rules and conditions for the verification query by carriers as well as to establish provisions for data protection and security for the carriers' authentication scheme and fall back procedures in case of technical impossibility. The obligations set out in this Regulation are applicable to air carriers, sea carriers and international carriers transporting groups overland by coach, coming into the territory of the Member States.
- (3) Pursuant to Article 45(1) of Regulation (EU) 2018/1240, air carriers, sea carriers and international carriers transporting groups overland by coach are to send a query to ETIAS in order to verify whether travellers subject to travel authorisation requirement are in possession of a valid travel authorisation. Such a query is to be made by means of secure access to a carrier gateway.
- (4) Carriers should access the carrier interface by means of an authentication scheme. This Implementing Regulation should provide for data protection and security rules applicable to the authentication scheme pursuant to Article 45(3) of Regulation (EU) 2018/1240 in order to allow carriers exclusive access to the carrier gateway.
- (5) In order to fulfil their obligation, access to the carrier gateway should be provided to carriers operating and transporting passengers into the territory of the Member States.

⁽¹⁾ OJ L 236, 19.9.2018, p. 1.

- (6) Technical rules on the message format and authentication scheme should be laid down in order to enable carriers to connect and use the carrier gateway to be specified in the technical guidelines, which are part of the technical specifications referred to in Article 73 of Regulation (EU) 2018/1240, to be adopted by the European Agency for the operational management of large-scale IT systems in the area of freedom, security and justice (eu-LISA).
- (7) Carriers should be able to indicate that the passengers fall outside the scope of the Regulation (EU) 2018/1240 and in such case carriers should receive an automatic 'Not applicable' reply from the carrier gateway, without querying the Read Only Database and without logging.
- (8) This Regulation should apply to air carriers, sea carriers and international carriers transporting groups overland by coach, coming into the territory of the Member States. Border checks for entry into the territory of the Member States may precede boarding. In such cases, carriers should be relieved of the obligation to verify the travel authorisation status of travellers.
- (9) In accordance with Article 83 of Regulation (EU) 2018/1240, during the transitional and the grace periods, rules applicable to carriers should be adapted to the specificities of these periods. Travellers should be allowed to enter without a travel authorisation during the transitional period as such authorisation should be optional. The transitional period is followed by a grace period, during which travellers should be allowed to enter the territory of the Member States without a travel authorisation if it is their first entry during that grace period.
- (10) In order to ensure that the verification query is based on as up-to-date information as possible, queries should not be introduced earlier than 48 hours prior to the scheduled time of departure.
- (11) Passengers who are required to be in possession of a valid travel authorisation should be considered as being in possession of such an authorisation where carriers have queried the carrier interface within 48 hours prior to scheduled time of departure and received 'OK'. There may be circumstances in which a carrier may not be able to proceed with a query referred to in Article 45(1) of Regulation (EU) 2018/1240 on account of a technical failure occurring within any part of the European Travel Information and Authorisation System. In order to limit possible adverse consequences resulting from such a failure, it is necessary to lay down the detailed rules for the fall-back procedures as provided for in Article 46 of Regulation (EU) 2018/1240.
- (12) To ensure that the data accessed by carriers is accurate and consistent with the data stored in the European Travel Information and Authorisation System, the read only database referred to in Article 45(4) of Regulation (EU) 2018/1240 should be updated as necessary.
- (13) The Commission, eu-LISA and the Member States should endeavour to inform all known carriers of how and when they can register. Upon successful completion of the registration procedure as well as, where relevant, the successful completion of testing, eu-LISA should connect the carrier to the carrier interface.
- (14) Carriers should have access to a web form on a public website allowing them to request assistance. When requesting assistance carriers should receive an acknowledgement of receipt containing a ticket number. eu-LISA or the ETIAS Central Unit may contact carriers that have received a ticket by any means necessary, including by phone, in order to provide an adequate response.
- (15) Commission Implementing Regulation (EU) 2021/1217 ⁽²⁾ laid down the rules and conditions for verification queries by carriers, provisions for data protection and security for the carriers' authentication scheme as well as fall-back procedures in case of technical impossibility. It is necessary to further specify the fall back procedures in case of technical impossibility. In the interests of clarity that Regulation should be replaced.

⁽²⁾ Commission Implementing Regulation (EU) 2021/1217 of 26 July 2021 laying down the rules and conditions for verification queries by carriers, provisions for data protection and security for the carriers' authentication scheme as well as fall-back procedures in case of technical impossibility (OJ L 267, 27.7.2021, p. 1).

- (16) Given that Regulation (EU) 2018/1240 builds upon the Schengen *acquis*, Denmark notified on 21 December 2018, in accordance with Article 4 of Protocol No 22 on the position of Denmark, annexed to the Treaty on European Union and to the Treaty on the Functioning of the European Union, its decision to implement Regulation (EU) 2018/1240 in its national law. Denmark is therefore bound by this Regulation.
- (17) This Regulation constitutes a development of the provisions of the Schengen *acquis* in which Ireland does not take part, as it falls outside the scope of the measures provided for in Council Decision 2002/192/EC ⁽³⁾. Ireland is therefore not taking part in the adoption of this Regulation and is not bound by it or subject to its application.
- (18) As regards Iceland and Norway, this Regulation constitutes a development of the provisions of the Schengen *acquis* within the meaning of the Agreement concluded by the Council of the European Union and the Republic of Iceland and the Kingdom of Norway concerning the association of those two States with the implementation, application and development of the Schengen *acquis* ⁽⁴⁾, which fall within the area referred to in Article 1, point A of Council Decision 1999/437/EC ⁽⁵⁾.
- (19) As regards Switzerland, this Regulation constitutes a development of the provisions of the Schengen *acquis* within the meaning of the Agreement between the European Union, the European Community and the Swiss Confederation on the Swiss Confederation's association with the implementation, application and development of the Schengen *acquis* ⁽⁶⁾, which fall within the area referred to in Article 1, point A of Decision 1999/437/EC, read in conjunction with Article 3 of Council Decision 2008/146/EC ⁽⁷⁾.
- (20) As regards Liechtenstein, this Regulation constitutes a development of the provisions of the Schengen *acquis* within the meaning of the Protocol between the European Union, the European Community, the Swiss Confederation and the Principality of Liechtenstein on the accession of the Principality of Liechtenstein to the Agreement between the European Union, the European Community and the Swiss Confederation on the Swiss Confederation's association with the implementation, application and development of the Schengen *acquis* ⁽⁸⁾ which fall within the area referred to in Article 1, point A of Decision 1999/437/EC read in conjunction with Article 3 of Council Decision 2011/350/EU ⁽⁹⁾.
- (21) As regards Cyprus, Bulgaria and Romania and Croatia, this Regulation constitutes an act building upon, or otherwise relating to, the Schengen *acquis* within, respectively, the meaning of Article 3(1) of the 2003 Act of Accession, Article 4(1) of the 2005 Act of Accession and Article 4(1) of the 2011 Act of Accession.
- (22) The European Data Protection Supervisor was consulted in accordance with Article 42(1) of Regulation (EU) 2018/1725 of the European Parliament and of the Council ⁽¹⁰⁾ and delivered an opinion on 30 April 2021.

⁽³⁾ Council Decision 2002/192/EC of 28 February 2002 concerning Ireland's request to take part in some of the provisions of the Schengen *acquis* (OJ L 64, 7.3.2002, p. 20).

⁽⁴⁾ OJ L 176, 10.7.1999, p. 36.

⁽⁵⁾ Council Decision 1999/437/EC of 17 May 1999 on certain arrangements for the application of the Agreement concluded by the Council of the European Union and the Republic of Iceland and the Kingdom of Norway concerning the association of those two States with the implementation, application and development of the Schengen *acquis* (OJ L 176, 10.7.1999, p. 31).

⁽⁶⁾ OJ L 53, 27.2.2008, p. 52.

⁽⁷⁾ Council Decision 2008/146/EC of 28 January 2008 on the conclusion, on behalf of the European Community, of the Agreement between the European Union, the European Community and the Swiss Confederation on the Swiss Confederation's association with the implementation, application and development of the Schengen *acquis* (OJ L 53, 27.2.2008, p. 1).

⁽⁸⁾ OJ L 160, 18.6.2011, p. 21.

⁽⁹⁾ Council Decision 2011/350/EU of 7 March 2011 on the conclusion, on behalf of the European Union, of the Protocol between the European Union, the European Community, the Swiss Confederation and the Principality of Liechtenstein on the accession of the Principality of Liechtenstein to the Agreement between the European Union, the European Community and the Swiss Confederation on the Swiss Confederation's association with the implementation, application and development of the Schengen *acquis*, relating to the abolition of checks at internal borders and movement of persons (OJ L 160, 18.6.2011, p. 19).

⁽¹⁰⁾ Regulation (EU) 2018/1725 of the European Parliament and of the Council of 23 October 2018 on the protection of natural persons with regard to the processing of personal data by the Union institutions, bodies, offices and agencies and on the free movement of such data, and repealing Regulation (EC) No 45/2001 and Decision No 1247/2002/EC (OJ L 295, 21.11.2018, p. 39).

- (23) The measures provided for in this Regulation are in accordance with the opinion of the Smart Borders Committee (ETIAS),

HAS ADOPTED THIS REGULATION:

Article 1

Subject matter

This Regulation establishes:

- (a) the detailed rules and conditions for the operation of the carrier gateway and the data protection and security rules applicable to the carrier gateway provided for in Article 45(2) of Regulation (EU) 2018/1240;
- (b) an authentication scheme for carriers to enable them to fulfil their obligations pursuant to Article 45(3) of Regulation (EU) 2018/1240 as well as detailed rules and conditions on registration of carriers with the authentication scheme;
- (c) details of the procedures to be followed where it is technically impossible for carriers to access the carrier gateway, in accordance with Article 46(4) of Regulation (EU) 2018/1240.

Article 2

Definitions

For the purposes of this Regulation the following definitions apply:

- (a) 'carrier interface' means the carrier gateway to be developed by eu-LISA in accordance with Article 73(3) of Regulation (EU) 2018/1240 and consisting of an IT interface connected to a read only database;
- (b) 'technical guidelines' means the part of the technical specifications, referred to in Article 73(3) of Regulation (EU) 2018/1240, that is relevant for carriers for the implementation of the authentication scheme and the development of the message format of the Application Programming Interface referred to in Article 4(2), point (a), of this Regulation;
- (c) 'duly authorised staff' means employees of or contractually engaged by the carrier or by other legal or natural persons acting under that carrier's direction or supervision, assigned with the tasks of verifying the status of travellers on behalf of the carrier, in accordance with Article 45(1) of Regulation (EU) 2018/1240.

Article 3

Obligations of carriers

1. Carriers shall send a query referred to in Article 45(1) of Regulation (EU) 2018/1240 ('verification query'), through the carrier interface.
2. The verification query shall be sent at the earliest 48 hours prior to the scheduled time of departure.
3. Carriers shall ensure that only duly authorised staff have access to the carrier interface. The carriers shall put in place at least the following mechanisms:
 - (a) physical and logical access control mechanisms to prevent unauthorised access to the infrastructure or the systems used by the carriers;
 - (b) authentication;
 - (c) logging to ensure access traceability;
 - (d) a regular review of the access rights.

*Article 4***Connection and access to the carrier interface**

1. Carriers shall connect to the carrier interface through one of the following:
 - (a) a dedicated network connection;
 - (b) an internet connection.
2. Carriers shall access the carrier interface through one of the following:
 - (a) a system-to-system interface (Application Programming Interface);
 - (b) a web interface (browser);
 - (c) an application for mobile devices.

*Article 5***Queries**

1. In order to send the verification query, the carrier shall provide the following traveller data:
 - (a) surname (family name); first name or names (given names);
 - (b) date of birth, sex and nationality;
 - (c) the type and number of the travel document and the three letter code of the issuing country of the travel document;
 - (d) the date of expiry of the validity of the travel document;
 - (e) the scheduled day of arrival at the border of the Member State of entry;
 - (f) one of the following:
 - (i) the scheduled Member State of entry;
 - (ii) where possible to identify the scheduled Member State of entry, an airport in the Member State of entry;
 - (g) the details (local date and time of scheduled departure, identification number where available or other means to identify the transport) of the means of transportation used to access the territory of a Member State.
2. For the purposes of providing the information referred to in paragraph 1, points (a) to (d), carriers shall be allowed to scan the machine-readable zone of the travel document.
3. Where the passenger is exempt from the scope of Regulation (EU) 2018/1240 in accordance with Article 2 of that Regulation or is in airport transit, the carrier shall be able to specify it in the verification query.
4. Carriers shall be able to send a verification query for one or more passengers. The carrier interface shall include the reply referred to in Article 6 for each passenger included in the query.

*Article 6***Reply**

1. Where the passenger is exempt from the scope of Regulation (EU) 2018/1240 in accordance with Article 2 of that Regulation or is in airport transit, the reply shall be 'Not applicable'. In all other cases, the reply shall be 'OK' or 'Not OK'. Where a verification query returns a 'Not OK' reply, the reply shall specify that the response is coming from the European Travel Information and Authorisation System.
2. During the transitional period referred to in Article 83(1) of Regulation (EU) 2018/1240, replies to the verification queries shall be determined in accordance with the following rules:
 - (a) if the third-country national has a valid travel authorisation for the date of entry: OK;

- (b) if the third-country national has no valid travel authorisation for the date of entry: OK;
- (c) if the third-country national has no valid travel authorization for the date of entry but the carrier indicates that one of the conditions referred to in paragraph 1, are fulfilled: Not applicable;
- (d) if the third-country national has a valid travel authorisation for the date of entry with Limited Territorial Validity (LTV) and the Member State of entry corresponds to the Member State of the LTV: OK;
- (e) if the third-country national has a valid travel authorisation for the date of entry with LTV and the Member State of entry does not correspond to the Member State of the LTV: OK.

3. During the grace period referred to in Article 83(3) of Regulation (EU) 2018/1240 replies to the queries shall be determined in accordance with the following rules:

- (a) if the third-country national has a valid travel authorisation for the date of entry: OK;
- (b) if the third-country national has no valid travel authorisation for the date of entry and it is the first time since the end of the transitional period the third-country national is entering the territory of a Member State applying the ETIAS Regulation: OK;
- (c) if the third-country national has a valid travel authorisation for the date of entry with LTV, it is the first time since the end of the transitional period the third-country national is entering the territory of a Member State applying the ETIAS Regulation and the Member State of entry corresponds to the Member State of the LTV: OK;
- (d) if the third-country national has a valid travel authorisation for the date of entry with LTV, it is the second or more time since the end of the transitional period the third-country national is entering the territory of a Member State applying the ETIAS Regulation and the Member State of entry corresponds to the Member State of the LTV: OK;
- (e) if the third-country national has no valid travel authorisation for the date of entry and it is the second or more time since the end of the transitional period that the third-country national is entering the territory of a Member State applying the ETIAS Regulation: Not OK;
- (f) if the third-country national has no valid travel authorisation for the date of entry but the carrier confirms in the verification query that one of the conditions referred to in paragraph 1, are fulfilled: Not applicable;
- (g) if the third-country national has a valid travel authorisation for the date of entry with LTV, it is the first time since the end of the transitional period the third-country national is entering the territory of a Member State applying the ETIAS Regulation and the Member State of entry does not correspond to the Member State of the LTV: OK;
- (h) if the third-country national has a valid travel authorisation for the date of entry with LTV and it is the second or more time since the end of the transitional period the third-country national is entering the territory of a Member State applying the ETIAS Regulation and the Member State of entry does not correspond to the Member State of the LTV: Not OK.;
- (i) if the third-country national has no valid travel authorisation for the date of entry and is entering the territory of a Member State applying the ETIAS Regulation: Not OK.

4. After the expiry of the grace period referred to in Article 83(3) of Regulation (EU) 2018/1240 replies to the queries shall be determined in accordance with the following rules:

- (a) Until the start of operations of the Visa Information System referred to in Regulation (EC) No 767/2008:
 - (i) if the third-country national has a valid travel authorisation for the date of entry: OK;
 - (ii) if the third-country national has no valid travel authorisation for the date of entry: Not OK;
 - (iii) if the third-country national has no valid travel authorisation for the date of entry but the carrier confirms in the verification query that one of the conditions referred to in the first sentence of paragraph 1 are fulfilled: Not applicable;
 - (iv) if the third-country national has a valid travel authorisation for the date of entry with LTV and the Member State of entry corresponds to the Member State of the LTV: OK;

- (v) if the third-country national has a valid travel authorisation for the date of entry with LTV and the Member State of entry does not correspond to the Member State of the LTV: Not OK.
- (b) From the start of operations of the Visa Information System:
 - (i) if the third-country national has a valid travel authorisation for the date of entry and there is at least 1 remaining day of authorised stay: OK;
 - (ii) if the third-country national has no valid travel authorisation for the date of entry or there are 0 remaining days of authorised stay: Not OK;
 - (iii) if the third-country national has no valid travel authorisation for the date of entry but the carrier confirms in the verification query that one of the conditions referred to in paragraph 1 are fulfilled: Not applicable;
 - (iv) if the third-country national has a valid travel authorisation for the date of entry with LTV and the Member State of entry corresponds to the Member State of the LTV and there is at least 1 remaining day of authorised stay: OK;
 - (v) if the third-country national has a valid travel authorisation for the date of entry with LTV and the Member State of entry does not correspond to the Member State of the LTV: Not OK.

Article 7

Message format

eu-LISA shall specify the data formats and structure of messages to be used for transmitting verification queries and replies to those queries through the carrier interface in the technical guidelines. eu-LISA shall provide for the use of at least the following data formats:

- (a) UN/EDIFACT;
- (b) PAXLST/CUSRES;
- (c) XML;
- (d) JSON.

Article 8

Data extraction requirements for the carrier interface and data quality

1. Data on issued, annulled and revoked travel authorisations shall be automatically extracted from the European Travel Information and Authorisation System at least daily and transmitted to the read-only database.
2. All extractions of data into the read-only database pursuant to paragraph 1 shall be logged.
3. eu-LISA shall be responsible for the security of the carrier interface, for the security of the personal data it contains and for the process of extracting from the European Travel Information and Authorisation System and transmitting the data referred to in paragraph 1 to the read-only database. The technical implementation details shall be derived from the security plan following the risk assessment process.
4. It shall not be possible to transmit data from the read-only database to the European Travel Information and Authorisation System.

Article 9

Authentication scheme

1. eu-LISA shall develop an authentication scheme, taking into account information on security risk management and the principles of data protection by design and default and access control principles including accountability and allowing to trace the initiator of the verification query.

2. The details of the authentication scheme shall be set out in the technical guidelines.
3. The authentication scheme shall be tested in accordance with Article 12.
4. Where carriers access the carrier interface using the Application Programming Interface referred to in Article 4(2), point (a), the authentication scheme shall be implemented by means of mutual authentication.

Article 10

Registration with the authentication scheme

1. Carriers referred to in Article 45(1) of Regulation (EU) 2018/1240 operating and transporting passengers into the territory of the Member States shall be required to register prior to gaining access to the authentication scheme.
2. eu-LISA shall make available a registration form on a public website to be completed online. Submission of the registration form shall only be possible where all the fields have been correctly completed.
3. The registration form shall include fields requiring carriers to provide the following information:
 - (a) the legal name of the carrier as well as its contact details (email address, telephone number and postal address);
 - (b) the contact details of the legal representative of the company requesting the registration and of back-up points of contact (names, telephone numbers, email and postal addresses) as well as the functional email address and other means of communication that the carrier intends to use for the purposes of Articles 13 and 14;
 - (c) the Member State or third country that issued the official company registration referred to in paragraph 6 and the registration number, where available;
 - (d) where the carrier has attached, in accordance with paragraph 6, an official company registration issued by a third country, the Member States in which the carrier operates or intends to operate within the next year.
4. The registration form shall inform the carriers of the minimum security requirements. The carriers shall ensure compliance with the following objectives:
 - (a) identifying and managing security risks related to the connection to the carrier interface;
 - (b) protecting the environments and the devices connected to the carrier interface;
 - (c) detecting, analysing, responding to and recovering from cyber security incidents.
5. The registration form shall require carriers to declare:
 - (a) that they operate and transport passengers into the territory of the Member States or intend to do so within the next six months;
 - (b) that they will access and make use of the carrier interface in accordance with the minimum security requirements set out in the registration form, in accordance with paragraph 4;
 - (c) that only duly authorised staff will have access to the carrier interface.
6. The registration form shall require carriers to attach an electronic copy of their instruments of constitution, including statutes, as well as an electronic copy of an extract of their official company registration from either at least one Member State, where applicable, or from a third country in, or officially translated into, one of the official Union or Icelandic or Norwegian. An electronic copy of an authorisation to operate in one or more Member States, such as an Air Operator Certificate, can substitute the official company registration.

7. The registration form shall notify carriers:

- (a) that they are required to inform eu-LISA of any changes regarding the information referred to in paragraphs 3, 4 and 5 of this Article or in case of technical changes affecting their 'system to system' connection to the carrier interface that may require additional testing in accordance with Article 12 through specified contact details of eu-LISA to be used for this purpose;
- (b) that they will be automatically deregistered from the authentication scheme if the logs show that the carrier has not used the carrier interface during a period of one year;
- (c) that they may be deregistered from the authentication scheme in case of a breach of the provisions of this Regulation, the security requirements referred to in paragraph 4 or the technical guidelines, including in case of abuse of the carrier interface;
- (d) that they are obliged to inform eu-LISA of any personal data breach that may occur and regularly review the access rights of their dedicated staff.

8. Where the registration form has been submitted correctly, eu-LISA shall register the carrier and notify the carrier that it has been registered. Where the registration form has not been submitted correctly, eu-LISA shall refuse registration and notify the carrier of the reasons.

9. eu-LISA shall maintain an up to date register of registered carriers. Personal data contained in the registration of carriers shall be deleted at the latest one year after the carrier has been deregistered.

Article 11

Deregistration from the authentication scheme

1. Where the carrier informs eu-LISA that it no longer operates or transports passengers into the territory of the Member States, eu-LISA shall deregister the carrier.

2. Where the logs show that the carrier has not used the carrier interface during a period of one year, it shall be automatically deregistered.

3. Where a carrier no longer fulfils the conditions referred to in Article 10(5), or has otherwise breached the provisions of this Regulation, the security requirements referred to in Article 10(4) or the technical guidelines, including in case of abuse of the carrier interface, eu-LISA may deregister the carrier.

4. eu-LISA shall inform the carrier of its intention to deregister the carrier pursuant to paragraphs 1, 2 or 3, together with the reason for the deregistration, one month before deregistration. Before deregistration, eu-LISA shall give the carrier the opportunity to provide written comments.

5. In case of urgent IT security concerns, including where the carrier is not complying with the security requirements referred to in Article 10(4), or with the technical guidelines, eu-LISA may immediately disconnect a carrier. eu-LISA shall inform the carrier of the disconnection, together with the reason for the disconnection.

6. To the extent appropriate, eu-LISA shall assist carriers that have received a notice of deregistration or disconnection to remedy the deficiencies that gave rise to the notice and, where possible, for a limited time and under strict conditions, provide the opportunity for disconnected carriers to send verification queries by other means than those referred to in Article 4.

7. Disconnected carriers may again be connected to the carrier interface following successful removal of the security concerns that gave rise to the disconnection. Deregistered carriers may submit a new request for registration.

8. At any time following the registration of carriers pursuant to Article 10, eu-LISA may, in particular where there is reasoned suspicion that one or more carriers are abusing the carrier interface or do not fulfil the conditions referred to in Article 10(4), make inquiries with Member States or third countries.

9. Where the registration form referred to in Article 10(2) is not available for a prolonged period of time, eu-LISA shall ensure that registration in accordance with that Article is possible via other means.

Article 12

Development, testing and connection of the carrier interface

1. eu-LISA shall make available the technical guidelines to carriers in order to enable them to develop and test their carrier interface.
2. Where carriers choose to connect through the Application Programming Interface referred to in Article 4(2), point (a), the implementation of the message format referred to in Article 7 and of the authentication scheme referred to in Article 9 shall be tested.
3. Where carriers choose to connect through the web interface (browser) or application for mobile devices, they shall notify eu-LISA that they have successfully tested their connection to the carrier interface and that their duly authorised staff has been successfully trained in using the carrier interface.
4. For the purpose of paragraph 2, eu-LISA shall develop and make available a testing plan, a test environment and a simulator allowing eu-LISA and carriers to test the carriers' connection to the carrier interface. For the purpose of paragraph 3, eu-LISA shall develop and make available a test environment allowing carriers to train their staff.
5. Upon successful completion of the registration procedure referred to in Article 10 as well as the successful completion of the testing referred to in paragraph 2 of this Article or reception of the notification referred to in paragraph 3 of this Article, eu-LISA shall connect the carrier to the carrier interface.

Article 13

Technical impossibility

1. Where it is technically impossible to send a verification query because a component of the European Travel Information and Authorisation System failed, the following shall apply:
 - (a) where the failure is detected by a carrier, as soon as it becomes aware of it, it shall notify the ETIAS Central Unit through the means referred to in Article 14.
 - (b) where the failure is detected or confirmed by eu-LISA, the ETIAS Central Unit shall inform concerned carriers and Member States of such failure by email or other means of communication, as soon as they become aware of it, and of the end of the failure when the issue has been solved;
2. Where it is technically impossible to send a verification query for other reasons than a failure of any component of the ETIAS Information System, the carrier shall notify the ETIAS Central Unit through the means referred to in Article 14.
3. The carrier shall inform the ETIAS Central Unit, through the means referred to in Article 14, as soon as the issue has been solved.
4. The ETIAS Central Unit shall inform the concerned Member States of the impossibility of this carrier to send the verification query.
5. For the purpose of this Article and Article 14, eu-LISA shall make available to the ETIAS Central Unit a ticketing tool. That tool shall offer access to the register of carriers.
6. The ETIAS Central Unit shall acknowledge receipt of the notifications referred to in paragraphs 1 and 2.

*Article 14***Assistance to carriers**

1. A web form as part of the ticketing tool shall be made available to carriers on a public website in order to allow carriers to request assistance.

The web form shall enable the carriers to provide at least the following information:

- (a) the identification details of the carrier;
- (b) a summary of the request;
- (c) whether the request is of a technical nature and, in such case, the date and time of the start of the technical issue.

2. Carriers shall receive an acknowledgement of receipt of the request by the ETIAS Central Unit. That receipt shall contain a ticket number.

3. Where the request for assistance is of a technical nature, the ETIAS Central Unit shall send the request to eu-LISA. eu-LISA shall be responsible for providing technical assistance to carriers.

4. Where the request for assistance is not of a technical nature, the ETIAS Central Unit shall assist carriers by directing them to relevant information.

5. Where it is technically impossible to request assistance in accordance with paragraph 1 using the web form, the carrier shall be able to use an emergency phone line connected to the ETIAS Central Unit or eu-LISA.

6. The assistance provided by the ETIAS Central Unit and eu-LISA shall be available 24/7 and provided in English.

7. The ETIAS Central Unit shall make available online a list of frequent questions and answers relevant for carriers. That list shall be available in all official languages of the Union. It shall be separate from the questions and answers relevant for travelers.

*Article 15***Repeal of Implementing Regulation (EU) 2021/1217**

Implementing Regulation (EU) 2021/1217 shall be repealed.

*Article 16***Entry into force**

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

This Regulation shall be binding in its entirety and directly applicable in the Member States in accordance with the Treaties.

Done at Brussels, 8 August 2022.

For the Commission
The President
Ursula VON DER LEYEN

COMMISSION IMPLEMENTING REGULATION (EU) 2022/1381**of 8 August 2022****amending Implementing Regulation (EU) 2017/2470 as regards the conditions of use of the novel food galacto-oligosaccharide****(Text with EEA relevance)**

THE EUROPEAN COMMISSION,

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

Having regard to Regulation (EU) 2015/2283 of the European Parliament and of the Council of 25 November 2015 on novel foods, amending Regulation (EU) No 1169/2011 of the European Parliament and of the Council and repealing Regulation (EC) No 258/97 of the European Parliament and of the Council and Commission Regulation (EC) No 1852/2001 ⁽¹⁾, and in particular Article 12 thereof,

Whereas:

- (1) Regulation (EU) 2015/2283 provides that only novel foods authorised and included in the Union list of novel foods may be placed on the market within the Union.
- (2) Pursuant to Article 8 of Regulation (EU) 2015/2283, Commission Implementing Regulation (EU) 2017/2470 ⁽²⁾ has established a Union list of novel foods.
- (3) The Union list set out in the Annex to Implementing Regulation (EU) 2017/2470 includes galacto-oligosaccharide as an authorised novel food.
- (4) Pursuant to Article 5 of Regulation (EC) No 258/97 of the European Parliament and of the Council ⁽³⁾, galacto-oligosaccharide has been authorised to be placed on the market as a novel food to be used in a number of foods, including infant formula and follow-on formula as defined in Regulation (EU) No 609/2013 of the European Parliament and of the Council ⁽⁴⁾.
- (5) Commission Implementing Regulation (EU) 2021/900 ⁽⁵⁾ amended the conditions of use of the novel food galacto-oligosaccharide. In particular, the use level of the novel food galacto-oligosaccharide in food supplements as defined in Directive 2002/46/EC of the European Parliament and of the Council ⁽⁶⁾ was increased from 0,333 kg galacto-oligosaccharide/kg of a food supplement (33,3 %) to 0,450 kg galacto-oligosaccharide/kg of a food supplement (45,0 %) for the general population, excluding infants and young children.
- (6) Commission Implementing Regulation (EU) 2022/684 ⁽⁷⁾ amended the conditions of use of the novel food galacto-oligosaccharide. In particular, the use of galacto-oligosaccharide has been extended to additional foods namely, dairy confectionary, cheese and processed cheese, butter and spreadable fats.

⁽¹⁾ OJ L 327, 11.12.2015, p. 1.

⁽²⁾ Commission Implementing Regulation (EU) 2017/2470 of 20 December 2017 establishing the Union list of novel foods in accordance with Regulation (EU) 2015/2283 of the European Parliament and of the Council on novel foods (OJ L 351, 30.12.2017, p. 72).

⁽³⁾ Regulation (EC) No 258/97 of the European Parliament and of the Council of 27 January 1997 concerning novel foods and novel foods ingredients (OJ L 43, 14.2.1997, p. 1).

⁽⁴⁾ Regulation (EU) No 609/2013 of the European Parliament and of the Council of 12 June 2013 on food intended for infants and young children, food for special medical purposes, and total diet replacement for weight control and repealing Council Directive 92/52/EEC, Commission Directives 96/8/EC, 1999/21/EC, 2006/125/EC and 2006/141/EC, Directive 2009/39/EC of the European Parliament and of the Council and Commission Regulations (EC) No 41/2009 and (EC) No 953/2009 (OJ L 181, 29.6.2013, p. 35).

⁽⁵⁾ Commission Implementing Regulation (EU) 2021/900 of 3 June 2021 authorising a change of the conditions of use of the novel food 'galacto-oligosaccharide' under Regulation (EU) 2015/2283 of the European Parliament and of the Council and amending Commission Implementing Regulation (EU) 2017/2470 (OJ L 197, 4.6.2021, p. 71).

⁽⁶⁾ Directive 2002/46/EC of the European Parliament and of the Council of 10 June 2002 on the approximation of the laws of the Member States relating to food supplements (OJ L 183, 12.7.2002, p. 51).

⁽⁷⁾ Commission Implementing Regulation (EU) 2022/684 of 28 April 2022 amending Implementing Regulation (EU) 2017/2470 as regards the conditions of use of the novel food galacto-oligosaccharide (OJ L 126, 29.4.2022, p. 10).

- (7) On 29 June 2020, the company GLNP BV ('the applicant') submitted an application to the Commission in accordance with Article 10(1) of Regulation (EU) 2015/2283 for a change of the conditions of use of the novel food galacto-oligosaccharide. The applicant requested to extend the use of galacto-oligosaccharide to foods for special medical purposes as defined by Regulation (EU) No 609/2013 intended for the general population, excluding infants and young children.
- (8) In accordance with Article 10(3) of Regulation (EU) 2015/2283, the Commission consulted the European Food Safety Authority ('the Authority') on 12 July 2021, requesting it to provide a scientific opinion on the change of conditions of use of the novel food galacto-oligosaccharide.
- (9) On 28 February 2022, the Authority adopted its scientific opinion on the 'Safety of the extension of use of galacto-oligosaccharides as a novel food in food for special medical purposes pursuant to Regulation (EU) 2015/228' ⁽⁸⁾ in accordance with Article 11 of Regulation (EU) 2015/2283.
- (10) In its scientific opinion, the Authority concluded that the proposed change is safe under the proposed conditions of use, and therefore it is appropriate to amend the conditions of use of galacto-oligosaccharide.
- (11) The information provided in the application and the opinion of the Authority give sufficient grounds to establish that the changes to the conditions of use of the novel food are in accordance with the conditions of Article 12 of Regulation (EU) 2015/2283 and should be approved.
- (12) The Annex to Implementing Regulation (EU) 2017/2470 should therefore be amended accordingly.
- (13) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on Plants, Animals, Food and Feed,

HAS ADOPTED THIS REGULATION:

Article 1

The Annex to Implementing Regulation (EU) 2017/2470 is amended in accordance with the Annex to this Regulation.

