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OECD Seed Schemes

VARIETAL PURITY CHARACTERS TO BE USED FOR CONTROL PLOTS AND FIELD INSPECTION

Approved version

28-29 June 2018, Paris, France.

This version of the document was approved at the 2018 Annual Meeting of the OECD Seed Schemes.

It will be published on the official website of the OECD Seed Schemes.

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VARIETAL PURITY CHARACTERS TO BE USED FOR CONTROL PLOTS AND FIELD INSPECTION

1. Introduction

1. The annual meeting held in June 2016 considered and approved the proposal in paper TAD/CA/S/RD(2016)11/REV1 for updating variety purity characters. To accomplish the process the relevant descriptions for review were emailed to the NDA, which originally produced them with a request to review their contents and return the results in the standard format, supplied. As completed variety purity characters were returned they were inserted into the appropriate place in this file and the progress updated on an index. The finished document is intended to replace the existing varietal purity characters, which are held in several documents available on the OECD Seed schemes website.

2. NDA were requested to respond in a number of ways by reviewing the descriptions already listed, with priority for those where they are the named reviewer to consider whether characters should be added, re-classified or removed and to volunteer for species, which are unallocated where they have access to expertise for the species. They were also asked to consider if any of the species included now had no present or future commercial interest as well as suggest species, which should be added.

3. This paper contains the results of revisions for the varietal purity characters received in time for inclusion for the June 2018 meeting of the OECD Seed Schemes. The initial index list identifies the countries, which have provided the most recent technical input whilst the second column records the year of the most recent review or revision.

4. The list is intended to include those characteristics most suited for use during certification processes, in particular for practical use during crop inspection or plot recording and is not limited to the content of UPOV guidelines.

5. Species where no description exists have been removed from the list and species, which now have an individual UPOV guideline, now have a specific entry.

6. It is anticipated that further review will be carried out on individual species as it becomes necessary and the review date will be amended in the index table. If another country proposes changes to a species, that country name will replace the existing country as reviewer on the expectation that the other characters will have been considered at the same time. As UPOV guidelines are updated the relevant descriptive characters for the species will require revision.

7. As new species are accepted for certification under the OECD Seed schemes, the application will contain the species characters, which can be added to this document and made available on the OECD website.

8. The 2018 Annual Meeting approved this document.

Characteristics for assessing varietal identity and varietal purity

Listing of species included in this document

	Species	Primary author	Date last reviewed
1	*Agrostis canina*, *Agrostis gigantea*, *Agrostis stolonifera* and *Agrostis capillaris*		2018
2	*Alopecurus pratensis*	Germany	2018
3	*Avena sativa* incl. *A. byzantina; Avena nuda*	United Kingdom	2018
4	*Beta vulgaris* (Fodder)	Denmark	2018
5	*Beta vulgaris* (Sugar)	Denmark	2018
6	*Bisserula pelecinus*	Australia	2018
7	*Bituminaria bituminosa* var. *albomarginata* and var. *crassiuscula*	Australia	2018
8	*Brassica napus* var. *napobrassica* (Swede)	Coordinating centre	2018
9	*Brassica napus* var. *oleifera* (Swede rape)	Coordinating centre	2018
10	*Bromus catharticus*	France	2018
11	*Bromus inermis*	Canada	2018
12	*Bromus marginatus*	Czech Republic	2018
13	*Bromus parodii*	Argentina	2018
14	*Cannabis sativa*	Netherlands	2018
15	*Carum carvi*	Netherlands	2018
16	*Cenchrus americanus* [Formerly *Pennisetum glaucum*].	(Kenya) Co-ordinating centre	2018
17	*Cicer arietinum*	Canada	2018
18	Cynodon dactylon	United States	2018
19	*Deschampsia cespitosa*	Netherlands	2018
20	*Eleusine coracana*	Kenya	2009
21	*Elymus repens* subsp. *repens* [Formerly *Elytrigia repens*]	United States	2009
22	*Eragrostis tef*	United States	2009
23	*Eremochloa ophiuroides*	United States	2009
24	*Fagopyrum esculentum*.	Netherlands	2018
25	*Festuca ovina*	Netherlands	2018
26	*Festuca pratensis*, *Festuca arundinacea*	Germany	2018
27	*Festuca rubra*	Netherlands	2018
28	*Galega orientalis*	Estonia	2018
29	*Glycine max*	United States	2018
30	*Gossypium barbadense; Gossypium hirsutum;Gossypium hirsutum* x *G. barbadense*	United States	2009
31	*Helianthus annuus*	France	2018
32	*Hordeum vulgare*	United Kingdom	2018
33	*Koeleria macrantha*	Netherlands	2018

34	*Lablab purpureus*	Kenya	2009
35	*Linum usitatissimum*	Netherlands	2018
36	*Lolium perenne; Lolium multiflorum; Lolium xhybridum*	Netherlands	2018
37	*Lolium rigidum*	Australia	2009
38	*Medicago murex*	Australia	2018
39	*Nicotiana tabacum*	Bulgaria	2018
40	*Ornithopus compressus*	New Zealand	2009
41	*Ornithopus sativus* x *O. compressus*	New Zealand	2009
42	*Oryza sativa*	Italy	2018
43	*Panicum maximum*	Brazil	2009
44	*Papaver somniferum*	(Netherlands)	2018
45	*Paspalum vaginatum*	United States	2009
46	*Phacelia tanacetifolia*	Netherlands	2018
47	*Phalaris aquatica*	Australia	2018
48	*Phalaris arundinacea*.	Canada	2018
49	*Phalaris canariensis*	Australia	2009
50	*Phleum pratense* and *Phleum nodosum*	Denmark	2018
51	*Pisum sativum*	Germany	2018
52	*Plantago lanceolata*	New Zealand	2018
53	*Poa nemoralis*	Netherlands	2018
54	*Poa trivialis*	United States	2009
55	*Puccinella distans*	United States	2009
56	*Raphanus sativus var. oleiformis*	Netherlands	2018
57	*Secale cereale*	Germany	2018
58	*Sinapis alba*	Netherlands	2018
59	*Trifolium dasyurum*	Australia	2018
60	*Trifolium glandiferum*	Australia	2018
61	*Trifolium pratense*	Denmark	2018
62	*Trifolium repens*	Netherlands	2018
63	*Trifolium spumosum*	Australia	2018
64	*Triticum aestivum*	United Kingdom	2018
65	*Triticum turgidum*. subsp *durum*	Hungary	2018
66	*Vicia faba*	Germany	2018
67	x *Festulolium*	Denmark	2018
68	*Zea mays*	Hungary	2018
69	*Zoysia japonica*	United States	2009

