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WORKINGPAPERONDRAF TTESTGUIDELINESFO RAPRICOT (Prunusarmeniaca L.)

DocumentpreparedbyexpertsfromItalyandHungary

The attached document TG/70/4(proj.1) already incorporates the standard wording of document TGP/7.2, which was adopted by the Tech — nical Committee at its thirty—eighth session in April 2002, and includes some additional standard wording from document TGP/7.1 Draft 1,alsoagreedatthatsession.

[DocumentTG/70/4(proj.1)follows]





TG/70/4(proj.1)(TWF/33/13)

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INTERNATIONALUNIONFORTHEPROTECTIONOFNEWVARIETIESOFPLANTS

GENEVA

APRICOT*

(Prunusarmeniaca L.)*

GUIDELINES

FORTHECONDUCTOFTESTS

FORDISTINCTNESS, UNIFORM ITYANDSTABILITY

AlternativeNames: *

Latin	English	French	German	Spanish
PrunusarmeniacaL.	Apricot	Abricotier	Aprikose	Albaricoquero
ArmeniacavulgarisLam.	-	-	-	-

ASSOCIATEDDOCUMENTS

These guidel in esshould be read in conjunction with document TG/1/3, "General Introduction to the Examination of Distinctness, Uniformity and Stability and the Development of Harmonized Descriptions of New Varieties of Plants" (herein after referred to as the "General Introduction") and its associated "TGP" documents.

^{*} These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consul the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latestinformation.]

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1. <u>SubjectoftheseGuidelines</u>

TheseTestGuidelinesapplytoallvarietiesof *Prunusarmeniaca* L.

- 2. MaterialRequired
- 2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.
- 2.2 Thematerialistobesupplied in the form of plants.
- 2.3 Theminimum quantity of plantmaterial, to be supplied by the applicant, should be:

5trees(one -year-oldgrafts)or 3budsticksor 5dormantshootsforgrafting,sufficienttopropagate5trees

Therootstocktobeusedisspecifiedbythecompetentauthority.

- 2.4 The plant material supplied should be visibly healthy, not lacking in vigo r, nor affected by any important pestor disease. If it has been produced by invitro propagation this fact has to be stated by the applicant.
- 2.5 The plant material should not have undergone any treatment which would affect the expression of the charact eristics of the variety, unless the competent authorities allow or requestsuchtreatment. If it has been treated, full details of the treatment must be given.
- 3. MethodofExamination
- 3.1 Duration of Tests

Theminimum duration of tests should normally be two independent growing cycles.

3.2 TestingPlace

The tests should normally be conducted at one place. If any characteristics of the variety, which are relevant for the examination of DUS, cannot be seen at that place, the varietymaybetestedatanadd itionalplace.

- 3.3 ConditionsforConductingtheExamination
- 3.3.1 The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination. In particular, it is essential that the trees produce a satisfactory crop of fruit in each of the two growing cycles.

- 3.3.2 Characteristics containing the following notes in the second column of the TableofCharacteristicsshouldbeexaminedasindicatedbe low:
 - Tree/One-year-oldshoot: Unlessotherwisestated, all observations on the tree and on the one -year-old shoot should be made during winter, on trees that have fruited at least once.
 - b <u>Leaf</u>: Unless otherwise stated, all observations on the le af should be made in summer on fully developed leaves from the middle third of a well developed currents eason's shoot.
 - Flower: Unless otherwise stated, all observations on the flower should be madeonfullydevelopedflowersatthebeginningofanth erdehiscence.
 - Fruit/Stone: All observations on the fruit and stone should be made on 25 fruits, fivefromeach of fivetrees.

3.4 TestDesign

- 3.4.1 Eachtestshouldbedesignedtoresultinatotalof, at least 5 trees.
- 3.4.2 The design of the tes ts should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be madeuptotheendofthegrowing cycle.
- 3.5 Number of Plants/Parts of Plants to be Examined

Unless otherwi se indicated, all observations determined by measuring or counting shouldbemadeon5plantsor3partstakenfromeachof5plants.Inparticular,inthecaseof fruitandstonecharacteristics,observationsshouldbemadeon25fruits,fivetakenfrom each offivetrees.

3.6 AdditionalTests

Additional tests, for examining relevant characteristics, may be established.

4. AssessmentofDistinctness,UniformityandStability

4.1 Distinctness

4.1.1 GeneralRecommendations

It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines.

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4.1.2 ConsistentDifferences

The minim um duration of tests recommended in section 3.1 reflects, in general, the needtoensurethatanydifferencesinacharacteristicaresufficientlyconsistent.

4.1.3 ClearDifferences

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo -qualitative manner. Therefore, it is important that users of these Tes t Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

4.2 Uniformity

- 4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:
- 4.2.2 The acceptable number of off -types tolerated in a sample size of 5 plants is noneonthebasis of apopulation standard of 1% and an acceptance probability of 95%.

4.3 Stability

- 4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experie nce has demonstrated that, formany types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.
- 4.3.2 Where appropriate, or in cases of doubt, stability may be tested, either by growingafurthergeneration, orb ytestinganewseedorplantstocktoensurethatitexhibits thesamecharacteristics as those shown by the previous material supplied.

5. GroupingofVarietiesandOrganizationoftheGrowingTrial

- 5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness is aided by the use of grouping characteristics.
- 5.2 Groupingcharacteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or incombination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial use dfor examination of distinctness; and (b) to organize the growing trials oth at similar varieties are grouped together.