Article 2

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

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

Done at Brussels, 8 August 2022.

For the Commission
The President
Ursula VON DER LEYEN

⁽⁸⁾ EFSA Journal 2022;20(3):7203.

In Table 1 (Authorised novel foods) of the Annex to Implementing Regulation (EU) 2017/2470, the entry for 'galacto-oligosaccharide' is replaced by the following:

Authorised novel food	Conditions under which the novel food may be used		Additional specific labelling requirements	Other requirements	Data protection
'Galacto-oligosaccharide'	<i>Specified food category</i>	<i>Maximum levels (expressed as ratio kg galacto-oligosaccharide/kg final food)</i>			
	Food supplements as defined in Directive 2002/46/EC	0,333			
	Food supplements as defined in Directive 2002/46/EC, excluding infants and young children	0,450 (corresponding to 5,4 g galacto-oligosaccharide/serving; maximum 3 servings/day up to a maximum of 16,2 g/day)			
	Foods for special medical purposes as defined by Regulation (EU) No 609/2013, excluding infants and young children	In accordance with the particular nutritional requirements of the persons for whom the products are intended but not more than 0,128 (corresponding to a maximum of 8,25 g galacto-oligosaccharide/day)			
	Milk	0,020			
	Milk drinks	0,030			
	Meal replacement for weight control (as drinks)	0,020			
	Dairy analogue drinks	0,020			
	Yoghurt	0,033			
	Dairy based desserts	0,043			
	Frozen dairy desserts	0,043			
	Fruit drinks and energy drinks	0,021			
	Infant meal replacement drinks	0,012			
	Baby juice	0,025			
	Baby yogurt drink	0,024			
	Baby dessert	0,027			

Baby snack	0,143			
Baby cereals	0,027			
Drinks intended to meet the expenditure of intense muscular effort especially for sportsmen	0,013			
Juice	0,021			
Fruit pie filling	0,059			
Fruit preparations	0,125			
Bars	0,125			
Cereals	0,125			
Infant formula and follow-on formula as defined in Regulation (EU) No 609/2013	0,008			
Dairy confectionery	0,05			
Cheese and processed cheese	0,1			
Butter and spreadable fats	0,1'			

COMMISSION IMPLEMENTING REGULATION (EU) 2022/1382

of 8 August 2022

concerning the authorisation of a preparation of *Propionibacterium freudenreichii* DSM 33189 and *Lentilactobacillus buchneri* DSM 12856 as a feed additive for all animal species

(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 1831/2003 of the European Parliament and of the Council of 22 September 2003 on additives for use in animal nutrition ⁽¹⁾, and in particular Article 9(2) thereof,

Whereas:

- (1) Regulation (EC) No 1831/2003 provides for the authorisation of additives for use in animal nutrition and for the grounds and procedures for granting such an authorisation.
- (2) In accordance with Article 7(1) of Regulation (EC) No 1831/2003, an application was submitted for the authorisation of a preparation of *Propionibacterium freudenreichii* DSM 33189 and *Lentilactobacillus buchneri* DSM 12856. That application was accompanied by the particulars and documents required under Article 7(3) of Regulation (EC) No 1831/2003.
- (3) The application concerns the authorisation of the preparation of *Propionibacterium freudenreichii* DSM 33189 and *Lentilactobacillus buchneri* DSM 12856 as a feed additive for all animal species, to be classified in the additive category 'technological additives'.
- (4) The European Food Safety Authority ('the Authority') concluded in its opinion of 26 January 2022 ⁽²⁾ that, under the proposed conditions of use, the preparation of *Propionibacterium freudenreichii* DSM 33189 and *Lentilactobacillus buchneri* DSM 12856 does not have an adverse effect on animal health, consumer safety or the environment. It also concluded that the additive is not irritant for eyes and skin but should be considered a respiratory sensitiser and no conclusions could be drawn on the skin sensitisation potential of the additive. Therefore, the Commission considers that appropriate protective measures should be taken to prevent adverse effects on human health, in particular as regards the users of the additive. The Authority also concluded that the preparation concerned has the potential to improve the preservation of nutrients in silage prepared with easy and moderately difficult to ensile material. It also verified the report on the method of analysis of the feed additives in feed submitted by the Reference Laboratory set up by Regulation (EC) No 1831/2003.
- (5) The assessment of the preparation of *Propionibacterium freudenreichii* DSM 33189 and *Lentilactobacillus buchneri* DSM 12856 shows that the conditions for authorisation, as provided for in Article 5 of Regulation (EC) No 1831/2003, are satisfied. Accordingly, the use of the preparation should be authorised as specified in the Annex to this Regulation.
- (6) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on Plants, Animals, Food and Feed,

⁽¹⁾ OJ L 268, 18.10.2003, p. 29.⁽²⁾ EFSA Journal 2022;20(2):7151.

HAS ADOPTED THIS REGULATION:

Article 1

The preparation specified in the Annex, belonging to the additive category 'technological additives' and to the functional group 'silage additives', is authorised as an additive in animal nutrition, subject to the conditions laid down in that Annex.

Article 2

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

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

Done at Brussels, 8 August 2022.

For the Commission
The President
Ursula VON DER LEYEN

ANNEX

Identification number of the additive	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisation
					CFU of additive/kg of fresh material			
Category: technological additives Functional group: silage additives								
1k1801	<i>Propionibacterium freudenreichii</i> DSM 33189 and <i>Lentilactobacillus buchneri</i> DSM 12856	<i>Additive composition</i> Preparation of <i>Propionibacterium freudenreichii</i> DSM 33189 and <i>Lentilactobacillus buchneri</i> DSM 12856 containing a minimum of 5 × 10¹¹ CFU/g additive, with a ratio of 1:4 (1×10¹¹ CFU <i>P. freudenreichii</i> DSM 33189/g and 4×10¹¹ CFU <i>L. buchneri</i> DSM 12856/g) Solid form <i>Characterisation of the active substance</i> Viable cells of <i>Propionibacterium freudenreichii</i> DSM 33189 and <i>Lentilactobacillus buchneri</i> DSM 12856 <i>Analytical method</i> ⁽¹⁾ For the identification of <i>Propionibacterium freudenreichii</i> DSM 33189 and <i>Lentilactobacillus buchneri</i> DSM 12856: — Pulsed-Field Gel Electrophoresis (PFGE) or DNA sequencing methods For the enumeration of <i>Lentilactobacillus buchneri</i> DSM 12856 in the feed additive: — Spread plate method on MRS agar (EN 15787) For the enumeration of <i>Propionibacterium freudenreichii</i> DSM 33189 in the feed additive: — Pour plate method on caseine peptone, yeast extract, sodium lactate and L-cysteine agar	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions shall be indicated. 2. Minimum content of the additive when used without combination with other micro-organisms as silage additives: 1×10⁸ CFU/kg of easy and moderately difficult to ensile fresh material ⁽²⁾. 3. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from its use. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including skin and breathing protection.	29 August 2032

⁽¹⁾ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

⁽²⁾ Easy to ensile forage: > 3 % soluble carbohydrates in fresh material; moderately difficult to ensile forage: 1,5-3,0 % soluble carbohydrates in the fresh material in accordance with Commission Regulation (EC) No 429/2008 of 25 April 2008 on detailed rules for the implementation of Regulation (EC) No 1831/2003 of the European Parliament and of the Council as regards the preparation and the presentation of applications and the assessment and the authorisation of feed additives (OJ L 133, 22.5.2008, p. 1).

COMMISSION IMPLEMENTING REGULATION (EU) 2022/1383**of 8 August 2022****concerning the authorisation of olibanum extract from *Boswellia serrata* Roxb.ex Colebr. as a feed additive for horses and dogs****(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 1831/2003 of the European Parliament and of the Council of 22 September 2003 on additives for use in animal nutrition ⁽¹⁾, and in particular Article 9(2) thereof,

Whereas:

- (1) Regulation (EC) No 1831/2003 provides for the authorisation of additives for use in animal nutrition and for the grounds and procedures for granting such an authorisation. Article 10(2) of that Regulation provides for the re-evaluation of additives authorised pursuant to Council Directive 70/524/EEC ⁽²⁾.
- (2) Olibanum extract was authorised without a time limit in accordance with Directive 70/524/EEC as a feed additive for all animal species. That additive was subsequently entered in the Register of feed additives as an existing product, in accordance with Article 10(1)(b) of Regulation (EC) No 1831/2003.
- (3) In accordance with Article 10(2) of Regulation (EC) No 1831/2003 in conjunction with Article 7 thereof, an application was submitted for the re-evaluation of olibanum extract from *Boswellia serrata* Roxb. ex Colebr. for horses and dogs.
- (4) The applicant requested the additive to be classified in the additive category 'sensory additives' and in the functional group 'flavouring compounds'. That application was accompanied by the particulars and documents required under Article 7(3) of Regulation (EC) No 1831/2003.
- (5) The European Food Safety Authority ('the Authority') concluded in its opinion of 27 January 2022 ⁽³⁾ that, under the proposed conditions of use, olibanum extract from *Boswellia serrata* Roxb. ex Colebr. does not have adverse effects on animal health, consumer health or the environment. The Authority also concluded that olibanum extract from *Boswellia serrata* Roxb. ex Colebr. should be considered as a non-irritant to skin and eyes, but in the absence of data, no conclusion could be drawn on its potential to be a dermal and respiratory sensitiser. Therefore, the Commission considers that appropriate protective measures should be taken to prevent adverse effects on human health, in particular as regards the users of the additive.

⁽¹⁾ OJ L 268, 18.10.2003, p. 29.

⁽²⁾ Council Directive 70/524/EEC of 23 November 1970 concerning additives in feedingstuffs (OJ L 270, 14.12.1970, p. 1).

⁽³⁾ EFSA Journal 2022;20(3):7158.

- (6) The Authority further concluded, that olibanum extract from *Boswellia serrata* Roxb. ex Colebr. is recognised to flavour food and its function in feed would be essentially the same as that in food, therefore, no further demonstration of efficacy is considered necessary. It also verified the report on the methods of analysis of the feed additive in feed submitted by the Reference Laboratory set up by Regulation (EC) No 1831/2003.
- (7) The assessment of olibanum extract from *Boswellia serrata* Roxb. ex Colebr. shows that the conditions for authorisation, as provided for in Article 5 of Regulation (EC) No 1831/2003, are satisfied. Accordingly, the use of that substance should be authorised as specified in the Annex to this Regulation.
- (8) Certain conditions should be provided for to allow better control. In particular, a recommended content should be indicated on the label of the additives. Where such content is exceeded, certain information should be indicated on the label of premixtures.
- (9) Since safety reasons do not require the immediate application of the modifications to the conditions of authorisation of the substance concerned, it is appropriate to allow a transitional period for interested parties to prepare themselves to meet the new requirements resulting from the authorisation.
- (10) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on Plants, Animals, Food and Feed,

HAS ADOPTED THIS REGULATION:

Article 1

Authorisation

The substance specified in the Annex, belonging to the additive category 'sensory additives' and to the functional group 'flavouring compounds', is authorised as an additive in animal nutrition, subject to the conditions laid down in that Annex.

Article 2

Transitional measures

1. The substance specified in the Annex and premixtures containing this substance, which are produced and labelled before 28 February 2023 in accordance with the rules applicable before 29 August 2022 may continue to be placed on the market and used until the existing stocks are exhausted.
2. Compound feed and feed materials containing the substance as specified in the Annex which are produced and labelled before 29 August 2023 in accordance with the rules applicable before 29 August 2022 may continue to be placed on the market and used until the existing stocks are exhausted if they are intended for food-producing animals.
3. Compound feed and feed materials containing the substance as specified in the Annex which are produced and labelled before 29 August 2024 in accordance with the rules applicable before 29 August 2022 may continue to be placed on the market and used until the existing stocks are exhausted if they are intended for non-food-producing animals.

Article 3

Entry into force

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

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

Done at Brussels, 8 August 2022.

For the Commission
The President
Ursula VON DER LEYEN

ANNEX

Identification number of the additive	Additive	Composition, chemical formula, description, analytical method.	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisation
					mg additive/kg of complete feed with a moisture content of 12 %			
Category: Sensory additives. Functional group: Flavouring compounds								
2b2816-ex	Olibanum extract	<i>Additive composition</i> Dry extract of olibanum from <i>Boswellia serrata</i> Roxb. ex Colebr. Solid form Methyleugenol ≤ 0,009 % Estragole ≤ 0,028 % <i>Characterisation of the active substance</i> Dry extract of olibanum produced by extraction from the oleoresin of <i>Boswellia serrata</i> Roxb. ex Colebr. as defined by the Council of Europe ⁽¹⁾ . Olibanum oil: FEMA number: 2816 Boswellic acids: ≥ 65 % 11-keto-β-boswellic acid (KBA): 2,53-3,86 % CAS number: 17019-92-0 3-O-acetyl-11-keto β-boswellic acid (AKBA): 2,35-3,57 % CAS number: 67416-61-9	Horses Dogs	-	-	-	1. The additive shall be incorporated into the feed in the form of a premixture. 2. In the directions for use of the additive and premixtures, the storage conditions and stability to heat treatment shall be indicated. 3. Mixture with other additives containing methyleugenol and estragole is not permitted. 4. On the label of the additive the following shall be indicated: ‘Recommended maximum content of the active substance per kg of complete feedingstuff with a moisture content of 12 %: — horses: 100 mg; — dogs: 330 mg.’ 5. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixture where the use level on the label of the premixture would result in exceeding the level referred to in point 4.	29 August 2032

		<i>Analytical method</i> ⁽²⁾ For the determination of 11-keto-β-boswellic acid and 3-O-acetyl-11-keto-β-boswellic acid (phytochemical markers) in the feed additive (olibanum extract): — high performance liquid chromatography (HPLC) with spectrophotometric (UV) detection – European Pharmacopeia monograph 'Indian Frankincense (Olibanum indicum)'					6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks by inhalation, dermal contact or eyes contact. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including skin and breathing protection.	
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⁽¹⁾ Natural sources of flavourings – Report No 2 (2007).

⁽²⁾ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en

COMMISSION IMPLEMENTING REGULATION (EU) 2022/1384**of 8 August 2022****laying down technical information for the calculation of technical provisions and basic own funds for reporting with reference dates from 30 June 2022 until 29 September 2022 in accordance with Directive 2009/138/EC of the European Parliament and of the Council on the taking-up and pursuit of the business of Insurance and Reinsurance****(Text with EEA relevance)**

THE EUROPEAN COMMISSION,

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

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

Whereas:

- (1) In order to ensure uniform conditions for the calculation of technical provisions and basic own funds by insurance and reinsurance undertakings for the purposes of Directive 2009/138/EC, technical information on relevant risk-free interest rate term structures, fundamental spreads for the calculation of the matching adjustment and volatility adjustments should be laid down for every reference date.
- (2) Insurance and re-insurance undertakings should use the technical information, which is based on market data related to the end of the last month preceding the first reporting reference date to which this Regulation applies. On 5 July 2022, the European Insurance and Occupational Pensions Authority provided the Commission with the technical information related to end of June 2022 market data. That information was published on 5 July 2022 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⁾,

HAS ADOPTED THIS REGULATION:

Article 1

1. Insurance and reinsurance undertakings shall use the technical information referred to in paragraph 2 when calculating technical provisions and basic own funds for reporting with reference dates from 30 June 2022 until 29 September 2022.

⁽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).

2. For each relevant currency, the technical information used to calculate the best estimate in accordance with Article 77 of Directive 2009/138/EC, the matching adjustment in accordance with Article 77c of that Directive and the volatility adjustment in accordance with Article 77d of that Directive shall be the following:

- (a) the relevant risk-free rate term structures set out in Annex I;
- (b) the fundamental spreads for the calculation of the matching adjustment set out in Annex II;
- (c) for each relevant national insurance market, the volatility adjustments set out in Annex III.

Article 2

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

It shall apply from 30 June 2022.

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

Done at Brussels, 8 August 2022.

For the Commission
The President
Ursula VON DER LEYEN

ANNEX I

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

Term to maturity (in years)	Euro	Czech koruna	Danish krone	Forint	Krona	Kuna
1	0,736 %	6,898 %	0,726 %	7,171 %	2,361 %	0,728 %
2	1,266 %	6,595 %	1,256 %	7,702 %	2,421 %	1,426 %
3	1,449 %	6,113 %	1,439 %	8,015 %	2,504 %	1,924 %
4	1,610 %	5,661 %	1,600 %	8,220 %	2,574 %	2,325 %
5	1,687 %	5,324 %	1,677 %	8,313 %	2,619 %	2,675 %
6	1,782 %	5,112 %	1,771 %	8,337 %	2,639 %	3,005 %
7	1,863 %	4,982 %	1,853 %	8,309 %	2,650 %	3,328 %
8	1,942 %	4,899 %	1,932 %	8,240 %	2,660 %	3,664 %
9	2,017 %	4,844 %	2,007 %	8,143 %	2,676 %	3,964 %
10	2,089 %	4,808 %	2,079 %	8,036 %	2,700 %	4,189 %
11	2,178 %	4,783 %	2,168 %	7,926 %	2,733 %	4,352 %
12	2,207 %	4,764 %	2,197 %	7,831 %	2,771 %	4,470 %
13	2,238 %	4,748 %	2,227 %	7,756 %	2,810 %	4,553 %
14	2,269 %	4,732 %	2,259 %	7,704 %	2,847 %	4,611 %
15	2,285 %	4,713 %	2,274 %	7,678 %	2,881 %	4,649 %
16	2,275 %	4,692 %	2,264 %	7,646 %	2,913 %	4,672 %
17	2,249 %	4,668 %	2,239 %	7,602 %	2,942 %	4,683 %
18	2,218 %	4,643 %	2,208 %	7,549 %	2,969 %	4,686 %
19	2,190 %	4,617 %	2,180 %	7,489 %	2,993 %	4,681 %
20	2,170 %	4,590 %	2,160 %	7,425 %	3,015 %	4,671 %
21	2,161 %	4,563 %	2,151 %	7,358 %	3,036 %	4,657 %
22	2,161 %	4,535 %	2,151 %	7,290 %	3,054 %	4,640 %
23	2,168 %	4,509 %	2,159 %	7,221 %	3,071 %	4,621 %
24	2,181 %	4,482 %	2,172 %	7,152 %	3,087 %	4,600 %
25	2,197 %	4,456 %	2,188 %	7,083 %	3,101 %	4,578 %
26	2,216 %	4,431 %	2,207 %	7,016 %	3,115 %	4,555 %
27	2,237 %	4,406 %	2,229 %	6,950 %	3,127 %	4,532 %
28	2,260 %	4,382 %	2,251 %	6,886 %	3,139 %	4,509 %
29	2,283 %	4,359 %	2,275 %	6,823 %	3,149 %	4,485 %
30	2,307 %	4,336 %	2,299 %	6,762 %	3,159 %	4,462 %
31	2,330 %	4,314 %	2,323 %	6,704 %	3,169 %	4,439 %
32	2,354 %	4,293 %	2,347 %	6,647 %	3,177 %	4,417 %
33	2,378 %	4,273 %	2,371 %	6,592 %	3,186 %	4,395 %
34	2,401 %	4,253 %	2,394 %	6,540 %	3,193 %	4,374 %

35	2,424 %	4,234 %	2,418 %	6,489 %	3,201 %	4,353 %
36	2,447 %	4,216 %	2,440 %	6,440 %	3,208 %	4,332 %
37	2,469 %	4,198 %	2,462 %	6,393 %	3,214 %	4,313 %
38	2,490 %	4,181 %	2,484 %	6,348 %	3,220 %	4,294 %
39	2,511 %	4,165 %	2,505 %	6,304 %	3,226 %	4,275 %
40	2,531 %	4,149 %	2,525 %	6,262 %	3,232 %	4,257 %
41	2,551 %	4,134 %	2,545 %	6,222 %	3,237 %	4,240 %
42	2,570 %	4,119 %	2,564 %	6,184 %	3,242 %	4,223 %
43	2,588 %	4,105 %	2,582 %	6,147 %	3,247 %	4,207 %
44	2,606 %	4,091 %	2,600 %	6,111 %	3,252 %	4,191 %
45	2,623 %	4,078 %	2,617 %	6,077 %	3,256 %	4,176 %
46	2,639 %	4,065 %	2,634 %	6,043 %	3,260 %	4,161 %
47	2,655 %	4,053 %	2,650 %	6,012 %	3,264 %	4,147 %
48	2,671 %	4,041 %	2,666 %	5,981 %	3,268 %	4,134 %
49	2,686 %	4,030 %	2,681 %	5,952 %	3,272 %	4,120 %
50	2,700 %	4,019 %	2,695 %	5,923 %	3,275 %	4,108 %
51	2,714 %	4,008 %	2,710 %	5,896 %	3,279 %	4,095 %
52	2,728 %	3,998 %	2,723 %	5,869 %	3,282 %	4,083 %
53	2,741 %	3,988 %	2,736 %	5,844 %	3,285 %	4,072 %
54	2,754 %	3,978 %	2,749 %	5,819 %	3,288 %	4,061 %
55	2,766 %	3,969 %	2,761 %	5,796 %	3,291 %	4,050 %
56	2,778 %	3,960 %	2,773 %	5,773 %	3,294 %	4,040 %
57	2,789 %	3,951 %	2,785 %	5,750 %	3,297 %	4,029 %
58	2,800 %	3,943 %	2,796 %	5,729 %	3,299 %	4,020 %
59	2,811 %	3,935 %	2,807 %	5,708 %	3,302 %	4,010 %
60	2,822 %	3,927 %	2,817 %	5,688 %	3,304 %	4,001 %
61	2,832 %	3,919 %	2,828 %	5,669 %	3,307 %	3,992 %
62	2,842 %	3,912 %	2,838 %	5,650 %	3,309 %	3,984 %
63	2,851 %	3,905 %	2,847 %	5,632 %	3,311 %	3,975 %
64	2,860 %	3,898 %	2,856 %	5,614 %	3,314 %	3,967 %
65	2,869 %	3,891 %	2,865 %	5,597 %	3,316 %	3,959 %
66	2,878 %	3,884 %	2,874 %	5,580 %	3,318 %	3,951 %
67	2,886 %	3,878 %	2,883 %	5,564 %	3,320 %	3,944 %
68	2,895 %	3,871 %	2,891 %	5,549 %	3,322 %	3,937 %
69	2,903 %	3,865 %	2,899 %	5,533 %	3,323 %	3,930 %
70	2,910 %	3,860 %	2,907 %	5,519 %	3,325 %	3,923 %
71	2,918 %	3,854 %	2,914 %	5,504 %	3,327 %	3,916 %
72	2,925 %	3,848 %	2,922 %	5,490 %	3,329 %	3,910 %
73	2,932 %	3,843 %	2,929 %	5,477 %	3,330 %	3,904 %

74	2,939 %	3,838 %	2,936 %	5,463 %	3,332 %	3,898 %
75	2,946 %	3,832 %	2,943 %	5,450 %	3,334 %	3,892 %
76	2,953 %	3,827 %	2,949 %	5,438 %	3,335 %	3,886 %
77	2,959 %	3,822 %	2,956 %	5,426 %	3,337 %	3,880 %
78	2,965 %	3,818 %	2,962 %	5,414 %	3,338 %	3,875 %
79	2,971 %	3,813 %	2,968 %	5,402 %	3,339 %	3,869 %
80	2,977 %	3,809 %	2,974 %	5,391 %	3,341 %	3,864 %
81	2,983 %	3,804 %	2,980 %	5,380 %	3,342 %	3,859 %
82	2,989 %	3,800 %	2,986 %	5,369 %	3,344 %	3,854 %
83	2,994 %	3,796 %	2,991 %	5,359 %	3,345 %	3,849 %
84	3,000 %	3,792 %	2,997 %	5,348 %	3,346 %	3,844 %
85	3,005 %	3,787 %	3,002 %	5,338 %	3,347 %	3,840 %
86	3,010 %	3,784 %	3,007 %	5,329 %	3,348 %	3,835 %
87	3,015 %	3,780 %	3,012 %	5,319 %	3,350 %	3,831 %
88	3,020 %	3,776 %	3,017 %	5,310 %	3,351 %	3,826 %
89	3,025 %	3,772 %	3,022 %	5,300 %	3,352 %	3,822 %
90	3,030 %	3,769 %	3,027 %	5,292 %	3,353 %	3,818 %
91	3,034 %	3,765 %	3,032 %	5,283 %	3,354 %	3,814 %
92	3,039 %	3,762 %	3,036 %	5,274 %	3,355 %	3,810 %
93	3,043 %	3,758 %	3,041 %	5,266 %	3,356 %	3,806 %
94	3,048 %	3,755 %	3,045 %	5,258 %	3,357 %	3,802 %
95	3,052 %	3,752 %	3,049 %	5,250 %	3,358 %	3,799 %
96	3,056 %	3,749 %	3,053 %	5,242 %	3,359 %	3,795 %
97	3,060 %	3,746 %	3,057 %	5,234 %	3,360 %	3,791 %
98	3,064 %	3,743 %	3,061 %	5,227 %	3,361 %	3,788 %
99	3,068 %	3,740 %	3,065 %	5,219 %	3,362 %	3,785 %
100	3,072 %	3,737 %	3,069 %	5,212 %	3,363 %	3,781 %
101	3,075 %	3,734 %	3,073 %	5,205 %	3,364 %	3,778 %
102	3,079 %	3,731 %	3,077 %	5,198 %	3,364 %	3,775 %
103	3,083 %	3,728 %	3,080 %	5,191 %	3,365 %	3,771 %
104	3,086 %	3,726 %	3,084 %	5,185 %	3,366 %	3,768 %
105	3,090 %	3,723 %	3,087 %	5,178 %	3,367 %	3,765 %
106	3,093 %	3,721 %	3,091 %	5,172 %	3,368 %	3,762 %
107	3,096 %	3,718 %	3,094 %	5,165 %	3,368 %	3,759 %
108	3,100 %	3,716 %	3,097 %	5,159 %	3,369 %	3,757 %
109	3,103 %	3,713 %	3,101 %	5,153 %	3,370 %	3,754 %
110	3,106 %	3,711 %	3,104 %	5,147 %	3,371 %	3,751 %
111	3,109 %	3,708 %	3,107 %	5,141 %	3,371 %	3,748 %
112	3,112 %	3,706 %	3,110 %	5,136 %	3,372 %	3,746 %

113	3,115 %	3,704 %	3,113 %	5,130 %	3,373 %	3,743 %
114	3,118 %	3,702 %	3,116 %	5,124 %	3,373 %	3,740 %
115	3,121 %	3,699 %	3,119 %	5,119 %	3,374 %	3,738 %
116	3,124 %	3,697 %	3,122 %	5,114 %	3,375 %	3,735 %
117	3,127 %	3,695 %	3,124 %	5,108 %	3,375 %	3,733 %
118	3,129 %	3,693 %	3,127 %	5,103 %	3,376 %	3,731 %
119	3,132 %	3,691 %	3,130 %	5,098 %	3,377 %	3,728 %
120	3,135 %	3,689 %	3,133 %	5,093 %	3,377 %	3,726 %
121	3,137 %	3,687 %	3,135 %	5,088 %	3,378 %	3,724 %
122	3,140 %	3,685 %	3,138 %	5,083 %	3,378 %	3,721 %
123	3,142 %	3,683 %	3,140 %	5,079 %	3,379 %	3,719 %
124	3,145 %	3,681 %	3,143 %	5,074 %	3,380 %	3,717 %
125	3,147 %	3,679 %	3,145 %	5,069 %	3,380 %	3,715 %
126	3,150 %	3,678 %	3,148 %	5,065 %	3,381 %	3,713 %
127	3,152 %	3,676 %	3,150 %	5,060 %	3,381 %	3,711 %
128	3,154 %	3,674 %	3,152 %	5,056 %	3,382 %	3,709 %
129	3,157 %	3,672 %	3,155 %	5,052 %	3,382 %	3,707 %
130	3,159 %	3,671 %	3,157 %	5,047 %	3,383 %	3,705 %
131	3,161 %	3,669 %	3,159 %	5,043 %	3,383 %	3,703 %
132	3,163 %	3,667 %	3,161 %	5,039 %	3,384 %	3,701 %
133	3,165 %	3,666 %	3,164 %	5,035 %	3,384 %	3,699 %
134	3,168 %	3,664 %	3,166 %	5,031 %	3,385 %	3,697 %
135	3,170 %	3,662 %	3,168 %	5,027 %	3,385 %	3,695 %
136	3,172 %	3,661 %	3,170 %	5,023 %	3,386 %	3,693 %
137	3,174 %	3,659 %	3,172 %	5,019 %	3,386 %	3,692 %
138	3,176 %	3,658 %	3,174 %	5,016 %	3,387 %	3,690 %
139	3,178 %	3,656 %	3,176 %	5,012 %	3,387 %	3,688 %
140	3,180 %	3,655 %	3,178 %	5,008 %	3,388 %	3,686 %
141	3,182 %	3,653 %	3,180 %	5,005 %	3,388 %	3,685 %
142	3,183 %	3,652 %	3,182 %	5,001 %	3,388 %	3,683 %
143	3,185 %	3,651 %	3,184 %	4,997 %	3,389 %	3,681 %
144	3,187 %	3,649 %	3,185 %	4,994 %	3,389 %	3,680 %
145	3,189 %	3,648 %	3,187 %	4,991 %	3,390 %	3,678 %
146	3,191 %	3,646 %	3,189 %	4,987 %	3,390 %	3,677 %
147	3,192 %	3,645 %	3,191 %	4,984 %	3,391 %	3,675 %
148	3,194 %	3,644 %	3,193 %	4,981 %	3,391 %	3,674 %
149	3,196 %	3,642 %	3,194 %	4,977 %	3,391 %	3,672 %
150	3,198 %	3,641 %	3,196 %	4,974 %	3,392 %	3,671 %

Term to maturity (in years)	Lev	Pound sterling	Romanian leu	Zloty	Króna	Norwegian krone
1	0,686 %	2,491 %	8,115 %	7,005 %	6,143 %	3,092 %
2	1,216 %	2,663 %	8,980 %	7,388 %	6,308 %	3,106 %
3	1,399 %	2,626 %	8,975 %	7,360 %	6,326 %	3,126 %
4	1,560 %	2,564 %	8,745 %	7,241 %	6,231 %	3,144 %
5	1,637 %	2,518 %	8,529 %	7,085 %	6,057 %	3,157 %
6	1,731 %	2,463 %	8,414 %	6,941 %	5,856 %	3,164 %
7	1,812 %	2,414 %	8,406 %	6,825 %	5,660 %	3,168 %
8	1,891 %	2,382 %	8,508 %	6,739 %	5,486 %	3,171 %
9	1,967 %	2,365 %	8,657 %	6,686 %	5,341 %	3,174 %
10	2,039 %	2,360 %	8,787 %	6,660 %	5,220 %	3,178 %
11	2,127 %	2,355 %	8,857 %	6,624 %	5,116 %	3,182 %
12	2,156 %	2,348 %	8,874 %	6,573 %	5,026 %	3,186 %
13	2,187 %	2,340 %	8,851 %	6,512 %	4,946 %	3,191 %
14	2,219 %	2,332 %	8,797 %	6,444 %	4,874 %	3,196 %
15	2,234 %	2,324 %	8,722 %	6,371 %	4,810 %	3,201 %
16	2,223 %	2,316 %	8,629 %	6,296 %	4,751 %	3,207 %
17	2,198 %	2,308 %	8,525 %	6,220 %	4,698 %	3,212 %
18	2,167 %	2,298 %	8,412 %	6,144 %	4,648 %	3,217 %
19	2,139 %	2,286 %	8,294 %	6,068 %	4,603 %	3,222 %
20	2,120 %	2,272 %	8,172 %	5,993 %	4,560 %	3,227 %
21	2,111 %	2,256 %	8,049 %	5,920 %	4,521 %	3,232 %
22	2,113 %	2,239 %	7,926 %	5,849 %	4,484 %	3,236 %
23	2,121 %	2,222 %	7,804 %	5,779 %	4,449 %	3,241 %
24	2,135 %	2,207 %	7,683 %	5,712 %	4,417 %	3,246 %
25	2,152 %	2,194 %	7,565 %	5,647 %	4,386 %	3,250 %
26	2,172 %	2,184 %	7,450 %	5,585 %	4,357 %	3,254 %
27	2,194 %	2,177 %	7,338 %	5,525 %	4,330 %	3,259 %
28	2,218 %	2,173 %	7,230 %	5,467 %	4,304 %	3,263 %
29	2,242 %	2,174 %	7,125 %	5,411 %	4,279 %	3,267 %
30	2,267 %	2,178 %	7,024 %	5,358 %	4,256 %	3,270 %
31	2,292 %	2,186 %	6,927 %	5,306 %	4,234 %	3,274 %
32	2,317 %	2,197 %	6,834 %	5,257 %	4,213 %	3,278 %
33	2,342 %	2,211 %	6,744 %	5,210 %	4,193 %	3,281 %
34	2,366 %	2,227 %	6,658 %	5,165 %	4,174 %	3,285 %
35	2,390 %	2,244 %	6,575 %	5,121 %	4,156 %	3,288 %
36	2,413 %	2,262 %	6,496 %	5,080 %	4,138 %	3,291 %

