

# VEGETABLES

## ONION (*Allium cepa* L.)

Stage of examination	UPOV Character number *	Character description
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### **PRIMARY**

Vegetative [All observations on the leaf and the foliage should be taken just before foliage fall over.]	1	foliage: length
	4	leaf: maximum diameter
	5	leaf: waxiness
	6	leaf: colour
	26	time of harvest maturity (80% foliage fall over)
At flowering	27	male sterility
Bulb [All observations on the bulb should be taken on the harvested bulb.]	8	bulb: size
	11	bulb: shape
	14	bulb: basic colour of skin
	19	bulb: colour of flesh

### **SECONDARY**

Bulb	16	bulb: skin adherence
	22	bulb: predominant number of axils (to be established in autumn on mature material before storage)
	24	bulb: cross section

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\* Reference :UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/46/3 (19.11.1976)

**LEEK**  
(*Allium porrum* L.)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>		
Vegetative	2	plant: length
[All observations on the plant, the shaft, and the leaf should be taken when the plant is vegetatively fully developed.]	4	foliage: attitude
	6	leaf blade: width
	7	leaf blade: colour
	9	leaf blade: anthocyanin colouration
	14	shaft: length
	15	shaft: diameter
	16	shaft: bulbing
<b><u>SECONDARY</u></b>		
At flowering	18	flower: colour

\* Reference: UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/85/3 (4.10.1983)

**CHERVIL**  
(*Anthriscus cerefolium* (L.) Hoffm.)

Stage of examination	UPOV character number #	Character description
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**PRIMARY AND SECONDARY**

Vegetative	-	plant: attitude
	-	leaf: green colour
	-	leaf: surface
	-	leaflet: shape
	-	leaflet: dissection
	-	plant: height of flowering stalk

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# There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability for this species.

**CELERY**  
(*Apium graveolens* L. var *dulce* (Mill) Pers.)

Stage of examination	UPOV character number *	Character description
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**PRIMARY**

Vegetative	1	plant: height
[All characteristics of the plant and of the leaf should be recorded on fully developed foliage]	7	foliage: green colour
	11	leaflet: serration
	13	petiole: length
	14	petiole: width (at central third)
	18	petiole: self blanching
	20	petiole: anthocyanin colouration

**SECONDARY**

Vegetative	17	petiole: shape of inner side in cross section
	21	petiole: intensity of anthocyanin colouration

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\* Reference: UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/82/3 (19.11.1982)

**CELERIAC**  
(*Apium graveolens* L. var *rapaceum* (Mill) Gaud)

Stage of examination	UPOV character number *	Character description
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**PRIMARY**

Vegetative [All characteristics of the leaf should be recorded on the fully developed foliage]	1	plant: height
	2	foliage: attitude
	6	leaf blade: size of leaflets of first order
	7	petiole: length
	9	petiole: anthocyanin colouration
At tuber formation [All characteristics of the tuber should be recorded at harvest maturity.]	10	tuber: size
	11	tuber: height to width ratio
	12	tuber: position of maximum width
	14	tuber: main colour of skin
	17	tuber: insertion of roots
	21	tuber: discoloration of flesh after cooking

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\* Reference: UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.

Doc No. TG/74/3 (12.11.1980)

**ASPARAGUS**  
(*Asparagus officinalis* L.)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>		
Vegetative	4	plant: green colour of foliage
	5	stem: maximum length (fully extended)
	6	stem: length up to first ramification
	7	stem: diameter at ground level
At emergence of spear	8	spear: anthocyanin colouration of apex
	9	time of beginning of emergence of spears (30% of plants with at least one emerged spear)
	11	spear: shape of apex
	12	spear: diameter of base of apex compared to remaining stem
At harvest maturity	14	spear: length of first bracts at base of apex
	15	spear: width of first bracts at base of apex
At flowering	17	sex expression

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\* Reference: UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc. No. TG/130/3 (12.10.1990)

**BEETROOT**  
(*Beta vulgaris* L. var *esculenta*)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>		
Vegetative [All characteristics of the plant and of the leaf should be observed when the foliage has reached its maximum length.]	2	seedling: anthocyanin colouration of hypocotyl
	5	leaf blade: length
	6	leaf blade: shape
	7	leaf blade: main colour
	12	leaf blade: anthocyanin colouration
	8	leaf blade: undulation of margin
	15	petiole: length
	17	petiole: colour
	19	root: shape of longitudinal section
	23	root: external colour
	25	root: main colour of flesh
	26	root: colour of rings compared to main colour of flesh
	Seed	1
<b><u>SECONDARY</u></b>		
Vegetative	21	root: narrowing of tip
	28	bolting resistance (from an early sowing)

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\* Reference: UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/60/3 (15.11.1978)

