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TEXTS FOR ADOPTION AS REVISED/NEW UNECE STANDARDS

Apples

Note by the secretariat

This text is submitted to the Working Party for approval as a revised Standard for Apples.

It is based on document TRADE/WP.7/GE.1/2005/18/Add.2, the text of which was agreed upon at the May 2007 session of the Specialized Section on Standardization of Fresh Fruit and Vegetables.

UNECE STANDARD FFV-50

concerning the marketing and commercial quality control of

APPLES

I. DEFINITION OF PRODUCE

This standard applies to apples of varieties (cultivars) grown from *Malus domestica* Borkh. to be supplied fresh to the consumer, apples for industrial processing being excluded.

II. PROVISIONS CONCERNING QUALITY

The purpose of the standard is to define the quality requirements of apples at the export-control stage after preparation and packaging.

However, if applied at stages following export, products may show in relation to the requirements of the standard:

- a slight lack of freshness and turgidity
- for products graded in classes other than the “Extra” class, a slight deterioration due to their development and their tendency to perish.

The holder/seller of products may not display such products or offer them for sale, or deliver or market them in any manner other than in conformity with this standard. The holder shall be responsible for observing such conformity.

A. Minimum requirements

In all classes, subject to the special provisions for each class and the tolerances allowed, the apples must be:

- intact
- sound; produce affected by rotting or deterioration such as to make it unfit for consumption is excluded
- clean, practically free of any visible foreign matter
- practically free from pests
- free from damage caused by pests affecting the flesh
- free of abnormal external moisture
- free of any foreign smell and/or taste.

The development and condition of the apples must be such as to enable them:

- to withstand transportation and handling
- to arrive in satisfactory condition at the place of destination.

B. Minimum maturity requirements

The apples must be sufficiently developed, and display satisfactory ripeness.

The development and state of maturity of the apples must be such as to enable them to continue their ripening process and to reach the degree of ripeness required in relation to the varietal characteristics.¹

In order to verify the minimum maturity requirements, several parameters can be considered (e.g. morphological aspect, taste, firmness and refractometric index).

C. Classification

Apples are classified in three classes, as defined below:

(i) “Extra” Class

Apples in this class must be of superior quality. In shape, size and colouring they must be characteristic of the variety² and the stalk must be intact.

The flesh must be perfectly sound.

They must be free from defects, with the exception of very slight superficial defects, provided these do not affect the general appearance of the fruit, the quality, the keeping quality and presentation in the package.

(ii) Class I

Apples in this class must be of good quality. In shape, size and colouring they must be characteristic of the variety.²

The flesh must be perfectly sound.

The following slight defects, however, may be allowed, on individual fruit provided these do not affect the general appearance of the produce, the quality, the keeping quality and presentation in the package:

- a slight defect in shape
- a slight defect in development
- slight defects in colouring
- slight bruising not exceeding 1 cm² in area and not discoloured
- slight skin defects, provided they are not progressive, which must not extend over more than:
 - 2 cm in length for defects of elongated shape

¹ Due to varietal characteristics of the Fuji variety and its mutants concerning maturity at harvest, radial watercore is permitted providing it is contained within the vascular bundles of each fruit.

² The criteria for colouring and russetting as well as a non-exhaustive list of varieties are set out in the annex to this standard.

- 1 cm² of the total surface area for other defects, with the exception of scab (*Venturia inaequalis*), which must not extend over more than 0.25 cm², cumulative, in area.

The stalk may be missing, provided the break is clean and the adjacent skin is not damaged.

(iii) Class II

This class includes apples that do not qualify for inclusion in the higher classes but satisfy the minimum requirements specified above.²

The flesh must be free from major defects.

The following defects are allowed, provided the fruit retains its essential characteristics as regards the quality, the keeping quality and presentation:

- defects in shape
- defects in development
- defects in colouring
- slight bruising not exceeding 1.5 cm² in area which may be slightly discoloured
- skin defects, provided they are not progressive, which must not extend over more than:
 - 4 cm in length for defects of elongated shape
 - 2.5 cm² total surface area for other defects, with the exception of scab (*Venturia inaequalis*), which must not extend over more than 1 cm², cumulative, in area.