37	2,436 %	2,280 %	6,420 %	5,040 %	4,122 %	3,294 %
38	2,458 %	2,300 %	6,347 %	5,002 %	4,106 %	3,297 %
39	2,480 %	2,319 %	6,277 %	4,965 %	4,091 %	3,300 %
40	2,501 %	2,339 %	6,210 %	4,930 %	4,076 %	3,303 %
41	2,521 %	2,358 %	6,145 %	4,896 %	4,062 %	3,306 %
42	2,540 %	2,377 %	6,084 %	4,863 %	4,049 %	3,308 %
43	2,559 %	2,397 %	6,025 %	4,832 %	4,036 %	3,311 %
44	2,578 %	2,416 %	5,968 %	4,802 %	4,023 %	3,313 %
45	2,596 %	2,434 %	5,913 %	4,774 %	4,011 %	3,316 %
46	2,613 %	2,452 %	5,861 %	4,746 %	4,000 %	3,318 %
47	2,629 %	2,470 %	5,810 %	4,719 %	3,989 %	3,320 %
48	2,645 %	2,488 %	5,762 %	4,694 %	3,978 %	3,323 %
49	2,661 %	2,505 %	5,715 %	4,669 %	3,968 %	3,325 %
50	2,676 %	2,522 %	5,670 %	4,645 %	3,958 %	3,327 %
51	2,690 %	2,538 %	5,627 %	4,622 %	3,949 %	3,329 %
52	2,704 %	2,554 %	5,585 %	4,600 %	3,939 %	3,331 %
53	2,718 %	2,569 %	5,545 %	4,579 %	3,931 %	3,333 %
54	2,731 %	2,584 %	5,507 %	4,558 %	3,922 %	3,335 %
55	2,744 %	2,599 %	5,469 %	4,538 %	3,914 %	3,337 %
56	2,756 %	2,613 %	5,433 %	4,519 %	3,906 %	3,338 %
57	2,768 %	2,627 %	5,398 %	4,500 %	3,898 %	3,340 %
58	2,779 %	2,640 %	5,365 %	4,482 %	3,890 %	3,342 %
59	2,790 %	2,653 %	5,332 %	4,465 %	3,883 %	3,343 %
60	2,801 %	2,666 %	5,301 %	4,448 %	3,876 %	3,345 %
61	2,812 %	2,678 %	5,270 %	4,432 %	3,869 %	3,347 %
62	2,822 %	2,690 %	5,241 %	4,416 %	3,863 %	3,348 %
63	2,831 %	2,702 %	5,212 %	4,401 %	3,856 %	3,350 %
64	2,841 %	2,713 %	5,185 %	4,386 %	3,850 %	3,351 %
65	2,850 %	2,724 %	5,158 %	4,372 %	3,844 %	3,352 %
66	2,859 %	2,735 %	5,132 %	4,358 %	3,838 %	3,354 %
67	2,868 %	2,745 %	5,107 %	4,344 %	3,832 %	3,355 %
68	2,876 %	2,755 %	5,082 %	4,331 %	3,827 %	3,356 %
69	2,885 %	2,765 %	5,058 %	4,318 %	3,821 %	3,358 %
70	2,893 %	2,775 %	5,035 %	4,306 %	3,816 %	3,359 %
71	2,900 %	2,784 %	5,013 %	4,294 %	3,811 %	3,360 %
72	2,908 %	2,793 %	4,991 %	4,282 %	3,806 %	3,361 %
73	2,915 %	2,802 %	4,970 %	4,271 %	3,801 %	3,362 %
74	2,923 %	2,811 %	4,949 %	4,260 %	3,796 %	3,364 %

75	2,930 %	2,819 %	4,929 %	4,249 %	3,792 %	3,365 %
76	2,936 %	2,827 %	4,909 %	4,238 %	3,787 %	3,366 %
77	2,943 %	2,835 %	4,890 %	4,228 %	3,783 %	3,367 %
78	2,949 %	2,843 %	4,872 %	4,218 %	3,779 %	3,368 %
79	2,956 %	2,851 %	4,854 %	4,208 %	3,775 %	3,369 %
80	2,962 %	2,858 %	4,836 %	4,199 %	3,771 %	3,370 %
81	2,968 %	2,865 %	4,819 %	4,190 %	3,767 %	3,371 %
82	2,974 %	2,872 %	4,802 %	4,181 %	3,763 %	3,372 %
83	2,980 %	2,879 %	4,785 %	4,172 %	3,759 %	3,373 %
84	2,985 %	2,886 %	4,769 %	4,163 %	3,755 %	3,373 %
85	2,991 %	2,893 %	4,754 %	4,155 %	3,752 %	3,374 %
86	2,996 %	2,899 %	4,739 %	4,146 %	3,748 %	3,375 %
87	3,001 %	2,905 %	4,724 %	4,138 %	3,745 %	3,376 %
88	3,006 %	2,911 %	4,709 %	4,131 %	3,742 %	3,377 %
89	3,011 %	2,918 %	4,695 %	4,123 %	3,738 %	3,378 %
90	3,016 %	2,923 %	4,681 %	4,115 %	3,735 %	3,378 %
91	3,021 %	2,929 %	4,667 %	4,108 %	3,732 %	3,379 %
92	3,025 %	2,935 %	4,654 %	4,101 %	3,729 %	3,380 %
93	3,030 %	2,940 %	4,641 %	4,094 %	3,726 %	3,381 %
94	3,034 %	2,946 %	4,628 %	4,087 %	3,723 %	3,381 %
95	3,039 %	2,951 %	4,616 %	4,080 %	3,720 %	3,382 %
96	3,043 %	2,956 %	4,604 %	4,074 %	3,717 %	3,383 %
97	3,047 %	2,961 %	4,592 %	4,067 %	3,715 %	3,384 %
98	3,051 %	2,966 %	4,580 %	4,061 %	3,712 %	3,384 %
99	3,055 %	2,971 %	4,569 %	4,055 %	3,709 %	3,385 %
100	3,059 %	2,976 %	4,557 %	4,049 %	3,707 %	3,385 %
101	3,063 %	2,981 %	4,546 %	4,043 %	3,704 %	3,386 %
102	3,067 %	2,985 %	4,535 %	4,037 %	3,702 %	3,387 %
103	3,071 %	2,990 %	4,525 %	4,031 %	3,699 %	3,387 %
104	3,074 %	2,994 %	4,514 %	4,026 %	3,697 %	3,388 %
105	3,078 %	2,998 %	4,504 %	4,020 %	3,694 %	3,389 %
106	3,081 %	3,003 %	4,494 %	4,015 %	3,692 %	3,389 %
107	3,085 %	3,007 %	4,484 %	4,009 %	3,690 %	3,390 %
108	3,088 %	3,011 %	4,475 %	4,004 %	3,688 %	3,390 %
109	3,092 %	3,015 %	4,465 %	3,999 %	3,685 %	3,391 %
110	3,095 %	3,019 %	4,456 %	3,994 %	3,683 %	3,391 %
111	3,098 %	3,023 %	4,447 %	3,989 %	3,681 %	3,392 %
112	3,101 %	3,027 %	4,438 %	3,984 %	3,679 %	3,392 %

113	3,104 %	3,030 %	4,429 %	3,980 %	3,677 %	3,393 %
114	3,107 %	3,034 %	4,421 %	3,975 %	3,675 %	3,393 %
115	3,110 %	3,038 %	4,412 %	3,970 %	3,673 %	3,394 %
116	3,113 %	3,041 %	4,404 %	3,966 %	3,671 %	3,394 %
117	3,116 %	3,045 %	4,396 %	3,961 %	3,669 %	3,395 %
118	3,119 %	3,048 %	4,388 %	3,957 %	3,667 %	3,395 %
119	3,122 %	3,051 %	4,380 %	3,953 %	3,666 %	3,396 %
120	3,124 %	3,055 %	4,372 %	3,949 %	3,664 %	3,396 %
121	3,127 %	3,058 %	4,364 %	3,945 %	3,662 %	3,397 %
122	3,130 %	3,061 %	4,357 %	3,940 %	3,660 %	3,397 %
123	3,132 %	3,064 %	4,349 %	3,936 %	3,659 %	3,397 %
124	3,135 %	3,067 %	4,342 %	3,933 %	3,657 %	3,398 %
125	3,137 %	3,070 %	4,335 %	3,929 %	3,655 %	3,398 %
126	3,140 %	3,074 %	4,328 %	3,925 %	3,654 %	3,399 %
127	3,142 %	3,076 %	4,321 %	3,921 %	3,652 %	3,399 %
128	3,145 %	3,079 %	4,314 %	3,917 %	3,650 %	3,400 %
129	3,147 %	3,082 %	4,307 %	3,914 %	3,649 %	3,400 %
130	3,149 %	3,085 %	4,301 %	3,910 %	3,647 %	3,400 %
131	3,152 %	3,088 %	4,294 %	3,907 %	3,646 %	3,401 %
132	3,154 %	3,091 %	4,288 %	3,903 %	3,644 %	3,401 %
133	3,156 %	3,093 %	4,281 %	3,900 %	3,643 %	3,401 %
134	3,158 %	3,096 %	4,275 %	3,896 %	3,641 %	3,402 %
135	3,160 %	3,099 %	4,269 %	3,893 %	3,640 %	3,402 %
136	3,163 %	3,101 %	4,263 %	3,890 %	3,639 %	3,402 %
137	3,165 %	3,104 %	4,257 %	3,887 %	3,637 %	3,403 %
138	3,167 %	3,106 %	4,251 %	3,883 %	3,636 %	3,403 %
139	3,169 %	3,109 %	4,245 %	3,880 %	3,635 %	3,403 %
140	3,171 %	3,111 %	4,240 %	3,877 %	3,633 %	3,404 %
141	3,173 %	3,113 %	4,234 %	3,874 %	3,632 %	3,404 %
142	3,175 %	3,116 %	4,229 %	3,871 %	3,631 %	3,404 %
143	3,177 %	3,118 %	4,223 %	3,868 %	3,629 %	3,405 %
144	3,179 %	3,120 %	4,218 %	3,865 %	3,628 %	3,405 %
145	3,180 %	3,123 %	4,212 %	3,863 %	3,627 %	3,405 %
146	3,182 %	3,125 %	4,207 %	3,860 %	3,626 %	3,406 %
147	3,184 %	3,127 %	4,202 %	3,857 %	3,625 %	3,406 %
148	3,186 %	3,129 %	4,197 %	3,854 %	3,623 %	3,406 %
149	3,188 %	3,132 %	4,192 %	3,851 %	3,622 %	3,407 %
150	3,189 %	3,134 %	4,187 %	3,849 %	3,621 %	3,407 %

Term to maturity (in years)	Swiss franc	Australian dollar	Baht	Canadian dollar	Chilean peso	Colombian peso
1	- 0,288 %	3,251 %	1,048 %	3,391 %	8,742 %	9,360 %
2	- 0,068 %	3,638 %	1,636 %	3,398 %	7,278 %	9,902 %
3	0,119 %	3,756 %	2,008 %	3,393 %	6,626 %	10,380 %
4	0,280 %	3,839 %	2,265 %	3,357 %	6,350 %	10,718 %
5	0,423 %	3,781 %	2,438 %	3,349 %	6,259 %	10,970 %
6	0,550 %	3,997 %	2,561 %	3,376 %	6,261 %	11,159 %
7	0,666 %	4,056 %	2,659 %	3,422 %	6,304 %	11,295 %
8	0,769 %	4,104 %	2,749 %	3,475 %	6,364 %	11,405 %
9	0,860 %	4,136 %	2,844 %	3,523 %	6,434 %	11,502 %
10	0,939 %	4,065 %	2,951 %	3,559 %	6,505 %	11,565 %
11	1,004 %	4,064 %	3,073 %	3,579 %	6,549 %	11,571 %
12	1,055 %	4,100 %	3,202 %	3,586 %	6,568 %	11,529 %
13	1,094 %	4,113 %	3,327 %	3,585 %	6,567 %	11,451 %
14	1,120 %	4,107 %	3,442 %	3,578 %	6,553 %	11,346 %
15	1,142 %	4,101 %	3,540 %	3,567 %	6,529 %	11,220 %
16	1,167 %	4,103 %	3,619 %	3,553 %	6,498 %	11,080 %
17	1,194 %	4,107 %	3,681 %	3,538 %	6,462 %	10,929 %
18	1,222 %	4,107 %	3,730 %	3,521 %	6,422 %	10,772 %
19	1,252 %	4,096 %	3,767 %	3,504 %	6,380 %	10,610 %
20	1,282 %	4,071 %	3,797 %	3,488 %	6,336 %	10,446 %
21	1,312 %	4,029 %	3,819 %	3,472 %	6,292 %	10,283 %
22	1,341 %	3,976 %	3,835 %	3,456 %	6,248 %	10,120 %
23	1,370 %	3,916 %	3,847 %	3,441 %	6,203 %	9,960 %
24	1,399 %	3,853 %	3,855 %	3,427 %	6,160 %	9,804 %
25	1,427 %	3,789 %	3,860 %	3,414 %	6,117 %	9,651 %
26	1,453 %	3,727 %	3,863 %	3,403 %	6,075 %	9,502 %
27	1,479 %	3,669 %	3,864 %	3,392 %	6,034 %	9,359 %
28	1,505 %	3,616 %	3,863 %	3,383 %	5,994 %	9,220 %
29	1,529 %	3,569 %	3,860 %	3,374 %	5,955 %	9,087 %
30	1,552 %	3,527 %	3,857 %	3,367 %	5,918 %	8,958 %
31	1,575 %	3,493 %	3,853 %	3,361 %	5,882 %	8,834 %
32	1,597 %	3,464 %	3,848 %	3,357 %	5,847 %	8,716 %
33	1,618 %	3,440 %	3,843 %	3,353 %	5,813 %	8,602 %
34	1,638 %	3,420 %	3,837 %	3,349 %	5,781 %	8,493 %
35	1,657 %	3,403 %	3,831 %	3,347 %	5,750 %	8,389 %
36	1,676 %	3,390 %	3,825 %	3,345 %	5,719 %	8,289 %

37	1,694 %	3,378 %	3,818 %	3,343 %	5,691 %	8,193 %
38	1,711 %	3,369 %	3,812 %	3,342 %	5,663 %	8,101 %
39	1,728 %	3,361 %	3,806 %	3,342 %	5,636 %	8,013 %
40	1,744 %	3,355 %	3,799 %	3,341 %	5,610 %	7,929 %
41	1,760 %	3,350 %	3,793 %	3,341 %	5,585 %	7,848 %
42	1,774 %	3,346 %	3,787 %	3,341 %	5,561 %	7,771 %
43	1,789 %	3,343 %	3,781 %	3,341 %	5,538 %	7,697 %
44	1,803 %	3,340 %	3,775 %	3,342 %	5,516 %	7,626 %
45	1,816 %	3,339 %	3,769 %	3,342 %	5,495 %	7,557 %
46	1,829 %	3,337 %	3,763 %	3,343 %	5,475 %	7,492 %
47	1,841 %	3,337 %	3,757 %	3,344 %	5,455 %	7,429 %
48	1,853 %	3,336 %	3,752 %	3,345 %	5,436 %	7,368 %
49	1,864 %	3,336 %	3,746 %	3,346 %	5,417 %	7,310 %
50	1,876 %	3,336 %	3,741 %	3,347 %	5,400 %	7,254 %
51	1,886 %	3,336 %	3,736 %	3,348 %	5,382 %	7,200 %
52	1,897 %	3,337 %	3,731 %	3,349 %	5,366 %	7,149 %
53	1,907 %	3,338 %	3,726 %	3,350 %	5,350 %	7,099 %
54	1,916 %	3,339 %	3,721 %	3,351 %	5,335 %	7,050 %
55	1,926 %	3,339 %	3,717 %	3,352 %	5,320 %	7,004 %
56	1,935 %	3,341 %	3,712 %	3,353 %	5,305 %	6,959 %
57	1,943 %	3,342 %	3,708 %	3,354 %	5,291 %	6,916 %
58	1,952 %	3,343 %	3,704 %	3,355 %	5,278 %	6,874 %
59	1,960 %	3,344 %	3,700 %	3,357 %	5,265 %	6,833 %
60	1,968 %	3,345 %	3,696 %	3,358 %	5,252 %	6,794 %
61	1,976 %	3,346 %	3,692 %	3,359 %	5,240 %	6,756 %
62	1,983 %	3,348 %	3,688 %	3,360 %	5,228 %	6,720 %
63	1,991 %	3,349 %	3,684 %	3,361 %	5,217 %	6,684 %
64	1,998 %	3,350 %	3,681 %	3,362 %	5,206 %	6,650 %
65	2,004 %	3,351 %	3,677 %	3,363 %	5,195 %	6,617 %
66	2,011 %	3,352 %	3,674 %	3,364 %	5,184 %	6,584 %
67	2,018 %	3,354 %	3,671 %	3,366 %	5,174 %	6,553 %
68	2,024 %	3,355 %	3,668 %	3,367 %	5,164 %	6,522 %
69	2,030 %	3,356 %	3,665 %	3,368 %	5,155 %	6,493 %
70	2,036 %	3,357 %	3,661 %	3,369 %	5,145 %	6,464 %
71	2,042 %	3,358 %	3,659 %	3,370 %	5,136 %	6,436 %
72	2,047 %	3,360 %	3,656 %	3,371 %	5,128 %	6,409 %
73	2,053 %	3,361 %	3,653 %	3,372 %	5,119 %	6,383 %
74	2,058 %	3,362 %	3,650 %	3,373 %	5,111 %	6,357 %

75	2,063 %	3,363 %	3,648 %	3,373 %	5,102 %	6,332 %
76	2,068 %	3,364 %	3,645 %	3,374 %	5,095 %	6,308 %
77	2,073 %	3,365 %	3,642 %	3,375 %	5,087 %	6,284 %
78	2,078 %	3,366 %	3,640 %	3,376 %	5,079 %	6,261 %
79	2,083 %	3,367 %	3,638 %	3,377 %	5,072 %	6,239 %
80	2,087 %	3,368 %	3,635 %	3,378 %	5,065 %	6,217 %
81	2,092 %	3,369 %	3,633 %	3,379 %	5,058 %	6,196 %
82	2,096 %	3,370 %	3,631 %	3,380 %	5,051 %	6,175 %
83	2,100 %	3,371 %	3,629 %	3,380 %	5,044 %	6,154 %
84	2,104 %	3,372 %	3,627 %	3,381 %	5,038 %	6,134 %
85	2,109 %	3,373 %	3,624 %	3,382 %	5,032 %	6,115 %
86	2,112 %	3,374 %	3,622 %	3,383 %	5,025 %	6,096 %
87	2,116 %	3,375 %	3,620 %	3,383 %	5,019 %	6,078 %
88	2,120 %	3,375 %	3,618 %	3,384 %	5,013 %	6,060 %
89	2,124 %	3,376 %	3,617 %	3,385 %	5,008 %	6,042 %
90	2,127 %	3,377 %	3,615 %	3,386 %	5,002 %	6,025 %
91	2,131 %	3,378 %	3,613 %	3,386 %	4,996 %	6,008 %
92	2,134 %	3,379 %	3,611 %	3,387 %	4,991 %	5,991 %
93	2,138 %	3,379 %	3,609 %	3,388 %	4,986 %	5,975 %
94	2,141 %	3,380 %	3,608 %	3,388 %	4,981 %	5,959 %
95	2,144 %	3,381 %	3,606 %	3,389 %	4,976 %	5,944 %
96	2,148 %	3,382 %	3,604 %	3,390 %	4,971 %	5,929 %
97	2,151 %	3,382 %	3,603 %	3,390 %	4,966 %	5,914 %
98	2,154 %	3,383 %	3,601 %	3,391 %	4,961 %	5,899 %
99	2,157 %	3,384 %	3,600 %	3,391 %	4,956 %	5,885 %
100	2,160 %	3,384 %	3,598 %	3,392 %	4,952 %	5,871 %
101	2,162 %	3,385 %	3,597 %	3,392 %	4,947 %	5,858 %
102	2,165 %	3,386 %	3,595 %	3,393 %	4,943 %	5,844 %
103	2,168 %	3,386 %	3,594 %	3,394 %	4,939 %	5,831 %
104	2,171 %	3,387 %	3,593 %	3,394 %	4,934 %	5,818 %
105	2,173 %	3,387 %	3,591 %	3,395 %	4,930 %	5,806 %
106	2,176 %	3,388 %	3,590 %	3,395 %	4,926 %	5,793 %
107	2,179 %	3,389 %	3,589 %	3,396 %	4,922 %	5,781 %
108	2,181 %	3,389 %	3,587 %	3,396 %	4,918 %	5,769 %
109	2,184 %	3,390 %	3,586 %	3,397 %	4,914 %	5,757 %
110	2,186 %	3,390 %	3,585 %	3,397 %	4,911 %	5,746 %
111	2,188 %	3,391 %	3,584 %	3,398 %	4,907 %	5,735 %
112	2,191 %	3,391 %	3,582 %	3,398 %	4,903 %	5,724 %

113	2,193 %	3,392 %	3,581 %	3,399 %	4,900 %	5,713 %
114	2,195 %	3,392 %	3,580 %	3,399 %	4,896 %	5,702 %
115	2,197 %	3,393 %	3,579 %	3,399 %	4,893 %	5,691 %
116	2,200 %	3,393 %	3,578 %	3,400 %	4,889 %	5,681 %
117	2,202 %	3,394 %	3,577 %	3,400 %	4,886 %	5,671 %
118	2,204 %	3,394 %	3,576 %	3,401 %	4,883 %	5,661 %
119	2,206 %	3,395 %	3,575 %	3,401 %	4,879 %	5,651 %
120	2,208 %	3,395 %	3,574 %	3,401 %	4,876 %	5,642 %
121	2,210 %	3,396 %	3,573 %	3,402 %	4,873 %	5,632 %
122	2,212 %	3,396 %	3,572 %	3,402 %	4,870 %	5,623 %
123	2,214 %	3,397 %	3,571 %	3,403 %	4,867 %	5,614 %
124	2,216 %	3,397 %	3,570 %	3,403 %	4,864 %	5,604 %
125	2,218 %	3,397 %	3,569 %	3,403 %	4,861 %	5,596 %
126	2,219 %	3,398 %	3,568 %	3,404 %	4,858 %	5,587 %
127	2,221 %	3,398 %	3,567 %	3,404 %	4,856 %	5,578 %
128	2,223 %	3,399 %	3,566 %	3,405 %	4,853 %	5,570 %
129	2,225 %	3,399 %	3,565 %	3,405 %	4,850 %	5,561 %
130	2,227 %	3,399 %	3,564 %	3,405 %	4,847 %	5,553 %
131	2,228 %	3,400 %	3,563 %	3,406 %	4,845 %	5,545 %
132	2,230 %	3,400 %	3,562 %	3,406 %	4,842 %	5,537 %
133	2,232 %	3,401 %	3,561 %	3,406 %	4,839 %	5,529 %
134	2,233 %	3,401 %	3,561 %	3,407 %	4,837 %	5,522 %
135	2,235 %	3,401 %	3,560 %	3,407 %	4,834 %	5,514 %
136	2,236 %	3,402 %	3,559 %	3,407 %	4,832 %	5,507 %
137	2,238 %	3,402 %	3,558 %	3,407 %	4,830 %	5,499 %
138	2,239 %	3,402 %	3,557 %	3,408 %	4,827 %	5,492 %
139	2,241 %	3,403 %	3,557 %	3,408 %	4,825 %	5,485 %
140	2,242 %	3,403 %	3,556 %	3,408 %	4,822 %	5,478 %
141	2,244 %	3,403 %	3,555 %	3,409 %	4,820 %	5,471 %
142	2,245 %	3,404 %	3,554 %	3,409 %	4,818 %	5,464 %
143	2,247 %	3,404 %	3,554 %	3,409 %	4,816 %	5,457 %
144	2,248 %	3,404 %	3,553 %	3,410 %	4,813 %	5,450 %
145	2,250 %	3,405 %	3,552 %	3,410 %	4,811 %	5,444 %
146	2,251 %	3,405 %	3,552 %	3,410 %	4,809 %	5,437 %
147	2,252 %	3,405 %	3,551 %	3,410 %	4,807 %	5,431 %
148	2,254 %	3,406 %	3,550 %	3,411 %	4,805 %	5,425 %
149	2,255 %	3,406 %	3,550 %	3,411 %	4,803 %	5,418 %
150	2,256 %	3,406 %	3,549 %	3,411 %	4,801 %	5,412 %

Term to maturity (in years)	Hong Kong dollar	Indian rupee	Mexican peso	New Taiwan dollar	New Zealand dollar	Rand
1	2,810 %	6,255 %	9,825 %	0,718 %	3,830 %	6,478 %
2	3,048 %	6,703 %	9,731 %	0,775 %	4,014 %	7,351 %
3	3,047 %	6,973 %	9,475 %	0,830 %	4,041 %	7,790 %
4	3,057 %	7,149 %	9,245 %	0,884 %	4,025 %	8,094 %
5	3,100 %	7,273 %	9,139 %	0,933 %	3,995 %	8,375 %
6	3,134 %	7,374 %	9,103 %	0,981 %	4,002 %	8,664 %
7	3,158 %	7,445 %	9,092 %	1,028 %	4,016 %	8,947 %
8	3,177 %	7,506 %	9,084 %	1,074 %	4,036 %	9,192 %
9	3,194 %	7,564 %	9,065 %	1,119 %	4,057 %	9,396 %
10	3,209 %	7,614 %	9,027 %	1,165 %	4,073 %	9,563 %
11	3,225 %	7,641 %	8,965 %	1,218 %	4,082 %	9,693 %
12	3,240 %	7,645 %	8,884 %	1,278 %	4,085 %	9,790 %
13	3,254 %	7,633 %	8,790 %	1,341 %	4,084 %	9,856 %
14	3,267 %	7,610 %	8,688 %	1,406 %	4,080 %	9,894 %
15	3,279 %	7,578 %	8,581 %	1,470 %	4,074 %	9,902 %
16	3,289 %	7,541 %	8,470 %	1,532 %	4,067 %	9,883 %
17	3,298 %	7,499 %	8,359 %	1,594 %	4,058 %	9,842 %
18	3,306 %	7,455 %	8,248 %	1,653 %	4,048 %	9,784 %
19	3,314 %	7,410 %	8,137 %	1,711 %	4,037 %	9,714 %
20	3,320 %	7,363 %	8,029 %	1,766 %	4,026 %	9,634 %
21	3,326 %	7,316 %	7,923 %	1,819 %	4,014 %	9,547 %
22	3,332 %	7,270 %	7,820 %	1,870 %	4,003 %	9,456 %
23	3,337 %	7,223 %	7,720 %	1,918 %	3,991 %	9,363 %
24	3,341 %	7,178 %	7,623 %	1,964 %	3,979 %	9,268 %
25	3,345 %	7,134 %	7,530 %	2,009 %	3,967 %	9,173 %
26	3,349 %	7,090 %	7,440 %	2,051 %	3,956 %	9,079 %
27	3,353 %	7,048 %	7,354 %	2,091 %	3,945 %	8,986 %
28	3,356 %	7,008 %	7,271 %	2,130 %	3,933 %	8,894 %
29	3,359 %	6,968 %	7,191 %	2,167 %	3,922 %	8,805 %
30	3,362 %	6,930 %	7,115 %	2,202 %	3,912 %	8,719 %
31	3,365 %	6,893 %	7,041 %	2,235 %	3,901 %	8,635 %
32	3,368 %	6,858 %	6,971 %	2,267 %	3,891 %	8,553 %
33	3,370 %	6,824 %	6,904 %	2,298 %	3,882 %	8,475 %
34	3,372 %	6,791 %	6,840 %	2,327 %	3,872 %	8,399 %
35	3,374 %	6,759 %	6,778 %	2,356 %	3,863 %	8,326 %
36	3,377 %	6,729 %	6,719 %	2,382 %	3,854 %	8,256 %

37	3,378 %	6,700 %	6,663 %	2,408 %	3,845 %	8,188 %
38	3,380 %	6,672 %	6,609 %	2,433 %	3,837 %	8,123 %
39	3,382 %	6,645 %	6,557 %	2,457 %	3,829 %	8,061 %
40	3,384 %	6,619 %	6,507 %	2,479 %	3,821 %	8,001 %
41	3,385 %	6,593 %	6,460 %	2,501 %	3,813 %	7,943 %
42	3,387 %	6,569 %	6,414 %	2,522 %	3,806 %	7,888 %
43	3,388 %	6,546 %	6,370 %	2,542 %	3,798 %	7,834 %
44	3,390 %	6,524 %	6,328 %	2,561 %	3,792 %	7,783 %
45	3,391 %	6,502 %	6,288 %	2,580 %	3,785 %	7,734 %
46	3,392 %	6,482 %	6,249 %	2,598 %	3,778 %	7,687 %
47	3,393 %	6,462 %	6,211 %	2,615 %	3,772 %	7,641 %
48	3,394 %	6,443 %	6,175 %	2,632 %	3,766 %	7,598 %
49	3,396 %	6,424 %	6,141 %	2,648 %	3,760 %	7,555 %
50	3,397 %	6,406 %	6,108 %	2,663 %	3,755 %	7,515 %
51	3,398 %	6,389 %	6,075 %	2,678 %	3,749 %	7,476 %
52	3,399 %	6,372 %	6,045 %	2,692 %	3,744 %	7,438 %
53	3,400 %	6,356 %	6,015 %	2,706 %	3,739 %	7,402 %
54	3,401 %	6,341 %	5,986 %	2,719 %	3,734 %	7,367 %
55	3,401 %	6,326 %	5,958 %	2,732 %	3,729 %	7,333 %
56	3,402 %	6,311 %	5,931 %	2,745 %	3,724 %	7,300 %
57	3,403 %	6,297 %	5,906 %	2,757 %	3,719 %	7,269 %
58	3,404 %	6,284 %	5,881 %	2,769 %	3,715 %	7,238 %
59	3,405 %	6,271 %	5,856 %	2,780 %	3,711 %	7,209 %
60	3,405 %	6,258 %	5,833 %	2,791 %	3,706 %	7,180 %
61	3,406 %	6,246 %	5,810 %	2,801 %	3,702 %	7,153 %
62	3,407 %	6,234 %	5,788 %	2,812 %	3,699 %	7,126 %
63	3,408 %	6,222 %	5,767 %	2,822 %	3,695 %	7,100 %
64	3,408 %	6,211 %	5,747 %	2,831 %	3,691 %	7,075 %
65	3,409 %	6,200 %	5,727 %	2,841 %	3,687 %	7,051 %
66	3,409 %	6,189 %	5,707 %	2,850 %	3,684 %	7,027 %
67	3,410 %	6,179 %	5,688 %	2,859 %	3,680 %	7,004 %
68	3,411 %	6,169 %	5,670 %	2,867 %	3,677 %	6,982 %
69	3,411 %	6,160 %	5,652 %	2,876 %	3,674 %	6,960 %
70	3,412 %	6,150 %	5,635 %	2,884 %	3,671 %	6,939 %
71	3,412 %	6,141 %	5,618 %	2,892 %	3,668 %	6,919 %
72	3,413 %	6,132 %	5,602 %	2,899 %	3,665 %	6,899 %
73	3,413 %	6,124 %	5,586 %	2,907 %	3,662 %	6,880 %
74	3,414 %	6,115 %	5,571 %	2,914 %	3,659 %	6,861 %