OECD Seed Schemes

BENT

(*Agrostis canina* L., *Agrostis gigantea* Roth, *Agrostis stolonifera* L. and *Agrostis capillaris* L)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant	2	Growth habit
Leaf	4	Colour
	5	Width
Heading/Flowering		
Plant	8	Time of inflorescence emergence
Stem	11	Length of longest stem including inflorescence
Panicle		Colour
SECONDARY		
Heading		
Flag leaf:	9	Length
	10	Width
Stem:	12	Length of upper internode
Inflorescence:	13	Length (when fully expanded)
LABORATORY		
	1	Ploidy
[1]UPOV Guideline referenced in description		TG/30/6 (1990-10-12)

OECD Seed Schemes

MEADOW FOXTAIL
(*Alopecurus pratensis* L)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant		Growth habit
Leaf		Intensity of green colour during vegetative growth stage
Heading/Flowering		
Plant		Time of inflorescence emergence (after vernalization)
Stem		Length of longest stem including inflorescence (when fully expanded)
SECONDARY		
Heading		
Flag leaf		Width
		Length on representative stem
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

OATS and NAKED OATS

(*Avena sativa* L incl. *A. byzantine* K. Koch[2]*; Avena nuda* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Flowering		
Plant	1	Growth habit
Earing		
Panicle	5	Time of panicle emergence (first spikelet visible on 50% of panicles)
	8	Orientation of branches
	9	Attitude of branches
	16	Length
Plant	15	Length (stem and panicle)
Grain	17	Husk
SECONDARY		
Flowering		
Leaf blade	3	Hairiness of margins of leaf below flag leaf
Earing		
Stem	6	Hairiness of uppermost node
	7	Intensity of hairiness of uppermost node
Panicle	10	Attitude of spikelets
Glume	11	Glaucosity
	12	Length
Primary grain	13	Glaucosity of lemma
	19	Length of lemma
Grain	20	Colour of lemma
LABORATORY		
[1]UPOV Guideline referenced in description		TG/20/10 (01.10.1994)

[2]*A. byzantina* is not included in the UPOV TG but is listed by OECD with *Avena* spp.

OECD Seed Schemes

FODDER BEET

(Beta vulgaris L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
GS 25-40		
Leaf	4	Attitude
GS 40		
Leaf blade		Shape
	8	Green colour
		Undulation of margin
		Blistering
	9	Colour of veins (on spaced plants)
Petiole	12	Colour at base
Plant		Height
GS 50		
Root	13	Shape
	18	Colour above ground
	19	Colour below ground
SECONDARY		
Vegetative		
GS 40 -45		
Leaf	5	Blade width
	6	Length (incl. petiole)
GS 50		
Root	14	Length
	15	Width
	16	Length compared to width – shape assessment
	17	Position in soil
LABORATORY		
Dry seed		
	1	Germity
	2	Ploidy
Vegetative		
Hypocotyl	3	Colour
[1]UPOV Guideline referenced in description		TG/150/3 (94-11-04)

OECD Seed Schemes

SUGAR BEET

(Beta vulgaris L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Fully developed leaves (GS 40-45)		
Leaf		Attitude Shape
Leaf blade		Green colour Undulation of margin Blistering
Plant		Height
Vegetative		
Fully developed roots		
Root		Position in the soil
SECONDARY		
Vegetative		
Fully developed roots (GS 40-45)		
Leaf blade		Width
Leaf		Length (incl. petiole)
(GS 48)		
Root		Length Width Length compared to width – shape assessment Position in soil
LABORATORY		
Dry seed		
(GS 00)		Germity Ploidy
Vegetative		
Seedling		Percentage of seedlings with anthocyanin colouration in the hypocotyl
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

BISERRULA
(*Biserrula pelecinus* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaflet		Shape Size
Flowering		
		Time of flowering
Maturity		
Pod		Shape Seeds per pod
Seed		Colour
SECONDARY		
Vegetative		Shape of the first true leaf
Flowering		
Flower		Colour
Maturity		
Pod		Length Colour
Seed		Shape 1000 grain weight Ornamentation
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

TEDERA

(*Bituminaria bituminosa* (L.) C.H. *Stirton* var. *albomarginata* and var. *crassiuscula*)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant		growth habit
Stem		anthocyanin colouration density of hairs
Leaf		development before flowering length of central leaflet width of central leaflet shape of central leaflet undulation of leaflet margin colour (RHS Colour Chart) density of leaflet margin hairs length of central petiolule colour of pulvinus
Heading/Flowering		
Plant		natural height at inflorescence emergence time of beginning of flowering
Flower		colour of corolla
SECONDARY		
LABORATORY		
Seed		length of beak weight of 1000 seeds
UPOV Guideline referenced in description[1]		There are currently no UPOV Guidelines for this species

OECD Seed Schemes

SWEDE

(*Brassica napus* L. var. *napobrassica* (L.) Rchb.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaf	1	Green colour
	3	Type
	7	Length
	8	Width
Pseudostem	19	Length
	20	Anthocyanin colouration between leaf scars
SECONDARY		
Vegetative		
Leaf	2	Intensity of waxiness
	4	Number of lobes (lobed varieties only)
	5	Length of terminal lobe (lobed varieties only)
	6	Width of terminal lobe (lobed varieties only)
	9	Undulation of margin
Petiole	10	Attitude
	11	Thickness
Root	12	Predominant colour of skin above soil
	13	Anthocyanin colouration of skin above soil
	14.1	Intensity of anthocyanin colouration of skin above soil (only varieties with green or bronze skin colour)
	14.2	Intensity of anthocyanin colouration of skin above soil (only varieties with reddish purple skin colour)
	15	Predominant colour of skin below soil level
	16	Shape in longitudinal section
	17	Length
	18	Diameter
	21	Colour of flesh
	22	Intensity of yellow colour of flesh
LABORATORY		
[1]UPOV Guideline referenced in description		TG/89/6 Rev (2001 + 2009)

OECD Seed Schemes

SWEDE RAPE, OILSEED RAPE, FODDER RAPE

(Brassica napus L. var. *oleifera* Delile)

Stage of examination	UPOV Character Number	Character description
PRIMARY		
Vegetative		
Leaf	4	Green colour
	5	Lobes
	7	Dentation of margin
Flowering		
	11	Time of flowering[1]
Flower	12	Colour of petals
Plant	17	Total length including side branches
SECONDARY		
Vegetative		
Leaf	6	Number of lobes (fully developed leaf)
	8	Length (blade and petiole)
	9	Width (widest point)
	10	Length of petiole (lobed leaved varieties only)
Flowering		
Flower	13	Length of petals
	14	Width of petals
	15	Production of pollen
Plant	16	Height (at full flowering)
LABORATORY		
Seed		
Seed	1	Erucic acid
[1]UPOV Guideline referenced in description		TG/36/6 Corr. (1996, 2002)
Formerly classified as *Brassica napus* (var. *oleifera* Subvar. *Annua* and Subvar. *Biennis*) L.		