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- 5.3 Thefollowinghavebeenagreedasuseful grouping characteristics:
 - (a) Fruit:size(characteristic29);
 - (b) Fruit:groundcolo rofskin(characteristic42);
 - (c) Stone:bitternessofdrykernel(characteristic52);
 - (d) Timeofbeginningofflowering(5 -10%openflowers)(characteristic53);
 - (e) Timeofbeginningoffruitripening(characteristic54).
- 5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.
- 6. <u>IntroductiontotheTableofCharacteristics</u>
- 6.1 Categories of Characteristics
 - 6.1.1 StandardTestGuidelinesCharacteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

6.1.2 AsteriskedCharacteristics

Asterisked characteristics (denoted by *) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the stat e of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

6.2 StatesofExpressionandCorrespondingNotes

States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.

6.3 TypesofExpression

 $An explanation of the types of expression of character\\ and pseudo-qualitative) is provided in the General Introduction.$ is tics (qualitative, quantitative)

6.4 ExampleVarieties

Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

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- 6.5 Legend
- (*) Asteriskedcharacteristic –seeSection6.1.2
- (QL) Qualitative characteristic -see Section 6.3
- (QN) Quantitative characteristic -see Section 6.3
- (PQ) Pseudo-Qualitativecharacteristic -seeSection6.3
- (+) SeeExplanationsontheTableofCharacteristicsinC hapter8

a to d SeeSection3.3.1

7. <u>TableofCharacteristics/Tableaudescaractères/Merkmalstabelle/Tabladecaracteres</u>

	$\mathrm{MoE}^{ extstyle }$	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
1. (+)	a	Tree:vigor					
		veryweak				Sub-zero	1
		weak				Cannetta, Polonais	3
		medium				RougeduRoussillon, Peeka, <i>Bergeron</i>	5
		strong				Palsteyn, Earle Orange, Magyarkajszi	7
		verystrong				Moniquí, Viceroy, Ceglédi bíbor	9
2. (+)	a	Tree: habit (formerlyNo.3)					
		fastigiate				Japan'sEarly	1
		upright				Realed'Imola ,Earle Orange,Harcot	3
		spreading				Blenheim, <i>Hargrand</i> , <i>Magyarkajszi</i>	5
		drooping				Palsteyn, Polonais, Vesna	7
		weeping					9

 $\label{proposal} Proposal (ZA): Insert semiup \quad right between upright and spreading, remove weeping; to change the denominations of the states on the drawing: spreading for semiup right (state5) drooping for spreading (state7) and weeping for drooping (state9).$

Example varieties written by regular letters can be grown successfully under Mediterranean or similar climatic conditions, varietieswrittenbyitalic letterscanbegrownsuccessfullyunderContinentalclimaticconditions

MoE=MethodofExamination

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	MoE^*	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note Nota
3.	a	Tree:number of branches (formerly No.2)					
		week				EarleOrange,Roxana	3
		medium				SanCastrese, Bergeron, Magyarkajszi	5
		strong				Prevete, Veecot, Harlayne	7
Propo	osal(Z	ZA):ChangeTree:nun		orTree:branchingbeca descriptionformslike	ausenumberofbranch Japaneseapricot.	escanbemanipulate d,se	eother
4. (*)	a	Tree:distributionof flowerbuds					
		predominantlyon spurs				MonacoBello, SunGlo, EarleOrange	1
		predominantlyon one-yearoldshoots				Ferriana,SanCastrese, <i>Roxana</i>	2
		equallyonspursand onone -yearold shoots				Palumella, Canino, Bergeron	3
5. (*)		Youngshoot: anthocyanin colorationofapex (duringrapid growth)					
		weak				Blenheim, Hargrand, Samarkandskijrannij	3
		medium				SanCastrese , Polonais, SunGlo	5
		strong				Ohaicos, Ceglédibíbor, Roxana	7
6. (+)	a	One-yearoldshoot: coloronsunnyside (NEW!)					
		orangebrown				Grandir, Ceglédiarany	1
		brown				Palsteyn, Ceglédióriás	2
		red –purplebrown				Royal, <i>Harcot</i>	3

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	$\mathrm{MoE}^{ extstyle }$	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
7.	a	One-yearoldshoot: sizeofbudsupport (formerlyNo.6)					
		small				Canino, Harcot	3
		medium				Palsteyn, <i>Hargrand</i> , <i>Magyarkajszi</i>	5
		large				Hamidi, <i>Roxana</i> , Ceglédiarany	7
8.	b	Leafblade:length (formerlyNo.7)					
		short				EarlyBiady, Samarkandskijrannij	3
		medium				RougeduRoussillon, Canino, <i>Veecot</i>	5
		long				Moniquí, Ceglédiarany, Roxana	7
9.	b	Leafblade:width (formerlyNo.8)					
		narrow				RougetdeSernhac, Ceglédibíbor	3
		medium				Canino, Harcot, Veecot	5
		broad				Moniquí, CeglédiPiroska	7
10.	b	Leafblade:ratio length/width (formerlyNo.9)					
		verysmall				Canino,Búlida	1
		small				Cafona, Bergeron	3
		medium				SanCastrese, Harcot	5
		large				RougetdeSernhac, Ceglédibíbor	7
		verylarge				Colorado Temprano, Precoced' Imola	9