75	3,414 %	6,107 %	5,556 %	2,921 %	3,656 %	6,843 %
76	3,415 %	6,099 %	5,541 %	2,928 %	3,654 %	6,825 %
77	3,415 %	6,091 %	5,527 %	2,935 %	3,651 %	6,808 %
78	3,416 %	6,084 %	5,513 %	2,942 %	3,648 %	6,791 %
79	3,416 %	6,076 %	5,500 %	2,948 %	3,646 %	6,775 %
80	3,416 %	6,069 %	5,486 %	2,954 %	3,644 %	6,759 %
81	3,417 %	6,062 %	5,474 %	2,960 %	3,641 %	6,743 %
82	3,417 %	6,055 %	5,461 %	2,966 %	3,639 %	6,728 %
83	3,418 %	6,048 %	5,449 %	2,972 %	3,637 %	6,713 %
84	3,418 %	6,042 %	5,437 %	2,978 %	3,634 %	6,698 %
85	3,418 %	6,035 %	5,425 %	2,983 %	3,632 %	6,684 %
86	3,419 %	6,029 %	5,414 %	2,989 %	3,630 %	6,670 %
87	3,419 %	6,023 %	5,403 %	2,994 %	3,628 %	6,657 %
88	3,419 %	6,017 %	5,392 %	2,999 %	3,626 %	6,644 %
89	3,420 %	6,011 %	5,381 %	3,004 %	3,624 %	6,631 %
90	3,420 %	6,006 %	5,371 %	3,009 %	3,622 %	6,618 %
91	3,420 %	6,000 %	5,361 %	3,014 %	3,620 %	6,606 %
92	3,421 %	5,995 %	5,351 %	3,019 %	3,618 %	6,594 %
93	3,421 %	5,989 %	5,341 %	3,023 %	3,617 %	6,582 %
94	3,421 %	5,984 %	5,332 %	3,028 %	3,615 %	6,570 %
95	3,422 %	5,979 %	5,322 %	3,032 %	3,613 %	6,559 %
96	3,422 %	5,974 %	5,313 %	3,037 %	3,611 %	6,548 %
97	3,422 %	5,969 %	5,304 %	3,041 %	3,610 %	6,537 %
98	3,423 %	5,964 %	5,295 %	3,045 %	3,608 %	6,526 %
99	3,423 %	5,960 %	5,287 %	3,049 %	3,607 %	6,516 %
100	3,423 %	5,955 %	5,278 %	3,053 %	3,605 %	6,506 %
101	3,423 %	5,951 %	5,270 %	3,057 %	3,603 %	6,496 %
102	3,424 %	5,946 %	5,262 %	3,061 %	3,602 %	6,486 %
103	3,424 %	5,942 %	5,254 %	3,065 %	3,600 %	6,476 %
104	3,424 %	5,937 %	5,246 %	3,068 %	3,599 %	6,467 %
105	3,424 %	5,933 %	5,239 %	3,072 %	3,598 %	6,458 %
106	3,425 %	5,929 %	5,231 %	3,075 %	3,596 %	6,449 %
107	3,425 %	5,925 %	5,224 %	3,079 %	3,595 %	6,440 %
108	3,425 %	5,921 %	5,217 %	3,082 %	3,593 %	6,431 %
109	3,425 %	5,917 %	5,210 %	3,086 %	3,592 %	6,422 %
110	3,426 %	5,914 %	5,203 %	3,089 %	3,591 %	6,414 %
111	3,426 %	5,910 %	5,196 %	3,092 %	3,590 %	6,406 %
112	3,426 %	5,906 %	5,189 %	3,095 %	3,588 %	6,398 %

113	3,426 %	5,903 %	5,183 %	3,099 %	3,587 %	6,390 %
114	3,426 %	5,899 %	5,176 %	3,102 %	3,586 %	6,382 %
115	3,427 %	5,896 %	5,170 %	3,105 %	3,585 %	6,374 %
116	3,427 %	5,892 %	5,164 %	3,108 %	3,584 %	6,366 %
117	3,427 %	5,889 %	5,158 %	3,111 %	3,582 %	6,359 %
118	3,427 %	5,885 %	5,152 %	3,113 %	3,581 %	6,352 %
119	3,427 %	5,882 %	5,146 %	3,116 %	3,580 %	6,345 %
120	3,428 %	5,879 %	5,140 %	3,119 %	3,579 %	6,337 %
121	3,428 %	5,876 %	5,134 %	3,122 %	3,578 %	6,331 %
122	3,428 %	5,873 %	5,129 %	3,124 %	3,577 %	6,324 %
123	3,428 %	5,870 %	5,123 %	3,127 %	3,576 %	6,317 %
124	3,428 %	5,867 %	5,118 %	3,130 %	3,575 %	6,310 %
125	3,429 %	5,864 %	5,112 %	3,132 %	3,574 %	6,304 %
126	3,429 %	5,861 %	5,107 %	3,135 %	3,573 %	6,297 %
127	3,429 %	5,858 %	5,102 %	3,137 %	3,572 %	6,291 %
128	3,429 %	5,855 %	5,097 %	3,140 %	3,571 %	6,285 %
129	3,429 %	5,853 %	5,092 %	3,142 %	3,570 %	6,279 %
130	3,429 %	5,850 %	5,087 %	3,144 %	3,569 %	6,273 %
131	3,429 %	5,847 %	5,082 %	3,147 %	3,568 %	6,267 %
132	3,430 %	5,845 %	5,077 %	3,149 %	3,567 %	6,261 %
133	3,430 %	5,842 %	5,072 %	3,151 %	3,567 %	6,255 %
134	3,430 %	5,839 %	5,068 %	3,154 %	3,566 %	6,250 %
135	3,430 %	5,837 %	5,063 %	3,156 %	3,565 %	6,244 %
136	3,430 %	5,834 %	5,059 %	3,158 %	3,564 %	6,239 %
137	3,430 %	5,832 %	5,054 %	3,160 %	3,563 %	6,233 %
138	3,431 %	5,830 %	5,050 %	3,162 %	3,562 %	6,228 %
139	3,431 %	5,827 %	5,045 %	3,164 %	3,561 %	6,223 %
140	3,431 %	5,825 %	5,041 %	3,166 %	3,561 %	6,217 %
141	3,431 %	5,823 %	5,037 %	3,168 %	3,560 %	6,212 %
142	3,431 %	5,820 %	5,033 %	3,170 %	3,559 %	6,207 %
143	3,431 %	5,818 %	5,029 %	3,172 %	3,558 %	6,202 %
144	3,431 %	5,816 %	5,025 %	3,174 %	3,558 %	6,197 %
145	3,431 %	5,814 %	5,021 %	3,176 %	3,557 %	6,193 %
146	3,432 %	5,811 %	5,017 %	3,178 %	3,556 %	6,188 %
147	3,432 %	5,809 %	5,013 %	3,180 %	3,555 %	6,183 %
148	3,432 %	5,807 %	5,009 %	3,182 %	3,555 %	6,179 %
149	3,432 %	5,805 %	5,005 %	3,183 %	3,554 %	6,174 %
150	3,432 %	5,803 %	5,002 %	3,185 %	3,553 %	6,169 %

Term to maturity (in years)	Real	Renminbi-yuan	Ringgit	Russian rouble	Singapore dollar	South Korean won
1	13,438 %	2,076 %	2,973 %	11,291 %	2,594 %	3,122 %
2	12,559 %	2,220 %	3,292 %	9,760 %	2,746 %	3,421 %
3	12,404 %	2,355 %	3,594 %	9,077 %	2,844 %	3,480 %
4	12,426 %	2,470 %	3,859 %	8,791 %	2,891 %	3,457 %
5	12,521 %	2,566 %	4,039 %	8,686 %	2,917 %	3,412 %
6	12,633 %	2,643 %	4,160 %	8,667 %	2,935 %	3,355 %
7	12,736 %	2,709 %	4,250 %	8,689 %	2,951 %	3,309 %
8	12,830 %	2,769 %	4,324 %	8,732 %	2,966 %	3,285 %
9	12,933 %	2,826 %	4,398 %	8,791 %	2,981 %	3,261 %
10	13,024 %	2,882 %	4,477 %	8,839 %	2,997 %	3,222 %
11	13,056 %	2,937 %	4,558 %	8,876 %	3,013 %	3,161 %
12	13,032 %	2,990 %	4,637 %	8,898 %	3,030 %	3,086 %
13	12,966 %	3,042 %	4,711 %	8,903 %	3,046 %	3,007 %
14	12,866 %	3,092 %	4,781 %	8,888 %	3,063 %	2,930 %
15	12,742 %	3,140 %	4,846 %	8,852 %	3,078 %	2,857 %
16	12,599 %	3,186 %	4,904 %	8,800 %	3,093 %	2,791 %
17	12,443 %	3,230 %	4,955 %	8,735 %	3,107 %	2,734 %
18	12,277 %	3,272 %	4,998 %	8,662 %	3,121 %	2,687 %
19	12,105 %	3,312 %	5,031 %	8,582 %	3,133 %	2,649 %
20	11,930 %	3,350 %	5,053 %	8,498 %	3,145 %	2,622 %
21	11,753 %	3,386 %	5,063 %	8,412 %	3,155 %	2,605 %
22	11,576 %	3,421 %	5,062 %	8,325 %	3,165 %	2,596 %
23	11,402 %	3,454 %	5,054 %	8,238 %	3,175 %	2,593 %
24	11,230 %	3,485 %	5,040 %	8,151 %	3,183 %	2,595 %
25	11,062 %	3,515 %	5,021 %	8,065 %	3,191 %	2,601 %
26	10,899 %	3,543 %	4,998 %	7,982 %	3,199 %	2,609 %
27	10,740 %	3,571 %	4,973 %	7,900 %	3,206 %	2,619 %
28	10,587 %	3,596 %	4,946 %	7,820 %	3,213 %	2,631 %
29	10,439 %	3,621 %	4,917 %	7,743 %	3,219 %	2,644 %
30	10,297 %	3,645 %	4,888 %	7,669 %	3,225 %	2,658 %
31	10,159 %	3,667 %	4,858 %	7,597 %	3,231 %	2,673 %
32	10,028 %	3,689 %	4,828 %	7,527 %	3,236 %	2,687 %
33	9,901 %	3,710 %	4,798 %	7,460 %	3,241 %	2,702 %
34	9,780 %	3,729 %	4,769 %	7,396 %	3,246 %	2,717 %
35	9,664 %	3,748 %	4,740 %	7,334 %	3,251 %	2,732 %
36	9,553 %	3,766 %	4,712 %	7,275 %	3,256 %	2,747 %

37	9,446 %	3,784 %	4,684 %	7,218 %	3,260 %	2,761 %
38	9,344 %	3,801 %	4,657 %	7,163 %	3,264 %	2,775 %
39	9,247 %	3,817 %	4,630 %	7,111 %	3,268 %	2,789 %
40	9,153 %	3,832 %	4,605 %	7,060 %	3,272 %	2,803 %
41	9,063 %	3,847 %	4,580 %	7,011 %	3,275 %	2,816 %
42	8,977 %	3,861 %	4,556 %	6,965 %	3,279 %	2,829 %
43	8,895 %	3,874 %	4,532 %	6,920 %	3,282 %	2,841 %
44	8,816 %	3,888 %	4,510 %	6,877 %	3,286 %	2,854 %
45	8,740 %	3,900 %	4,488 %	6,836 %	3,289 %	2,865 %
46	8,667 %	3,912 %	4,467 %	6,796 %	3,292 %	2,877 %
47	8,597 %	3,924 %	4,446 %	6,758 %	3,295 %	2,888 %
48	8,530 %	3,935 %	4,427 %	6,721 %	3,298 %	2,899 %
49	8,465 %	3,946 %	4,408 %	6,685 %	3,300 %	2,909 %
50	8,403 %	3,957 %	4,389 %	6,651 %	3,303 %	2,919 %
51	8,343 %	3,967 %	4,372 %	6,618 %	3,305 %	2,929 %
52	8,286 %	3,977 %	4,354 %	6,587 %	3,308 %	2,938 %
53	8,230 %	3,986 %	4,338 %	6,556 %	3,310 %	2,948 %
54	8,177 %	3,995 %	4,322 %	6,527 %	3,313 %	2,956 %
55	8,125 %	4,004 %	4,306 %	6,498 %	3,315 %	2,965 %
56	8,075 %	4,013 %	4,291 %	6,471 %	3,317 %	2,973 %
57	8,027 %	4,021 %	4,277 %	6,444 %	3,319 %	2,981 %
58	7,981 %	4,029 %	4,263 %	6,418 %	3,321 %	2,989 %
59	7,936 %	4,037 %	4,249 %	6,394 %	3,323 %	2,997 %
60	7,892 %	4,044 %	4,236 %	6,370 %	3,325 %	3,004 %
61	7,850 %	4,052 %	4,223 %	6,346 %	3,327 %	3,011 %
62	7,810 %	4,059 %	4,211 %	6,324 %	3,329 %	3,018 %
63	7,770 %	4,066 %	4,199 %	6,302 %	3,331 %	3,025 %
64	7,732 %	4,072 %	4,187 %	6,281 %	3,332 %	3,031 %
65	7,695 %	4,079 %	4,176 %	6,260 %	3,334 %	3,038 %
66	7,659 %	4,085 %	4,165 %	6,240 %	3,336 %	3,044 %
67	7,624 %	4,091 %	4,154 %	6,221 %	3,337 %	3,050 %
68	7,591 %	4,097 %	4,144 %	6,202 %	3,339 %	3,056 %
69	7,558 %	4,103 %	4,134 %	6,184 %	3,340 %	3,061 %
70	7,526 %	4,108 %	4,124 %	6,166 %	3,342 %	3,067 %
71	7,495 %	4,114 %	4,115 %	6,149 %	3,343 %	3,072 %
72	7,465 %	4,119 %	4,105 %	6,133 %	3,345 %	3,077 %
73	7,436 %	4,124 %	4,096 %	6,116 %	3,346 %	3,082 %
74	7,407 %	4,129 %	4,088 %	6,100 %	3,347 %	3,087 %

75	7,380 %	4,134 %	4,079 %	6,085 %	3,349 %	3,092 %
76	7,353 %	4,139 %	4,071 %	6,070 %	3,350 %	3,097 %
77	7,327 %	4,144 %	4,063 %	6,055 %	3,351 %	3,101 %
78	7,301 %	4,148 %	4,055 %	6,041 %	3,352 %	3,106 %
79	7,276 %	4,153 %	4,047 %	6,027 %	3,354 %	3,110 %
80	7,252 %	4,157 %	4,040 %	6,014 %	3,355 %	3,114 %
81	7,228 %	4,161 %	4,032 %	6,001 %	3,356 %	3,119 %
82	7,205 %	4,165 %	4,025 %	5,988 %	3,357 %	3,123 %
83	7,183 %	4,169 %	4,018 %	5,975 %	3,358 %	3,127 %
84	7,161 %	4,173 %	4,012 %	5,963 %	3,359 %	3,130 %
85	7,139 %	4,177 %	4,005 %	5,951 %	3,360 %	3,134 %
86	7,118 %	4,181 %	3,999 %	5,939 %	3,361 %	3,138 %
87	7,098 %	4,184 %	3,992 %	5,928 %	3,362 %	3,141 %
88	7,078 %	4,188 %	3,986 %	5,917 %	3,363 %	3,145 %
89	7,058 %	4,191 %	3,980 %	5,906 %	3,364 %	3,148 %
90	7,039 %	4,195 %	3,974 %	5,895 %	3,365 %	3,152 %
91	7,020 %	4,198 %	3,968 %	5,885 %	3,366 %	3,155 %
92	7,002 %	4,201 %	3,963 %	5,874 %	3,367 %	3,158 %
93	6,984 %	4,205 %	3,957 %	5,864 %	3,368 %	3,161 %
94	6,966 %	4,208 %	3,952 %	5,855 %	3,369 %	3,164 %
95	6,949 %	4,211 %	3,946 %	5,845 %	3,369 %	3,167 %
96	6,933 %	4,214 %	3,941 %	5,836 %	3,370 %	3,170 %
97	6,916 %	4,217 %	3,936 %	5,827 %	3,371 %	3,173 %
98	6,900 %	4,220 %	3,931 %	5,818 %	3,372 %	3,176 %
99	6,884 %	4,222 %	3,926 %	5,809 %	3,373 %	3,179 %
100	6,869 %	4,225 %	3,922 %	5,800 %	3,373 %	3,181 %
101	6,854 %	4,228 %	3,917 %	5,792 %	3,374 %	3,184 %
102	6,839 %	4,231 %	3,912 %	5,783 %	3,375 %	3,187 %
103	6,824 %	4,233 %	3,908 %	5,775 %	3,376 %	3,189 %
104	6,810 %	4,236 %	3,903 %	5,767 %	3,376 %	3,192 %
105	6,796 %	4,238 %	3,899 %	5,760 %	3,377 %	3,194 %
106	6,782 %	4,241 %	3,895 %	5,752 %	3,378 %	3,197 %
107	6,769 %	4,243 %	3,891 %	5,744 %	3,378 %	3,199 %
108	6,756 %	4,246 %	3,887 %	5,737 %	3,379 %	3,201 %
109	6,743 %	4,248 %	3,883 %	5,730 %	3,380 %	3,204 %
110	6,730 %	4,250 %	3,879 %	5,723 %	3,380 %	3,206 %
111	6,717 %	4,252 %	3,875 %	5,716 %	3,381 %	3,208 %
112	6,705 %	4,255 %	3,871 %	5,709 %	3,381 %	3,210 %

113	6,693 %	4,257 %	3,867 %	5,702 %	3,382 %	3,212 %
114	6,681 %	4,259 %	3,864 %	5,695 %	3,383 %	3,214 %
115	6,669 %	4,261 %	3,860 %	5,689 %	3,383 %	3,216 %
116	6,658 %	4,263 %	3,856 %	5,683 %	3,384 %	3,218 %
117	6,647 %	4,265 %	3,853 %	5,676 %	3,384 %	3,220 %
118	6,636 %	4,267 %	3,850 %	5,670 %	3,385 %	3,222 %
119	6,625 %	4,269 %	3,846 %	5,664 %	3,385 %	3,224 %
120	6,614 %	4,271 %	3,843 %	5,658 %	3,386 %	3,226 %
121	6,604 %	4,273 %	3,840 %	5,652 %	3,386 %	3,228 %
122	6,593 %	4,275 %	3,836 %	5,646 %	3,387 %	3,230 %
123	6,583 %	4,277 %	3,833 %	5,641 %	3,388 %	3,232 %
124	6,573 %	4,278 %	3,830 %	5,635 %	3,388 %	3,233 %
125	6,563 %	4,280 %	3,827 %	5,630 %	3,389 %	3,235 %
126	6,554 %	4,282 %	3,824 %	5,624 %	3,389 %	3,237 %
127	6,544 %	4,284 %	3,821 %	5,619 %	3,389 %	3,238 %
128	6,535 %	4,285 %	3,818 %	5,614 %	3,390 %	3,240 %
129	6,525 %	4,287 %	3,815 %	5,608 %	3,390 %	3,242 %
130	6,516 %	4,289 %	3,813 %	5,603 %	3,391 %	3,243 %
131	6,507 %	4,290 %	3,810 %	5,598 %	3,391 %	3,245 %
132	6,499 %	4,292 %	3,807 %	5,593 %	3,392 %	3,246 %
133	6,490 %	4,293 %	3,804 %	5,589 %	3,392 %	3,248 %
134	6,481 %	4,295 %	3,802 %	5,584 %	3,393 %	3,249 %
135	6,473 %	4,296 %	3,799 %	5,579 %	3,393 %	3,251 %
136	6,465 %	4,298 %	3,797 %	5,575 %	3,393 %	3,252 %
137	6,456 %	4,299 %	3,794 %	5,570 %	3,394 %	3,254 %
138	6,448 %	4,301 %	3,792 %	5,565 %	3,394 %	3,255 %
139	6,440 %	4,302 %	3,789 %	5,561 %	3,395 %	3,257 %
140	6,433 %	4,304 %	3,787 %	5,557 %	3,395 %	3,258 %
141	6,425 %	4,305 %	3,784 %	5,552 %	3,395 %	3,259 %
142	6,417 %	4,306 %	3,782 %	5,548 %	3,396 %	3,261 %
143	6,410 %	4,308 %	3,780 %	5,544 %	3,396 %	3,262 %
144	6,402 %	4,309 %	3,777 %	5,540 %	3,397 %	3,263 %
145	6,395 %	4,310 %	3,775 %	5,536 %	3,397 %	3,265 %
146	6,388 %	4,312 %	3,773 %	5,532 %	3,397 %	3,266 %
147	6,381 %	4,313 %	3,771 %	5,528 %	3,398 %	3,267 %
148	6,374 %	4,314 %	3,768 %	5,524 %	3,398 %	3,268 %
149	6,367 %	4,315 %	3,766 %	5,520 %	3,398 %	3,270 %
150	6,360 %	4,317 %	3,764 %	5,516 %	3,399 %	3,271 %

Term to maturity (in years)	Turkish lira	US dollar	Yen
1	23,252 %	3,218 %	- 0,208 %
2	25,455 %	3,208 %	- 0,182 %
3	26,574 %	3,058 %	- 0,164 %
4	26,628 %	3,015 %	- 0,125 %
5	25,815 %	2,984 %	- 0,064 %
6	24,269 %	2,984 %	0,005 %
7	22,133 %	2,983 %	0,068 %
8	19,564 %	2,983 %	0,123 %
9	16,695 %	2,992 %	0,175 %
10	14,486 %	3,014 %	0,232 %
11	12,882 %	3,034 %	0,296 %
12	11,681 %	3,052 %	0,365 %
13	10,760 %	3,072 %	0,435 %
14	10,039 %	3,092 %	0,504 %
15	9,465 %	3,109 %	0,570 %
16	9,001 %	3,121 %	0,634 %
17	8,622 %	3,126 %	0,694 %
18	8,308 %	3,124 %	0,751 %
19	8,045 %	3,113 %	0,803 %
20	7,824 %	3,093 %	0,851 %
21	7,635 %	3,063 %	0,896 %
22	7,473 %	3,028 %	0,939 %
23	7,334 %	2,992 %	0,979 %
24	7,212 %	2,958 %	1,015 %
25	7,106 %	2,927 %	1,047 %
26	7,012 %	2,902 %	1,074 %
27	6,929 %	2,879 %	1,100 %
28	6,856 %	2,854 %	1,125 %
29	6,790 %	2,825 %	1,152 %
30	6,730 %	2,789 %	1,181 %
31	6,677 %	2,746 %	1,214 %
32	6,628 %	2,697 %	1,250 %
33	6,584 %	2,646 %	1,288 %
34	6,543 %	2,594 %	1,327 %
35	6,506 %	2,543 %	1,366 %
36	6,471 %	2,494 %	1,407 %
37	6,440 %	2,447 %	1,447 %

38	6,410 %	2,403 %	1,486 %
39	6,383 %	2,363 %	1,526 %
40	6,357 %	2,326 %	1,565 %
41	6,333 %	2,293 %	1,603 %
42	6,311 %	2,264 %	1,640 %
43	6,290 %	2,238 %	1,676 %
44	6,270 %	2,216 %	1,712 %
45	6,251 %	2,198 %	1,746 %
46	6,233 %	2,183 %	1,780 %
47	6,216 %	2,171 %	1,812 %
48	6,200 %	2,163 %	1,844 %
49	6,185 %	2,159 %	1,875 %
50	6,171 %	2,157 %	1,905 %
51	6,157 %	2,159 %	1,934 %
52	6,144 %	2,164 %	1,962 %
53	6,131 %	2,170 %	1,989 %
54	6,119 %	2,179 %	2,015 %
55	6,107 %	2,189 %	2,041 %
56	6,096 %	2,200 %	2,066 %
57	6,085 %	2,212 %	2,090 %
58	6,075 %	2,225 %	2,113 %
59	6,065 %	2,238 %	2,136 %
60	6,055 %	2,251 %	2,158 %
61	6,046 %	2,265 %	2,179 %
62	6,037 %	2,280 %	2,200 %
63	6,028 %	2,294 %	2,220 %
64	6,020 %	2,308 %	2,240 %
65	6,012 %	2,322 %	2,259 %
66	6,004 %	2,336 %	2,277 %
67	5,996 %	2,350 %	2,295 %
68	5,989 %	2,364 %	2,312 %
69	5,982 %	2,378 %	2,329 %
70	5,975 %	2,392 %	2,346 %
71	5,968 %	2,405 %	2,362 %
72	5,961 %	2,418 %	2,377 %
73	5,955 %	2,431 %	2,393 %
74	5,949 %	2,444 %	2,407 %
75	5,943 %	2,456 %	2,422 %

76	5,937 %	2,469 %	2,436 %
77	5,931 %	2,481 %	2,449 %
78	5,926 %	2,492 %	2,463 %
79	5,920 %	2,504 %	2,476 %
80	5,915 %	2,515 %	2,489 %
81	5,910 %	2,526 %	2,501 %
82	5,905 %	2,537 %	2,513 %
83	5,900 %	2,548 %	2,525 %
84	5,895 %	2,558 %	2,536 %
85	5,891 %	2,569 %	2,548 %
86	5,886 %	2,579 %	2,559 %
87	5,882 %	2,588 %	2,569 %
88	5,877 %	2,598 %	2,580 %
89	5,873 %	2,607 %	2,590 %
90	5,869 %	2,617 %	2,600 %
91	5,865 %	2,626 %	2,610 %
92	5,861 %	2,634 %	2,620 %
93	5,857 %	2,643 %	2,629 %
94	5,853 %	2,652 %	2,638 %
95	5,849 %	2,660 %	2,647 %
96	5,846 %	2,668 %	2,656 %
97	5,842 %	2,676 %	2,665 %
98	5,839 %	2,684 %	2,673 %
99	5,835 %	2,691 %	2,682 %
100	5,832 %	2,699 %	2,690 %
101	5,829 %	2,706 %	2,698 %
102	5,825 %	2,714 %	2,706 %
103	5,822 %	2,721 %	2,713 %
104	5,819 %	2,728 %	2,721 %
105	5,816 %	2,735 %	2,728 %
106	5,813 %	2,741 %	2,735 %
107	5,810 %	2,748 %	2,743 %
108	5,807 %	2,754 %	2,750 %
109	5,804 %	2,761 %	2,756 %
110	5,802 %	2,767 %	2,763 %
111	5,799 %	2,773 %	2,770 %
112	5,796 %	2,779 %	2,776 %
113	5,794 %	2,785 %	2,783 %

114	5,791 %	2,791 %	2,789 %
115	5,788 %	2,796 %	2,795 %
116	5,786 %	2,802 %	2,801 %
117	5,784 %	2,808 %	2,807 %
118	5,781 %	2,813 %	2,813 %
119	5,779 %	2,818 %	2,819 %
120	5,776 %	2,824 %	2,824 %
121	5,774 %	2,829 %	2,830 %
122	5,772 %	2,834 %	2,835 %
123	5,770 %	2,839 %	2,841 %
124	5,768 %	2,844 %	2,846 %
125	5,765 %	2,849 %	2,851 %
126	5,763 %	2,853 %	2,856 %
127	5,761 %	2,858 %	2,861 %
128	5,759 %	2,863 %	2,866 %
129	5,757 %	2,867 %	2,871 %
130	5,755 %	2,872 %	2,876 %
131	5,753 %	2,876 %	2,881 %
132	5,751 %	2,880 %	2,886 %
133	5,749 %	2,885 %	2,890 %
134	5,748 %	2,889 %	2,895 %
135	5,746 %	2,893 %	2,899 %
136	5,744 %	2,897 %	2,904 %
137	5,742 %	2,901 %	2,908 %
138	5,740 %	2,905 %	2,912 %
139	5,739 %	2,909 %	2,916 %
140	5,737 %	2,913 %	2,921 %
141	5,735 %	2,917 %	2,925 %
142	5,734 %	2,920 %	2,929 %
143	5,732 %	2,924 %	2,933 %
144	5,730 %	2,928 %	2,937 %
145	5,729 %	2,931 %	2,941 %
146	5,727 %	2,935 %	2,944 %
147	5,726 %	2,938 %	2,948 %
148	5,724 %	2,942 %	2,952 %
149	5,723 %	2,945 %	2,956 %
150	5,721 %	2,949 %	2,959 %

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	29	5	0	23	0
2	0	0	36	5	0	38	0
3	0	0	41	5	0	43	0
4	0	2	44	5	2	44	0
5	0	3	48	5	3	47	0
6	0	4	51	5	6	49	0
7	1	5	53	5	8	51	0
8	2	6	55	5	10	50	0
9	3	7	57	5	11	48	0
10	3	7	58	5	12	47	0

Duration (in years)	Estonia	Finland	France	Germany	Greece	Hungary	Ireland
1	0	0	0	0	361	4	14
2	0	0	0	0	225	4	20
3	0	0	0	0	200	4	22
4	2	0	0	0	175	4	23
5	3	0	0	0	161	4	25
6	4	0	0	0	159	4	26
7	5	0	0	0	156	4	27
8	6	0	1	0	160	3	28
9	7	0	2	0	162	1	28
10	7	0	3	0	164	4	28

Duration (in years)	Italy	Latvia	Lithuania	Luxembourg	Malta	Netherlands	Poland
1	6	4	5	0	14	0	4
2	14	10	10	0	20	0	4
3	18	13	14	0	22	0	4
4	21	14	16	0	23	0	4
5	23	16	18	0	25	0	4

6	25	18	19	0	26	0	4
7	27	19	21	0	27	0	4
8	28	20	22	0	28	0	4
9	30	21	23	1	28	0	4
10	31	22	24	2	28	0	4

Duration (in years)	Portugal	Romania	Slovakia	Slovenia	Spain	Sweden	United Kingdom
1	23	9	11	16	5	0	0
2	38	16	14	19	10	0	0
3	43	18	16	23	14	0	0
4	44	19	17	27	16	0	0
5	47	20	19	31	18	0	0
6	49	21	20	34	19	0	0
7	51	23	21	35	21	0	0
8	50	24	23	37	22	0	0
9	48	25	23	37	23	0	0
10	47	23	23	37	24	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	18
3	0	0	0	0	12	0	17
4	0	0	0	0	12	0	17
5	0	0	0	0	12	0	15
6	0	0	0	0	12	0	15
7	0	0	0	0	12	0	14
8	0	0	0	0	12	0	14
9	0	0	0	0	12	0	15
10	0	0	0	0	12	0	13

Duration (in years)	China	Colombia	Hong Kong	India	Japan	Malaysia	Mexico
1	0	12	0	10	0	0	9
2	1	18	0	10	0	0	9
3	2	27	0	10	0	0	10
4	3	34	0	10	0	0	10

5	3	36	0	10	0	0	10
6	4	39	0	10	0	0	10
7	4	41	0	10	0	0	10
8	7	39	0	10	0	0	10
9	5	36	0	10	1	0	10
10	5	39	0	10	1	0	10

Duration (in years)	New Zealand	Russia	Singapore	South Africa	South Korea	Thailand	Taiwan
1	0	0	0	7	9	1	4
2	0	0	0	10	11	0	4
3	0	0	0	11	12	0	4
4	0	0	0	11	14	0	4
5	0	2	0	12	15	0	4
6	0	5	0	13	15	0	4
7	0	7	0	15	16	0	4
8	0	11	0	17	16	0	4
9	0	17	0	18	16	0	4
10	0	17	0	20	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	7	19	42	112	224	520	1 241
2	7	19	42	112	224	520	1 000
3	8	22	44	106	220	516	815
4	9	24	47	108	219	515	674
5	10	26	51	111	219	515	566
6	11	29	55	116	219	515	515
7	13	31	57	119	219	515	515
8	13	31	57	118	219	515	515
9	13	32	57	117	219	515	515
10	13	33	57	117	219	515	515
11	14	35	57	117	219	515	515
12	14	35	57	117	219	515	515
13	15	36	57	117	219	515	515
14	15	36	57	117	219	515	515
15	15	36	57	117	219	515	515
16	15	36	57	117	219	515	515
17	15	36	57	117	219	515	515
18	15	36	57	117	219	515	515
19	15	36	57	117	219	515	515
20	15	36	57	117	219	515	515
21	17	36	57	117	219	515	515
22	17	36	57	117	219	515	515
23	18	36	57	117	219	515	515
24	19	36	57	117	219	515	515
25	19	36	57	117	219	515	515
26	20	36	57	117	219	515	515
27	20	36	57	117	219	515	515
28	21	36	57	117	219	515	515
29	22	36	57	117	219	515	515
30	23	36	57	117	219	515	515