OECD Seed Schemes

RESCUE GRASS, PRAIRIE GRASS

(*Bromus catharticus* Vahl var. *elatus* (E. Desv.) Planchuelo)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant	2	Tendency to form inflorescences without vernalisation
Leaf	4	Intensity of green colour
Heading		
Plant	7	Time of inflorescence emergence after vernalisation (in second year)
	8	Natural height at inflorescence emergence
SECONDARY		
Vegetative		
Plant		Attitude
Heading		Number of plants distinctly earlier or later to head
LABORATORY		
[1]UPOV Guideline referenced in description		TG/180/3 (2001)

OECD Seed Schemes

SMOOTH BROME

(*Bromus inermis* Leyss.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaf		Length Width Habit Pubescence Blade colour Sheath colour Ligule
Stem		Collar shape
Plant		Height (at head emergence)
Flowering		
Panicle		Shape Habit Colour
SECONDARY		
Vegetative		
Flag Leaf		Length Width Auricles
Flowering		
Panicle		Heading time (first flower open on 50% of plants)
Maturity		
Seed		Pubescence
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

MOUNTAIN BROME

Bromus marginatus Nees ex Steud.

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaf	4	Intensity of green colour (in autumn of year of sowing)
Heading/Flowering		
Plant	7	Time of inflorescence emergence after vernalisation (in second year)
Stem	11	Length of longest stem (inflorescence included; when fully expanded)
SECONDARY		
Vegetative		
Plant	2	Tendency to form inflorescences without vernalisation
	8	Natural height at inflorescence emergence
Foliage	5	Fineness
Heading/Flowering		
Inflorescence	14	Density
LABORATORY		
[1]UPOV Guideline referenced in description		Adapted from TG/180/3 of 04.04.2001 (for species *Bromus catharticus* Vahl., *Bromus sitchensis* Trin., *Bromus auleticus* Trin.)

OECD Seed Schemes

BROMUS PARODII

***Bromus parodii* (Covas et Itria)**

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY In year 2 at flowering time		
Plant	-	growth habit
		height (length of longest stem including fully expanded inflorescence)
		basal anthocyanin
		tiller diameter (taken above first node)
		tiller density
		blistering
		length of uppermost internode
Leaf		length of longest leaf
		width of longest leaf
		colour
flag leaf		length
		width
		attitude
		pubescence
flower		tendency to flower
SECONDARY In year 2 at flowering time		
		time of inflorescence emergence of
panicle		length
		attitude
		number per plant
		shape
		density
		glume anthocyanin
spikelet		number per panicle
		length
		number of florets
		awn length
		shape
		anther colour
leaf		distribution of main foliage relative to height of plant
seed		1000 seed weight
		pubescence of lemma
		dentation of palea
Seedling coleoptile		anthocyanin
LABORATORY		
ploidy		number

[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the conduct of Tests for Distinctness, Homogeneity and Stability for this species.

OECD Seed Schemes

HEMP

Cannabis sativa L

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Flowering		
	11	Time of male flowering
Leaf	5	Intensity of green colour
Plant	14	% of plants with male and female flowers
	15	% of female plants
	16	% of male plants
	17	Height
Stem (main)	18	Colour
	19	Depth of grooves
SECONDARY		
Flowering		
Stem(main)	22	Pith in cross-section
LABORATORY		
Inflorescence	13	THC content
[1]UPOV Guideline referenced in description		TG/276/1 (28.03.2012)

OECD Seed Schemes

CARAWAY

(*Carum carvi* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY Flowering Plant Flower		 Natural height Intensity of green colour Size of flower head (small, medium, large) Colour of petals (white, non-white) Time of flowering (precocity)
SECONDARY Maturity Seed		 Abscission layer
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

PEARL MILLET

(*Cenchrus clandestinus* (Hochst. ex Chiov.) Morrone
[Formerly *Pennisetum clandestinum* Hochst. ex Chiov].)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaf blade	5	Colour
Leaf sheath	6	Pubescence
Plant	10	Length
Earing		
Spike	8	Time of flowering
	24	Density
Culm	9	Pubescence of node
Panicle	11	Shape
Glume	15	Anthocyanin colouration
	16	Number of bristles
	17	Bristle length (only varieties with one bristle)
	18	Density of bristles (only varieties with more than one bristle)
Maturity		
Caryopsis	25	Shape
	26	Colour
SECONDARY		
Vegetative		
Flag leaf	3	Length
	4	Width
Culm	20	Diameter (between 3rd and 4th nodes below panicle)
	22	Anthocyanin coloration of node (4th node from the ground)
LABORATORY		
[1]UPOV Guideline referenced in description		TG 260/1 (24.03.2010)

OECD Seed Schemes

CHICKPEA
(*Cicer arietinum L.*)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Stem	4	Anthocyanin colouration
Foliage	5	Intensity of green colour
Leaflet	6	Size
Heading/Flowering		
	18	Time of flowering (80% of plants with at least one flower)
Flower	7	Colour
After Flowering		
Plant	1	Habit (after flowering)
Maturity		
Plant	3	Height (when pods fully developed)
Pod	8	Peduncle length
	9	Size
	12	Number of seeds
Seed	19	Time of dry seed maturity
	13	Colour (1 month after harvest)
	15	Weight
	16	Shape
	17	Ribbing
SECONDARY		
Vegetative		
Plant	2	Ramification
Maturity		
Pod	10	Intensity of green colour
	11	Length of beak (moved from PRIMARY)
	14	Intensity of colour (1 month after harvest)
LABORATORY		
[1]UPOV Guideline referenced in description		TG/143/4 (06-04-2005)

OECD Seed Schemes

BERMUDA GRASS

(*Cynodon dactylon* (L.) Pers.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaf		Colour on 3rd stem node
		Width on 3rd stem node
Stolon		3rd internode length
Stem		3rd internode length
Plant		Height (stem) of mature stands
Heading/Flowering		
Inflorescence		Number of racemes
		Length
Peduncle		Length
Anther		Colour
SECONDARY		
Vegetative		
Stolon		Anthocyanin (NB. best determined in juvenile growth).
LABORATORY		Simple sequence repeat markers for clonally propagated cultivars
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

TUFTED HAIRGRASS

(Deschampsia cespitosa (L.) P. Beauv)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant		Natural height Growth habit
Leaf		Intensity of green colour Size
Heading		
Plant		Time of inflorescence emergence
Stem		Length of longest stem
Inflorescence		Anthocyanin colouration
SECONDARY		
Vegetative		
Flag leaf		Length Width
Heading		
Stem		Length of upper internode
Inflorescence		Length (when fully expanded)
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

FINGER MILLET
(*Eleusine coracana* (L.) Gaertn)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant		Growth habit
Stem		Pubescence
		Anthocyanin colouration of sheath
		Intensity of anthocyanin colouration of sheath
Heading/Flowering		
Ear		Shape
		Density
		Branching
Maturity		
Seed		Glume colour
		Colour
SECONDARY		
Vegetative		
Plant		Height
		Number of tillers
Leaf		Colour
Flowering		Time of 50% flowering
Heading		
Ear		Number of productive tillers
		Length
		Width
		Size
		Number of branches
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