III. PROVISIONS CONCERNING SIZING

Size is determined either by the maximum diameter of the equatorial section or by weight.

For all varieties and for all classes the minimum size is 60 mm, if measured by diameter or 90 g, if measured by weight. Fruit of smaller sizes may be accepted, if the Brix level of the produce greater than or equal to 10.5° Brix and the size is not smaller than 50 mm or 70 g.

To ensure there is uniformity of size:

For fruit sized according to the diameter, the difference in diameter between fruit in the same package shall be limited to:

- 5 mm for “Extra” Class fruit and for Classes I and II fruit packed in rows and layers³

³ However, for apples of the varieties Bramley's Seedling (Bramley, Triomphe de Kiel) and Horneburger, the difference in diameter may amount to 10 mm.

- 10 mm for Class I fruit packed loose in the package or in consumer packages.⁴

For fruit sized according to weight, the difference in weight between fruit in the same package shall be limited to:

- 20% of the average individual fruit weight in the package for “Extra” Class fruit and for Classes I and II fruit packed in rows and layers
- 25% of the average individual fruit weight in the package for Class I fruit packed loose in the package or in consumer packages.

There is no sizing uniformity requirement for Class II fruit packed loose in the package or in consumer packages.

IV. PROVISIONS CONCERNING TOLERANCES

Tolerances in respect of quality and size shall be allowed in each lot for produce not satisfying the requirements of the class indicated.

A. Quality tolerances

(i) “Extra” Class

A total tolerance of 5 per cent, by number or weight, of apples not satisfying the requirements of the class, but meeting those of Class I is allowed. Within this tolerance not more than 0.5 per cent in total may consist of produce satisfying the requirements of Class II quality.

(ii) Class I

A total tolerance of 10 per cent, by number or weight, of apples not satisfying the requirements of the class, but meeting those of Class II is allowed. Within this tolerance not more than 1 per cent in total may consist of produce not satisfying the requirements of Class II quality or the minimum requirements. Produce affected by rotting or any other deterioration rendering it unfit for consumption is excluded.

(iii) Class II

A total tolerance of 10 per cent, by number or weight, of apples satisfying neither the requirements of the class nor the minimum requirements is allowed. Produce affected by rotting or any other deterioration rendering it unfit for consumption is excluded.

Within this tolerance, a maximum of 2 per cent, by number or weight, of fruit is allowed which shows the following defects:

⁴ However, for apples of the varieties Bramley's Seedling (Bramley, Triomphe de Kiel) and Horneburger, the difference in diameter may amount to 20 mm.

- serious attacks of cork (bitter pit) or water-core
- slight damage or unhealed cracks
- very slight traces of rot
- presence of internal feeding pests and/or damage to the flesh caused by pests.

B. Size tolerances

For all classes: 10 per cent, by number or weight, of fruit not satisfying the requirements as regards sizing. This tolerance may not be extended to include produce with a size:

- 5 mm below the minimum diameter, when size is determined by diameter
- 10 g below the minimum weight, when size is determined by weight.

V. PROVISIONS CONCERNING PRESENTATION

A. Uniformity

The contents of each package must be uniform and contain only apples of the same origin, variety, quality, and size (if sized) and the same degree of ripeness.

In the case of the “Extra” Class, uniformity also applies to colouring.

The visible part of the contents of the package must be representative of the entire contents.

Uniformity of variety and origin are not required for apples in consumer packages of a net weight not exceeding 5 kg.

B. Packaging

The apples must be packed in such a way as to protect the produce properly. In particular, consumer packages of a net weight exceeding 3kg shall be sufficiently rigid to ensure proper protection of the produce.

The materials used inside the package must be clean and of a quality such as to avoid causing any external or internal damage to the produce. The use of materials, particularly of paper or stamps bearing trade specifications, is allowed, provided the printing or labelling has been done with non-toxic ink or glue.

Stickers individually affixed to the produce shall be such that, when removed, they neither leave visible traces of glue, nor lead to skin defects.

Packages must be free of all foreign matter.