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	17	29	52	122	234	530	1 361
2	18	31	54	123	236	531	1 088
3	20	34	56	118	232	528	879
4	20	36	58	120	231	527	722
5	21	37	62	122	230	526	603
6	22	39	65	126	230	525	525
7	22	40	66	128	229	524	524
8	21	40	65	127	228	524	524
9	21	41	65	125	228	523	523
10	21	41	65	125	227	523	523
11	21	42	64	125	227	522	522
12	21	42	64	124	226	522	522
13	21	42	63	123	225	521	521
14	20	42	63	123	225	520	520
15	20	41	62	122	224	520	520
16	19	41	62	122	224	520	520
17	19	41	62	122	224	519	519
18	19	41	62	122	224	519	519
19	19	41	62	122	224	519	519
20	20	41	62	122	224	520	520
21	20	41	62	123	225	520	520
22	20	42	63	123	225	520	520
23	20	42	63	123	225	520	520
24	20	42	63	123	225	520	520
25	20	42	63	123	225	520	520
26	20	42	63	123	225	520	520
27	22	42	62	123	225	520	520
28	22	41	62	123	225	520	520
29	23	41	62	122	224	520	520
30	23	41	62	122	224	520	520

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	19	42	111	224	519	1 241
2	6	19	42	111	224	519	1 000
3	7	21	44	106	220	516	814

4	9	24	46	108	219	515	674
5	10	26	51	111	219	515	566
6	11	28	55	116	219	515	515
7	12	31	56	119	219	515	515
8	12	31	56	118	219	515	515
9	13	32	56	117	219	515	515
10	13	33	57	117	219	515	515
11	14	34	57	117	219	515	515
12	14	35	57	117	219	515	515
13	14	36	57	117	219	515	515
14	15	36	57	117	219	515	515
15	15	36	57	117	219	515	515
16	15	36	57	117	219	515	515
17	15	36	57	117	219	515	515
18	15	36	57	117	219	515	515
19	15	36	57	117	219	515	515
20	15	36	57	117	219	515	515
21	17	36	57	117	219	515	515
22	17	36	57	117	219	515	515
23	18	36	57	117	219	515	515
24	18	36	57	117	219	515	515
25	19	36	57	117	219	515	515
26	20	36	57	117	219	515	515
27	20	36	57	117	219	515	515
28	21	36	57	117	219	515	515
29	22	36	57	117	219	515	515
30	23	36	57	117	219	515	515

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	77	90	113	182	295	590	1 367
2	74	87	110	179	292	587	1103
3	78	92	114	176	291	586	899
4	77	92	115	177	288	584	744
5	77	93	118	178	286	582	625
6	77	94	120	181	285	580	580
7	76	94	120	182	283	578	578
8	75	94	119	180	282	577	577
9	74	94	118	179	281	577	577
10	72	92	115	175	278	573	573

11	70	91	113	173	275	571	571
12	69	90	112	172	274	570	570
13	69	90	111	171	273	569	569
14	69	90	111	171	273	569	569
15	68	90	111	171	273	568	568
16	68	89	110	170	272	568	568
17	67	89	110	170	272	568	568
18	67	88	109	169	271	567	567
19	66	88	109	169	271	566	566
20	66	87	108	168	270	566	566
21	65	86	107	168	270	565	565
22	64	86	107	167	269	564	564
23	63	85	106	166	268	564	564
24	62	84	105	165	267	563	563
25	61	83	104	164	266	562	562
26	60	82	103	163	265	561	561
27	59	81	102	162	264	560	560
28	58	80	101	161	263	558	558
29	57	79	100	160	262	557	557
30	56	78	99	159	261	556	556

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	11	23	47	116	228	524	1 272
2	12	25	48	117	230	525	1 020
3	14	28	50	113	227	523	829
4	16	31	54	115	227	522	685
5	18	34	59	119	227	522	575
6	19	36	62	124	227	522	522
7	20	38	64	126	226	522	522
8	19	38	63	124	226	522	522
9	19	39	63	123	226	521	521
10	19	39	63	123	225	521	521
11	20	40	63	123	225	521	521
12	20	41	63	123	225	521	521
13	20	42	63	123	225	521	521
14	21	42	63	123	225	521	521
15	21	42	63	123	225	521	521
16	21	42	63	123	225	521	521
17	21	42	63	123	225	521	521

18	21	42	63	123	225	521	521
19	21	43	64	124	226	521	521
20	22	43	64	124	226	522	522
21	22	43	64	125	227	522	522
22	22	44	65	125	227	522	522
23	22	44	65	125	227	523	523
24	22	44	65	125	227	523	523
25	22	44	65	125	227	523	523
26	22	44	65	125	227	523	523
27	22	44	65	125	227	523	523
28	22	44	65	125	227	522	522
29	22	44	65	125	227	522	522
30	23	43	64	125	227	522	522

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	46	59	82	151	264	559	1 241
2	50	63	86	155	267	563	1002
3	55	69	91	153	268	563	819
4	58	74	96	158	269	565	679
5	61	77	102	162	270	565	572
6	62	79	105	167	270	566	566
7	63	81	107	169	270	565	565
8	62	81	106	167	269	564	564
9	61	81	105	166	268	563	563
10	61	81	104	164	267	562	562
11	60	81	103	163	265	561	561
12	59	80	102	162	264	560	560
13	58	80	101	161	263	559	559
14	57	79	100	160	262	558	558
15	56	78	99	159	261	557	557
16	56	77	98	158	260	556	556
17	55	76	97	158	260	555	555
18	54	76	97	157	259	555	555
19	54	75	96	157	259	554	554
20	54	75	96	156	258	554	554
21	53	74	95	155	258	553	553
22	52	74	95	155	257	552	552
23	52	73	94	154	256	552	552
24	51	72	93	153	255	551	551

25	50	71	92	152	255	550	550
26	49	71	92	152	254	549	549
27	48	70	91	151	253	549	549
28	48	69	90	150	252	548	548
29	47	68	89	149	251	547	547
30	46	67	88	148	251	546	546

2.7. Lev

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	6	19	42	111	223	519	1 240
2	6	19	42	111	223	519	999
3	7	21	43	105	220	515	814
4	8	23	46	107	219	514	673
5	9	26	51	111	218	514	565
6	10	28	54	115	218	514	514
7	12	30	56	118	218	514	514
8	12	31	56	117	218	514	514
9	12	31	56	116	218	514	514
10	12	33	56	116	218	514	514
11	13	34	56	116	218	514	514
12	13	34	56	116	218	514	514
13	14	35	56	116	218	514	514
14	14	35	56	116	218	514	514
15	14	35	56	116	218	514	514
16	14	35	56	116	218	514	514
17	14	35	56	116	218	514	514
18	14	35	56	116	218	514	514
19	15	35	56	116	218	514	514
20	15	35	56	116	218	514	514
21	17	35	56	116	218	514	514
22	17	35	56	116	218	514	514
23	18	35	56	116	218	514	514
24	18	35	56	116	219	514	514
25	19	35	56	116	219	514	514
26	20	35	56	117	219	514	514
27	20	35	56	117	219	514	514
28	21	35	56	117	219	514	514
29	22	35	56	117	219	514	514
30	23	35	56	117	219	514	514

2.8. *Pound sterling*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	8	24	52	141	242	538	1 275
2	8	24	52	141	242	538	1 023
3	9	26	52	129	238	534	831
4	10	28	54	120	237	532	686
5	12	30	56	110	235	531	575
6	14	33	59	104	234	530	530
7	16	36	60	98	233	529	529
8	18	38	59	91	232	528	528
9	20	44	62	86	231	527	527
10	20	44	60	84	230	526	526
11	19	43	59	84	230	525	525
12	18	43	60	86	229	524	524
13	18	43	60	86	228	524	524
14	19	43	60	86	227	523	523
15	19	43	60	86	227	522	522
16	19	43	60	86	225	521	521
17	19	43	60	86	224	520	520
18	19	43	60	86	224	520	520
19	19	43	60	86	224	519	519
20	19	43	60	86	224	520	520
21	19	43	60	86	224	520	520
22	19	43	60	86	224	520	520
23	19	43	60	86	223	519	519
24	19	43	60	86	223	518	518
25	19	43	60	86	222	518	518
26	20	43	60	86	222	517	517
27	20	43	60	86	221	517	517
28	21	43	60	86	220	516	516
29	22	43	60	86	220	516	516
30	23	43	60	86	219	515	515

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	84	97	120	189	302	597	1 386
2	83	96	119	188	300	596	1 122
3	83	97	119	181	296	591	913

4	82	97	120	182	293	588	752
5	81	97	122	182	290	586	629
6	81	98	124	185	289	584	584
7	80	98	124	186	286	582	582
8	77	96	121	183	284	580	580
9	76	95	119	180	282	578	578
10	75	95	118	179	281	576	576
11	74	95	117	177	279	575	575
12	73	94	116	176	278	574	574
13	72	93	114	174	276	572	572
14	71	92	113	173	275	571	571
15	69	91	112	172	274	569	569
16	68	90	111	171	273	568	568
17	67	89	110	170	272	567	567
18	66	88	109	169	271	566	566
19	65	87	108	168	270	566	566
20	65	86	107	167	269	565	565
21	64	85	106	166	268	564	564
22	63	84	105	165	267	563	563
23	62	83	104	164	266	562	562
24	61	82	103	163	265	561	561
25	59	81	102	162	264	560	560
26	58	80	101	161	263	559	559
27	57	79	100	160	262	557	557
28	56	78	99	159	261	556	556
29	55	77	98	158	260	555	555
30	54	76	97	157	259	554	554

2.10. Złoty

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	57	70	93	162	274	570	1 364
2	56	69	92	161	274	569	1 098
3	57	71	93	155	269	565	892
4	57	72	95	156	268	563	736
5	57	73	98	158	266	562	616
6	57	74	100	161	264	560	560
7	56	74	100	162	263	559	559
8	55	74	99	160	262	557	557
9	54	73	98	158	260	556	556
10	53	73	97	157	259	555	555

11	53	74	96	156	258	554	554
12	53	74	96	156	258	553	553
13	52	74	95	155	257	553	553
14	52	73	94	154	256	552	552
15	51	73	94	154	256	552	552
16	50	72	93	153	255	551	551
17	50	71	92	153	255	550	550
18	49	71	92	152	254	550	550
19	49	70	91	152	254	549	549
20	49	70	91	151	253	549	549
21	49	70	91	151	253	549	549
22	48	70	91	151	253	548	548
23	48	69	90	150	252	548	548
24	47	68	89	150	252	547	547
25	46	68	89	149	251	546	546
26	46	67	88	148	250	546	546
27	45	66	87	147	249	545	545
28	44	66	87	147	249	544	544
29	44	65	86	146	248	544	544
30	43	64	85	145	247	543	543

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	32	44	67	137	249	545	1 287
2	32	45	68	137	250	545	1 031
3	33	47	69	131	245	541	838
4	33	48	71	132	244	539	692
5	34	50	75	135	243	538	580
6	34	51	77	139	242	538	538
7	34	52	78	140	241	537	537
8	33	52	78	139	240	536	536
9	33	52	77	137	240	535	535
10	33	53	76	137	239	535	535
11	33	53	76	136	238	534	534
12	32	54	75	136	238	533	533
13	32	53	75	135	237	533	533
14	32	53	74	134	236	532	532
15	31	53	74	134	236	531	531
16	30	52	73	133	235	531	531

17	30	52	73	133	235	530	530
18	30	51	72	132	234	530	530
19	30	51	72	132	234	530	530
20	30	51	72	132	234	530	530
21	30	51	72	132	234	530	530
22	30	51	72	132	234	530	530
23	30	51	72	132	234	530	530
24	29	51	72	132	234	530	530
25	29	51	72	132	234	529	529
26	29	50	71	131	233	529	529
27	29	50	71	131	233	529	529
28	28	50	71	131	233	528	528
29	28	49	70	130	233	528	528
30	28	49	70	130	232	528	528

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	24	93	206	501	1 221
2	1	5	25	94	207	502	981
3	2	5	27	89	203	499	798
4	2	7	29	91	202	498	660
5	4	9	34	94	202	498	555
6	4	11	38	99	202	498	498
7	5	14	39	102	202	498	498
8	7	14	39	100	202	498	498
9	7	15	39	100	202	498	498
10	8	16	40	100	202	498	498
11	9	18	41	101	203	499	499
12	9	18	40	100	202	497	497
13	10	19	40	101	203	498	498
14	11	19	40	100	202	498	498
15	12	18	39	99	201	497	497
16	13	17	38	98	200	496	496
17	13	17	38	98	200	496	496
18	14	17	38	98	200	496	496
19	14	18	39	99	201	496	496
20	15	18	39	99	201	497	497
21	16	19	39	100	202	497	497
22	17	20	39	100	202	497	497
23	18	21	39	99	202	497	497

24	18	21	39	99	201	497	497
25	19	22	39	99	201	497	497
26	19	23	39	99	201	497	497
27	20	23	39	99	201	496	496
28	20	25	40	99	201	496	496
29	21	25	41	99	201	496	496
30	23	26	42	99	201	496	496

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	45	58	81	150	263	558	1 290
2	45	58	81	150	263	558	1 038
3	46	60	82	144	259	554	845
4	47	62	84	146	257	553	698
5	47	63	88	148	256	552	585
6	47	64	91	152	255	551	551
7	48	66	92	154	254	550	550
8	47	65	91	152	253	549	549
9	46	65	90	150	253	548	548
10	46	66	89	150	252	547	547
11	46	66	89	149	251	547	547
12	45	66	88	148	250	546	546
13	45	66	88	148	250	545	545
14	45	66	87	147	249	545	545
15	44	65	86	147	249	544	544
16	43	65	86	146	248	543	543
17	43	64	85	145	247	543	543
18	42	64	85	145	247	542	542
19	42	63	84	144	246	542	542
20	42	63	84	144	246	542	542
21	41	63	84	144	246	542	542
22	41	62	83	143	245	541	541
23	40	62	83	143	245	541	541
24	40	61	82	142	244	540	540
25	39	60	81	142	244	539	539
26	38	60	81	141	243	538	538
27	38	59	80	140	242	538	538
28	37	58	79	139	241	537	537
29	36	57	78	139	241	536	536
30	35	57	78	138	240	536	536

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	18	31	54	123	235	531	1 247
2	21	34	57	126	239	534	1006
3	25	39	61	123	238	533	821
4	29	44	66	128	239	535	680
5	31	48	73	133	241	536	571
6	31	48	74	136	239	534	534
7	35	53	79	141	242	538	538
8	34	53	78	139	241	537	537
9	35	55	79	140	242	537	537
10	37	57	81	141	243	539	539
11	38	59	82	142	244	540	540
12	40	61	82	143	245	540	540
13	40	62	83	143	245	541	541
14	41	62	83	143	245	541	541
15	41	62	83	143	246	541	541
16	41	62	83	143	245	541	541
17	41	62	83	143	245	541	541
18	40	61	82	143	245	540	540
19	40	61	82	142	244	540	540
20	40	61	82	142	244	540	540
21	40	61	82	142	244	540	540
22	40	61	82	142	244	540	540
23	39	61	82	142	244	539	539
24	39	60	81	141	243	539	539
25	38	60	81	141	243	539	539
26	38	59	80	140	242	538	538
27	37	59	80	140	242	538	538
28	37	58	79	139	241	537	537
29	36	58	79	139	241	536	536
30	36	57	78	138	240	536	536

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	18	31	54	123	235	531	1 292
2	19	32	55	124	237	532	1 036
3	21	35	57	119	234	529	841

4	23	38	60	122	233	529	694
5	24	40	65	125	233	529	582
6	25	42	69	130	233	529	529
7	26	44	70	132	233	529	529
8	26	45	70	131	233	529	529
9	26	46	70	131	233	529	529
10	27	47	71	131	233	529	529
11	28	48	71	131	233	529	529
12	28	49	71	131	233	529	529
13	29	50	71	131	233	529	529
14	29	50	71	131	233	529	529
15	29	50	71	131	233	529	529
16	29	50	71	131	233	529	529
17	29	50	71	131	233	529	529
18	29	50	71	131	233	529	529
19	28	50	71	131	233	529	529
20	29	50	71	131	233	529	529
21	28	50	71	131	233	529	529
22	28	50	71	131	233	528	528
23	28	49	70	130	232	528	528
24	27	49	70	130	232	527	527
25	27	48	69	129	231	527	527
26	26	48	69	129	231	527	527
27	26	47	68	128	230	526	526
28	26	47	68	128	230	526	526
29	25	47	67	128	230	525	525
30	25	46	67	127	229	525	525

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	51	64	87	156	269	564	1 398
2	54	67	90	159	272	567	1103
3	58	72	94	156	271	566	889
4	60	75	98	160	271	566	732
5	62	79	104	164	271	567	613
6	64	81	108	169	272	568	568
7	65	83	109	171	272	568	568
8	65	84	109	170	272	567	567
9	65	85	109	170	272	567	567
10	66	86	109	170	272	567	567

11	66	87	109	169	271	567	567
12	66	87	109	169	271	567	567
13	65	87	108	168	270	566	566
14	65	86	107	167	269	565	565
15	64	86	106	167	269	564	564
16	63	85	106	166	268	564	564
17	63	84	105	165	267	563	563
18	62	84	105	165	267	562	562
19	62	83	104	164	266	562	562
20	61	82	103	163	266	561	561
21	60	82	103	163	265	560	560
22	59	81	102	162	264	560	560
23	59	80	101	161	263	559	559
24	58	79	100	160	262	558	558
25	57	78	99	159	261	557	557
26	56	77	98	158	260	556	556
27	55	76	97	157	259	555	555
28	54	75	96	156	258	554	554
29	53	74	95	155	257	553	553
30	52	73	94	155	257	552	552

2.17. Colombian peso

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	82	95	118	187	299	595	1 411
2	87	100	123	192	304	600	1 138
3	89	103	125	187	302	597	930
4	90	106	128	190	301	597	771
5	94	110	135	195	303	599	649
6	96	113	139	201	304	600	600
7	98	116	142	204	305	600	600
8	99	118	143	204	306	602	602
9	100	120	144	205	307	602	602
10	101	121	145	205	307	603	603
11	101	122	145	205	307	602	602
12	101	122	144	204	306	602	602
13	100	121	143	203	305	600	600
14	99	120	141	202	304	599	599
15	98	119	140	200	302	598	598
16	96	118	139	199	301	596	596
17	95	116	137	197	300	595	595

18	94	115	136	196	298	594	594
19	92	114	135	195	297	592	592
20	91	112	133	193	296	591	591
21	89	111	132	192	294	590	590
22	88	109	130	190	293	588	588
23	86	108	129	189	291	586	586
24	85	106	127	187	289	585	585
25	83	104	125	186	288	583	583
26	81	103	124	184	286	581	581
27	80	101	122	182	284	580	580
28	78	99	120	181	283	578	578
29	77	98	119	179	281	577	577
30	75	96	117	177	279	575	575

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	12	25	48	117	229	525	1 281
2	15	27	51	120	232	528	1 029
3	18	32	54	116	231	526	836
4	21	36	58	120	231	527	691
5	23	39	64	124	232	528	579
6	25	42	68	129	233	528	528
7	26	44	70	132	233	528	528
8	26	45	70	131	233	528	528
9	26	46	70	131	233	528	528
10	27	47	70	131	233	528	528
11	27	48	70	131	233	528	528
12	27	48	70	130	232	528	528
13	27	48	70	130	232	527	527
14	27	48	69	129	231	527	527
15	26	47	68	128	231	526	526
16	25	47	68	128	230	525	525
17	25	46	67	127	230	525	525
18	25	46	67	127	229	525	525
19	25	46	67	127	229	525	525
20	25	46	67	127	229	525	525
21	25	46	67	127	229	525	525
22	25	46	67	127	229	525	525
23	25	46	67	127	229	525	525
24	25	46	67	127	229	525	525

25	25	46	67	127	229	525	525
26	24	46	67	127	229	524	524
27	24	46	66	127	229	524	524
28	24	45	66	126	228	524	524
29	24	45	66	126	228	524	524
30	23	45	66	126	228	524	524

2.19. Indian rupee

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	95	108	131	200	312	608	1 349
2	96	109	132	201	313	609	1 087
3	97	111	134	196	310	606	886
4	99	114	137	198	310	605	733
5	100	117	142	202	310	605	616
6	101	118	145	206	309	605	605
7	102	120	146	208	309	604	604
8	102	121	146	207	309	604	604
9	101	121	145	206	308	604	604
10	100	121	144	204	307	602	602
11	99	120	143	203	305	601	601
12	98	119	141	201	303	599	599
13	97	118	139	200	302	597	597
14	95	117	138	198	300	595	595
15	94	115	136	196	298	594	594
16	92	113	134	194	296	592	592
17	90	112	133	193	295	590	590
18	89	110	131	191	293	589	589
19	87	109	130	190	292	588	588
20	86	108	129	189	291	587	587
21	85	107	128	188	290	585	585
22	84	106	127	187	289	584	584
23	83	104	125	185	288	583	583
24	82	103	124	184	286	582	582
25	80	102	123	183	285	581	581
26	79	101	122	182	284	579	579
27	78	99	120	181	283	578	578
28	77	98	119	179	281	577	577
29	76	97	118	178	280	576	576
30	75	96	117	177	279	575	575

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	314	327	350	419	531	827	1 420
2	86	99	122	191	304	599	1 138
3	90	104	126	188	303	598	922
4	93	108	131	192	304	599	760
5	95	112	137	197	305	600	637
6	97	114	141	202	305	601	601
7	99	117	143	205	306	601	601
8	99	118	143	205	306	602	602
9	100	119	144	204	307	602	602
10	100	120	144	204	306	602	602
11	101	121	144	204	306	602	602
12	101	122	144	204	306	602	602
13	102	123	145	205	307	602	602
14	103	124	145	205	307	603	603
15	103	125	146	206	308	604	604
16	104	126	147	207	309	604	604
17	105	127	148	208	310	605	605
18	106	128	149	209	311	606	606
19	107	128	149	209	311	607	607
20	107	129	150	210	312	608	608
21	107	129	150	210	312	608	608
22	107	128	149	210	312	607	607
23	106	128	149	209	311	606	606
24	105	127	148	208	310	606	606
25	104	126	147	207	309	604	604
26	103	124	145	205	308	603	603
27	102	123	144	204	306	602	602
28	100	122	143	203	305	600	600
29	99	120	141	201	303	599	599
30	97	119	140	200	302	597	597

2.21. New Taiwan dollar

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	0	12	35	104	217	512	1 241
2	1	12	35	104	217	512	994
3	2	14	36	98	213	508	808

4	2	16	38	100	211	507	668
5	4	17	42	102	210	506	560
6	4	19	45	106	209	505	505
7	5	20	46	108	209	504	504
8	7	20	45	106	208	504	504
9	7	20	44	105	207	503	503
10	8	21	44	104	206	502	502
11	9	21	44	104	206	502	502
12	9	22	44	104	206	502	502
13	10	23	44	104	206	502	502
14	11	23	44	105	207	502	502
15	12	24	45	105	207	503	503
16	13	24	45	105	207	503	503
17	13	24	45	106	208	503	503
18	14	25	46	106	208	504	504
19	15	26	47	107	209	504	504
20	15	27	48	108	210	505	505
21	17	27	48	109	211	506	506
22	17	28	49	109	211	507	507
23	18	29	50	110	212	507	507
24	18	29	50	110	212	508	508
25	19	29	50	111	213	508	508
26	20	30	51	111	213	508	508
27	20	30	51	111	213	509	509
28	21	30	51	111	213	509	509
29	22	31	51	112	214	509	509
30	23	31	52	112	214	509	509

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	51	64	87	156	269	564	1301
2	52	65	88	157	270	565	1 045
3	53	67	89	151	266	561	849
4	54	69	91	153	264	560	701
5	54	71	95	156	263	559	588
6	55	72	98	160	263	559	559
7	55	73	99	161	262	557	557

8	54	73	99	160	261	557	557
9	54	74	98	158	261	556	556
10	53	73	97	157	259	555	555
11	53	73	96	156	258	554	554
12	52	73	94	155	257	552	552
13	51	72	93	153	255	551	551
14	49	71	92	152	254	550	550
15	48	70	91	151	253	548	548
16	47	68	89	149	251	547	547
17	46	67	88	148	250	546	546
18	45	66	87	147	249	545	545
19	44	66	87	147	249	544	544
20	44	65	86	146	248	544	544
21	43	65	86	146	248	543	543
22	43	64	85	145	247	543	543
23	42	63	84	144	246	542	542
24	41	63	84	144	246	541	541
25	41	62	83	143	245	541	541
26	40	61	82	142	244	540	540
27	39	61	82	142	244	539	539
28	38	60	81	141	243	539	539
29	38	59	80	140	242	538	538
30	37	59	80	140	242	537	537

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	114	127	150	219	332	627	1 353
2	116	129	152	221	333	629	1 096
3	119	133	155	217	331	627	895
4	121	136	159	220	332	627	742
5	123	139	164	224	332	628	628
6	125	142	168	229	333	628	628
7	126	144	170	232	333	628	628
8	126	144	170	231	332	628	628
9	125	145	169	230	332	628	628
10	125	146	169	229	331	627	627
11	125	146	168	229	331	626	626

12	124	145	167	227	329	625	625
13	123	144	165	226	328	623	623
14	121	143	164	224	326	622	622
15	120	141	162	222	324	620	620
16	117	139	160	220	322	617	617
17	115	137	158	218	320	616	616
18	113	135	156	216	318	614	614
19	112	133	154	214	316	612	612
20	110	131	152	212	314	610	610
21	108	130	151	211	313	608	608
22	106	128	149	209	311	607	607
23	105	126	147	207	309	605	605
24	103	124	145	205	307	603	603
25	101	122	143	203	305	601	601
26	99	120	141	201	304	599	599
27	97	119	140	200	302	597	597
28	95	117	138	198	300	596	596
29	94	115	136	196	298	594	594
30	92	114	134	195	297	592	592

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	167	180	203	272	384	680	1 494
2	176	189	212	281	394	689	1 187
3	182	196	218	280	395	690	963
4	185	200	222	284	395	691	795
5	187	203	228	288	396	691	691
6	187	204	230	292	395	690	690
7	187	205	231	293	394	689	689
8	186	205	230	291	393	688	688
9	185	204	229	289	391	687	687
10	184	204	228	288	390	686	686
11	183	204	226	287	389	684	684
12	181	202	224	284	386	682	682
13	179	200	222	282	384	679	679
14	176	198	219	279	381	676	676
15	173	195	216	276	378	673	673

16	170	192	213	273	375	671	671
17	167	189	210	270	372	668	668
18	164	186	207	267	369	665	665
19	162	183	204	264	366	662	662
20	159	180	201	261	363	659	659
21	156	177	198	258	360	656	656
22	153	174	195	255	357	653	653
23	150	171	192	252	354	650	650
24	146	168	189	249	351	647	647
25	143	165	186	246	348	644	644
26	140	162	183	243	345	641	641
27	138	159	180	240	342	638	638
28	135	156	177	237	339	635	635
29	132	153	174	234	336	632	632
30	129	151	172	232	334	629	629

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	33	45	68	138	250	546	1 267
2	33	46	69	138	251	546	1 017
3	35	49	71	133	247	543	827
4	36	51	73	135	246	542	684
5	37	53	78	138	246	541	574
6	37	54	80	142	245	541	541
7	37	56	82	144	244	540	540
8	36	55	80	142	243	539	539
9	36	55	80	140	242	538	538
10	36	56	79	139	242	537	537
11	36	56	79	139	241	537	537
12	35	56	78	138	240	536	536
13	35	56	78	138	240	536	536
14	35	56	77	137	240	535	535
15	35	56	77	137	239	535	535
16	35	56	77	137	239	535	535
17	35	56	77	137	239	535	535
18	35	56	77	137	239	535	535
19	35	56	77	137	239	535	535

20	35	56	77	137	239	535	535
21	35	56	77	137	239	535	535
22	35	56	77	137	239	535	535
23	35	56	77	137	239	535	535
24	34	56	77	137	239	535	535
25	34	55	76	137	239	534	534
26	34	55	76	136	238	534	534
27	33	55	76	136	238	534	534
28	33	54	75	136	238	533	533
29	33	54	75	135	237	533	533
30	32	54	75	135	237	532	532

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	30	43	66	135	247	543	1 284
2	31	44	67	136	249	544	1 033
3	34	48	70	132	247	542	842
4	36	51	74	136	247	543	697
5	39	55	80	140	248	543	586
6	40	57	83	145	248	544	544
7	42	60	86	148	248	544	544
8	42	61	86	147	249	544	544
9	42	62	86	146	249	544	544
10	43	63	87	147	249	545	545
11	44	65	87	147	250	545	545
12	45	66	87	148	250	545	545
13	45	66	87	148	250	545	545
14	45	66	87	148	250	545	545
15	45	66	87	147	250	545	545
16	45	66	87	147	249	545	545
17	45	66	87	147	249	545	545
18	45	66	87	147	249	545	545
19	45	66	87	148	250	545	545
20	45	67	88	148	250	545	545
21	45	67	88	148	250	546	546
22	45	67	88	148	250	545	545
23	45	66	87	148	250	545	545

24	45	66	87	147	249	545	545
25	44	66	87	147	249	544	544
26	44	65	86	146	248	544	544
27	43	65	85	146	248	543	543
28	43	64	85	145	247	543	543
29	42	63	84	144	246	542	542
30	41	63	84	144	246	541	541

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	127	140	163	232	345	640	1 450
2	126	139	162	231	343	639	1 143
3	126	140	162	224	339	634	922
4	127	142	164	226	337	633	759
5	127	143	168	228	336	632	635
6	127	144	170	232	335	630	630
7	127	145	171	233	334	629	629
8	126	145	170	231	333	629	629
9	125	145	169	230	332	627	627
10	125	145	169	229	331	627	627
11	125	146	168	229	331	626	626
12	124	145	167	227	329	625	625
13	123	145	166	226	328	624	624
14	122	144	165	225	327	623	623
15	120	142	163	223	325	621	621
16	118	140	161	221	323	619	619
17	116	137	158	218	320	616	616
18	114	135	156	216	318	614	614
19	112	133	154	214	316	612	612
20	110	131	152	212	314	610	610
21	107	129	150	210	312	608	608
22	105	127	148	208	310	605	605
23	103	124	145	206	308	603	603
24	101	122	143	203	305	601	601
25	99	120	141	201	303	599	599
26	96	118	139	199	301	597	597
27	94	116	137	197	299	595	595

28	92	114	135	195	297	592	592
29	90	112	133	193	295	590	590
30	88	110	131	191	293	589	589

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	1	14	37	106	218	514	1 277
2	3	15	39	108	220	516	1 025
3	5	19	41	103	218	513	834
4	7	22	45	107	218	514	689
5	10	26	51	111	219	514	578
6	11	28	54	116	219	515	515
7	13	31	57	119	219	515	515
8	13	31	57	118	219	515	515
9	13	32	56	117	219	515	515
10	13	33	57	117	219	515	515
11	13	34	57	117	219	514	514
12	13	34	56	116	219	514	514
13	13	35	56	116	218	514	514
14	13	35	56	116	218	514	514
15	13	35	56	116	218	513	513
16	13	34	55	115	217	513	513
17	14	34	55	115	218	513	513
18	14	34	55	116	218	513	513
19	15	35	56	116	218	513	513
20	16	35	56	116	218	514	514
21	17	35	56	117	219	514	514
22	18	36	57	117	219	515	515
23	18	36	57	117	219	515	515
24	19	36	57	117	219	515	515
25	19	36	57	117	219	515	515
26	20	36	57	117	219	515	515
27	20	36	57	118	220	515	515
28	22	36	57	118	220	515	515
29	22	36	57	118	220	515	515
30	23	37	57	118	220	515	515

2.29. South Korean won

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	36	49	72	141	253	549	1 287
2	36	49	72	141	254	549	1 035
3	36	50	72	135	249	545	842
4	37	52	74	136	247	543	695
5	37	53	78	138	246	542	582
6	39	56	82	144	247	543	543
7	37	55	81	143	244	539	539
8	40	59	84	145	247	542	542
9	39	59	83	144	246	541	541
10	35	55	78	138	241	536	536
11	31	52	74	134	236	532	532
12	28	49	71	131	233	529	529
13	26	47	69	129	231	526	526
14	24	46	67	127	229	525	525
15	23	44	65	125	228	523	523
16	22	43	64	124	226	522	522
17	21	42	63	123	225	521	521
18	20	41	62	123	225	520	520
19	20	41	62	122	224	520	520
20	20	41	62	122	224	520	520
21	20	41	62	122	224	520	520
22	20	41	62	122	224	520	520
23	20	41	62	122	224	520	520
24	19	41	62	122	224	520	520
25	19	41	62	122	224	519	519
26	20	41	62	122	224	519	519
27	20	40	61	122	224	519	519
28	21	40	61	121	223	519	519
29	22	40	61	121	223	519	519
30	23	40	61	121	223	519	519