QUACK GRASS, WHEAT GRASS, COUCH GRASS, SCUTCH

(Elymus repens (L.) Gould subsp. *repens*
[Formerly *Elytrigia repens* (L.) Desv. ex Nevski])

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaf		Rate of growth
Rhizomes		Rate of development
Habit		Compact bunching
Tillers		Tillers present and number
Heading		Time of flowering Number of branches
SECONDARY		
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

SUMMER LOVEGRASS, TEF GRASS
(*Eragrostis tef* (Zuccagni) Trotter)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative (Start of inflorescence emergence)		Time of inflorescence emergence
Plant		Height Growth habit
Heading		
Leaf		Length Width Colour
Culm		Length
Inflorescence		Length Density
SECONDARY		
Heading		
Foliage		Density
Leaf		Anthocyanin colouration Pubescence on upper side Pubescence on lower side Curling of apex
Culm		Branching above ground level Anthocyanin colouration at nodes Length of uppermost internode
Inflorescence		Length of second lowest primary branch Anthocyanin colouration on main axis at lowest vertical Number of primary branches Lowest primary branches arranged in whorl Glands in or near axils of primary branches Pubescence of primary branches
Seed		Colour
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

CENTIPEDE GRASS
(*Eremochloa ophiuroides* (Munro) Hack.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant		Height
Leaf		Width Length Pubescence
Sheath		Pubescence
Leaf and stem		Anthocyanin. (n.b. cool temperatures will intensify anthocyanin colour)
Heading/Flowering		
Anther		Colour (yellow or red)
Panicle		Length
Florets		Number per cm
SECONDARY		
Vegetative		
Stolon		Colour (n.b. best determined in the juvenile growth stage)
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

BUCKWHEAT

(*Fagopyrum esculentum* Moench)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Flowering		
	5	Beginning of flowering
Plant	6	Growth type
Plant	7	Height
Leaf blade	9	Intensity of green colour
Petal	11	Colour
SECONDARY		
Flowering		
Leaf	8	Shape of base
Flower	12	Length of pedicel
LABORATORY		
[1]UPOV Guideline referenced in description		TG/278/1 (28-03-2012)

OECD Seed Schemes

SHEEP'S FESCUE

(*Festuca ovina* L.**)**

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant	3	Natural height
	4	Growth habit
	9	Development of rhizomes
Leaf	7	Intensity of green colour
	8	Glaucosity
Heading		
Plant	10	Time of inflorescence emergence
	11	Height at time of inflorescence emergence
	15	Length of longest stem
Inflorescence	18	Anthocyanin colouration of panicle
SECONDARY		
Vegetative		
Leaf sheath	2	Anthocyanin colouration
Leaf	5	Length
Heading		
Flag leaf	12	Length
Plant	16	Length of upper internode
Inflorescence	17	Length
LABORATORY		
	1	Ploidy
[1]UPOV Guideline referenced in description		TG/67/5 (05.04.2006)

OECD Seed Schemes

MEADOW FESCUE, TALL FESCUE
(*Festuca pratensis* Huds, *Festuca arundinacea* Schreb)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant	2	Growth habit
	7	Natural height after vernalization
Leaf	4	Intensity of green colour during vegetative growth stage
Heading/Flowering		
Plant	8	Time of inflorescence emergence (after vernalization)
	9	Growth habit at inflorescence emergence
	10	Natural height at inflorescence emergence
Stem	11	Length of longest stem including inflorescence (when fully expanded)
SECONDARY		
Vegetative		
Flag leaf	12	Width
	14	Length on representative stem
LABORATORY		
	1	Ploidy
[1]UPOV Guideline referenced in description		TG/39/8(17.04.2002)

OECD Seed Schemes

RED FESCUE

(*Festuca rubra* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant	3	Height
	4	Growth habit
	9	Development of rhizomes
Leaf	7	Intensity of green colour
	8	Glaucosity
Heading		
Plant	10	Time of inflorescence emergence
	11	Height at time of inflorescence emergence
	15	Length of the longest stem
Inflorescence	18	Anthocyanin colouration of the panicle
SECONDARY		
Vegetative		
Leaf sheath	2	Anthocyanin colouration
Leaf	5	Length
	6	Width
Heading		
Flag leaf	12	Length
	13	Width
Plant	16	Length of upper internode
Inflorescence	17	Length
LABORATORY		
Plant	1	Ploidy
[1]UPOV Guideline referenced in description		TG/67/5 (05.04.2006)

Festuca rubra L. includes Chewings Fescue and Creeping Red Fescue.

OECD Seed Schemes

FODDER GALEGA

(*Galega orientalis* Lam.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Second year after sowing		
Flowering		Time of beginning of flowering
Stem		Hairiness of stem
Leaf		Number of leaflet-pairs
Heading/Flowering		
Flower		Colour
Maturity		
Pod		Attitude of stem Curvature
SECONDARY		
In sowing year		
Plant		Tendency to flowering in sowing year
Second year after sowing		
Plant		Natural height on spring time
Flowering		
Stem		Length (longest stem, including pod) Thickness Number of internodes Density of hairiness
Leaf		Green colour of foliage
Leaflet		Shape Width Length
Stipule		Shape
Inflorescence		Length
Flower		Intensity of violet colour
In the second summer		
Plant		Rhizomes
Second year autumn		
Plant		Tendency to flowering Natural height of aftermath
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

SOYA BEAN
(*Glycine max* (L.) Merr.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Hypocotyl	1	Anthocyanin colouration
Flowering		
Plant	3	Growth Type
	4	Growth habit
	5	Colour of hairs (main stem)
Leaf	8	Shape of lateral leaflet
	10	Intensity of colour
Flower	11	Colour
	19	Time of beginning of flowering (1 flower open on 50% of plants)
Maturity		
Plant	6	Height
	20	Time of maturity
SECONDARY		
Vegetative		
Plant	3	Growth type
Flowering		
Leaflet	9	Size of lateral leaflet
Maturity		
Pod	12	Intensity of brown colour
Seed	13	Size
	14	Shape
	15	Colour of testa (excluding hilum)
	17	Hilum colour
		Seed coat Lustre (dull or shiny)
LABORATORY		
[1]UPOV Guideline referenced in description		TG/80/6 (01.04.1998)

OECD Seed Schemes

COTTON

(*Gossypium* spp. including *Gossypium hirsutum* L., *Gossypium barbadense* L. and *G. hirsutum* x *G. barbadense*)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant	24	Shape
	26	Height
Leaf	11	Shape
	12	Size
Flowering		
Flower	1	Colour of petal (at opening)
Maturity		
Boll	19	Size
SECONDARY		
Vegetative		
Plant	25	Density of foliage
	9	Number of nodes at lowest fruiting branch (at flowering stage)
Fruiting branch	5	Length
Leaf	13	Pubescence (lower side)
	14	Nectaries
Maturity		
Boll	20	Shape (in longitudinal sectional)
	21	Pitting of surface
	22	Length of peduncle
	23	Prominence of tip
	27	Time of opening (50% one boll open)
	33	Content of lint
Seed	30	Density of fuzz
	32	Weight of 100 seeds
Fibre	34	Length
	35	Strength
LABORATORY		
[1]UPOV Guideline referenced in description		TG/88/6 (April 4, 2001)