VI. PROVISIONS CONCERNING MARKING

Each package⁵ must bear the following particulars, in letters grouped on the same side, legibly and indelibly marked, and visible from the outside:

A. Identification

Packer) Name and physical address (e.g. street/city/region/postal code and,
and/or) if different from the country of origin, the country) or
Dispatcher) a code mark officially recognized by the national authority⁶

B. Nature of produce

- “Apples”, if the contents are not visible from the outside
- Name of the variety. In the case of consumer packages containing a mixture of apples of different varieties, names of the different varieties.

C. Origin of produce

- Country of origin and, optionally, district where grown, or national, regional or local place name. In the case of consumer packages containing a mixture of varieties of apples of different origins, the indication of each country of origin shall appear next to the name of the variety concerned.

D. Commercial specifications

- Class
- Size, or for fruit packed in rows and layers, number of units.

If identification is by the size, this should be expressed:

- (a) for produce subject to the uniformity rules, as minimum and maximum diameters or minimum and maximum weight;
- (b) for produce not subject to the uniformity rules, the diameter or weight of the smallest fruit in the package followed by “and over” or equivalent denomination or, if appropriate the diameter or weight of the largest fruit in the package.

E. Official control mark (optional)

⁵ Package units of produce prepacked for direct sale to the consumer shall not be subject to these marking provisions but shall conform to the national requirements. However, the markings referred to shall in any event be shown on the transport packaging containing such package units.

⁶ The national legislation of a number of countries requires the explicit declaration of the name and address. However, in the case where a code mark is used, the reference “packer and/or dispatcher (or equivalent abbreviations)” has to be indicated in close connection with the code mark, and the code mark should be preceded by the ISO 3166 (alpha) country/area code of the recognizing country, if not the country of origin.

Annex

Non-Exhaustive List of Apple Varieties⁷

Some of the varieties listed in the following may be marketed under names for which trademark protection has been sought or obtained in one or more countries. Names believed by the United Nations to be varietal names are listed in the first column. Other names by which the United Nations believes the variety may be known are listed in the second column. Neither of these two lists is intended to include trademarks. References to known trademarks have been included in the third column for information only. The presence of any trademarks in the third column does not constitute any licence or permission to use that trademark – such licence must come directly from the trademark owner. In addition, the absence of a trademark in the third column does not constitute any indication that there is no registered/pending trademark for such a variety.⁸

⁷ Fruits of varieties that are not part of the list must be graded according to their varietal characteristics. Coloured and/or large fruited varieties as well as those showing a characteristic russeting should be included in the list to provide information about the varietal characteristics. The update of the list may be requested through the Specialized Section for the Standardization of Fresh Fruit and Vegetables.

⁸ Some of the varietal names listed in the first column may indicate varieties for which patent protection has been obtained in one or more countries. Such proprietary varieties may only be produced or traded by those authorized by the patent holder to do so under an appropriate licence. The United Nations takes no position as to the validity of any such patent or the rights of any such patent-holder or its licensee regarding the production or trading of any such variety.

The United Nations endeavoured to ensure that no trademark names are listed in columns 1 and 2 of the table. However, it is the responsibility of any trademark owner to notify the United Nations promptly if a trademark name has been included in the table and to provide the United Nations (see address below) with an appropriate varietal, or generic name for the variety, as well as adequate evidence ownership of any applicable patent or trademark regarding such variety so that the list can be amended. Provided that no further information is needed from the trademark holder, the Working Party on Agricultural Quality Standards will change the list accordingly at the session following receipt of the information. The United Nations takes no position as to the validity of any such trademarks or the rights of any such trademark owners or their licensees.

Variety/ Variété/ Разновидность	Synonyms/ Synonymes/ Синонимы	Trade names/ Marque commerciale/ Товарное наименование	Colour group/ Groupe de coloration/ Группа окраски	Russetting/ Roussissement/ Степень буроватости	Size/ Calibre/ Размер
African Red		African Carmine TM	B		
Akane	Tohoku 3	Primerouge ®	B		
Alborz Seedling			C		
Aldas			B		
Alice			B		
Alkmene	Early Windsor		C		
*Alro			B		
Alwa			B		
*Amasya			B		
Angold			C		L
*Antej	Antei		B		L
Apollo	Beauty of Blackmoor		C		L
Arkcharm	Arkansas No 18, A 18		C		L
Arlet			B	R	
Aroma			C		
Red coloured mutants of Aroma e. g.			B		
Amorosa			B		
Auksis			B		
*Beacon			A		L
Belfort	Pella		B		
Belle de Boskoop and mutants				R	L
Belle fleur double					L
*Belorusskoje Maĭnovoje	Belorusskoe Malinovie, Byelorusskoe Malinovie		B		
Berlepsch	Freiherr von Berlepsch		C		
Berlepsch rouge	Red Berlepsch, Roter Berlepsch		B		
Blushed Golden					L
*Bogatir	Bogatyr				L
Bohemia			B		L
Boskoop rouge	Red Boskoop, Roter Boskoop		B	R	L