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	210	223	246	315	427	723	1702
2	207	220	243	312	424	720	1 397
3	204	218	240	302	416	712	1 150
4	200	215	238	300	411	706	952
5	197	213	238	298	406	701	794
6	193	210	236	298	401	697	697
7	190	208	234	296	396	692	692
8	185	204	229	290	392	688	688
9	181	200	225	285	388	683	683
10	177	197	221	281	383	679	679
11	173	194	217	277	379	675	675
12	170	191	213	273	375	670	670
13	166	187	208	269	371	666	666
14	162	183	204	265	367	662	662
15	158	180	201	261	363	659	659
16	155	176	197	257	359	655	655
17	151	173	194	254	356	652	652
18	148	170	191	251	353	648	648
19	145	167	188	248	350	645	645
20	142	164	185	245	347	643	643
21	139	161	182	242	344	640	640
22	137	158	179	239	341	637	637
23	134	155	176	236	338	634	634
24	131	152	173	233	335	631	631
25	128	149	170	231	333	628	628
26	125	147	168	228	330	626	626
27	123	144	165	225	327	623	623
28	120	142	163	223	325	620	620
29	118	139	160	220	322	618	618
30	116	137	158	218	320	616	616

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	25	48	101	234	530	1 289
2	8	25	48	101	234	530	1 033
3	10	28	50	97	232	528	838
4	12	32	54	95	232	528	691
5	16	38	59	98	233	529	579
6	18	42	63	95	234	529	529
7	19	44	63	89	234	530	530
8	18	43	62	89	234	530	530
9	19	45	64	93	234	530	530
10	21	48	67	96	234	530	530
11	23	50	68	99	234	530	530
12	24	52	69	100	234	530	530
13	26	54	70	100	234	530	530
14	26	54	71	100	234	530	530
15	26	55	71	100	234	530	530
16	26	55	71	100	234	529	529
17	26	55	71	100	234	529	529
18	26	55	71	100	234	529	529
19	26	55	71	100	234	530	530
20	26	55	71	100	234	530	530
21	26	55	71	100	234	530	530
22	26	55	71	100	234	530	530
23	26	55	71	100	234	530	530
24	26	55	71	100	234	530	530
25	26	55	71	100	234	530	530
26	26	55	71	100	234	529	529
27	26	55	71	100	233	529	529
28	26	55	71	100	233	529	529
29	26	55	71	100	233	528	528
30	26	55	71	100	232	528	528

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	15	84	197	492	1 223
2	1	5	14	83	195	491	980
3	2	5	14	76	190	486	796
4	2	6	15	77	188	484	657
5	4	6	19	79	187	483	551
6	4	7	22	84	187	482	482
7	5	9	24	86	186	482	482
8	7	9	24	85	186	482	482
9	7	10	23	84	186	482	482
10	8	10	24	84	186	482	482
11	8	11	24	84	186	482	482
12	9	13	24	85	187	482	482
13	10	13	24	85	187	482	482
14	11	14	25	85	187	483	483
15	12	14	25	85	187	483	483
16	13	15	26	85	187	483	483
17	13	16	27	86	188	483	483
18	14	17	28	86	188	484	484
19	14	18	30	87	189	484	484
20	15	18	31	87	189	485	485
21	16	19	32	88	190	485	485
22	17	20	33	88	190	486	486
23	18	21	34	88	190	486	486
24	18	21	36	88	190	486	486
25	19	22	37	88	190	486	486
26	19	22	38	88	190	486	486
27	20	23	39	88	190	486	486
28	20	25	40	88	190	486	486
29	21	25	41	88	190	486	486
30	22	26	42	88	190	486	486

3. Other exposures

3.1. Euro

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	2	14	21	42	159	297	3 056
2	2	14	21	42	159	340	2 295
3	2	15	23	47	154	355	1 739
4	2	16	26	50	152	356	1 347
5	3	18	29	52	152	348	1 070
6	4	20	31	55	152	335	869
7	6	22	33	57	152	320	719
8	6	23	34	60	152	303	605
9	6	24	36	63	152	286	516
10	6	25	37	65	152	269	444
11	7	25	38	66	152	253	386
12	7	26	38	66	152	245	338
13	7	26	38	66	152	245	298
14	7	26	38	66	152	245	264
15	7	26	40	66	152	245	245
16	7	26	42	66	152	245	245
17	7	26	44	66	152	245	245
18	7	26	47	66	152	245	245
19	7	26	50	66	152	245	245
20	7	26	51	66	152	245	245
21	7	26	54	66	152	245	245
22	8	26	57	66	152	245	245
23	8	26	59	66	152	245	245
24	9	26	62	66	152	245	245
25	10	26	63	66	152	245	245
26	10	26	66	67	152	245	245
27	11	26	68	69	152	245	245
28	11	26	71	71	152	245	245
29	11	26	73	73	152	245	245
30	12	26	76	75	152	245	245

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	12	24	31	52	169	324	3 372
2	14	26	32	54	171	368	2511
3	14	27	35	58	166	382	1 889
4	13	27	37	62	163	380	1 454
5	14	29	40	63	163	369	1 148
6	14	30	41	66	162	354	929
7	15	32	43	67	161	337	766
8	15	32	43	69	160	319	643
9	14	32	44	71	160	300	547
10	14	33	45	73	159	282	470
11	14	33	45	73	159	265	408
12	13	32	45	72	158	252	357
13	13	32	44	72	158	251	314
14	12	31	44	71	157	251	278
15	12	31	43	71	157	250	250
16	12	30	44	70	156	250	250
17	11	30	47	70	156	250	250
18	11	30	49	70	156	249	249
19	11	30	51	70	156	250	250
20	12	31	54	71	157	250	250
21	12	31	57	71	157	250	250
22	12	31	59	71	157	250	250
23	12	31	61	71	157	250	250
24	12	31	63	71	157	250	250
25	12	31	66	71	157	250	250
26	12	31	68	71	157	250	250
27	12	31	71	72	157	250	250
28	12	31	73	74	157	250	250
29	12	31	77	76	157	250	250
30	12	31	79	78	157	250	250

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	2	14	20	42	159	296	3 056
2	2	14	20	42	159	340	2 294
3	2	14	23	46	154	355	1 738
4	2	15	26	50	151	356	1 347
5	3	17	29	52	151	348	1 069
6	4	20	31	55	151	335	869
7	5	22	33	57	151	319	719
8	6	23	34	60	151	303	605
9	6	24	36	63	151	286	515
10	6	25	37	65	151	269	444
11	7	25	38	65	151	253	386
12	7	25	38	66	151	245	338
13	7	26	38	66	151	245	298
14	7	26	38	66	151	245	264
15	7	26	40	66	151	245	245
16	7	26	42	66	151	245	245
17	7	26	44	66	151	245	245
18	7	26	47	66	151	245	245
19	7	26	50	66	151	245	245
20	7	26	51	66	151	245	245
21	7	26	54	66	151	245	245
22	8	26	57	66	151	245	245
23	8	26	59	66	151	245	245
24	8	26	62	66	151	245	245
25	10	26	63	66	151	245	245
26	10	26	66	67	151	245	245
27	11	26	68	69	151	245	245
28	11	26	71	71	151	245	245
29	11	26	73	73	151	245	245
30	12	26	76	75	151	245	245

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	73	85	91	112	230	326	3 386
2	70	82	88	109	227	373	2 546
3	72	85	93	117	224	391	1 933
4	70	84	94	119	220	392	1 498
5	69	84	96	119	218	384	1 189
6	69	85	96	121	217	369	964
7	69	86	96	121	215	352	797
8	68	86	97	122	214	333	669
9	68	86	97	124	213	314	569
10	65	83	96	123	210	303	489
11	63	81	94	122	208	301	424
12	62	80	93	121	206	300	371
13	61	80	92	120	206	299	326
14	61	79	92	120	205	299	299
15	60	79	92	119	205	299	299
16	60	79	91	119	205	298	298
17	60	78	91	118	204	298	298
18	59	78	90	118	204	297	297
19	58	77	90	117	203	297	297
20	58	77	89	117	203	296	296
21	57	76	88	116	202	295	295
22	56	75	88	115	201	295	295
23	56	74	87	114	200	294	294
24	55	73	86	113	199	293	293
25	54	72	85	112	198	292	292
26	53	71	84	111	197	291	291
27	52	70	83	110	196	290	290
28	50	69	82	109	195	289	289
29	49	68	81	108	194	288	288
30	48	67	82	107	193	287	287

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	6	18	25	46	163	304	3 138
2	8	20	26	47	165	346	2 344
3	8	21	30	53	161	361	1 773
4	9	23	33	57	159	362	1 373
5	10	25	36	60	159	353	1 089
6	12	27	39	63	159	340	884
7	13	30	40	65	159	324	731
8	12	30	41	67	158	307	614
9	12	30	42	69	158	289	523
10	12	31	43	71	158	272	450
11	13	31	44	71	157	256	391
12	13	31	44	72	157	251	342
13	13	31	44	72	157	251	302
14	13	32	44	72	157	251	267
15	13	32	44	72	158	251	251
16	13	31	44	72	157	251	251
17	13	32	45	72	158	251	251
18	13	32	47	72	158	251	251
19	13	32	50	72	158	251	251
20	14	33	53	73	159	252	252
21	14	33	55	73	159	252	252
22	14	33	57	73	159	253	253
23	15	33	59	73	159	253	253
24	15	33	62	74	159	253	253
25	15	33	65	74	159	253	253
26	15	33	67	73	159	253	253
27	14	33	69	73	159	253	253
28	14	33	72	73	159	252	252
29	14	33	74	75	159	252	252
30	14	33	77	76	159	252	252

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	42	54	60	82	199	296	3 056
2	46	58	64	85	203	340	2 299
3	49	62	70	94	201	357	1 748
4	51	65	75	100	201	359	1 359
5	53	68	79	103	202	352	1 082
6	55	71	82	106	202	340	881
7	56	73	83	108	202	325	731
8	55	73	84	109	201	309	617
9	55	73	84	111	200	294	527
10	54	72	85	112	199	292	455
11	53	72	84	112	198	291	396
12	52	70	83	111	196	290	347
13	51	69	82	110	195	289	306
14	50	68	81	108	194	288	288
15	49	67	80	108	193	287	287
16	48	67	79	107	193	286	286
17	47	66	78	106	192	285	285
18	47	65	78	106	191	285	285
19	46	65	77	105	191	284	284
20	46	64	77	105	190	284	284
21	45	64	76	104	190	283	283
22	44	63	76	103	189	283	283
23	44	62	75	103	188	282	282
24	43	62	74	102	188	281	281
25	42	61	73	101	187	280	280
26	41	60	72	100	186	279	279
27	40	59	72	99	185	279	279
28	40	58	73	99	184	278	278
29	39	58	76	98	184	277	277
30	38	57	78	97	183	276	276

3.7. Lev

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	1	13	20	41	158	296	3 054
2	1	13	20	41	158	339	2 293
3	1	14	22	46	153	355	1 737
4	1	15	25	49	151	356	1 346
5	2	17	28	51	151	348	1 069
6	3	19	30	54	151	335	868
7	5	22	32	57	151	319	719
8	5	22	33	59	151	303	604
9	5	23	35	62	151	286	515
10	6	24	36	64	151	269	444
11	6	25	37	65	151	253	386
12	6	25	37	65	151	244	338
13	6	25	37	65	151	244	298
14	6	25	37	65	151	244	264
15	6	25	40	65	151	244	244
16	6	25	42	65	151	244	244
17	6	25	44	65	151	244	244
18	6	25	47	65	151	244	244
19	7	25	50	65	151	244	244
20	7	25	51	65	151	244	244
21	7	25	54	65	151	244	244
22	8	25	57	65	151	244	244
23	8	25	59	65	151	244	244
24	8	25	61	65	151	244	244
25	10	25	63	65	151	244	244
26	10	25	66	67	151	244	244
27	11	25	68	69	151	244	244
28	11	25	71	71	151	244	244
29	11	25	73	73	151	244	244
30	12	26	76	75	151	244	244

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	44	177	304	3 145
2	0	11	22	44	177	347	2 352
3	1	11	23	49	172	362	1 777
4	1	13	26	54	169	362	1 374
5	1	16	28	58	168	353	1 089
6	2	18	32	59	167	339	883
7	3	21	36	59	166	323	730
8	6	24	37	59	164	306	613
9	8	30	41	58	164	288	522
10	11	34	42	57	163	271	449
11	10	33	41	57	162	255	390
12	9	32	41	57	161	254	341
13	8	31	42	57	160	254	300
14	8	31	42	58	160	253	266
15	8	31	43	58	159	252	252
16	8	31	43	58	158	251	251
17	8	31	44	58	157	250	250
18	8	31	47	58	156	250	250
19	8	31	50	58	156	250	250
20	8	31	51	58	156	250	250
21	8	31	54	58	156	250	250
22	8	31	57	60	156	250	250
23	9	31	59	62	156	249	249
24	9	31	62	63	155	248	248
25	10	31	64	65	154	248	248
26	10	31	67	67	154	247	247
27	11	31	69	69	153	247	247
28	11	31	72	71	153	246	246
29	11	31	74	73	152	246	246
30	12	31	76	75	152	245	245

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	80	92	98	120	237	332	3 435
2	79	91	97	118	236	380	2 594
3	77	90	98	122	229	397	1 963
4	75	89	99	124	225	396	1515
5	74	89	100	123	223	386	1 199
6	73	89	100	125	221	371	971
7	73	90	100	125	219	353	802
8	71	88	99	125	217	335	674
9	69	87	99	126	215	316	575
10	68	86	99	126	213	307	495
11	67	85	98	126	212	305	430
12	65	84	97	124	210	304	376
13	64	83	95	123	209	302	331
14	63	81	94	122	207	301	301
15	61	80	93	120	206	299	299
16	60	79	91	119	205	298	298
17	59	78	90	118	204	297	297
18	58	77	90	117	203	297	297
19	58	76	89	116	202	296	296
20	57	75	88	116	201	295	295
21	56	75	87	115	201	294	294
22	55	74	86	114	200	293	293
23	54	73	85	113	198	292	292
24	53	71	84	112	197	291	291
25	52	70	83	111	196	290	290
26	51	69	82	109	195	289	289
27	49	68	81	108	194	288	288
28	48	67	80	107	193	286	286
29	47	66	80	106	192	285	285
30	46	65	82	105	191	284	284

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	53	65	71	92	210	325	3 377
2	52	64	70	91	209	372	2 535
3	51	64	72	96	203	388	1 917
4	50	64	74	98	200	388	1 481
5	49	64	76	99	198	378	1 172
6	49	65	76	101	197	363	949
7	49	66	77	101	195	346	784
8	48	66	77	102	194	327	658
9	47	65	77	104	193	308	559
10	46	65	77	105	192	290	481
11	46	65	77	105	191	284	417
12	45	64	76	104	190	283	365
13	45	63	76	104	189	283	321
14	44	63	75	103	189	282	284
15	43	62	75	102	188	282	282
16	43	61	74	102	187	281	281
17	42	61	73	101	187	280	280
18	42	60	73	101	186	280	280
19	41	60	72	100	186	279	279
20	41	60	72	100	186	279	279
21	41	59	72	100	185	279	279
22	40	59	71	99	185	278	278
23	40	58	71	99	184	278	278
24	39	58	70	98	184	277	277
25	38	57	70	97	183	277	277
26	38	57	70	97	182	276	276
27	37	56	72	96	182	275	275
28	36	55	75	95	181	274	274
29	36	54	78	95	180	274	274
30	35	54	80	94	180	273	273

3.11. Norwegian krone

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	27	39	46	67	184	307	3 175
2	28	40	46	67	185	349	2 371
3	27	40	48	71	179	365	1 793
4	26	40	50	74	176	365	1 387
5	26	41	52	76	175	356	1 100
6	27	43	54	78	174	343	892
7	27	44	55	79	173	327	738
8	27	44	55	81	173	309	620
9	26	44	56	83	172	292	528
10	26	45	57	84	171	274	454
11	26	44	57	85	171	264	394
12	25	44	56	84	170	263	345
13	24	43	56	83	169	263	304
14	24	43	55	83	169	262	269
15	23	42	55	82	168	261	261
16	23	41	54	82	167	261	261
17	22	41	54	81	167	260	260
18	22	41	53	81	167	260	260
19	22	41	53	81	167	260	260
20	22	41	53	81	167	260	260
21	22	41	55	81	167	260	260
22	22	41	58	81	167	260	260
23	22	41	59	81	166	260	260
24	22	40	62	80	166	260	260
25	21	40	65	80	166	259	259
26	21	40	67	80	166	259	259
27	21	39	70	80	165	259	259
28	20	39	72	79	165	259	259
29	20	39	74	79	165	258	258
30	20	39	78	79	164	258	258

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	141	292	3005
2	0	1	6	24	142	333	2 247
3	1	1	8	29	137	348	1702
4	1	3	11	33	134	349	1 319
5	1	4	15	35	134	341	1 048
6	2	4	17	38	134	329	851
7	2	6	19	40	134	314	705
8	2	6	21	43	134	297	593
9	4	7	24	46	134	281	506
10	4	8	27	47	134	264	436
11	4	9	30	49	135	248	379
12	4	9	31	48	134	233	332
13	4	11	34	49	135	228	292
14	5	11	37	49	135	228	259
15	6	13	39	48	134	227	231
16	6	13	41	47	133	226	226
17	6	14	44	49	133	226	226
18	6	15	46	51	133	226	226
19	7	16	48	53	133	226	226
20	7	16	51	55	134	227	227
21	7	18	53	57	134	227	227
22	8	19	55	59	134	227	227
23	8	19	58	61	134	227	227
24	8	21	60	63	134	227	227
25	9	21	63	65	133	227	227
26	9	22	66	67	135	227	227
27	10	23	68	69	136	227	227
28	10	24	70	70	138	226	226
29	10	24	73	73	138	226	226
30	11	26	75	75	140	226	226

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	41	53	59	80	198	308	3 183
2	41	53	59	80	198	352	2 387
3	40	53	61	85	192	368	1 808
4	39	53	63	88	189	368	1 400
5	39	54	66	89	188	359	1 109
6	40	56	67	91	187	347	902
7	41	58	68	93	187	331	746
8	40	57	68	94	186	313	627
9	39	57	69	96	185	296	534
10	39	57	70	97	184	278	459
11	39	57	70	97	183	277	399
12	38	57	69	97	183	276	349
13	37	56	68	96	182	275	308
14	37	55	68	96	181	275	275
15	36	55	67	95	181	274	274
16	35	54	67	94	180	273	273
17	35	54	66	94	180	273	273
18	34	53	66	93	179	272	272
19	34	53	65	93	179	272	272
20	34	53	65	93	178	272	272
21	34	52	65	92	178	272	272
22	33	52	64	92	178	271	271
23	32	51	64	91	177	271	271
24	32	51	63	91	177	270	270
25	31	50	66	90	176	269	269
26	30	49	68	89	175	269	269
27	30	48	71	89	174	268	268
28	29	48	73	88	174	267	267
29	28	47	75	87	173	266	266
30	28	46	78	86	172	266	266

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	13	25	32	53	170	298	3 072
2	17	29	35	57	174	341	2308
3	19	32	40	64	172	358	1 753
4	22	35	46	70	171	359	1 360
5	24	39	50	73	173	352	1 081
6	24	39	51	75	171	339	878
7	28	45	56	80	174	323	727
8	27	45	56	82	173	306	612
9	29	47	58	85	174	289	521
10	30	49	61	88	175	272	449
11	31	50	63	90	176	270	391
12	32	51	63	91	177	270	342
13	33	51	64	92	177	271	302
14	33	52	64	92	178	271	271
15	33	52	64	92	178	271	271
16	33	51	64	92	177	271	271
17	33	52	64	92	177	271	271
18	32	51	63	91	177	270	270
19	32	51	63	91	177	270	270
20	32	51	63	91	177	270	270
21	32	51	63	91	177	270	270
22	32	50	63	91	176	270	270
23	31	50	63	90	176	270	270
24	31	50	62	90	176	269	269
25	31	49	65	89	175	269	269
26	30	49	67	89	175	268	268
27	30	48	70	88	174	268	268
28	29	48	72	88	174	267	267
29	28	47	75	87	173	267	267
30	28	47	78	87	173	266	266

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	14	26	32	53	171	308	3 190
2	15	27	33	54	172	351	2 382
3	15	28	36	60	167	366	1801
4	16	29	39	64	165	366	1 392
5	16	31	43	66	165	357	1104
6	18	34	45	69	165	344	895
7	19	36	47	71	165	328	741
8	19	37	48	74	165	311	623
9	20	38	49	76	165	293	530
10	20	39	51	79	165	276	457
11	21	39	52	79	165	259	397
12	21	39	52	80	166	259	347
13	21	40	52	80	166	259	306
14	21	40	52	80	166	259	271
15	21	40	52	80	166	259	259
16	21	39	52	80	165	259	259
17	21	39	52	80	165	259	259
18	21	39	52	80	165	259	259
19	21	39	52	80	165	259	259
20	21	39	53	80	165	259	259
21	21	39	55	80	165	259	259
22	20	39	58	79	165	258	258
23	20	39	61	79	165	258	258
24	19	38	62	78	164	258	258
25	19	38	65	78	164	257	257
26	19	37	67	77	163	257	257
27	18	37	70	77	163	256	256
28	18	36	72	77	162	256	256
29	17	36	75	76	162	255	255
30	17	36	78	77	162	255	255

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	47	59	65	86	204	333	3 469
2	50	62	68	89	207	372	2 551
3	52	65	73	97	204	386	1 914
4	53	67	77	102	203	384	1 475
5	55	70	81	104	204	374	1 167
6	57	73	84	108	204	360	946
7	58	75	86	110	204	343	782
8	58	76	87	112	204	325	657
9	58	77	88	115	204	307	559
10	59	77	90	117	204	297	481
11	59	78	90	118	204	297	418
12	58	77	90	117	203	297	366
13	58	77	89	117	202	296	322
14	57	76	88	116	202	295	295
15	56	75	87	115	201	294	294
16	56	74	87	114	200	294	294
17	55	74	86	114	200	293	293
18	54	73	85	113	199	292	292
19	54	72	85	113	198	292	292
20	53	72	84	112	198	291	291
21	52	71	84	111	197	290	290
22	52	70	83	110	196	290	290
23	51	69	82	110	195	289	289
24	50	68	81	109	194	288	288
25	49	68	80	108	193	287	287
26	48	67	79	107	193	286	286
27	47	66	78	106	192	285	285
28	46	65	77	105	191	284	284
29	45	64	78	104	190	283	283
30	44	63	81	103	189	282	282

3.17. Colombian peso

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	77	89	96	117	234	336	3501
2	82	94	101	122	239	385	2 635
3	83	96	104	128	235	404	2004
4	83	97	107	132	233	406	1 555
5	86	101	113	136	235	398	1 236
6	89	105	116	140	236	384	1004
7	91	108	118	143	237	367	831
8	92	110	121	147	238	348	699
9	94	112	123	150	239	332	595
10	94	113	125	152	239	333	512
11	94	113	125	153	239	332	445
12	94	112	125	152	238	332	389
13	92	111	124	151	237	331	342
14	91	110	122	150	236	329	329
15	90	109	121	149	234	328	328
16	88	107	120	147	233	327	327
17	87	106	118	146	232	325	325
18	86	105	117	145	230	324	324
19	84	103	116	143	229	323	323
20	83	102	114	142	228	321	321
21	82	100	113	141	226	320	320
22	80	99	111	139	225	318	318
23	78	97	110	137	223	317	317
24	77	96	108	136	221	315	315
25	75	94	106	134	220	313	313
26	73	92	105	132	218	312	312
27	72	91	103	131	216	310	310
28	70	89	101	129	215	308	308
29	69	87	100	128	213	307	307
30	67	86	98	126	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	7	19	26	47	164	306	3 161
2	10	22	29	50	167	349	2 366
3	12	25	33	57	164	364	1 789
4	13	27	37	62	163	364	1 384
5	15	30	42	65	164	356	1 098
6	17	33	44	69	165	342	891
7	19	36	46	71	165	326	737
8	19	37	48	73	165	309	619
9	20	38	49	76	165	292	527
10	20	38	51	78	165	274	454
11	20	39	51	79	165	258	394
12	20	39	51	79	165	258	345
13	19	38	51	78	164	257	304
14	19	37	50	78	163	257	269
15	18	37	49	77	163	256	256
16	17	36	49	76	162	255	255
17	17	36	48	76	162	255	255
18	17	36	48	76	162	255	255
19	17	35	50	76	161	255	255
20	17	36	53	76	162	255	255
21	17	36	55	76	162	255	255
22	17	36	58	76	162	255	255
23	17	36	59	76	162	255	255
24	17	36	62	76	161	255	255
25	17	35	65	76	161	255	255
26	16	35	67	75	161	255	255
27	16	35	70	75	161	254	254
28	16	35	72	75	161	254	254
29	16	35	74	75	160	254	254
30	16	34	78	77	160	254	254

3.19. *Indian rupee*

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	91	103	109	130	247	343	3 338
2	92	104	110	131	249	368	2507
3	92	104	113	136	244	385	1902
4	92	106	116	140	242	386	1 474
5	93	108	119	142	242	378	1 170
6	94	110	121	145	241	364	950
7	95	112	122	147	241	347	786
8	95	113	124	149	241	334	661
9	95	113	124	151	240	334	563
10	94	112	125	152	239	332	484
11	92	111	124	151	237	331	421
12	91	110	122	150	236	329	368
13	89	108	120	148	234	327	327
14	87	106	119	146	232	325	325
15	86	104	117	145	230	324	324
16	84	103	115	143	228	322	322
17	82	101	114	141	227	320	320
18	81	100	112	140	226	319	319
19	80	98	111	138	224	318	318
20	79	97	110	137	223	317	317
21	77	96	109	136	222	316	316
22	76	95	107	135	221	314	314
23	75	94	106	134	220	313	313
24	74	93	105	133	219	312	312
25	73	91	104	132	217	311	311
26	71	90	103	130	216	309	309
27	70	89	101	129	215	308	308
28	69	88	100	128	214	307	307
29	68	87	99	127	213	306	306
30	67	86	98	126	211	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	309	321	328	349	466	561	3 526
2	82	94	100	122	239	384	2 635
3	84	97	105	129	236	400	1 988
4	86	100	110	134	236	400	1 534
5	88	103	114	137	237	390	1214
6	90	106	117	141	237	375	984
7	92	109	119	144	238	357	813
8	93	110	121	147	239	338	682
9	93	111	123	150	239	332	580
10	93	112	124	152	239	332	499
11	94	112	125	153	239	332	433
12	94	113	125	153	239	332	378
13	94	113	125	153	239	332	333
14	95	114	126	154	240	333	333
15	96	114	127	154	240	334	334
16	96	115	128	155	241	335	335
17	97	116	129	156	242	335	335
18	98	117	129	157	243	336	336
19	99	118	130	158	244	337	337
20	100	118	131	158	244	338	338
21	100	118	131	158	244	338	338
22	99	118	130	158	244	337	337
23	98	117	130	157	243	337	337
24	98	116	129	156	242	336	336
25	96	115	128	155	241	334	334
26	95	114	126	154	240	333	333
27	94	112	125	153	238	332	332
28	92	111	123	151	237	330	330
29	91	110	122	150	236	329	329
30	89	108	121	148	234	327	327

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	7	14	35	152	296	3 055
2	0	7	13	34	152	337	2 281
3	1	7	15	39	146	352	1 725
4	1	7	17	42	143	353	1 335
5	1	8	20	43	142	344	1 059
6	2	10	21	45	142	331	860
7	2	12	22	47	141	316	712
8	2	12	23	49	140	299	598
9	4	12	24	50	139	282	510
10	4	12	27	52	139	266	439
11	4	12	30	53	139	249	381
12	4	13	31	53	139	234	334
13	4	13	34	53	139	232	294
14	5	13	37	53	139	232	261
15	6	13	40	53	139	233	233
16	6	13	41	54	139	233	233
17	6	14	44	54	140	233	233
18	6	15	47	55	140	234	234
19	7	16	49	55	141	235	235
20	7	17	51	56	142	235	235
21	7	18	54	57	143	236	236
22	8	19	56	60	143	237	237
23	8	19	58	61	144	237	237
24	8	21	61	63	144	238	238
25	9	21	63	65	145	238	238
26	9	22	66	67	145	239	239
27	10	23	68	69	145	239	239
28	10	24	71	71	146	239	239
29	10	25	73	73	146	239	239
30	11	26	75	75	146	240	240

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	47	59	65	86	204	310	3 213
2	48	60	66	87	205	354	2 404
3	47	60	68	92	199	370	1 818
4	47	60	71	95	196	370	1 406
5	47	62	73	96	196	361	1 115
6	48	64	75	99	195	347	904
7	48	65	75	100	194	331	748
8	48	65	76	102	194	313	628
9	47	65	77	104	193	296	535
10	47	65	77	105	192	285	460
11	45	64	77	104	190	284	400
12	44	63	75	103	189	282	350
13	43	62	74	102	188	281	308
14	42	60	73	100	186	280	280
15	40	59	72	99	185	278	278
16	39	58	70	98	184	277	277
17	38	57	69	97	183	276	276
18	37	56	68	96	182	275	275
19	36	55	67	95	181	274	274
20	36	55	67	95	180	274	274
21	35	54	66	94	180	273	273
22	35	53	66	94	179	273	273
23	34	53	65	93	179	272	272
24	33	52	65	92	178	271	271
25	33	51	66	92	177	271	271
26	32	51	68	91	177	270	270
27	31	50	71	90	176	269	269
28	31	49	73	89	175	269	269
29	30	49	76	89	175	268	268
30	29	48	78	88	174	267	267

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	122	128	150	267	362	3 350
2	111	123	130	151	268	371	2529
3	113	126	134	157	265	390	1 922
4	114	128	138	162	264	391	1 492
5	116	130	142	165	264	383	1 186
6	117	133	144	169	265	370	965
7	119	136	146	171	265	358	800
8	119	136	147	173	265	358	674
9	119	137	148	175	264	358	574
10	119	137	149	177	264	357	495
11	118	137	149	177	263	356	430
12	117	135	148	176	261	355	377
13	115	134	146	174	260	353	353
14	114	132	145	172	258	352	352
15	112	130	143	171	256	350	350
16	109	128	141	168	254	348	348
17	108	126	139	166	252	346	346
18	106	124	137	164	250	344	344
19	104	122	135	163	248	342	342
20	102	121	133	161	247	340	340
21	100	119	132	159	245	338	338
22	99	117	130	157	243	337	337
23	97	115	128	156	241	335	335
24	95	114	126	154	239	333	333
25	93	112	124	152	238	331	331
26	91	110	122	150	236	329	329
27	89	108	120	148	234	327	327
28	88	106	119	146	232	326	326
29	86	105	117	145	231	324	324
30	84	103	115	143	229	322	322

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	162	175	181	202	319	415	3 721
2	172	184	190	211	329	424	2 760
3	176	189	197	221	328	423	2 084
4	178	192	202	226	328	422	1 611
5	179	194	205	229	328	421	1 277
6	180	195	207	231	327	420	1 036
7	180	197	207	232	326	419	857
8	179	196	208	233	325	418	720
9	178	196	208	235	324	417	613
10	178	196	208	236	323	416	527
11	176	195	207	235	321	414	458
12	174	193	205	233	319	412	412
13	171	190	202	230	316	409	409
14	168	187	200	227	313	407	407
15	165	184	197	224	310	404	404
16	163	181	194	221	307	401	401
17	160	178	191	218	304	398	398
18	157	175	188	216	301	395	395
19	154	172	185	213	298	392	392
20	151	170	182	210	295	389	389
21	148	167	179	207	293	386	386
22	145	164	176	204	289	383	383
23	142	160	173	201	286	380	380
24	139	157	170	197	283	377	377
25	136	154	167	194	280	374	374
26	133	151	164	191	277	371	371
27	130	148	161	189	274	368	368
28	127	146	158	186	271	365	365
29	124	143	155	183	269	362	362
30	121	140	153	180	266	360	360