OECD Seed Schemes

[SUNFLOWER]

(*Helianthus annuus* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaf	4	Green colour
	6	Serration
	8	Shape of distal part
Heading/Flowering		
	14	Time of flowering
Ray floret	19	Colour
Disc flower	20	Colour
	23	Production of pollen
Maturity		
Plant	28	Natural height
	29	Branching (excluding environmental branching)
	30	Type of branching (as for 29)
	31	Natural position of highest lateral head to the central head
Head	33	Size
Seed	38	Main colour
	41	Colour of stripes
SECONDARY		
Vegetative		
Leaf	3	Size
	5	Blistering
Stem	13	Hairiness at the top (last 5 cm)
Heading/Flowering		
Ray floret	15	Density
	16	Shape
Maturity		
Head	32	Attitude
Seed	36	Shape
LABORATORY		
[1]UPOV Guideline referenced in description		TG 81/6 (05.04.2000)

OECD Seed Schemes

BARLEY
(*Hordeum vulgare L.*)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Earing		
	7	Time of ear emergence (first spikelet visible on 50% of ears)
Flag leaf	3	Anthocyanin colouration of auricles
Awns	8	Anthocyanin colouration of tips
Heading/Flowering		
Ear	10	Glaucosity
	11	Attitude
	13	Number of rows
	15	Density
Plant	12	Height (stem and ear)
SECONDARY		
Tillering		
Plant	1	Growth habit
	2	lowest leaves: hairiness of leaf sheaths
	29	seasonal type
Earing		
Flag leaf	4	Intensity of anthocyanin colouration of auricles
Awns	9	Intensity of anthocyanin colouration
	17	Length (compared to ear)
Ear	14	Shape
	16	Length (excluding awns)
Rachis	18	Length of first segment
	19	Curvature of first segment
Sterile spikelet	20	Attitude (in mid third of ear)
Median spikelet	21	Length of glume and its awn relative to grain
Grain	22	Rachilla hair type
	23	Husk
	24	Anthocyanin colouration of lemma nerves
	25	Spiculation of inner lateral nerves of dorsal side of lemma
	26	Hairiness of ventral furrow
	27	Disposition of lodicules
LABORATORY		
Kernel	28	Colour of aleurone layer
[1]UPOV Guideline referenced in description		TG/19/10 (04.11.1994)

OECD Seed Schemes

CRESTED HAIRGRASS

(*Koeleria macrantha* (Ledeb.) Schult.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant		Natural height Growth habit Intensity of green colour Size
Heading		
Plant		Time of inflorescence emergence Height
Stem		Hairiness
Panicle		Intensity of green colour
Inflorescence		Anthocyanin colouration
SECONDARY		
Vegetative		
Leaf		Hairiness
Heading		
Flag leaf		Length Width
Stem		Length of upper internode
Inflorescence		Length
LABORATORY		
[1]UPOV Guideline referenced in description	None	

OECD Seed Schemes

HYACINTH BEAN, LABLAB BEAN

(*Lablab purpureus* (L.) Sweet)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant		Anthocyanin colouration of hypocotyl
		growth type
Leaf		Intensity of green colour
		Blistering
Flowering		
Flower		Colour of standard
		Colour of wing
Pod		Length
Maturity		
Seed		Weight
		Number of colours
		Main Colour
		Predominant secondary colour
		Distribution of predominant secondary colour
SECONDARY		
Vegetative		
Plant		Height
		Start of climbing
		Speed of climbing
Leaf:		Ground colour
		Size of terminal leaflet
		Shape of terminal leaflet
		Apex of terminal leaflet
Flowering		
		Time of 50% flowering
Pod		Maximum median width
		Intensity of green colour
		Degree of curvature
		Shape of curvature
		Shape of distal part excluding beak
		Length of beak
		Curvature of beak
Maturity		
Seed		Shape of median longitudinal section
		Shape of median cross-section
		Veining
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

FLAX, LINSEED

(*Linum usitatissimum* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Heading/Flowering		
Petal	1	Colour bud stage
Flower	2	Time of beginning of flowering (precocity)
	5	Size of corolla
Corolla	4	Colour
	7	Width
Plant	14	Height
SECONDARY		
Flowering		
Corolla	3	Arrangements of petals
Stamen	10	Colour of distal part of filament
	11	Colour of basal part of filament
Anther	12	Colour
Style	13	Colour at base
LABORATORY		
Boll	16	Ciliation of false septa
[1]UPOV Guideline referenced in description		TG/57/7 (20.10.2011)

OECD Seed Schemes

PERENNIAL RYEGRASS, ITALIAN RYEGRASS, HYBRID RYEGRASS

(*Lolium perenne* L., *Lolium multiflorum* Lam. and *Lolium xhybridum* Hausskn.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant	2	Vegetative growth habit (without vernalisation)
	7	Vegetative growth habit (after vernalisation)
	8	Height
Leaf	4	Width at vegetative stage
	5	Intensity of green colour
Heading		
Plant	11	Time of inflorescence emergence (precocity)
	12	Height at inflorescence emergence
	17	Length of the longest stem
Awns		Absent/Present
SECONDARY		
Flag leaf	14	Length
	15	Width
LABORATORY		
	1	Ploidy
[1]UPOV Guideline referenced in description		TG/4/8 (05.04.2006)

OECD Seed Schemes

ANNUAL RYEGRASS
(*Lolium rigidum* Gaudin.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant	2	Vegetative growth habit
Leaf	3	Length
	4	Width
	5	Intensity of green colour
Heading		
Plant	9	Time of inflorescence emergence
	17	Length of longest stem (inflorescence included)
Awns		Absent / Present
SECONDARY		
Heading		
Flag leaf	14	Length at emergence of infloresence
	15	Width at emergence of inflorescence
Plant	18	Length of upper internode (when inflorescence fully emerged)
Inflorescence	19	Length
	20	Number of spikelets
	22	Length of glume on basal spikelet
	23	Length of basal spikelet excluding awn
LABORATORY		
	1	Ploidy
[1]UPOV Guideline referenced in description		TG/4/8 (05.04.2006)

OECD Seed Schemes

SPHERE MEDIC, SPHERE MEDICK
(*Medicago murex* Willd.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant		Growth Habit
Leaf		Marking (flecks +/-)
Heading/Flowering		
		Time of flowering
Maturity		
Pod		Direction of spiral Shape Spines (Size) Colour
SECONDARY		
Maturity		
Seed		Shape 1000 seed weight
LABORATORY		
		Chromosome number (murex vs sphere)
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