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	$\mathrm{MoE}^{ extstyle }$	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
11.	b	Leafblade:green colorofupperside (formerlyNo.10)					
		light				Velasquez, Veecot	3
		medium				Verdun, <i>Harcot</i> , <i>Ceglédióriás</i>	5
		dark				Moniquí, EarleOrange	7
12. (+)	b	Leafbl ade:shapeof base(formerlyNo. 11)					
		acute				RougetdeSernhac, Ceglédibíbor	1
		obtuse				Bhart,Magyarkajszi	2
		truncate				Canino,Blenheim, Bergeron	3
		cordate				Búlida, Harogem	4
13. (+)	b	Leafblade:angleof apex(excludingti p) (formerlyNo.12)					
		acute				Boccuccia	1
		right-angled				Ceglédióriás	2
		obtuse				Moniquí, Harcot, Bergeron	3
14.	b	Leafblade:lengthof tip(formerlyNo.13)					
		absentorveryshort				Alpha	1
		short				Harmat,Koraipiros	3
		medium				Bhart,Magyarkajszi	5
		long				Roxana	7

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	MoE	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
15. (+)	b	Leafblade:incisions ofmargin(formerly No.14)					
		crenate				Verdun	1
		bicrenate				Búlida, <i>Bhart</i>	2
		bluntlyserrate					3
		bluntlybiserrate				Roxana	4
		sharplyserrate				Boccuccia	5
		sharplybiserrate				Hamidi, Rakovszky	6
16.	b	Leafblade: undulationof margin(formerly No.15)					
		weak				Palsteyn, Harcot	3
		medium				Blenheim, Roxana	5
		strong				PietCillié, Polonais	7
17. (+)	b	Leafblade:profile incrosssection (formerlyNo.16)					
		straight				RougetdeSernhac, EarleOrange	1
		slightlyconcave				Moniquí,H âtifColomer, Bergeron,	2
		stronglyconcave				Polonais	3
18. (*)	b	Petiole:length (formerlyNo.17)					
		short				Moniquí, SanFrancesco, <i>Polonais</i>	3
		medium				Frater, Cafona, Magyarkajszi	5
		long				Búlida, D'Alessandria,EtenBey	7

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MoE^{ullet}	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
19. b	Leaf:ratiolengthof blade/lengthof petiole(formerlyNo. 18)					
	small				RougetdeSernhac, EarleOrange	3
	medium				HâtifColomer, RougeduRoussillon, Magyarkajszi	5
	large				Moniquí, Polonais	7
20. b	Petiole:thickness (formerlyNo.19)					
	thin				Pineapple	3
	medium				Colomar, Veecot, Harcot	5
	thick				Búlida,Moniquí, Ceglédiarany	7
21. b	Petioleanthocyanin colorationofupper side(formerlyNo. 20)					
	weak					3
	medium				Frater, Borsirózsa	5
	strong				EarlyBiady, Ceglédibíbor	7
22. b	Petiole: predominant numberofnectaries (formerlyNo.21)					
	noneorone				RougetdeSernhac, Mandulakajszi	1
	twoorthree				Cafona, Magyarkajszi, Veecot	2
	morethanthree				Canino,Moniquí	3

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	$\mathrm{MoE}^{ extstyle }$	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
23.	b	Petiole:sizeof nectaries(formerly No.22)					
		small				Alpha	3
		medium				Tilton, Magyarkajszi	5
		large				EarlyBiady, Harmat	7
24. (*) (+)	c	Flower:diameter (formerlyNo.23)					
		small				HâtifColomer, Borsirózsa	3
		medium				Realed'Imola, Magyarkajszi	5
		large				Barese, Harmat	7
25.	c	Flower:positionof stigmainrelationto anthers(formerly No.24)					
		below				Canetta	1
		samelevel				Barese	2
		above				Dr.Mascle	3
Propo	osal(Z	ZA):Flower:positiono	fstigmaascompar	redwithantherschang anthers		tigmainrelationtopositionof	
26. (+)	c	Petal: shape (excludingclaw) (formerlyNo.25)					
		broadelliptic				Boccuccia	1
		circular				Luizet	2
		transverseelliptic				Molodoj	3

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	MoE	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note Nota
27. (+)	c	Petal:coloronlower side(formerlyNo. 26)					
		white				Cafona, Polonais	1
		lightpink				Magyarkajszi	2
		darkpink				Harcot	3
28.	c	Petal:lengthofclaw (formerlyNo.27)					
		short				Gengary	
		medium				EarlyBiady	5
		long				Harmat	7
29. (*)	d	Fruit:size(formerly No.28)					
		verysmall				Haggith,PrecoceGialla, Zard	1
		small				PatriarcaTemprano, HâtifColomer	3
		medium				Cafona, Canino, Harcot	5
		large				Moniquí, Ceglédibíbor	7
		verylarge			both	Palsteyn, <i>Hargrand</i> , Ceglédióriás	9

could have the same states. The problem is how to measure or observe size as fruit length or as fruit width.