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	28	40	47	68	185	303	3 124
2	29	41	47	69	186	345	2 335
3	29	41	50	73	181	360	1 768
4	28	42	52	77	178	361	1 369
5	29	44	55	79	178	353	1 087
6	30	46	57	81	177	340	882
7	30	47	58	82	176	324	730
8	30	47	58	84	175	307	614
9	29	47	59	86	175	290	523
10	29	47	60	87	174	273	451
11	28	47	60	87	173	267	392
12	28	47	59	87	173	266	343
13	28	46	59	86	172	266	302
14	27	46	58	86	172	265	268
15	27	46	58	86	172	265	265
16	27	45	58	86	171	265	265
17	27	45	58	86	171	265	265
18	27	46	58	86	171	265	265
19	27	46	58	86	172	265	265
20	27	46	58	86	172	265	265
21	27	46	58	86	172	265	265
22	27	46	58	86	172	265	265
23	27	45	59	86	171	265	265
24	27	45	62	85	171	265	265
25	26	45	65	85	171	264	264
26	26	45	67	85	171	264	264
27	26	44	70	84	170	264	264
28	25	44	72	84	170	263	263
29	25	44	74	84	169	263	263
30	24	43	78	83	169	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	25	37	44	65	182	307	3 169
2	27	39	45	67	184	350	2 375
3	28	41	49	73	180	367	1802
4	29	43	53	78	179	368	1 398
5	31	46	57	81	180	360	1 110
6	33	49	60	84	180	347	902
7	35	52	62	87	181	331	747
8	35	52	63	89	181	314	628
9	35	54	65	92	181	296	535
10	36	55	67	95	181	279	461
11	37	56	68	96	182	275	401
12	37	56	68	96	182	275	351
13	37	56	68	96	182	275	309
14	37	56	68	96	182	275	275
15	37	56	68	96	182	275	275
16	37	56	68	96	182	275	275
17	37	56	68	96	182	275	275
18	37	56	68	96	182	275	275
19	37	56	68	96	182	275	275
20	37	56	69	96	182	276	276
21	38	56	69	96	182	276	276
22	37	56	69	96	182	276	276
23	37	56	68	96	182	275	275
24	37	56	68	96	181	275	275
25	36	55	67	95	181	274	274
26	36	55	69	95	180	274	274
27	35	54	71	94	180	273	273
28	35	53	73	94	179	273	273
29	34	53	77	93	179	272	272
30	33	52	79	92	178	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	123	135	141	162	280	375	3605
2	122	134	140	161	279	386	2 652
3	120	133	141	165	272	399	1 990
4	119	133	143	168	269	398	1 533
5	120	134	146	169	269	388	1213
6	120	136	147	171	267	373	983
7	120	137	148	172	266	360	812
8	119	137	148	174	265	359	682
9	119	137	148	175	264	358	580
10	118	137	149	177	264	357	499
11	118	137	149	177	263	356	433
12	117	136	148	176	262	355	379
13	116	135	147	175	260	354	354
14	115	133	146	173	259	353	353
15	113	131	144	171	257	351	351
16	111	129	142	169	255	349	349
17	108	127	139	167	253	346	346
18	106	125	137	165	251	344	344
19	104	123	135	163	249	342	342
20	102	121	133	161	246	340	340
21	100	118	131	158	244	338	338
22	97	116	129	156	242	335	335
23	95	114	126	154	240	333	333
24	93	112	124	152	238	331	331
25	91	110	122	150	235	329	329
26	89	107	120	148	233	327	327
27	87	105	118	145	231	325	325
28	84	103	116	143	229	323	323
29	82	101	114	141	227	321	321
30	81	99	112	139	225	319	319

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	8	15	36	153	305	3 150
2	0	10	17	38	155	347	2 355
3	1	12	20	44	151	363	1 783
4	1	14	24	49	150	363	1 380
5	2	17	28	52	151	355	1 094
6	4	20	31	55	151	341	888
7	6	23	33	57	152	325	734
8	6	23	34	60	152	308	617
9	6	24	36	63	152	291	525
10	6	25	37	64	151	273	452
11	6	25	37	65	151	257	393
12	6	25	37	65	151	244	344
13	6	25	37	65	151	244	303
14	6	24	37	64	150	244	268
15	6	24	40	64	150	244	244
16	6	24	43	64	150	243	243
17	6	24	45	64	150	243	243
18	6	24	47	64	150	243	243
19	7	24	50	64	150	243	243
20	7	25	53	65	150	244	244
21	7	25	55	65	151	244	244
22	9	25	57	65	151	245	245
23	9	25	59	66	151	245	245
24	10	26	62	66	152	245	245
25	10	26	65	67	152	245	245
26	10	26	67	69	152	245	245
27	11	26	70	71	152	245	245
28	11	26	72	73	152	245	245
29	11	26	74	75	152	245	245
30	12	26	77	76	152	245	245

3.29. South Korean won

Duration (in years)	Credit quality step 0	Credit quality step 1	Credit quality step 2	Credit quality step 3	Credit quality step 4	Credit quality step 5	Credit quality step 6
1	31	43	50	71	188	307	3 177
2	32	44	50	71	189	351	2 380
3	30	43	52	75	183	367	1801
4	29	43	53	78	179	367	1 393
5	29	44	56	79	178	358	1104
6	32	48	59	83	179	344	895
7	30	47	57	82	176	327	740
8	33	51	62	87	179	310	621
9	33	51	62	89	178	292	529
10	28	46	59	86	173	275	455
11	24	42	55	83	169	262	395
12	21	39	52	80	165	259	345
13	18	37	50	77	163	256	304
14	17	35	48	75	161	255	269
15	15	34	46	74	160	253	253
16	14	32	45	73	158	252	252
17	13	32	45	72	158	251	251
18	12	31	47	71	157	250	250
19	12	31	50	71	157	250	250
20	12	31	52	71	157	250	250
21	12	31	55	71	157	250	250
22	12	31	57	71	157	250	250
23	12	30	59	71	156	250	250
24	12	30	62	71	156	250	250
25	11	30	64	70	156	250	250
26	11	30	67	70	156	249	249
27	11	30	69	70	156	249	249
28	11	30	72	72	156	249	249
29	11	30	74	74	156	249	249
30	12	29	77	76	155	249	249

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	205	218	224	245	362	458	4 274
2	203	215	221	242	360	470	3 282
3	198	211	219	242	350	497	2 514
4	193	207	217	242	343	499	1 947
5	189	204	215	239	338	485	1 532
6	186	202	213	237	333	461	1 225
7	183	200	210	235	329	431	993
8	178	196	207	233	324	418	814
9	174	192	204	231	320	413	675
10	170	189	201	229	315	409	568
11	166	185	197	225	311	405	485
12	162	181	193	221	307	400	418
13	158	177	189	217	303	396	396
14	154	173	185	213	299	392	392
15	151	169	182	209	295	389	389
16	147	166	178	206	292	385	385
17	144	162	175	203	288	382	382
18	140	159	172	199	285	379	379
19	137	156	169	196	282	376	376
20	135	153	166	193	279	373	373
21	132	150	163	190	276	370	370
22	129	147	160	188	273	367	367
23	126	145	157	185	270	364	364
24	123	142	154	182	268	361	361
25	120	139	151	179	265	358	358
26	118	136	149	176	262	356	356
27	115	134	146	174	260	353	353
28	112	131	144	171	257	351	351
29	110	129	141	169	255	348	348
30	108	126	139	167	252	346	346

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	25	51	169	308	3 182
2	0	14	25	51	169	350	2 375
3	1	17	28	55	166	365	1 792
4	1	20	31	60	164	364	1 386
5	3	23	36	66	165	356	1 098
6	5	26	39	68	166	342	891
7	8	30	42	70	166	326	736
8	10	34	45	74	166	309	619
9	12	37	49	76	166	291	527
10	13	39	51	77	166	274	453
11	14	40	52	78	166	260	394
12	15	42	54	79	166	260	345
13	16	43	54	80	166	260	304
14	16	44	55	80	166	260	269
15	17	44	55	80	166	260	260
16	17	44	55	80	166	259	259
17	17	44	55	80	166	260	260
18	17	44	55	80	166	260	260
19	17	44	55	80	166	260	260
20	17	44	55	80	166	260	260
21	17	44	55	80	167	260	260
22	17	44	57	80	167	260	260
23	17	44	59	80	167	260	260
24	17	44	62	80	166	260	260
25	17	44	64	80	166	260	260
26	17	44	67	80	166	259	259
27	17	44	69	80	166	259	259
28	17	44	72	80	165	259	259
29	17	44	74	80	165	258	258
30	17	44	77	80	165	258	258

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	14	132	292	3 009
2	0	1	6	13	130	333	2 245
3	1	1	8	16	124	347	1 697
4	1	3	11	19	120	347	1 313
5	1	4	13	21	120	339	1 042
6	2	4	16	24	119	326	846
7	2	6	19	26	119	311	700
8	2	6	21	29	119	295	589
9	4	7	24	31	119	278	502
10	4	8	27	33	119	262	432
11	4	9	28	36	119	246	376
12	4	9	31	38	119	231	329
13	4	11	34	40	119	216	290
14	5	11	36	42	119	213	257
15	6	13	38	44	119	213	229
16	6	13	41	46	120	213	213
17	6	14	43	49	120	213	213
18	6	15	46	51	120	214	214
19	7	16	48	52	122	214	214
20	7	16	51	55	124	215	215
21	7	18	53	57	126	215	215
22	8	18	55	58	128	216	216
23	8	19	58	61	129	216	216
24	8	21	60	63	131	216	216
25	9	21	63	65	133	216	216
26	9	22	64	66	134	216	216
27	10	23	67	68	135	216	216
28	10	24	69	70	136	216	216
29	10	24	72	72	138	216	216
30	11	26	74	73	138	216	216

ANNEX III

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

Currency	National insurance market	Volatility adjustment (in bps)
Euro	Austria	25
Euro	Belgium	25
Euro	Cyprus	25
Euro	Estonia	25
Euro	Finland	25
Euro	France	25
Euro	Germany	25
Euro	Greece	25
Euro	Ireland	25
Euro	Italy	25
Euro	Latvia	25
Euro	Lithuania	25
Euro	Luxembourg	25
Euro	Malta	25
Euro	Netherlands	25
Euro	Portugal	25
Euro	Slovakia	25
Euro	Slovenia	25
Euro	Spain	25
Czech koruna	Czech Republic	32
Danish krone	Denmark	33
Forint	Hungary	18
Krona	Sweden	19
Kuna	Croatia	5
Lev	Bulgaria	- 0
Pound sterling	United Kingdom	26
Romanian leu	Romania	13
Zloty	Poland	32
Króna	Iceland	12
Norwegian krone	Norway	52
Swiss franc	Liechtenstein	- 2
Swiss franc	Switzerland	- 2
Australian dollar	Australia	35
Canadian dollar	Canada	54

Renminbi-yuan	China	28
Hong Kong dollar	Hong Kong	8
US dollar	United States	61
Yen	Japan	6

COMMISSION IMPLEMENTING REGULATION (EU) 2022/1385**of 8 August 2022****amending Annexes V and XIV to Implementing Regulation (EU) 2021/404 as regards the entries for Canada, the United Kingdom and the United States in the lists of third countries authorised for the entry into the Union of consignments of poultry, germinal products of poultry and fresh meat of poultry and game birds****(Text with EEA relevance)**

THE EUROPEAN COMMISSION,

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

Having regard to Regulation (EU) 2016/429 of the European Parliament and of the Council of 9 March 2016 on transmissible animal diseases and amending and repealing certain acts in the area of animal health ('Animal Health Law') ⁽¹⁾, and in particular Articles 230(1) and 232(1) and (3) thereof.

Whereas:

- (1) Regulation (EU) 2016/429 requires that consignments of animals, germinal products and products of animal origin must come from a third country or territory, or zone or compartment thereof, listed in accordance with Article 230(1) of that Regulation in order to enter the Union.
- (2) Commission Delegated Regulation (EU) 2020/692 ⁽²⁾ lays down the animal health requirements with which consignments of certain species and categories of animals, germinal products and products of animal origin from third countries or territories, or zones thereof, or compartments thereof, in the case of aquaculture animals, must comply with in order to enter the Union.
- (3) Commission Implementing Regulation (EU) 2021/404 ⁽³⁾ establishes the lists of third countries, or territories, or zones or compartments thereof, from which the entry into the Union of the species and categories of animals, germinal products and products of animal origin falling within the scope of Delegated Regulation (EU) 2020/692 is permitted.
- (4) More particularly, Annexes V and XIV to Implementing Regulation (EU) 2021/404 set out the lists of third countries, or territories, or zones thereof authorised for the entry into the Union, respectively, of consignments of poultry, germinal products of poultry, and of fresh meat from poultry and game birds.
- (5) Canada notified the Commission of three outbreaks of highly pathogenic avian influenza in poultry in the province of Quebec, Canada, and they were confirmed on 28 June and 9 July 2022 by laboratory analysis (RT-PCR). As they are close to each other, they are covered by a unique restricted zone.
- (6) The United Kingdom notified the Commission of one outbreak of highly pathogenic avian influenza in poultry in Birsay, Orkney Islands, Scotland, United Kingdom, and it was confirmed on 6 July 2022 by laboratory analysis (RT-PCR).
- (7) Furthermore, the United Kingdom notified the Commission of one outbreak of highly pathogenic avian influenza in poultry near Dartington, South Hams, Devon, England, United Kingdom, and it was confirmed on 21 July 2022 by laboratory analysis (RT-PCR).

⁽¹⁾ OJ L 84, 31.3.2016, p. 1.

⁽²⁾ Commission Delegated Regulation (EU) 2020/692 of 30 January 2020 supplementing Regulation (EU) 2016/429 of the European Parliament and of the Council as regards rules for entry into the Union, and the movement and handling after entry of consignments of certain animals, germinal products and products of animal origin (OJ L 174, 3.6.2020, p. 379).

⁽³⁾ Commission Implementing Regulation (EU) 2021/404 of 24 March 2021 laying down the lists of third countries, territories or zones thereof from which the entry into the Union of animals, germinal products and products of animal origin is permitted in accordance with Regulation (EU) 2016/429 of the European Parliament and of the Council (OJ L 114, 31.3.2021, p. 1).

- (8) The United States notified the Commission of four outbreaks of highly pathogenic avian influenza in poultry located in Deschutes County, state of Colorado, United States, and they were confirmed on 12, 15, 19 and 21 July 2022 by laboratory analysis (RT-PCR).
- (9) Furthermore, the United States notified the Commission of three outbreaks of highly pathogenic avian influenza in poultry located in Sanpete County, state of Utah, United States, and they were confirmed on 14, 19 and 26 July 2022 by laboratory analysis (RT-PCR).
- (10) Additionally, the United States notified the Commission of one outbreak of highly pathogenic avian influenza in poultry located in Snohomish County, state of Washington, United States, and it was confirmed on 18 July 2022 by laboratory analysis (RT-PCR).
- (11) Following those outbreaks of highly pathogenic avian influenza, the veterinary authorities of Canada, the United Kingdom and the United States established a 10 km control zone around the affected establishments and implemented a stamping-out policy in order to control the presence of highly pathogenic avian influenza and limit the spread of that disease.
- (12) Canada, the United Kingdom and the United States have submitted information to the Commission on the epidemiological situation on their territory and the measures they have taken to prevent the further spread of highly pathogenic avian influenza. That information has been evaluated by the Commission. On the basis of that evaluation and in order to protect the animal health status of the Union, the entry into the Union of consignments of poultry, germinal products of poultry, and fresh meat from poultry and game birds from the areas under restrictions established by the veterinary authorities of Canada, the United Kingdom and the United States due to the recent outbreaks of highly pathogenic avian influenza should no longer be authorised.
- (13) Canada has submitted updated information on the epidemiological situation on its territory in relation to two outbreaks of highly pathogenic avian influenza in poultry establishments: one in the province of Alberta, Canada confirmed on 11 April 2022 and another in the province of Quebec, confirmed on 21 April 2022. Canada has also submitted information on the measures it has taken to prevent the further spread of that disease. In particular, following those outbreak of highly pathogenic avian influenza, Canada has implemented a stamping out policy in order to control and limit the spread of that disease. In addition, Canada has completed the requisite cleaning and disinfection measures following the implementation of the stamping out policy on those infected poultry establishments on its territory.
- (14) Furthermore, the United Kingdom has submitted updated information on the epidemiological situation on its territory in relation to eleven outbreaks of highly pathogenic avian influenza in poultry establishments: one outbreak near Blaydon, Gateshead, Tyne and Wear, England, United Kingdom, which was confirmed on 23 February 2022; one outbreak near Elmswell, Mid Suffolk, Suffolk, England, United Kingdom, which was confirmed on 26 February 2022; two outbreaks near Redgrave, Mid Suffolk, Suffolk, England, United Kingdom, which were confirmed on 1 March 2022 and on 12 March 2022; one outbreak near Market Weston, West Suffolk, Suffolk, England, United Kingdom, which was confirmed on 12 March 2022; one outbreak near Stowmarket, Mid Suffolk, Suffolk, England, United Kingdom which was confirmed on 28 March 2022; one outbreak near Newton St Cyres, Mid Devon, Devon, England, United Kingdom which was confirmed on 6 April 2022; two outbreaks near Tedburn St Mary, Teignbridge, Devon, England, United Kingdom which were confirmed on 7 April 2022 and on 13 April 2022; one outbreak near Eye, Mid Suffolk, Suffolk, England, United Kingdom which was confirmed on 8 April 2022; and one outbreak near Ilkeston, Erewash, Derbyshire, England, United Kingdom, which was confirmed on 22 April 2022. The United Kingdom has also submitted information on the measures it has taken to prevent the further spread of that disease. In particular, following those outbreak of highly pathogenic avian influenza, the United Kingdom has implemented a stamping out policy in order to control and limit the spread of that disease. In addition, the United Kingdom has completed the requisite cleaning and disinfection measures following the implementation of the stamping out policy on those infected poultry establishments on its territory.

- (15) Additionally, the United States has submitted updated information on the epidemiological situation on its territory in relation to nineteen outbreaks of highly pathogenic avian influenza in poultry establishments in the States of Delaware, Indiana, Iowa and South Dakota, United States, confirmed between the 23 February 2022 and 13 April 2022. The United States has also submitted information on the measures it has taken to prevent the further spread of that disease. In particular, following those outbreak of highly pathogenic avian influenza, the United States has implemented a stamping out policy in order to control and limit the spread of that disease. In addition, the United States has completed the requisite cleaning and disinfection measures following the implementation of the stamping out policy on those infected poultry establishments on its territory.
- (16) The Commission has evaluated the information submitted by Canada, the United Kingdom and the United States and concluded that the highly pathogenic avian influenza outbreaks in poultry establishments have been cleared and that there is no longer any risk associated with the entry into the Union of poultry commodities from the zones of Canada, the United Kingdom and the United States from which the entry into the Union of poultry commodities was suspended due to those outbreaks.
- (17) Annexes V and XIV to Implementing Regulation (EU) 2021/404 should be therefore amended to take account of the current epidemiological situation as regards highly pathogenic avian influenza in Canada, the United Kingdom and the United States.
- (18) Taking into account the current epidemiological situation in Canada, the United Kingdom and the United States as regards highly pathogenic avian influenza and the serious risk of its introduction into the Union, the amendments to be made to Implementing Regulation (EU) 2021/404 by this Regulation should take effect as a matter of urgency.
- (19) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on Plants, Animals, Food and Feed,

HAS ADOPTED THIS REGULATION:

Article 1

Amendments to Implementing Regulation (EU) 2021/404

Annexes V and XIV to Implementing Regulation (EU) 2021/404 are amended in accordance with the Annex to this Regulation.

Article 2

Entry into force and application

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

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

Done at Brussels, 8 August 2022.

For the Commission
The President
Ursula VON DER LEYEN

ANNEX

Annexes V and XIV to Implementing Regulation (EU) 2021/404 are amended as follows:

(1) Annex V is amended as follows:

(a) Part 1 is amended as follows:

(i) in the entry for Canada, the rows for the zone CA-2.14 are replaced by the following:

‘CA Canada	CA-2.14	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		11.4.2022	4.8.2022
		Breeding ratites and productive ratites	BPR	N, P1		11.4.2022	4.8.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		11.4.2022	4.8.2022
		Ratites intended for slaughter	SR	N, P1		11.4.2022	4.8.2022
		Day-old chicks other than ratites	DOC	N, P1		11.4.2022	4.8.2022
		Day-old chicks of ratites	DOR	N, P1		11.4.2022	4.8.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		11.4.2022	4.8.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		11.4.2022	4.8.2022
		Hatching eggs of ratites	HER	N, P1		11.4.2022	4.8.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		11.4.2022	4.8.2022’;

(ii) in the entry for Canada, the rows for the zone CA-2.29 are replaced by the following:

‘CA Canada	CA-2.29	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		21.4.2022	19.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		21.4.2022	19.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		21.4.2022	19.7.2022
		Ratites intended for slaughter	SR	N, P1		21.4.2022	19.7.2022
		Day-old chicks other than ratites	DOC	N, P1		21.4.2022	19.7.2022
		Day-old chicks of ratites	DOR	N, P1		21.4.2022	19.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		21.4.2022	19.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		21.4.2022	19.7.2022
		Hatching eggs of ratites	HER	N, P1		21.4.2022	19.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		21.4.2022	19.7.2022’;

(iii) in the entry for Canada, the following rows for the zone CA-2.74 are added after the rows for the zone CA-2.73:

‘CA Canada	CA-2.74	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		9.7.2022	
		Breeding ratites and productive ratites	BPR	N, P1		9.7.2022	
		Poultry intended for slaughter other than ratites	SP	N, P1		9.7.2022	
		Ratites intended for slaughter	SR	N, P1		9.7.2022	
		Day-old chicks other than ratites	DOC	N, P1		9.7.2022	
		Day-old chicks of ratites	DOR	N, P1		9.7.2022	
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		9.7.2022	
		Hatching eggs of poultry other than ratites	HEP	N, P1		9.7.2022	
		Hatching eggs of ratites	HER	N, P1		9.7.2022	
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		9.7.2022;	

(iv) in the entry for the United Kingdom, the rows for the zone GB-2.101 are replaced by the following:

‘GB United Kingdom	GB-2.101	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		23.2.2022	4.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		23.2.2022	4.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		23.2.2022	4.7.2022
		Ratites intended for slaughter	SR	N, P1		23.2.2022	4.7.2022
		Day-old chicks other than ratites	DOC	N, P1		23.2.2022	4.7.2022
		Day-old chicks of ratites	DOR	N, P1		23.2.2022	4.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		23.2.2022	4.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		23.2.2022	4.7.2022
		Hatching eggs of ratites	HER	N, P1		23.2.2022	4.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		23.2.2022	4.7.2022;

(v) in the entry for the United Kingdom, the rows for the zones GB-2.103 and GB-2.104 are replaced by the following:

‘GB United King- dom	GB-2.103	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		26.2.2022	21.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		26.2.2022	21.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		26.2.2022	21.7.2022
		Ratites intended for slaughter	SR	N, P1		26.2.2022	21.7.2022
		Day-old chicks other than ratites	DOC	N, P1		26.2.2022	21.7.2022
		Day-old chicks of ratites	DOR	N, P1		26.2.2022	21.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		26.2.2022	21.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		26.2.2022	21.7.2022
		Hatching eggs of ratites	HER	N, P1		26.2.2022	21.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		26.2.2022	21.7.2022
	GB-2.104	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		1.3.2022	21.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		1.3.2022	21.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		1.3.2022	21.7.2022
		Ratites intended for slaughter	SR	N, P1		1.3.2022	21.7.2022
		Day-old chicks other than ratites	DOC	N, P1		1.3.2022	21.7.2022
		Day-old chicks of ratites	DOR	N, P1		1.3.2022	21.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		1.3.2022	21.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		1.3.2022	21.7.2022
		Hatching eggs of ratites	HER	N, P1		1.3.2022	21.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		1.3.2022	21.7.2022’;

(vi) in the entry for the United Kingdom, the rows for the zones GB-2.106 and GB-2.107 are replaced by the following:

‘GB United King- dom	GB-2.106	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		12.3.2022	21.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		12.3.2022	21.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		12.3.2022	21.7.2022
		Ratites intended for slaughter	SR	N, P1		12.3.2022	21.7.2022
		Day-old chicks other than ratites	DOC	N, P1		12.3.2022	21.7.2022
		Day-old chicks of ratites	DOR	N, P1		12.3.2022	21.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		12.3.2022	21.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		12.3.2022	21.7.2022
		Hatching eggs of ratites	HER	N, P1		12.3.2022	21.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		12.3.2022	21.7.2022
	GB-2.107	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		12.3.2022	21.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		12.3.2022	21.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		12.3.2022	21.7.2022
		Ratites intended for slaughter	SR	N, P1		12.3.2022	21.7.2022
		Day-old chicks other than ratites	DOC	N, P1		12.3.2022	21.7.2022
		Day-old chicks of ratites	DOR	N, P1		12.3.2022	21.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		12.3.2022	21.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		12.3.2022	21.7.2022
		Hatching eggs of ratites	HER	N, P1		12.3.2022	21.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		12.3.2022	21.7.2022’;

(vii) in the entry for the United Kingdom, the rows for the zone GB-2.112 are replaced by the following:

‘GB United King- dom	GB-2.112	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		28.3.2022	21.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		28.3.2022	21.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		28.3.2022	21.7.2022
		Ratites intended for slaughter	SR	N, P1		28.3.2022	21.7.2022
		Day-old chicks other than ratites	DOC	N, P1		28.3.2022	21.7.2022
		Day-old chicks of ratites	DOR	N, P1		28.3.2022	21.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		28.3.2022	21.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		28.3.2022	21.7.2022
		Hatching eggs of ratites	HER	N, P1		28.3.2022	21.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		28.3.2022	21.7.2022’;

(viii) in the entry for the United Kingdom, the rows for the zone GB-2.114 are replaced by the following:

‘GB United King- dom	GB-2.114	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		6.4.2022	15.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		6.4.2022	15.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		6.4.2022	15.7.2022
		Ratites intended for slaughter	SR	N, P1		6.4.2022	15.7.2022
		Day-old chicks other than ratites	DOC	N, P1		6.4.2022	15.7.2022
		Day-old chicks of ratites	DOR	N, P1		6.4.2022	15.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		6.4.2022	15.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		6.4.2022	15.7.2022
		Hatching eggs of ratites	HER	N, P1		6.4.2022	15.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		6.4.2022	15.7.2022’;

(ix) in the entry for the United Kingdom, the rows for the zone GB-2.116 are replaced by the following:

‘GB United King- dom	GB-2.116	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		7.4.2022	15.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		7.4.2022	15.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		7.4.2022	15.7.2022
		Ratites intended for slaughter	SR	N, P1		7.4.2022	15.7.2022
		Day-old chicks other than ratites	DOC	N, P1		7.4.2022	15.7.2022
		Day-old chicks of ratites	DOR	N, P1		7.4.2022	15.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		7.4.2022	15.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		7.4.2022	15.7.2022
		Hatching eggs of ratites	HER	N, P1		7.4.2022	15.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		7.4.2022	15.7.2022’;

(x) in the entry for the United Kingdom, the rows for the zones GB-2.118 to GB-2.120 are replaced by the following:

‘GB United King- dom	GB-2.118	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		8.4.2022	21.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		8.4.2022	21.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		8.4.2022	21.7.2022
		Ratites intended for slaughter	SR	N, P1		8.4.2022	21.7.2022
		Day-old chicks other than ratites	DOC	N, P1		8.4.2022	21.7.2022
		Day-old chicks of ratites	DOR	N, P1		8.4.2022	21.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		8.4.2022	21.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		8.4.2022	21.7.2022
		Hatching eggs of ratites	HER	N, P1		8.4.2022	21.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		8.4.2022	21.7.2022

	GB-2.119	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		13.4.2022	15.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		13.4.2022	15.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		13.4.2022	15.7.2022
		Ratites intended for slaughter	SR	N, P1		13.4.2022	15.7.2022
		Day-old chicks other than ratites	DOC	N, P1		13.4.2022	15.7.2022
		Day-old chicks of ratites	DOR	N, P1		13.4.2022	15.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		13.4.2022	15.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		13.4.2022	15.7.2022
		Hatching eggs of ratites	HER	N, P1		13.4.2022	15.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		13.4.2022	15.7.2022
	GB-2.120	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		22.4.2022	27.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		22.4.2022	27.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		22.4.2022	27.7.2022
		Ratites intended for slaughter	SR	N, P1		22.4.2022	27.7.2022
		Day-old chicks other than ratites	DOC	N, P1		22.4.2022	27.7.2022
		Day-old chicks of ratites	DOR	N, P1		22.4.2022	27.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		22.4.2022	27.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		22.4.2022	27.7.2022
		Hatching eggs of ratites	HER	N, P1		22.4.2022	27.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		22.4.2022	27.7.2022';

(xi) in the entry for the United Kingdom, the following rows for the zones GB-2.127 and GB-2.128 are added after the rows for the zone GB-2.126:

‘GB United King- dom	GB-2.127	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		6.7.2022	
		Breeding ratites and productive ratites	BPR	N, P1		6.7.2022	
		Poultry intended for slaughter other than ratites	SP	N, P1		6.7.2022	
		Ratites intended for slaughter	SR	N, P1		6.7.2022	
		Day-old chicks other than ratites	DOC	N, P1		6.7.2022	
		Day-old chicks of ratites	DOR	N, P1		6.7.2022	
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		6.7.2022	
		Hatching eggs of poultry other than ratites	HEP	N, P1		6.7.2022	
		Hatching eggs of ratites	HER	N, P1		6.7.2022	
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		6.7.2022	
	GB-2.128	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		21.7.2022	
		Breeding ratites and productive ratites	BPR	N, P1		21.7.2022	
		Poultry intended for slaughter other than ratites	SP	N, P1		21.7.2022	
		Ratites intended for slaughter	SR	N, P1		21.7.2022	
		Day-old chicks other than ratites	DOC	N, P1		21.7.2022	
		Day-old chicks of ratites	DOR	N, P1		21.7.2022	
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		21.7.2022	
		Hatching eggs of poultry other than ratites	HEP	N, P1		21.7.2022	
		Hatching eggs of ratites	HER	N, P1		21.7.2022	
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		21.7.2022;	

(xii) in the entry for the United States, the rows for the zones US-2.9 and US-2.10 are replaced by the following:

US United States	US-2.9	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		23.2.2022	4.8.2022
		Breeding ratites and productive ratites	BPR	N, P1		23.2.2022	4.8.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		23.2.2022	4.8.2022
		Ratites intended for slaughter	SR	N, P1		23.2.2022	4.8.2022
		Day-old chicks other than ratites	DOC	N, P1		23.2.2022	4.8.2022
		Day-old chicks of ratites	DOR	N, P1		23.2.2022	4.8.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		23.2.2022	4.8.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		23.2.2022	4.8.2022
		Hatching eggs of ratites	HER	N, P1		23.2.2022	4.8.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		23.2.2022	4.8.2022
	US-2.10	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		23.2.2022	4.8.2022
		Breeding ratites and productive ratites	BPR	N, P1		23.2.2022	4.8.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		23.2.2022	4.8.2022
		Ratites intended for slaughter	SR	N, P1		23.2.2022	4.8.2022
		Day-old chicks other than ratites	DOC	N, P1		23.2.2022	4.8.2022
		Day-old chicks of ratites	DOR	N, P1		23.2.2022	4.8.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		23.2.2022	4.8.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		23.2.2022	4.8.2022
		Hatching eggs of ratites	HER	N, P1		23.2.2022	4.8.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		23.2.2022	4.8.2022';

(xiii) in the entry for the United States, the rows for the zones US-2.26 and US-2.27 are replaced by the following:

US United States	US-2.26	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		17.3.2022	29.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		17.3.2022	29.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		17.3.2022	29.7.2022
		Ratites intended for slaughter	SR	N, P1		17.3.2022	29.7.2022
		Day-old chicks other than ratites	DOC	N, P1		17.3.2022	29.7.2022
		Day-old chicks of ratites	DOR	N, P1		17.3.2022	29.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		17.3.2022	29.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		17.3.2022	29.7.2022
		Hatching eggs of ratites	HER	N, P1		17.3.2022	29.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		17.3.2022	29.7.2022
	US-2.27	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		17.3.2022	3.8.2022
		Breeding ratites and productive ratites	BPR	N, P1		17.3.2022	3.8.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		17.3.2022	3.8.2022
		Ratites intended for slaughter	SR	N, P1		17.3.2022	3.8.2022
		Day-old chicks other than ratites	DOC	N, P1		17.3.2022	3.8.2022
		Day-old chicks of ratites	DOR	N, P1		17.3.2022	3.8.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		17.3.2022	3.8.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		17.3.2022	3.8.2022
		Hatching eggs of ratites	HER	N, P1		17.3.2022	3.8.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		17.3.2022	3.8.2022';