TOBACCO
(*Nicotiana tabacum* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Heading/Flowering		
Plant	2	Height of main stem (including inflorescence)
	4	Number of leaves
Leaf	7	Angle of insertion)
	8	Length of blade (excluding auricles)
	9	Width of blade
	10	Ratio length/width of blade (excluding auricles)
	14	Shape of blade
	21	Colour of blade
	22	Colour of midrib on lower side
	23	Time of flowering (50% of plants with at least one corolla open)
Flower	24	Length (excluding peduncle)
	29	Colour of corolla
	30	Development of stamens
	31	Length of pistil relative to stamens (varieties with fully developed stamens only)
SECONDARY		
Heading		
Leave	6	type
Leaf	15	shape of tip
	18	Blistering of blade
	20	Development of auricles
Flower	28	Expression of tips of corolla
Inflorescence	32	Shape
	33	Position relative to upper leaves
	34	Compactness
Fruit	35	Form
LABORATORY		
[1]UPOV Guideline referenced in description		TG/195/1 (17.04.2002)

OECD Seed Schemes

SERRADELLA
(O*rnithopus compressus*)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaflet		Size Number Shape
Flowering		
Flower		Colour
Maturity		
Plant		Height
SECONDARY		
Vegetative		
Leaflet		Hairs
Flowering		
Flower		Number in a bunch
Maturity		
Pod		Length Width Number of seeds
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

HYBRIDS OF SERRADELLA
(*Ornithopus sativus* Brot. x *O. compressus* L. Brot.& Linnaeus)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaflet		Size Number Shape
Flowering		
Flower		Colour
Maturity		
Plant		Height
SECONDARY		
Vegetative		
Leaflet		Hairs
Flowering		
Flower		Number in a bunch
Maturity		
Pod		Length Width Number of seeds
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

RICE

Oryza sativa L.

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaf	4	Anthocyanin colouration
Heading/Flowering		
Flag leaf	16	Attitude of blade (late observation)
Milk and dough development		
Stem	26	Non-prostrate varieties only: length (excluding panicle)
Spikelet	36	Pubescence of lemma
	37	Colour of tip of lemma
Panicle	39	Attitude in relation to stem
	42	Attitude of branches
Lemma	46	Colour
Decorticated grain	60	Shape (in lateral view)
	61	Colour
SECONDARY		
Vegetative		
Leaf	9	Anthocyanin colouration of auricles
Heading		
Spikelet	24	Colour of stigma
Milk and dought development		
Stem	27	Anthocyanin colouration of node
	29	Anthocyanin colouration of internodes
Panicle	32	Awns
	34	Distribution of awns
	44	Time of maturity
Lemma	48	Anthocyanin colouration of keel (late observation)
	49	Anthocyanin colouration of area below apex (late observation)
	50	Anthocyanin colouration of apex (late observation)
LABORATORY		
[1]UPOV Guideline referenced in description		TG/16/8 (31.03.2004)

OECD Seed Schemes

WHITE BUFFALO GRASS

Panicum maximum Jacq.

Stage of examination	Character Number[5]	Character description
PRIMARY		
Vegetative		
Plant	1	stolons
	2	growth habit
	3	height
Culm	9	waxiness
Leaf	10	sheath hairiness
	11	attitude
	15	waxiness of leaf blade
	16	hairiness of leaf blade
Heading/Flowering		
Inflorescence	21	secondary branching
Spikelet	22	colour
Flowering	24	period
	25	Time of flowering
SECONDARY		
Vegetative		
Plant	4	axillary tillering
	5	intensity of basal tillering
Culm	7	diameter
Leaf	12	length of leaf blade
	13	width of leaf blade
	14	intensity of green colour of leaf blade
Sheath	27	length of hair
Heading/Flowering		
Inflorescence	17	length of floral stem
	18	compactness
	20	length of the basal branching
Spikelet	23	hairiness
LABORATORY		
UPOV Guideline referenced in description[1]	None	

[5] Character number based on Brazil's National Guidelines for DUS Test in *Panicum maximum* Jacq. published in Official Gazette in April 16th 2001 (copy supplied to OECD)

OECD Seed Schemes

SEED POPPY

(*Papaver somniferum* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaf	2	White spots
	3	Colour
	4	Waxiness
Flowering		
Stem	6	Length (main stem)
	7	Anthocyanin colouration
Petal	10	Colour
	11	Blotch (marking)
	12	Colour of blotch (marking)
Maturity		
Capsule	16	Waxiness
	18	Shape of longitudinal section
	20	Length
SECONDARY		
Vegetative		
Leaf	1	Hairiness
	5	Depth of incisions of margin
Flowering		
Stem	8	Hairiness
Petal	13	Extension of blotch (marking) from base
	14	Incisions
Filament	15	Colour
Capsule	22	Ribbing
LABORATORY		
[1]UPOV Guideline referenced in description		TG/166/4 (09.04.2014)

OECD Seed Schemes

SEASHORE PASPALUM, SILTGRASS, SAND KNOTGRASS

(*Paspalum vaginatum* Sw.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
		Rhizomes
Leaf blade		Colour
Plant		Growth habit
Heading		
Inflorescence		Number of primary branches
		Emergence
Plant		Height
Flag leaf		Length
		Width
Spikelet		Anther colour
SECONDARY		
Vegetative		
Stolons		Number of primary branches
		Spread after one year
Heading		
Spikelet		Length
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

CALIFORNIA BLUEBELL

(*Phacelia tanacetifolia* Benth.)

1.

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant		Growth habit
Leaf	2	Intensity of green colour
Flowering		
	3	Time of beginning of flowering
Plant	4	Natural height
Leaf	7	Anthocyanin colouration
Flower	8	Colour
SECONDARY		
Vegetative		
Leaf	5	Length
	6	Width
Flowering		
Infructescence	10	Length
	11	Number of tendrils
LABORATORY		
Seed	1	Ploidy
[1]UPOV Guideline referenced in description		TG 319/1 (05.04.2017)

OECD Seed Schemes

HARDING GRASS, PHALARIS, BULBOUS CANARY GRASS

(*Phalaris aquatic* L.[incl. *P.stenoptera* Hackel*, P. tuberosa* L.])

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
(late winter of the second year)		
Plant		Tiller density
		Growth habit
Leaf		Length
		Width
Heading/Flowering		
(Between head emergence and flowering)		
Plant		Proportion of plants with hairs on outer glumes[2]
Plant		Time of inflorescence emergence
After flowering		
First leaf below flag leaf		Length
		Width
Stem		Length of upper internode
Maturity		
Plant		Proportion of plants with intact rachilla seed retention[3]
SECONDARY		
Vegetative		
Plant		Vigour
Leaf		Colour
Maturity		
Plant		Proportion of plants with red root tips in germinating seedlings[4]
After flowering		
Stem		Length of longest stem
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

[2]Glumes are considered hairy even if they have only a few scattered hairs. Requires low power magnifying lens for observation.
[3]Presence of intact rachilla seed retention can be inferred if most if not all florets in a fully mature head contain seed and these seeds cannot be removed by rapid spinning or flicking of the head.
[4]Red colour can range from very faint to intense.