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Braeburn			B		L
Red coloured mutants of Braeburn e. g.			A		L
Hidala		Hillwell ®	A		L
Joburn		Aurora™, Red Braeburn™, Southern Rose™	A		L
Lochbuie Red Braeburn			A		L
Mahana Red		Redfield ®	A		L
Mariri Red		Eve™, Red Braeburn™, Southern Rose™	A		L
Redfield		Red Braeburn™, Southern Rose™	A		L
Royal Braeburn			A		L
Bramley's Seedling	Bramley, Triomphe de Kiel				L
Brettacher Sämling					L
Calvilles, Groupe des					L
Cardinal			B		
Carola	Kalco		C		L
Caudle		Cameo™	B		
Charden					L
Charles Ross					L
Civni		Rubens ®	B		
Coromandel Red	Corodel		A		
Cortland			B		L
Cox's Orange Pippin and mutants	Cox orange		C	R	
Red coloured mutants of Cox's Orange Pippin e. g.			B	R	
Cherry Cox			B	R	
Crimson Bramley					L
Cripps Pink		Pink Lady ®	C		

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Cripps Red		Sundowner™	C ⁹		
Dalinbel			B		
Delblush		Tentation ®			L
Delcorf and mutants e. g.		Delbarestivale ®	C		L
Dalili		Ambassy ®	C		L
Monidel			C		L
Delgollune		Delbard Jubilé ®	B		L
Delicious ordinaire	Ordinary Delicious		B		
Deljeni		Primgold ®			L
Delikates			B		
Delor			C		L
Discovery			C		
*Doč Melbi	Doch Melbi		C		L
Dunn's Seedling				R	
Dykman's Zoet			C		
Egremont Russet				R	
Elan					L
Elise	Red Delight	Roblos ®	A		L
Ellison's orange	Ellison		C		L
Elstar and mutants e. g.			C		
Daliter		Elton™	C		
Elshof			C		
Elstar Armhold			C		
Elstar Reinhardt			C		
Red coloured mutants of Elstar e. g.			B		
Bel-El		Red Elswout™	B		
Daliest		Elista™	B		

⁹ With minimum 20% for Class I and Class II.
Avec un minimum de 20 % pour les catégories I et II.
Минимум 20% для первого и второго сортов.

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Goedhof		Elnica™	B		
Red Elstar			B		
Valstar			B		
Empire			A		
Falstaff			C		
Fiesta	Red Pippin		C		
Florina		Querina®	B		L
*Forele			B		
Fortune				R	
Fuji and mutants			B		L
Gala			C		
Red coloured mutants of Gala e. g.			A		
Annaglo			A		
Baigent		Brookfield®	A		
Galaxy			A		
Mitchgla		Mondial Gala®	A		
Obrogala			A		
Regala			A		
Regal Prince		Gala Must®	A		
Tenroy		Royal Gala®	A		
Garcia					L
Ginger Gold					L
Gloster			B		L
Goldbohemia					L
Golden Delicious and mutants					L
Golden Russet				R	
Golden Supreme	Gradigold, Golden Extreme				L
Goldrush	Coop 38				L
Goldstar					L
Granny Smith					L
Gravenstein rouge	Red Gravenstein, Roter Gravensteiner		B		L