(xiv) in the entry for the United States, the rows for the zone US-2.30 are replaced by the following:

‘US United States	US-2.30	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		18.3.2022	26.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		18.3.2022	26.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		18.3.2022	26.7.2022
		Ratites intended for slaughter	SR	N, P1		18.3.2022	26.7.2022
		Day-old chicks other than ratites	DOC	N, P1		18.3.2022	26.7.2022
		Day-old chicks of ratites	DOR	N, P1		18.3.2022	26.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		18.3.2022	26.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		18.3.2022	26.7.2022
		Hatching eggs of ratites	HER	N, P1		18.3.2022	26.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		18.3.2022	26.7.2022’;

(xv) in the entry for the United States, the rows for the zone US-2.32 are replaced by the following:

‘US United States	US-2.32	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		20.3.2022	26.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		20.3.2022	26.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		20.3.2022	26.7.2022
		Ratites intended for slaughter	SR	N, P1		20.3.2022	26.7.2022
		Day-old chicks other than ratites	DOC	N, P1		20.3.2022	26.7.2022
		Day-old chicks of ratites	DOR	N, P1		20.3.2022	26.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		20.3.2022	26.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		20.3.2022	26.7.2022
		Hatching eggs of ratites	HER	N, P1		20.3.2022	26.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		20.3.2022	26.7.2022’;

(xvi) in the entry for the United States, the rows for the zone US-2.35 are replaced by the following:

‘US United States	US-2.35	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		22.3.2022	25.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		22.3.2022	25.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		22.3.2022	25.7.2022
		Ratites intended for slaughter	SR	N, P1		22.3.2022	25.7.2022
		Day-old chicks other than ratites	DOC	N, P1		22.3.2022	25.7.2022
		Day-old chicks of ratites	DOR	N, P1		22.3.2022	25.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		22.3.2022	25.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		22.3.2022	25.7.2022
		Hatching eggs of ratites	HER	N, P1		22.3.2022	25.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		22.3.2022	25.7.2022’;

(xvii) in the entry for the United States, the rows for the zone US-2.38 are replaced by the following:

‘US United States	US-2.38	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		23.3.2022	25.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		23.3.2022	25.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		23.3.2022	25.7.2022
		Ratites intended for slaughter	SR	N, P1		23.3.2022	25.7.2022
		Day-old chicks other than ratites	DOC	N, P1		23.3.2022	25.7.2022
		Day-old chicks of ratites	DOR	N, P1		23.3.2022	25.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		23.3.2022	25.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		23.3.2022	25.7.2022
		Hatching eggs of ratites	HER	N, P1		23.3.2022	25.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		23.3.2022	25.7.2022’;

(xviii) in the entry for the United States, the rows for the zone US-2.44 are replaced by the following:

US United States	US-2.44	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		25.3.2022	28.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		25.3.2022	28.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		25.3.2022	28.7.2022
		Ratites intended for slaughter	SR	N, P1		25.3.2022	28.7.2022
		Day-old chicks other than ratites	DOC	N, P1		25.3.2022	28.7.2022
		Day-old chicks of ratites	DOR	N, P1		25.3.2022	28.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		25.3.2022	28.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		25.3.2022	28.7.2022
		Hatching eggs of ratites	HER	N, P1		25.3.2022	28.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		25.3.2022	28.7.2022;

(xix) in the entry for the United States, the rows for the zones US-2.49 and US-2.50 are replaced by the following:

US United States	US-2.49	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		25.3.2022	26.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		25.3.2022	26.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		25.3.2022	26.7.2022
		Ratites intended for slaughter	SR	N, P1		25.3.2022	26.7.2022
		Day-old chicks other than ratites	DOC	N, P1		25.3.2022	26.7.2022
		Day-old chicks of ratites	DOR	N, P1		25.3.2022	26.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		25.3.2022	26.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		25.3.2022	26.7.2022
		Hatching eggs of ratites	HER	N, P1		25.3.2022	26.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		25.3.2022	26.7.2022

	US-2.50	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		27.3.2022	4.8.2022
		Breeding ratites and productive ratites	BPR	N, P1		27.3.2022	4.8.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		27.3.2022	4.8.2022
		Ratites intended for slaughter	SR	N, P1		27.3.2022	4.8.2022
		Day-old chicks other than ratites	DOC	N, P1		27.3.2022	4.8.2022
		Day-old chicks of ratites	DOR	N, P1		27.3.2022	4.8.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		27.3.2022	4.8.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		27.3.2022	4.8.2022
		Hatching eggs of ratites	HER	N, P1		27.3.2022	4.8.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		27.3.2022	4.8.2022';

(xx) in the entry for the United States, the rows for the zone US-2.53 are replaced by the following:

US United States	US-2.53	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		29.3.2022	30.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		29.3.2022	30.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		29.3.2022	30.7.2022
		Ratites intended for slaughter	SR	N, P1		29.3.2022	30.7.2022
		Day-old chicks other than ratites	DOC	N, P1		29.3.2022	30.7.2022
		Day-old chicks of ratites	DOR	N, P1		29.3.2022	30.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		29.3.2022	30.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		29.3.2022	30.7.2022
		Hatching eggs of ratites	HER	N, P1		29.3.2022	30.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		29.3.2022	30.7.2022';

(xxi) in the entry for the United States, the rows for the zone US-2.56 are replaced by the following:

‘US United States	US-2.56	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		28.3.2022	29.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		28.3.2022	29.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		28.3.2022	29.7.2022
		Ratites intended for slaughter	SR	N, P1		28.3.2022	29.7.2022
		Day-old chicks other than ratites	DOC	N, P1		28.3.2022	29.7.2022
		Day-old chicks of ratites	DOR	N, P1		28.3.2022	29.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		28.3.2022	29.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		28.3.2022	29.7.2022
		Hatching eggs of ratites	HER	N, P1		28.3.2022	29.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		28.3.2022	29.7.2022’;

(xxii) in the entry for the United States, the rows for the zone US-2.64 are replaced by the following:

‘US United States	US-2.64	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		30.3.2022	2.8.2022
		Breeding ratites and productive ratites	BPR	N, P1		30.3.2022	2.8.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		30.3.2022	2.8.2022
		Ratites intended for slaughter	SR	N, P1		30.3.2022	2.8.2022
		Day-old chicks other than ratites	DOC	N, P1		30.3.2022	2.8.2022
		Day-old chicks of ratites	DOR	N, P1		30.3.2022	2.8.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		30.3.2022	2.8.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		30.3.2022	2.8.2022
		Hatching eggs of ratites	HER	N, P1		30.3.2022	2.8.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		30.3.2022	2.8.2022’;

(xxiii) in the entry for the United States, the rows for the zone US-2.73 are replaced by the following:

‘US United States	US-2.73	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		2.4.2022	2.8.2022
		Breeding ratites and productive ratites	BPR	N, P1		2.4.2022	2.8.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		2.4.2022	2.8.2022
		Ratites intended for slaughter	SR	N, P1		2.4.2022	2.8.2022
		Day-old chicks other than ratites	DOC	N, P1		2.4.2022	2.8.2022
		Day-old chicks of ratites	DOR	N, P1		2.4.2022	2.8.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		2.4.2022	2.8.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		2.4.2022	2.8.2022
		Hatching eggs of ratites	HER	N, P1		2.4.2022	2.8.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		2.4.2022	2.8.2022’;

(xxiv) in the entry for the United States, the rows for the zone US-2.87 are replaced by the following:

‘US United States	US-2.87	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		4.4.2022	29.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		4.4.2022	29.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		4.4.2022	29.7.2022
		Ratites intended for slaughter	SR	N, P1		4.4.2022	29.7.2022
		Day-old chicks other than ratites	DOC	N, P1		4.4.2022	29.7.2022
		Day-old chicks of ratites	DOR	N, P1		4.4.2022	29.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		4.4.2022	29.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		4.4.2022	29.7.2022
		Hatching eggs of ratites	HER	N, P1		4.4.2022	29.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		4.4.2022	29.7.2022’;

(xxv) in the entry for the United States, the rows for the zone US-2.104 are replaced by the following:

‘US United States	US-2.104	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		5.4.2022	2.8.2022
		Breeding ratites and productive ratites	BPR	N, P1		5.4.2022	2.8.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		5.4.2022	2.8.2022
		Ratites intended for slaughter	SR	N, P1		5.4.2022	2.8.2022
		Day-old chicks other than ratites	DOC	N, P1		5.4.2022	2.8.2022
		Day-old chicks of ratites	DOR	N, P1		5.4.2022	2.8.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		5.4.2022	2.8.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		5.4.2022	2.8.2022
		Hatching eggs of ratites	HER	N, P1		5.4.2022	2.8.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		5.4.2022	2.8.2022’;

(xxvi) in the entry for the United States, the rows for the zone US-2.127 are replaced by the following:

‘US United States	US-2.127	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		9.4.2022	29.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		9.4.2022	29.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		9.4.2022	29.7.2022
		Ratites intended for slaughter	SR	N, P1		9.4.2022	29.7.2022
		Day-old chicks other than ratites	DOC	N, P1		9.4.2022	29.7.2022
		Day-old chicks of ratites	DOR	N, P1		9.4.2022	29.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		9.4.2022	29.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		9.4.2022	29.7.2022
		Hatching eggs of ratites	HER	N, P1		9.4.2022	29.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		9.4.2022	29.7.2022’;

(xxvii) in the entry for the United States, the rows for the zone US-2.141 are replaced by the following:

US United States	US-2.141	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		13.4.2022	26.7.2022
		Breeding ratites and productive ratites	BPR	N, P1		13.4.2022	26.7.2022
		Poultry intended for slaughter other than ratites	SP	N, P1		13.4.2022	26.7.2022
		Ratites intended for slaughter	SR	N, P1		13.4.2022	26.7.2022
		Day-old chicks other than ratites	DOC	N, P1		13.4.2022	26.7.2022
		Day-old chicks of ratites	DOR	N, P1		13.4.2022	26.7.2022
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		13.4.2022	26.7.2022
		Hatching eggs of poultry other than ratites	HEP	N, P1		13.4.2022	26.7.2022
		Hatching eggs of ratites	HER	N, P1		13.4.2022	26.7.2022
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		13.4.2022	26.7.2022;

(xxviii) in the entry for the United States, the following rows for the zones US-2.231 to US-2.238 are added after the rows for the zone US-2.230:

US United States	US-2.231	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		12.7.2022	
		Breeding ratites and productive ratites	BPR	N, P1		12.7.2022	
		Poultry intended for slaughter other than ratites	SP	N, P1		12.7.2022	
		Ratites intended for slaughter	SR	N, P1		12.7.2022	
		Day-old chicks other than ratites	DOC	N, P1		12.7.2022	
		Day-old chicks of ratites	DOR	N, P1		12.7.2022	
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		12.7.2022	
		Hatching eggs of poultry other than ratites	HEP	N, P1		12.7.2022	
		Hatching eggs of ratites	HER	N, P1		12.7.2022	
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		12.7.2022	

US-2.232	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		14.7.2022	
	Breeding ratites and productive ratites	BPR	N, P1		14.7.2022	
	Poultry intended for slaughter other than ratites	SP	N, P1		14.7.2022	
	Ratites intended for slaughter	SR	N, P1		14.7.2022	
	Day-old chicks other than ratites	DOC	N, P1		14.7.2022	
	Day-old chicks of ratites	DOR	N, P1		14.7.2022	
	Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		14.7.2022	
	Hatching eggs of poultry other than ratites	HEP	N, P1		14.7.2022	
	Hatching eggs of ratites	HER	N, P1		14.7.2022	
	Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		14.7.2022	
US-2.233	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		15.7.2022	
	Breeding ratites and productive ratites	BPR	N, P1		15.7.2022	
	Poultry intended for slaughter other than ratites	SP	N, P1		15.7.2022	
	Ratites intended for slaughter	SR	N, P1		15.7.2022	
	Day-old chicks other than ratites	DOC	N, P1		15.7.2022	
	Day-old chicks of ratites	DOR	N, P1		15.7.2022	
	Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		15.7.2022	
	Hatching eggs of poultry other than ratites	HEP	N, P1		15.7.2022	
	Hatching eggs of ratites	HER	N, P1		15.7.2022	
	Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		15.7.2022	
US-2.234	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		18.7.2022	
	Breeding ratites and productive ratites	BPR	N, P1		18.7.2022	
	Poultry intended for slaughter other than ratites	SP	N, P1		18.7.2022	
	Ratites intended for slaughter	SR	N, P1		18.7.2022	

		Day-old chicks other than ratites	DOC	N, P1		18.7.2022	
		Day-old chicks of ratites	DOR	N, P1		18.7.2022	
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		18.7.2022	
		Hatching eggs of poultry other than ratites	HEP	N, P1		18.7.2022	
		Hatching eggs of ratites	HER	N, P1		18.7.2022	
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		18.7.2022	
	US-2.235	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		19.7.2022	
		Breeding ratites and productive ratites	BPR	N, P1		19.7.2022	
		Poultry intended for slaughter other than ratites	SP	N, P1		19.7.2022	
		Ratites intended for slaughter	SR	N, P1		19.7.2022	
		Day-old chicks other than ratites	DOC	N, P1		19.7.2022	
		Day-old chicks of ratites	DOR	N, P1		19.7.2022	
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		19.7.2022	
		Hatching eggs of poultry other than ratites	HEP	N, P1		19.7.2022	
		Hatching eggs of ratites	HER	N, P1		19.7.2022	
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		19.7.2022	
	US-2.236	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		19.7.2022	
		Breeding ratites and productive ratites	BPR	N, P1		19.7.2022	
		Poultry intended for slaughter other than ratites	SP	N, P1		19.7.2022	
		Ratites intended for slaughter	SR	N, P1		19.7.2022	
		Day-old chicks other than ratites	DOC	N, P1		19.7.2022	
		Day-old chicks of ratites	DOR	N, P1		19.7.2022	
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		19.7.2022	

		Hatching eggs of poultry other than ratites	HEP	N, P1		19.7.2022	
		Hatching eggs of ratites	HER	N, P1		19.7.2022	
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		19.7.2022	
	US-2.237	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		21.7.2022	
		Breeding ratites and productive ratites	BPR	N, P1		21.7.2022	
		Poultry intended for slaughter other than ratites	SP	N, P1		21.7.2022	
		Ratites intended for slaughter	SR	N, P1		21.7.2022	
		Day-old chicks other than ratites	DOC	N, P1		21.7.2022	
		Day-old chicks of ratites	DOR	N, P1		21.7.2022	
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		21.7.2022	
		Hatching eggs of poultry other than ratites	HEP	N, P1		21.7.2022	
		Hatching eggs of ratites	HER	N, P1		21.7.2022	
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		21.7.2022	
	US-2.238	Breeding poultry other than ratites and productive poultry other than ratites	BPP	N, P1		26.7.2022	
		Breeding ratites and productive ratites	BPR	N, P1		26.7.2022	
		Poultry intended for slaughter other than ratites	SP	N, P1		26.7.2022	
		Ratites intended for slaughter	SR	N, P1		26.7.2022	
		Day-old chicks other than ratites	DOC	N, P1		26.7.2022	
		Day-old chicks of ratites	DOR	N, P1		26.7.2022	
		Less than 20 heads of poultry other than ratites	POU-LT20	N, P1		26.7.2022	
		Hatching eggs of poultry other than ratites	HEP	N, P1		26.7.2022	
		Hatching eggs of ratites	HER	N, P1		26.7.2022	
		Less than 20 hatching eggs of poultry other than ratites	HE-LT20	N, P1		26.7.2022;	

(b) Part 2 is amended as follows:

(i) in the entry for Canada, the following description of the zone CA-2.74 is added after the description of the zone CA-2.73:

'Canada	CA-2.74	Quebec- Latitude 46.96 Longitude -71.5 The municipalities involved are: 3km PZ: Bull Pen and Saint-Gabriel-de-Valcartier 10km SZ: Labrecque, Lac-Delage, Le Noyé, Quebec City, Shannon and Stoneham et Twekesbury';
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(ii) in the entry for the United Kingdom, the following descriptions of the zones GB-2.127 and GB-2.128 are added after the description of the zone GB-2.126:

'United Kingdom	GB-2.127	Birsay, Orkney Islands, Scotland. The area contained with a circle of a radius of 10km, centred on WGS84 dec, coordinates N59.13 and W3.29.
	GB-2.128	Near Dartington, South Hams, Devon, England. The area contained with a circle of a radius of 10km, centred on WGS84 dec, coordinates N50.40 and W3.72.';

(iii) in the entry for the United States, the following description of the zones US-2.231 to US-2.238 is added after the description of the zone US-2.230:

'United States	US-2.231	State of Oregon - Deschutes 01 Deschutes County: A circular zone of a 10 km radius starting with North point (GPS coordinates: 121.2872395°W 44.1692548°N).
	US-2.232	State of Utah- Sanpete 01 Sanpete County: A circular zone of a 10 km radius starting with North point (GPS coordinates: 111.6375209°W 39.6123998°N).
	US-2.233	State of Oregon - Deschutes 02 Deschutes County: A circular zone of a 10 km radius starting with North point (GPS coordinates: 121.2486956°W 44.1634153°N).
	US-2.234	State of Washington Snohomish County: A circular zone of a 10 km radius starting with North point (GPS coordinates: 122.1472576°W 47.9057927°N)
	US-2.235	State of Oregon - Deschutes 03 Deschutes County: A circular zone of a 10 km radius starting with North point (GPS coordinates: 121.2109247°W 44.1613055°N).

	US-2.236	State of Utah - Sanpete 02 Sanpete County: A circular zone of a 10 km radius starting with North point (GPS coordinates: 111.6548896°W 39.5656976°N).
	US-2.237	State of Oregon - Deschutes 04 Deschutes County: A circular zone of a 10 km radius starting with North point (GPS coordinates: 121.2791824°W 44.2717954°N)
	US-2.238	State of Utah - Sanpete 03 Sanpete County: A circular zone of a 10 km radius starting with North point (GPS coordinates: 111.6496462°W 39.6123778°N);

(2) in Annex XIV, Part 1 is amended as follows:

(i) in the entry for Canada, the rows for the zone CA-2.14 are replaced by the following:

'CA Canada	CA-2.14	Fresh meat of poultry other than ratites	POU	N, P1		11.4.2022	4.8.2022
		Fresh meat of ratites	RAT	N, P1		11.4.2022	4.8.2022
		Fresh meat of game birds	GBM	P1		11.4.2022	4.8.2022';

(ii) in the entry for Canada, the rows for the zone CA-2.29 are replaced by the following:

'CA Canada	CA-2.29	Fresh meat of poultry other than ratites	POU	N, P1		21.4.2022	18.7.2022
		Fresh meat of ratites	RAT	N, P1		21.4.2022	18.7.2022
		Fresh meat of game birds	GBM	P1		21.4.2022	18.7.2022';

(iii) in the entry for Canada, the following rows for the zone CA-2.74 are added after the rows for the zone CA-2.73:

'CA Canada	CA-2.74	Fresh meat of poultry other than ratites	POU	N, P1		9.7.2022	
		Fresh meat of ratites	RAT	N, P1		9.7.2022	
		Fresh meat of game birds	GBM	P1		9.7.2022';	

(iv) in the entry for the United Kingdom, the rows for the zone GB-2.101 are replaced by the following:

'GB United King- dom	GB-2.101	Fresh meat of poultry other than ratites	POU	N, P1		23.2.2022	4.7.2022
		Fresh meat of ratites	RAT	N, P1		23.2.2022	4.7.2022
		Fresh meat of game birds	GBM	P1		23.2.2022	4.7.2022';

(v) in the entry for the United Kingdom, the rows for the zones GB-2.103 and GB-2.104 are replaced by the following:

'GB United King- dom	GB-2.103	Fresh meat of poultry other than ratites	POU	N, P1		26.2.2022	21.7.2022
		Fresh meat of ratites	RAT	N, P1		26.2.2022	21.7.2022
		Fresh meat of game birds	GBM	P1		26.2.2022	21.7.2022
	GB-2.104	Fresh meat of poultry other than ratites	POU	N, P1		1.3.2022	21.7.2022
		Fresh meat of ratites	RAT	N, P1		1.3.2022	21.7.2022
		Fresh meat of game birds	GBM	P1		1.3.2022	21.7.2022';

(vi) in the entry for the United Kingdom, the rows for the zones GB-2.106 and GB-2.107 are replaced by the following:

'GB United King- dom	GB-2.106	Fresh meat of poultry other than ratites	POU	N, P1		12.3.2022	21.7.2022
		Fresh meat of ratites	RAT	N, P1		12.3.2022	21.7.2022
		Fresh meat of game birds	GBM	P1		12.3.2022	21.7.2022
	GB-2.107	Fresh meat of poultry other than ratites	POU	N, P1		12.3.2022	21.7.2022
		Fresh meat of ratites	RAT	N, P1		12.3.2022	21.7.2022
		Fresh meat of game birds	GBM	P1		12.3.2022	21.7.2022';

(vii) in the entry for the United Kingdom, the rows for the zone GB-2.112 are replaced by the following:

'GB United King- dom	GB-2.112	Fresh meat of poultry other than ratites	POU	N, P1		28.3.2022	21.7.2022
		Fresh meat of ratites	RAT	N, P1		28.3.2022	21.7.2022
		Fresh meat of game birds	GBM	P1		28.3.2022	21.7.2022';

(viii) in the entry for the United Kingdom, the rows for the zone GB-2.114 are replaced by the following:

'GB United King- dom	GB-2.114	Fresh meat of poultry other than ratites	POU	N, P1		6.4.2022	15.7.2022
		Fresh meat of ratites	RAT	N, P1		6.4.2022	15.7.2022
		Fresh meat of game birds	GBM	P1		6.4.2022	15.7.2022';

(ix) in the entry for the United Kingdom, the rows for the zone GB-2.116 are replaced by the following:

‘GB United King- dom	GB-2.116	Fresh meat of poultry other than ratites	POU	N, P1		7.4.2022	15.7.2022
		Fresh meat of ratites	RAT	N, P1		7.4.2022	15.7.2022
		Fresh meat of game birds	GBM	P1		7.4.2022	15.7.2022’;

(x) in the entry for the United Kingdom, the rows for the zones GB-2.118 to GB-2.120 are replaced by the following:

‘GB United King- dom	GB-2.118	Fresh meat of poultry other than ratites	POU	N, P1		8.4.2022	21.7.2022
		Fresh meat of ratites	RAT	N, P1		8.4.2022	21.7.2022
		Fresh meat of game birds	GBM	P1		8.4.2022	21.7.2022
	GB-2.119	Fresh meat of poultry other than ratites	POU	N, P1		13.4.2022	15.7.2022
		Fresh meat of ratites	RAT	N, P1		13.4.2022	15.7.2022
		Fresh meat of game birds	GBM	P1		13.4.2022	15.7.2022
	GB-2.120	Fresh meat of poultry other than ratites	POU	N, P1		22.4.2022	27.7.2022
		Fresh meat of ratites	RAT	N, P1		22.4.2022	27.7.2022
		Fresh meat of game birds	GBM	P1		22.4.2022	27.7.2022’;

(xi) in the entry for the United Kingdom, the rows for the zones GB-2.127 and GB-2.128 are added after the row for the zone GB-2.126:

‘GB United King- dom	GB-2.127	Fresh meat of poultry other than ratites	POU	N, P1		6.7.2022	
		Fresh meat of ratites	RAT	N, P1		6.7.2022	
		Fresh meat of game birds	GBM	P1		6.7.2022	
	GB-2.128	Fresh meat of poultry other than ratites	POU	N, P1		21.7.2022	
		Fresh meat of ratites	RAT	N, P1		21.7.2022	
		Fresh meat of game birds	GBM	P1		21.7.2022’;	

(xii) in the entry for the United States, the rows for the zones US-2.9 and US-2.10 are replaced by the following:

‘US United States	US-2.9	Fresh meat of poultry other than ratites	POU	N, P1		23.2.2022	4.8.2022
		Fresh meat of ratites	RAT	N, P1		23.2.2022	4.8.2022
		Fresh meat of game birds	GBM	P1		23.2.2022	4.8.2022
	US-2.10	Fresh meat of poultry other than ratites	POU	N, P1		23.2.2022	4.8.2022
		Fresh meat of ratites	RAT	N, P1		23.2.2022	4.8.2022
		Fresh meat of game birds	GBM	P1		23.2.2022	4.8.2022’;

(xiii) in the entry for the United States, the rows for the zones US-2.26 and US-2.27 are replaced by the following:

‘US United States	US-2.26	Fresh meat of poultry other than ratites	POU	N, P1		17.3.2022	29.7.2022
		Fresh meat of ratites	RAT	N, P1		17.3.2022	29.7.2022
		Fresh meat of game birds	GBM	P1		17.3.2022	29.7.2022
	US-2.27	Fresh meat of poultry other than ratites	POU	N, P1		17.3.2022	3.8.2022
		Fresh meat of ratites	RAT	N, P1		17.3.2022	3.8.2022
		Fresh meat of game birds	GBM	P1		17.3.2022	3.8.2022’;

(xiv) in the entry for the United States, the rows for the zone US-2.30 are replaced by the following:

‘US United States	US-2.30	Fresh meat of poultry other than ratites	POU	N, P1		18.3.2022	26.7.2022
		Fresh meat of ratites	RAT	N, P1		18.3.2022	26.7.2022
		Fresh meat of game birds	GBM	P1		18.3.2022	26.7.2022’;

(xv) in the entry for the United States, the rows for the zone US-2.32 are replaced by the following:

‘US United States	US-2.32	Fresh meat of poultry other than ratites	POU	N, P1		20.3.2022	26.7.2022
		Fresh meat of ratites	RAT	N, P1		20.3.2022	26.7.2022
		Fresh meat of game birds	GBM	P1		20.3.2022	26.7.2022’;

(xvi) in the entry for the United States, the rows for the zone US-2.35 are replaced by the following:

‘US United States	US-2.35	Fresh meat of poultry other than ratites	POU	N, P1		22.3.2022	25.7.2022
		Fresh meat of ratites	RAT	N, P1		22.3.2022	25.7.2022
		Fresh meat of game birds	GBM	P1		22.3.2022	25.7.2022’;

(xvii) in the entry for the United States, the rows for the zone US-2.38 are replaced by the following:

‘US United States	US-2.38	Fresh meat of poultry other than ratites	POU	N, P1		23.3.2022	25.7.2022
		Fresh meat of ratites	RAT	N, P1		23.3.2022	25.7.2022
		Fresh meat of game birds	GBM	P1		23.3.2022	25.7.2022’;

(xviii) in the entry for the United States, the rows for the zone US-2.44 are replaced by the following:

‘US United States	US-2.44	Fresh meat of poultry other than ratites	POU	N, P1		25.3.2022	28.7.2022
		Fresh meat of ratites	RAT	N, P1		25.3.2022	28.7.2022
		Fresh meat of game birds	GBM	P1		25.3.2022	28.7.2022’;

(xix) in the entry for the United States, the rows for the zones US-2.49 and US-2.50 are replaced by the following:

‘US United States	US-2.49	Fresh meat of poultry other than ratites	POU	N, P1		25.3.2022	26.7.2022
		Fresh meat of ratites	RAT	N, P1		25.3.2022	26.7.2022
		Fresh meat of game birds	GBM	P1		25.3.2022	26.7.2022
	US-2.50	Fresh meat of poultry other than ratites	POU	N, P1		27.3.2022	4.8.2022
		Fresh meat of ratites	RAT	N, P1		27.3.2022	4.8.2022
		Fresh meat of game birds	GBM	P1		27.3.2022	4.8.2022’;

(xx) in the entry for the United States, the rows for the zone US-2.53 are replaced by the following:

‘US United States	US-2.53	Fresh meat of poultry other than ratites	POU	N, P1		29.3.2022	30.7.2022
		Fresh meat of ratites	RAT	N, P1		29.3.2022	30.7.2022
		Fresh meat of game birds	GBM	P1		29.3.2022	30.7.2022’;

(xxi) in the entry for the United States, the rows for the zone US-2.56 are replaced by the following:

‘US United States	US-2.56	Fresh meat of poultry other than ratites	POU	N, P1		28.3.2022	29.7.2022
		Fresh meat of ratites	RAT	N, P1		28.3.2022	29.7.2022
		Fresh meat of game birds	GBM	P1		28.3.2022	29.7.2022’;

(xxii) in the entry for the United States, the rows for the zone US-2.64 are replaced by the following:

‘US United States	US-2.64	Fresh meat of poultry other than ratites	POU	N, P1		30.3.2022	2.8.2022
		Fresh meat of ratites	RAT	N, P1		30.3.2022	2.8.2022
		Fresh meat of game birds	GBM	P1		30.3.2022	2.8.2022’;

(xxiii) in the entry for the United States, the rows for the zone US-2.73 are replaced by the following:

‘US United States	US-2.73	Fresh meat of poultry other than ratites	POU	N, P1		2.4.2022	2.8.2022
		Fresh meat of ratites	RAT	N, P1		2.4.2022	2.8.2022
		Fresh meat of game birds	GBM	P1		2.4.2022	2.8.2022’;

(xiv) in the entry for the United States, the rows for the zone US-2.87 are replaced by the following:

‘US United States	US-2.87	Fresh meat of poultry other than ratites	POU	N, P1		4.4.2022	29.7.2022
		Fresh meat of ratites	RAT	N, P1		4.4.2022	29.7.2022
		Fresh meat of game birds	GBM	P1		4.4.2022	29.7.2022’;

(xxv) in the entry for the United States, the rows for the zone US-2.104 are replaced by the following:

‘US United States	US-2.104	Fresh meat of poultry other than ratites	POU	N, P1		5.4.2022	2.8.2022
		Fresh meat of ratites	RAT	N, P1		5.4.2022	2.8.2022
		Fresh meat of game birds	GBM	P1		5.4.2022	2.8.2022’;

(xxvi) in the entry for the United States, the rows for the zone US-2.127 are replaced by the following:

‘US United States	US-2.127	Fresh meat of poultry other than ratites	POU	N, P1		9.4.2022	29.7.2022
		Fresh meat of ratites	RAT	N, P1		9.4.2022	29.7.2022
		Fresh meat of game birds	GBM	P1		9.4.2022	29.7.2022’;

(xxvii) in the entry for the United States, the rows for the zone US-2.141 are replaced by the following:

‘US United States	US-2.141	Fresh meat of poultry other than ratites	POU	N, P1		13.4.2022	26.7.2022
		Fresh meat of ratites	RAT	N, P1		13.4.2022	26.7.2022
		Fresh meat of game birds	GBM	P1		13.4.2022	26.7.2022’;

(xxviii) in the entry for the United States, the rows for the zones US-2.231 to US-2.238 are added after the row for the zone US-2.230:

‘US United States	US-2.231	Fresh meat of poultry other than ratites	POU	N, P1		12.7.2022	
		Fresh meat of ratites	RAT	N, P1		12.7.2022	
		Fresh meat of game birds	GBM	P1		12.7.2022	
	US-2.232	Fresh meat of poultry other than ratites	POU	N, P1		14.7.2022	
		Fresh meat of ratites	RAT	N, P1		14.7.2022	
		Fresh meat of game birds	GBM	P1		14.7.2022	
	US-2.233	Fresh meat of poultry other than ratites	POU	N, P1		15.7.2022	
		Fresh meat of ratites	RAT	N, P1		15.7.2022	
		Fresh meat of game birds	GBM	P1		15.7.2022	
	US-2.234	Fresh meat of poultry other than ratites	POU	N, P1		18.7.2022	
		Fresh meat of ratites	RAT	N, P1		18.7.2022	

		Fresh meat of game birds	GBM	P1		18.7.2022	
US-2.235		Fresh meat of poultry other than ratites	POU	N, P1		19.7.2022	
		Fresh meat of ratites	RAT	N, P1		19.7.2022	
		Fresh meat of game birds	GBM	P1		19.7.2022	
US-2.236		Fresh meat of poultry other than ratites	POU	N, P1		19.7.2022	
		Fresh meat of ratites	RAT	N, P1		19.7.2022	
		Fresh meat of game birds	GBM	P1		19.7.2022	
US-2.237		Fresh meat of poultry other than ratites	POU	N, P1		21.7.2022	
		Fresh meat of ratites	RAT	N, P1		21.7.2022	
		Fresh meat of game birds	GBM	P1		21.7.2022	
US-2.238		Fresh meat of poultry other than ratites	POU	N, P1		26.7.2022	
		Fresh meat of ratites	RAT	N, P1		26.7.2022	
		Fresh meat of game birds	GBM	P1		26.7.2022	

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