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$\mathrm{MoE}^{ ilde{\bullet}}$	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note Nota
30. d	Fruit:shapein lateralview (formerlyNo.29)					
	elliptic				Yerevani	1
	circular				RougeduRoussillon, <i>Polonais</i>	2
	oblate				PatriarcaTemprano	3
	rectangular				Cafona	4
	triangular				Luizet	5
	ovate				Canino, Beregeron	6
	obovate				Harcot, Harmat	7
	rhombic				Vulcan	8
31. d	isov Fruit:shapein ventralview		etchesdonotcorrelateto andnumber8shouldbe		bovateandnotovate,number7 ombic.	
31. d	Fruit:shapein ventralview (formerlyNo.30)				ombic.	1
31. d	Fruit:shapein ventralview (formerlyNo.30) elliptic				FlamingGold, Ambrosia	1
	Fruit:shapein ventralview (formerlyNo.30)				ombic.	1 2
31. d	Fruit:shapein ventralview (formerlyNo.30) elliptic				FlamingGold, <i>Ambrosia</i> RougeduRoussillon,	
31. d	Fruit:shapein ventralview (formerlyNo.30) elliptic circular				FlamingGold, <i>Ambrosia</i> RougeduRoussillon,	2
31. d	Fruit:shapein ventralview (formerlyNo.30) elliptic circular oblate				FlamingGold, Ambrosia RougeduRoussillon, Polonais	2
31. d	Fruit:shapein ventralview (formerlyNo.30) elliptic circular oblate rectangular				FlamingGold, Ambrosia RougeduRoussillon, Polonais HâtifColomer, Veecot	2 3 4
31. d	Fruit:shapein ventralview (formerlyNo.30) elliptic circular oblate rectangular triangular				FlamingGold, Ambrosia RougeduRoussillon, Polonais HâtifColomer, Veecot Realed'Imola, Luizet Canino, Bergeron,	2 3 4 5
31. d	Fruit:shapein ventralview (formerlyNo.30) elliptic circular oblate rectangular triangular ovate	vateandnotobovate			FlamingGold, Ambrosia RougeduRoussillon, Polonais HâtifColomer, Veecot Realed'Imola, Luizet Canino, Bergeron, Hargrand	2 3 4 5 6
31. d (+)	Fruit:shapein ventralview (formerlyNo.30) elliptic circular oblate rectangular triangular ovate obovate Fruit:ratio	vateandnotobovate			FlamingGold, Ambrosia RougeduRoussillon, Polonais HâtifColomer, Veecot Realed'Imola, Luizet Canino, Bergeron, Hargrand	2 3 4 5 6
31. d (+)	Fruit:shapein ventralview (formerlyNo.30) elliptic circular oblate rectangular triangular ovate obovate Fruit:ratio length/ventralwid	vateandnotobovate			FlamingGold, Ambrosia RougeduRoussillon, Polonais HâtifColomer, Veecot Realed'Imola, Luizet Canino, Bergeron, Hargrand Harcot,Harmat	2 3 4 5 6

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MoFi	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
	Proposal(Z	A):TochangeFruit	:ratiolength/ventralw	idthforFruit:ratiolen	gth/lateral width	
33. d	Fruit:ratiolateral width/ventralwidth (formerlyNo.31)	ı				
	small				MariaFerez,Mandorlon	3
	medium				RougeduRoussillon Luizet,Bergeron,	5
	large				Canino, Henderson	7
34. d	Fruit:predominant symmetryalong suture (formerlyNo 33)					
	symmetric				HâtifColomer, <i>Polonais</i> , <i>Magyarkajszi</i>	2
	slightlyasymmetric				Boccuccia,Royal, Ceglédióriás	1
	clearlyasymmetric				Mammano, Borsirózsa	
Propos	al(ZA):TochangeFrui	t:predominantsyn	mmetryalongsuturefo	rFruit:predomin	antsymmetryalongsutureinventra	al
			view			41
35. d	Fruit:depthof suture(formerlyNo 34)		view			
	suture(formerlyNo		view		RougeduRoussillon, Magyarkajszi	3
	suture(formerlyNo 34)		view			
	suture(formerlyNo 34) shallow	•	view		Magyarkajszi Peeka, Pineapple,	3
	suture(formerlyNo 34) shallow medium deep		view		Magyarkajszi Peeka, Pineapple, Ceglédióriás Henderson,Dima,	3 5
(*) 36. d	suture(formerlyNo 34) shallow medium deep Fruit:depthofstalk cavity(formerlyNo.		view		Magyarkajszi Peeka, Pineapple, Ceglédióriás Henderson,Dima,	3 5
(*) 36. d	suture(formerlyNo 34) shallow medium deep Fruit:depthofstalk cavity(formerlyNo. 35)		view		Magyarkajszi Peeka, Pineapple, Ceglédióriás Henderson,Dima, Kech-pshar	3 5 7

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	(س)	English	françois	deutsch	aspañal	Example Varieties	Note/
	$\mathrm{MoE}^{ extstyle }$	English	français	deutscn	español	Exemples Beispielssorten Variedadesejemplo	Nota
37. (*) (+)	d	Fruit:shapeofapex (formerlyNo.36)					
		acute				Realed'Imola	1
		rounded				Luizet,Bergeron	2
		truncate				HâtifColomer	3
		depressed				EarlyRil	4
38.	d	Fruit:presence of mucro (formerly No. 37)					
		absent				Blenheim, Magyarkajszi	1
		present				Bhart	9
39. (*)	d	Fruit:surface (formerlyNo.38)					
		smooth				RougeduRoussillon, Palsteyn, <i>Bergeron</i>	1
		bumpy				Canino,Búlida	2
40.	d	Fruit:skin pubescence (formerlyNo.39)					
		absent				$Glattschalige Fr\"{u}hmarille$	1
		present				Magyarkajszi,Bergeron	9
41.	d	Fruit:glossinessof skin(NEW!)					
		absentorveryweakly expressed				Moorpark	1
		weaklyexpressed				Bergeron	2
		stronglyexpressed				Cluthagold	3