OECD Seed Schemes

REED CANARYGRASS

(*Phalaris arundinaceae* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant		Growth habit
Leaf		Green colour
Leaf blade		Width
		Length
Stem		Attitude
Heading		
Flag leaf		Size
Stem		Length of longest stem
Panicle		Heading time (first flower open on 50% of plants)
		Length
		Width
SECONDARY		
Vegetative		
Leaf sheath		Anthocyanin colouration
		Density of hairs on margin
		Ligule
Leaf blade		Density of hairs on leaf margin
		Density of hairs on upper side
Heading		
Lemma		Pubescence
Panicle		Spikelet length
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

CANARY GRASS
(Phalaris canariensis L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaf		Intensity of green colour Size
Heading		
Plant		Time of flowering Height
Inflorescence		Shape Size
SECONDARY		
Heading		
Flag leaf		Width Attitude
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

TIMOTHY

(P*hleum pratense* L. and P*hleum nodosum* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative (GS25)		
Leaf	3	Colour before elongation
	4	Width before elongation
Plant	5	Growth habit
Heading (GS 65)		
	6	Time of inflorescence emergence
Stem	9	Length of longest stem
SECONDARY		
Vegetative (GS 49)		
Flag leaf	7	Length
	8	Width
Stem	10	Length of upper internode
Heading (GS 65)		
Inflorescence	11	Length (fully expanded)
LABORATORY		
GS 00	1	Ploidy
[1]UPOV Guideline referenced in description		TG/34/6 (07.11.1984)

OECD Seed Schemes

FIELD PEA
(*Pisum sativum* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant	1	Anthocyanin colouration
Stem	3	Fasciation
	4	Length
Leaf	8	Leaflets
Stipule	20	Flecking
Heading/Flowering		
	24	Time of flowering
Flower	26	Colour of wing
SECONDARY		
Vegetative		
Stipule	21	Density of flecking
Flowering		
Pod	42	Curvature
LABORATORY		
Seed	52	colour of cotyledon
	55	hilum colour
[1]UPOV Guideline referenced in description		TG/7/10 Rev. (08.04.2014) Revision in preparation.

OECD Seed Schemes

RIBWORT PLANTAIN
(*Plantago lanceolate* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Seedling		
Cotyledon		length
Vegetative		
Plant		Growth habit
Leaf		Length winter
		Width winter
		Colour
		Hairs
		Shape
Petiole		Length
Maturity		
		Time of inflorescence emergence
Plant		Length of longest stem (inflorescence included)
Leaf		Length at flowering
		Width at flowering
Head		Length
		Width
		Colour
		Hairs
SECONDARY		
Vegetative		Aftermath flowering in late summer
LABORATORY		Ploidy
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

Source: New Zealand, May 2017

OECD Seed Schemes

WOOD MEADOWGRASS

(*Poa nemoralis* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant		Growth habit
Leaf		Intensity of green colour
		Shape
Heading		
		Time of flowering
Plant		Height of stem including panicle
Flag leaf		Width
Stem		Anthocyanin colouration
Panicle		Anthocyanin colouration
		Shape
SECONDARY		
Heading		
Panicle		Length (when fully expanded)
		Length
Stolons		Absent/Present
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

ROUGH-STALKED MEADOWGRASS

(*Poa trivialis* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant		Growth habit
Leaf		Intensity of green colour
Heading		
		Time of flowering
Plant		Height of stem including panicle
Flag leaf		Size
Stem		Anthocyanin colouration
Panicle		Anthocyanin colouration
		Length (when fully expanded)
		Shape
SECONDARY		
Vegetative		
Plant		Presence of stolons
Leaf		Size
		Pubescence
		Glossiness
		Margin hairs
Heading		
Flag leaf		Length
		Width
Leaf sheath		Hairs on margin
		Hairs on surface
Ligule		Length
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

WEEPING ALKALIGRASS, REFLEXED SALT GRASS

(*Puccinellia distans* (Jacq.) Parl..)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Heading		
Head		Type
Anthesis		
Leaf		Shape Pubescence
Maturity		
Seed		Shape and size
SECONDARY		
Heading		
Spikelets		Number
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

FODDER RADISH

(*Raphanus sativus* var. *oleiformis* Pers.)

2.

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaf	4	Green colour
	5	Lobes
	7	Dentation of margin
	8 + 9	Size
Flowering		
	12	Time of flowering (precocity)
Plant	13	Height at flowering
Flower	14	Colour of petals
SECONDARY		
Vegetative		
Leaf	6	Number of lobes
Root	23	Colour
LABORATORY		
[1]UPOV Guideline referenced in description		TG/178/3 (04.04.2001)

OECD Seed Schemes

RYE
(*Secale cereale* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Earing		
Flag leaf	8	glaucosity of sheath
Ear	9	time of emergence
Ripening		
ear	12	glaucosity
	16	length (without awns)
stem	13	hairiness below ear
plant	14	length (stem, ear and awns)
SECONDARY		
Seedling growth		
coleoptile	3	anthocyanin colouration
	4	length
first leaf	5	length of sheath
	6	length of blade
Tillering		
plant	7	growth habit
Ripening		
leaf next to flag leaf	10	length of blade
	11	width of blade
stem	15	length between upper node and ear
ear	17	density
	18	attitude
plant	22	seasonal type
LABORATORY		
	1	ploidy
grain	2	colour of aleurone layer
	19	weight per thousand grains
	20	length
	21	colouration with phenol
[1]UPOV Guideline referenced in description		TG/58/6 (24-03-1999)

OECD Seed Schemes

WHITE MUSTARD

(*Sinapis alba* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaf	5	Green colour
	8 + 9	Size
Flowering		
	11	Time of flowering (precocity)
Plant	12	Height at flowering
Flower	13	Yellow colour of petals
Corolla	14 + 15	Size
SECONDARY		
Vegetative		
Leaf	6	Number of lobes
	7	Dentation of margin
Flowering		
Siliqua	17	Length (between peduncle and beak)
LABORATORY		
	2	Ploidy
[1]UPOV Guideline referenced in description		TG/179/3 (04.04.2001)

OECD Seed Schemes

EASTERN STAR CLOVER
(*Trifolium dasyurum* C.Presl.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaf		Marker
Plant		Growth habit
Flowering		Time of flowering
Maturity		
Seed		Size Number per head
SECONDARY		
Vegetative		
Leaf		Size Shape Anthocyanin
Stem		Hairiness
Flowering		Calyx retention
Maturity		
Seed		1000 seed weight
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

GLAND CLOVER, GLANDULAR CLOVER

(*Trifolium glanduliferum* (Boiss.))