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Gravensteiner	Gravenstein				L
Greensleeves					L
Holsteiner Cox and mutants	Holstein			R	
Holstein rouge	Red Holstein, Roter Holsteiner Cox		C	R	
Honeycrisp		Honeycrunch ®	C		L
Honey gold					L
Horneburger					L
Howgate Wonder	Manga				L
Idared			B		L
*Iedzēnu			B		L
*Ilga			B		L
Ingrid Marie			B	R	
*Iron		Demir Apple	C	R	L
Isbranica			C		
Jacob Fisher					L
Jacques Lebel					L
Jamba			C		L
James Grieve and mutants					L
James Grieve rouge		Red James Grieve	B		L
Jarka			C		L
Jerseymac			B		
Jester					L
Jonagold ¹⁰ and mutants e. g.			C		L
Crowngold			C		L
Daligo			C		L
Daliguy	Jonasty		C		L
Dalijean	Jonamel		C		L

¹⁰ However, for the variety Jonagold at least one-tenth of the surface of the fruit in Class II must be striped with red colouring.

Toutefois, pour la variété Jonagold de la catégorie II, au moins 1/10 de la surface du fruit doit être de coloration rouge striée.

Однако у разновидности Jonagold по меньшей мере 1/10 поверхности плода второго сорта должна иметь полосы красного цвета.

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Jonagold 2000	Excel		C		L
Jonabel			C		L
Jonabres			C		L
King Jonagold			C		L
New Jonagold	Fukushima		C		L
Novajo	Veulemanns		C		L
Schneica	Jonica		C		L
Wilmuta			C		L
Jonagored and similar			A		L
coloured mutants of Jonagold e. g.			A		L
Decosta			A		L
Jomured	Van de Poel		A		L
Jonagold Boerekamp		Early Queen ®	A		L
Jomar		Marnica ®	A		L
Jonagored Supra			A		L
Jonaveld		First Red ®	A		L
Primo			A		L
Romagold	Surkijn		A		L
Rubinstar			A		L
Red Jonaprince		Wilton's ®, Red Prince ®	A		L
Jonalord			C		
Jonathan			B		
Julia			B		
Jupiter					L
Karmijn de Sonnaville			C	R	L
Katja	Katy		B		
Kent				R	
Kidd's Orange Red			C	R	
Kim			B		
*Koit			C		
*Koričnoje Novoje	Korichnoe Novoe, Korichnevoe Novoe		C		L
*Kovaļenkovskoje			B		

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*Krameri Tuvioun			B		
*Kukikovskoje			B		
Lady Williams			B		L
Lane's Prince Albert					L
Laxton's Superb			C	R	
Ligol			B		L
Lobo			B		
Lodel			A		
Lord Lambourne			C		
Maigold			B		
McIntosh			B		
*Meelis			B		L
*Melba			C		
Melodie			B		L
Melrose			C		L
Meridian			C		
Moonglo			C		
Morgenduft	Imperatore		B		L
Mutsu		Crispin ®			L
*Noris			B		
Normanda			C		L
Nueva Europa			C		
Nueva Orleans			B		L
Odin			B		
Ontario			B		L
*Orlik			B		
Orlovskoje polosatoje			C		
Ozark Gold					L
Paula Red			B		
Pero de Cirio					L
Piglos			B		L
Pikant			B		L
Pikkolo			C		
Pilot			C		

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Pimona			C		
Pinova		Corail ®	C		
Pirella		Pirol ®	B		L
Piros			C		L
*Prima			B		L
Rafzubex		RubINETTE ® Rosso	A		
Rafzubin		RubINETTE ®	C		
Rajka			B		
Rambour d'hiver					L
Rambour Franc			B		
Reanda			B		L
Rebella			C		L
Red Delicious and mutants e. g.			A		L
Erovan	Early Red One		A		L
Fortuna Delicious			A		L
Oregon	Oregon Spur Delicious		A		L
Otago			A		L
Red Chief			A		L
Red King			A		L
Red Spur			A		L
Red York			A		L
Richared			A		L
Royal Red			A		L
Shotwell Delicious			A		L
Stark Delicious			A		L
Starking			A		L
Starkrimson			A		L
Starkspur			A		L
Topred			A		L
Well Spur			A		L
Red Dougherty			A		
Red Rome			A		