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	$\mathrm{MoE}^{ extstyle }$	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
42. (*)	d	Fruit:groundcolor ofskin (formerlyNo.40)					
		white				Shirazskijbelyj	1
		yellowish				Moniquí,P ietCillié, Yerevani	2
		yellowgreen				GrüneSpätmarille, KaisiAshtarak, SateniKarmir	3
		lightorange				RougeduRoussillon, Canino, <i>Goldcot</i>	4
		mediumorange				HâtifColomer , <i>Luizet</i> , <i>Veecot</i>	5
		darkorange				Harogem, Harcot, Bhart	6
43.	d	Fruit:amountof overcolorofskin (formerlyNo.42)					
		absentorverylow				Moniquí, Veecot	1
		low				Cafona, Canino, Sungiant	3
		medium				HâtifColomer,Palsteyn, Magyarkajszi	5
		high				Portici, Bergeron, Bhart	7
44.	d	Fruit:hueof over colorofskin(NEW!)					
		orange					1
		orangered					2
		red					3
		pink					4

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	$\mathrm{MoE}^{ extstyle }$	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
45.	d	Fruit:intensityof overcolorofskin (formerlyNo.41)					
		light				Búlida	3
		medium				CapeEarly, Magyarkajszi	5
		dark				Bergeron,Cegléd ibíbor, Bhart	7
46. (*)	d	Fruit:colorofflesh (formerlyNo.43)					
		whitishgreen				Chinan.l, Amban	1
		white				MouchbahMourry, Spitak	2
		cream				Moniquí, Malatya, Patriarca Temprano	3
		lightorange				Canino,Japan'sEarly, <i>Yerevani</i> ,	4
		mediumorange				RougeduRoussillon, Screara, <i>Harglow</i>	5
		darkorange				Palsteyn,H âtifColomer, Harcot	6
47.	d	Fruit:textureof flesh (formerlyNo.44)					
		fine				Peeka	3
		medium				PietCillié	5
		coarse				Búlida, Bergeron	7

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	$\mathrm{MoE}^{ ilde{f \circ}}$	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
48.	d	Fruit:firmnessof flesh (formerlyNo.45)					
		verysoft				Viceroy	1
		soft				Canino, Goldcot	3
		medium				RougeduRoussillon, PietCillié	5
		firm				Palsteyn, Bergeron	7
		veryfirm				Harogem,Borsirózsa, Čačanskozlato	9
49.	d	Fruit:weightof stoneinrelationto weightoffruit (formerlyNo.46)					
		low				DeJouy,Bergeron	3
		medium				HâtifColomer,Royal	5
		high				Realed'Imola	7
50. (*)	d	Fruit:adherenceof stonetoflesh (formerlyNo.47)					
		absent orveryweak				Peeka, Hargrand, Bergeron	1
		weak				Canino, RougeduRoussillon	3
		medium				TardifdeBordaneil	5
		strong				Cafona,Precocedi Toscana,Comandor	7

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M D	MoE	English	français	deutsch	español	ExampleVarieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
51. d (*) (+)	1	Stone:shapein lateralview (formerlyNo.48)					
		oblong				RougeduRoussillon, Palsteyn, CibodelParadiso	1
		elliptic				PrecocediToscana, Bergeron	2
		circular				Canino,EtenBey, Hargrand,	3
		ovate				Magyarkajszi, Goldcot	4
		obovate				Harcot, Harmat	5
52. d (*)		Stone:bitternessof dryker nel (formerlyNo.49)					
		absentorveryweak				Realed'Imola, Bergeron, Harcot	1
		weak				Moniquí, RougetdeSernhac	3
		medium				Palsteyn	5
		strong				Canino,H âtifColomer, Viceroy	7
		verystrong				Borsirózsa	9
53. (*) (+)		Timeofbe ginningo flowering (formerlyNo.50)	of				
		veryearly				Setacciara, San Castrese, Harmat	1
		early				HâtifColomer,Jaubert - Foulon, <i>Harcot</i>	3
		medium				Cafona,Moniquí, EarleOrange	5
		late				Polonais, Bergeron, Harlayne	7
		verylate				Harglow,Skromnyj,Zard	9

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MoE^*	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedadesejemplo	Note/ Nota
54. (*) (+)	Timeofbeginningof fruitripening (formerlyNo.51)					
	veryearly				PatriarcaTemprano, Rutbhart, Samarkandskijrannij	1
	early				RougetdeSernhac, HâtifColomer, <i>Bhart</i>	3
	medium				Moniquí,SanCastr ese, Luizet	5
	late				Polonais,Bergeron, Harlayne	7
	verylate				TardifdeBordaneiltype2, Borsirózsa, Kech -pshar	9