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaf		Shape Size Margin
Flowering		Time of flowering Presence/absence of conspicuous floral bracts
SECONDARY		
Vegetative		
Leaf		Density of glands on margins
Stipule		Margin
Calyx		Margin
Flowering		
Flower		Colour
Stipule		Shape
Maturity		
Seed		Dehiscence 1000 seed weight
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

RED CLOVER

(Trifolium pratense L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Flowering		
Plant	8	Tendency to flower in the year of sowing – without vernalisation
	11	Time of flowering
Stem	12	length (the longest stem should be observed including the head within 1-2 weeks after mean date of flowering)
Leaf	16	Shape of medial leaflet
Leaf	19	Intensity of white marks (the observation should be made at beginning of flowering on the upper third of the plant)
Flower		Colour
SECONDARY		
Flowering		
Stem	13	Thickness
	14	Number of internodes
	15	Density of hairs
Leaf	17	Length of medial leaflet
	18	Width of medial leaflet
LABORATORY		
	2	Ploidy
[1]UPOV Guideline referenced in description		Doc No. TG/5/7 (04.04.2001)

OECD Seed Schemes

WHITE CLOVER

(*Trifolium repens* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant	2	Intensity of green colour
	5	Prominence of white leaf marks
Flowering		
	6	Time of flowering (precocity)
Plant	7	Height
	9	Growth habit
Leaf	16	Size of median leaflet
SECONDARY		
Flowering		
Leaf	12	Length of petiole
Inflorescence	18	Length of petiole
	21	Diameter
LABORATORY		
Plant	4	Proportion of plants with cyanid glucoside
[1]UPOV Guideline referenced in description		TG/38/7 (09.04.2003)

OECD Seed Schemes

BLADDER CLOVER, BLADDER-POD CLOVER
(*Trifolium spumosum* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Leaf		Marker (central pale spot, pale crescent) Size of central pale spot
Plant		Growth habit
Flowering		
		Time of flowering
Head		Size Shape Seed per head
SECONDARY		
Vegetative		
Leaf		Size
Stem		Thickness
Flowering		
Flower		Colour
Maturity		
Seed		Colour 1000 seed weight
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.

OECD Seed Schemes

WHEAT
(*Triticum aestivum* L.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant	4	Growth habit
Flag leaf	6	Anthocyanin colouration of auricles
Heading		
	7	Time of ear emergence
Flag leaf	8	Glaucosity of sheath
	9	Glaucosity of blade
Ear	10	Glaucosity
Culm	11	Glaucosity
Plant	13	Length **(**stem, ear, awns and scurs**)**
Lower glume	12	Hairiness on external surface
Ear	15	Density
	16	Length (excluding awns and scurs)
	19	Colour
	20	Shape in profile
Awns or scurs	17	Presence
	18	Length (at tip of ear)
SECONDARY		
Heading		
Straw	14	Pith in cross section (halfway between base of ear and stem node below)
Apical rachis segment	21	Hairiness of convex surface
Lower glume	22	Shoulder width (spikelet in mid-third of ear)
	23	Shoulder shape
	24	Beak length
	25	Beak shape
	26	Area of hairiness on internal surface
Lowest lemma:		Beak shape
	26	Seasonal type
LABORATORY		
Seed	1	Colour
	2	Colouration with phenol
[1]UPOV Guideline referenced in description		TG 03/12 (05.04.2017)

OECD Seed Schemes

WINTER DURUM WHEAT

(*Triticum turgidum* L. subsp. *durum* (Desf.) Husn.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Heading/Flowering		
	4	Time of ear emergence
Flag leaf	6	Glaucosity of sheath
Culm	9	Glaucosity of neck
Ear	10	Glaucosity
Maturity		
Plant	11	Length
Awn	21	Colour
Ear	23	Colouration
SECONDARY		
Maturity		
Ear	22	Length
	24	Density
LABORATORY		
Maturity		
Lower glume	15	Shape of shoulder
	16	Width of shoulder
	17	Length of beak
	18	Curvature of beak
	19	Hairiness of external surface
Grain	27	Colouration with phenol
[1]UPOV Guideline referenced in description		TG/120/4 (28.03.2012)

OECD Seed Schemes

FIELD BEAN
(*Vicia faba* L)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Flowering		
	2	Time of flowering
Wing	8	Melanin spot
Plant	13	Height
SECONDARY		
Flowering		
Plant	12	Growth type
LABORATORY		
Seed	19	Colour of testa
	20	Black pigmentation of hilum
[1]UPOV Guideline referenced in description		TG/8/6 (17.04.2002) Revision of TG currently under preparation

OECD Seed Schemes

FESTULOLIUM
(x *Festulolium* spp.)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Plant	6	Growth habit after vernalisation
	7	Height after vernalisation
Flowering		
	8	Time of inflorescence emergence
Flag leaf	10	Length
	11	Width
Leaf		Intensity of green colour
		Glaucosity (absent / present)
Maturity		
Plant	12	Length of longest stem, inflorescence included (when fully expanded)
SECONDARY		
Flowering		
Plant	9	Natural height at inflorescence emergence
Inflorescence	14	Length
LABORATORY		
Plant		Ploidy
[1]UPOV Guideline referenced in description		TG/243/1 (09.04.2008)

OECD Seed Schemes

MAIZE

(*Zea mays L.*)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Flowering		
Tassel	8	Time of anthesis
	11	Anthocyanin colouration of anthers
	14	Number of primary lateral branches
Ear	15	Time of silk emergence
	16	Anthocyanin colouration of silks
Stem	20	Anthocyanin colouration of internodes
Heading/Earing		
Plant	24.1	Length (only inbred lines and varieties with ear type of grain: sweet or pop)
	24.2	Length (only hybrids and open-pollinated varieties, excluding varieties with ear type of grain: sweet or pop)
	25	ratio height of insertion of peduncle of upper ear to plant length
Peduncle	27	Length
Ear	28	Length
	36	Type of grain
	38	Colour of top of grain
	39	Colour of dorsal side of grain (excluding varieties with ear type of grain: sweet)
	41	Anthocyanin colouration of glumes of cob
SECONDARY		
Vegetative		
Leaf	5	Angle between blade and stem
	6	Curvature of blade
Stem	17	Anthocyanin colouration of brace roots
Flowering		
Tassel	12	angle between main axis and lateral branches
	13	Curvature of lateral branches
Heading/Earing		
Tassel	22	Length of main axis above highest lateral branch
Ear	29	Diameter (in middle)
	30	Shape
	31	Number of rows of grain
LABORATORY		
[1]UPOV Guideline referenced in description		TG/2/7 (01.04.2009)

OECD Seed Schemes

ZOYSIA TURFGRASS, JAPANESE LAWN GRASS, KOREAN LAWN GRASS
(*Zoysia japonica* Steud..)

Stage of examination	UPOV Character Number[1]	Character description
PRIMARY		
Vegetative		
Rhizomes		Presence and growth
Stolon and shoots		Length
		Diameter
Leaf		Width
		Colour
		Pubescence length
Heading		
Spike		Length
		Number
Anther		Colour
Seed		
Glume		Length
		Width
SECONDARY		
Vegetative		
Stolons		Anthocyanin in stolons
LABORATORY		
[1]UPOV Guideline referenced in description		There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Uniformity and Stability for this species.