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Redkroft			A		
Regal			A		
Regina			B		L
Reglindis			C		L
Reine des Reinettes	Gold Parmoné, Goldparmäne		C		
Reineta Encarnada			B		
Reinette Rouge du Canada			B		L
Reinette de Orléans					L
Reinette Blanche du Canada	Reinette du Canada, Canada Blanc, Kanadarenette			R	L
Reinette de France					L
Reinette de Landsberg					L
Reinette grise du Canada	Graue Kanadarenette			R	L
Relinda			C		
Remo			B		
Renora			B		L
Resi			B		
Resista					L
Retina			B		L
Rewena			B		L
Roja de Benejama	Verruga, Roja del Valle, Clavelina		A		
Rome Beauty	Belle de Rome, Rome		B		
Rosana			B		L
Royal Beaut			A		L
Rubin (Czech cultivar)			C		L
*Rubin (Kazakhstan cultivar)			B		L
Rubinola			B		L
*Rudens Svītrainais	Osennee Polosatoye, Rudeninis Dryzuotasis, Rudens Svitrotais, Streifling, Streifling Herbst, Sügisjoonik, Syysjuovikas and numerous others		C		L
*Saltanat			B		

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Sciearly		Pacific Beauty™	A		
Scifresh		Jazz™	B		
Sciglo		Southern Snap™	A		
Sciray	GS48		A		
Scired		Pacific Queen™	A	R	
Sciros		Pacific Rose™	A		L
Selena			B		L
Shampion			B		L
*Sidrunkollane Talioun					L
Sinap Orlovskij					L
Snygold	Earlygold				L
Sommerregent			C		
Spartan			A		
Splendour			A		
St. Edmunds Pippin				R	
Starks's Earliest			C		
Štaris	Staris		A		
Sturmer Pippin				R	
Summerred			B		
*Sügisdessert			C		L
Sunrise			A		
Sunset				R	
Suntan				R	L
Sweet Caroline			C		L
*Talvenauding			B	R	
*Tellisaare			B		
*Tiina	Tina		C		L
Topaz			B		
Tydeman's Early Worcester	Tydeman's Early		B		L
*Veteran			B		
Vista Bella	Bellavista		B		
Wealthy			B		
Worcester Pearmain			B		

Variety/ Variété/ Разновидность	Synonyms/ Synonymes/ Синонимы	Trade names/ Marque commerciale/ Товарное наименование	Colour group/ Groupe de coloration/ Группа окраски	Russetting/ Roussissement/ Степень буроватости	Size/ Calibre/ Размер
York			B		
*Zailijskoje	Zailiyskoe		B		
*Žigulovskoje	Zhigulevskoe		C		L

DEFINITIONS

1. Colouring, criteria for apples, colour groups and codes

Colour group	A	B	C
	total surface area of red colouring characteristic of the variety	total surface area of mixed red colouring characteristic of the variety	total surface area of slightly red coloured, blushed or striped characteristic of the variety
Class Extra	3/4	1/2	1/3
Class I	1/2	1/3	1/10
Class II	1/4	1/10	–

2. Russetting criteria for apples

R = Variety for which russetting is a characteristic of the skin and not a defect if it corresponds to the typical appearance of the variety.

For varieties not marked with an “R” in the list below, russetting is allowed within the following limits

	Extra	I	II	Tolerances for Class II
(i) Brown patches	not outside the stem cavity	may go slightly beyond the stem or pistil cavities	may go beyond the stem or pistil cavities	fruit not seriously detracting from the appearance and condition of the package
	not rough	not rough	slightly rough	
(ii) Russetting		Maximum surface area of the fruit permitted		
thin net-like russetting (not contrasting strongly with the general colouring of the fruit)	slight and isolated traces of russetting not altering the general appearance of the fruit or of the package	1/5	1/2	fruit not seriously detracting from the appearance and condition of the package
Heavy	None	1/20	1/3	fruit not seriously detracting from the appearance and condition of the package

Cumulative defects (with the exception of brown patches which are excluded from these cumulative defects) In no case may thin russetting and heavy russetting taken together exceed a maximum of:		1/5	½	fruit not seriously detracting from the appearance and condition of the package
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3. Size criteria for apples

L = Large fruited variety

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¹¹ The text of the standard for apples was previously part of a combined standard for apples and pears (FFV-01), published in 1960 and revised in 1996 and 2000. The OECD Scheme for the Application of International Standards for Fruit and Vegetables has published an explanatory illustrated brochure on the application of that standard. The publication may be obtained from the OECD bookshop at: www.oecdbookshop.org.