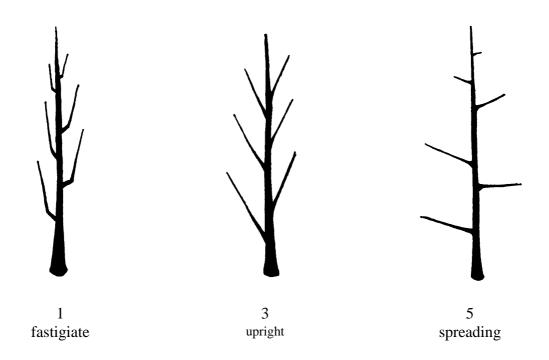
8. <u>ExplanationsontheTableofCharacteristics</u>

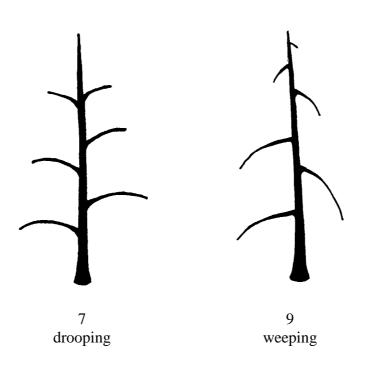
Ad.1:Tree:vigor

The tree vigor should be considered as the overall abund

anceofvegetativegrowth.

Ad.2:Tree:habit

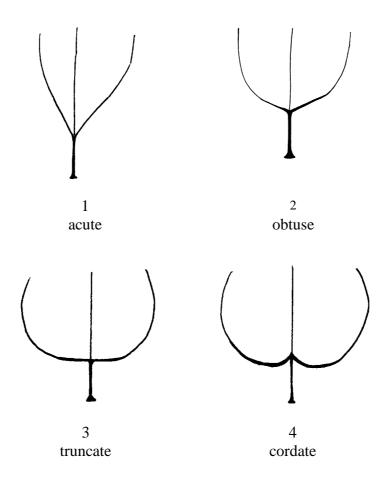




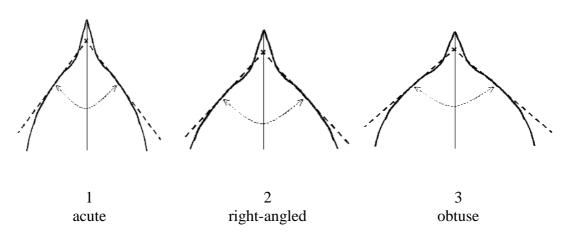
Ad.6:One -yearoldshoot:coloronsunnyside

Observations should be carried out in the middle of one -year-old primary sho ots.

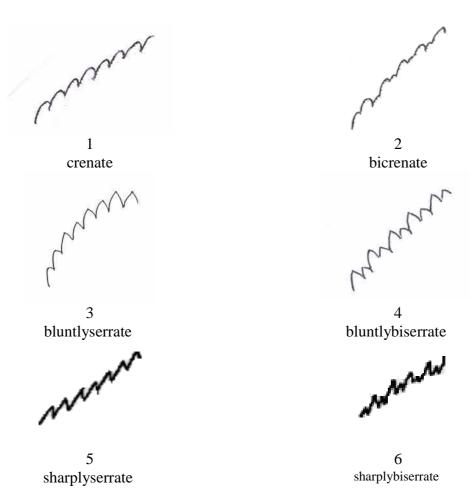
Ad.12:Leafblade:shapeofbase



Ad.13:Leafblade:angleofapex(excludingtip)



Ad.15:Leafblade:incisionsofmargin



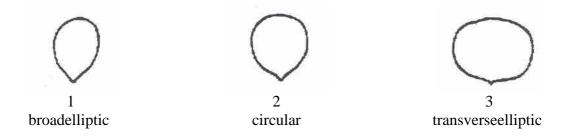
Ad17:Leafblade:profileincrosssection

Leaves observed should be on spursor at base of flowering shoots

Ad24.Flower:diameter

 $Observations\ or\ measurements\ should\ be\ carried\ out\ on\ flowers\ with\ petals\ pressed\ into horizontal p\ osition.$

Ad.26:Petal:shape(excludingclaw)



Ad27.:Petal:color

Observations should be carried outjust after opening of sepals on the lower side.

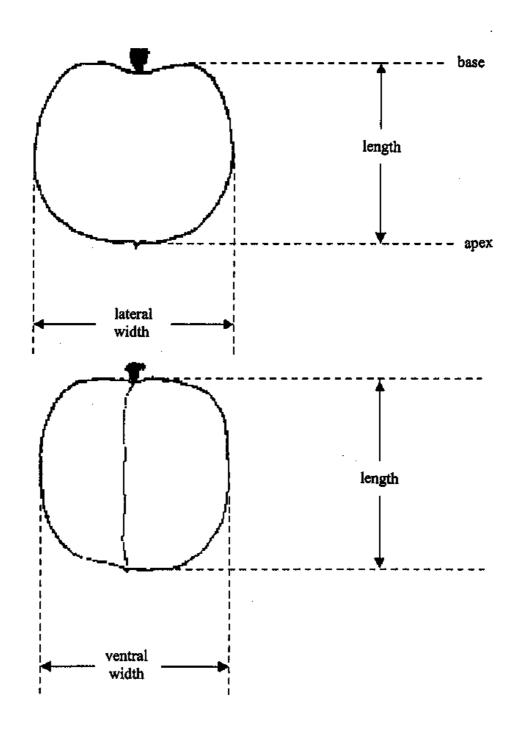
Ad.30:Fruit:shapeinlateralv iew

Ad.31:Fruit:shapeinventralview

Ad.32:Fruit:ratiolength/ventralwidth

Ad.33:Fruit:ratiolateralwidth/ventralwidth

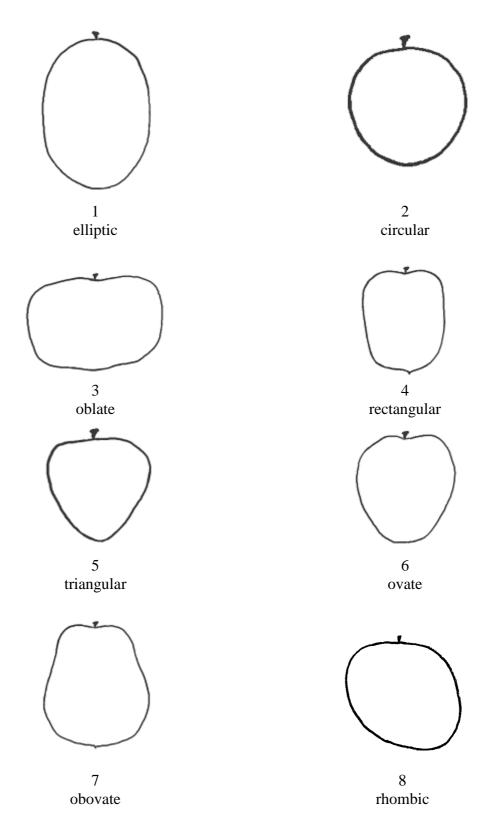
The following fruit shapes are presented as they appear in nature, nevertheless shape is to be observed in direction from the base (stalk end) to the top when observing shape (mainly when states are ovate or obovate) characteristics please rotate this drawings with 180° .



Ad.30:Fruit:shapeinlateralview

Ad.31:Fruit:shapeinventr alview

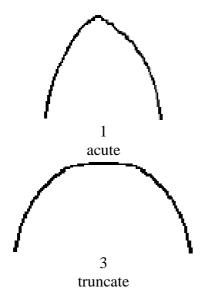
The following fruit shapes are presented as they appear in nature, nevertheless shape is to be observed in direction from the base (stalk end) to the top when observing shape (mainly when states are ovate or obovate) characteristics please rotate this drawings with 180°.

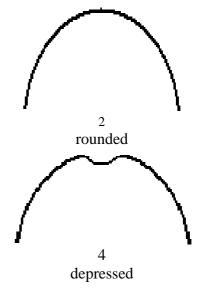


Ad.37:Fruit:shapeofapex

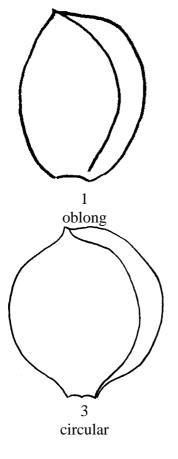
Observations should be carried out on fruits in late

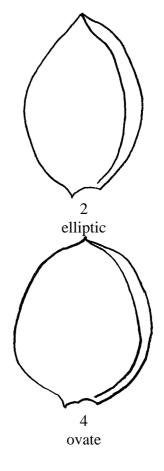
ralcross -section.

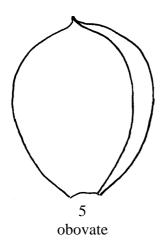




Ad.51:Stone:shapeinlateralview







Ad. 53Timeofbeginningofflowering

When 5 - 10% openflowers can be observed.

Synonym(s)ofExampleVarieties

ExampleVarieties	Synonym(s)
Bhart	NJA32
Borsirózsa	Kecskemeterrose,Ru žovaneskora, Trandafiriitirzi
Čačacanskozlato	Čačak'sGold
EarleOrange	ErleOrange,StarkEarliOrange
Magyarkajszi	HungarianBest,UngarischeBeste, Meilleurd'Hongrie,KlosterneuburgerAprikose, Krasnoshchokij,Velkopavlovická, Mađarskanajbolja,Ceamaibun ădeUngaria
Pineapple	Ananas-Marille, Abricotd' Ananas, Ananasnyj
Rutbhart	EarlyBlush
SateniKarmir	Tabarza
Yerevani	Shalakh

9. <u>Literature</u>

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10. <u>TechnicalQuestionnaire</u>

TEC	HNICALQUESTIONNAIR	Е	Page{ x}of{y}	ReferenceNumber:
				Applicationdate: (nottobefilledinbytheapplicant)
	TI tobecompletedinconne		NICALQUESTIONN nwithanapplicationfor	
1.	SubjectoftheTechnicalQues	stion	naire	
	1.1 LatinName	Pri	ınusarmeniaca L.	
	1.2 CommonName	AP	RICOT	
2.	Applicant			
	Name			
	Address			
	TelephoneNo.			
	FaxNo.			
	E-mailaddress			
	Breeder(ifdi fferentfromap	plic	ant)	
3.	Proposeddenominationandl	oree	der'sreference	
	Proposeddenomination (ifavailable)			
	Breeder'sreference			

TECHNICALQUESTIONNAIRE	Page{ x }of{ y }	ReferenceNumber:

4.1	BreedingScheme		
1.1			
	"4.1.1 Varietyresultingfrom:		
	(a) controlledcross		[]
	(pleasestateparentvarieties)(b) partiallyunknowncross		[]
	(pleasestateknownparentvariety(ies))		F 1
	(c) totallyunknowncross		[]
	4.1.2 Mutation		[]
	(pleasestateparentvariety)		
	4.1.3 Discovery (pleasestatewhere, when and how developed)		[]
	4.1.4 Other (pleaseprovidedetails)		[]
4.0	,		
4.2	MethodofPropagatingtheVariety		
	4.2.1 <i>Invitro</i> propagation The plant metavial of the soundidate variety has been abtained.		
	Theplantmaterialofthecandidatevarietyhasbeenobtained by invitro propagation	yes	[]
	4.2.2 Othertypeofmultiplication(seed,leafcutting,hardwoodcutting,	no	[]
	layer):		[]
	(pleasespecify)		
4.0			-
4.3	Virusstatus		[]
	4.3.1 Thevarietyisfreefromallkno wnvirusesasfollows:		[]
	(indicatefromwhichviruses)		
	4.3.2 Theplantmaterialisvirustested(indicateagainstwhichviruses):		[]
	4.5.2 Theplantinateriansvirustesteu(mulcateagamstwinenviruses).		LJ
	4.3.3 Thevirusstatusisunknown		[]
			IJ

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TECHNICALQUESTIONNAIRE Page{ x}of{y} ReferenceNumber:

5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

	Characteristics	ExampleVarieties	Note
		Example varieties	Note
5.1 (29)	Fruit:size		
	verysmall	Haggith,PrecoceGial la, Zard	1[]
	small	PatriarcaTemprano, HâtifColomer	3[]
	medium	Cafona, Canino, Harcot	5[]
	large	Moniquí, Ceglédibíbor	7[]
	verylarge	Palsteyn, Hargrand, Ceglédióriás	9[]
5.2	Fruit:groundcolorofskin		
(42)			
	white	Shirazskijbe lyj	1[]
	yellowish	Moniquí,PietCillié, Yerevani	2[]
	yellowgreen	GrüneSpätmarille, KaisiAshtarak, SateniKarmir	3[]
	lightorange	RougeduRoussillon, Canino, <i>Goldcot</i>	4[]
	mediumorange	HâtifColomer, Luizet, Veecot	5[]
	darkorang e	Harogem, Harcot, Bhart	6[]

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TECHNICALQUESTIONNAIRE Page{ x}of{y} ReferenceNumber:

	Characteristics	ExampleVarieties	Note
5.3 (52)	Stone:bitternessofdrykernel		
	absentorveryweak	Realed'Imola, Bergeron, Harcot	1[]
	weak	Moniquí,RougetdeSernhac	3[]
	medium	Palsteyn	5[]
	strong	Canino,H âtifColomer, Viceroy	7[]
	verystrong	Borsirózsa	9[]
5.4 (53)	Timeofbeginningofflowering		
	veryearly	Setacciara,SanCastrese, Harmat	1[]
	early	Jaubert-Foulon, HâtifColomer, <i>Harcot</i>	3[]
	medium	Cafona,Moniquí, EarleOrange	5[]
	late	Polonais,Bergeron, Harlayne	7[]
	verylate	Harglow,Skromnyj,Zard	9[]
5.5 (54)	Timeofbeginningoffruitripening		
	veryearly	PatriarcaTemprano, Rutbhart, Samarkandskijrannij	1[]
	early	RougetdeSernhac, HâtifColomer, <i>Bhart</i>	3[]
	medium	Moniquí,SanCastrese, Luizet	5[]
	late	Polonais,Bergeron, Harlayne	7[]
	verylate	TardifdeBordaneiltype2,	9[]

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TEC	HNICAI	LQUES	TIONNAIRE	Page	$\{x\}$ of $\{y\}$	y}	Referen	ceNumber:		
6.	Similar	varietie	esanddifference	sfromth	esevarie	eties			_	
Denomination(s)of variety(ies)similarto yourcandidate variety whichyourcandidate variety thesimilarvariety(ies)					Describetheexpression ofthecharacteristic(s) forthe similar variety(ies)			Describetheexpression of the characteristic (s) for your candidateva riety		
(Example) Plant:height					е.,		note3			
					e.,	g.	short	tall		
					e.,	g.	90cm	130cn	ı	
7. 7.1	In addicharact	tion to t eristics	rmationwhichm he information whichmayhelpt ovidedetails)	provide	ed in sec	tion	s 5 and 6, are	•	ditional	
7.2	Specialconditionsfortheexaminationofthevariety									
	7.2.1	Are there any special conditions for growing the variety or condu examination?								
		Yes			No	[
	7.2.2	Ifyes,	pleasegivedetai	ils:						
7.3	Otherin	nformat	ion							

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TECHNICALQUESTIONNAIRE				NAIRE	Page{ x}o	$f{y}$	ReferenceNumber:				
8.	Authorizationforrelease										
	(a) Doesthevarietyrequirepriorauthorizationforreleaseunderlegislationconcerning theprotectionoftheen vironment,humanandanimalhealth?										
		Yes	[]		No	[]					
	(b)	(b) Hassuchauthorizationbeenobtained?									
		Yes	[]		No	[]					
	Ifthe	answerto	o(b)isy	es,pleaseatt	achacopyof	theauthoriz	zation.				
9.	. Iherebydeclarethat, to the best of myknowledge , the information provided in this form correct:										
	Appli	icant'sna	ame								
	Signa	ature _					Date [

[Endofdocument]