**LEAF BEET, CHARD**  
(*Beta vulgaris* L. var *vulgaris*)

Stage of examination	UPOV character number *	Character description
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**PRIMARY**

Vegetative	1	seedling: anthocyanin colouration
[All observations on the plant and on the leaf should be made when the foliage has reached its maximum height.]	3	foliage: height
	4	foliage: attitude
	5	leaf blade: length
	6	leaf blade: width
	7	leaf blade: intensity of green colour
	8	leaf: reflexion of margin
	10	leaf blade: blistering
	11	leaf blade: anthocyanin colouration
	13	petiole: width
	15	petiole: colour

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\* Reference: UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/106/3 (7.10.1987)

**KOHLRABI**  
(*Brassica oleracea* L. var *gongylodes* L.)

Stage of examination	UPOV Character Number *	Character description
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**PRIMARY**

Vegetative	1	seedling: colour of cotyledons
[All characteristics of the leaf should be recorded on the outer leaf of the adult plant.	4	leaf: attitude
	5	leaf blade: size
All characteristics of the kohlrabi should be recorded at harvest time.]	6	leaf blade: shape
	7	leaf blade: colour
	10	leaf blade: lobing
	18	petiole: length
	19	petiole: thickness
	22	kohlrabi: shape (in longitudinal section)
	24	kohlrabi: colour of skin
25	start of harvest maturity (when 50% of kohlrabis reach 7cm diameter)	

**SECONDARY**

Vegetative	3	foliage: petiole crossing of one or two leaves
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\* Reference: UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/65/3 (12.11.1980)

**CURLY KALE**  
(*Brassica oleracea* L. var *sabellica* L.)

Stage of examination	UPOV Character Number *	Character description
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**PRIMARY**

Vegetative	2	plant: height
[All observations on the young and the fully developed leaf should be taken when the plant is vegetatively fully developed.]	6	leaf blade: colour of young leaf
	8	leaf blade: colour of fully developed leaf
	11	leaf blade: length
	12	leaf blade: width
	14	leaf blade: curling
	16	petiole: attitude
	17	petiole: length

**SECONDARY**

Vegetative	10	leaf blade: shape
	18	petiole: width

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\* Reference: UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/90/3 (7.11.1984)

**CAULIFLOWER**  
(*Brassica oleracea* L. convar *botrytis* (L.) Alef. var *botrytis*)

Stage of examination	UPOV Character Number *	Character description
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**PRIMARY**

Vegetative [All observations on leaves should be taken on the outer adult plant; all observations on the curd should be taken at harvest.]	1	seedling: anthocyanin colouration
	3	plant: size (at time of harvest)
	4	outer stem: length
	5	leaf: attitude
	7	leaf: shape
	10	leaf: colour
	13	leaf: blistering
	15	leaf: undulation of margin
	16	leaf: degree of undulation of margin
	19	curd: covering by inner leaves
	20	curd: size
	21	curd: shape in longitudinal section
	22	curd: doming
23	curd: colour	
At flowering	29	flower: colour

**SECONDARY**

Vegetative	15	leaf: undulation of margin
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\* Reference: UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/45/3 (19.11.1976)

**SPROUTING BROCCOLI, CALABRESE**  
(*Brassica oleracea* L. convar *botrytis* L. Alef. var *cymosa* Duch.)

Stage of examination	UPOV character number #	Character description
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**PRIMARY AND SECONDARY**

Vegetative	-	plant: size
	-	stem: length
	-	stem: branching
	-	leaf: attitude
	-	leaf: shape
	-	leaf: green colour
	-	leaf: undulation of margin
	-	head: formation
	-	head: size
	-	head: shape of longitudinal section
	-	head: green colour
	-	head: firmness
	-	head: bracts

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# There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability for this species

## SAVOY CABBAGE, WHITE CABBAGE and RED CABBAGE

(*Brassica oleracea* L. convar *capitata* (L.) Alef. var *sabauda* L.)

(*Brassica oleracea* L. convar *capitata* (L.) Alef. var *alba* DC)

(*Brassica oleracea* L. convar *capitata* (L.) Alef. var *rubra* DC)

Stage of examination	UPOV character number *	Character description
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### **PRIMARY**

Vegetative [All observations on the leaf and the head should be taken just before harvest.]	1	plant: height at harvest maturity
	3	plant: length of outer stem
	4	plant: attitude of outer leaves
	8	outer leaf: blistering
	10	outer leaf: crimping (savoy cabbage only)
	11	outer leaf: colour with wax
	18	head: shape of longitudinal section
	21	head: diameter
	23	head: cover
	25	head: blistering of cover leaf (savoy cabbage only)
	26	head: colour of cover leaf
	27	head: anthocyanin colour of cover leaf (white and savoy cabbage only)
	33	head: length of the interior stem in relation to length of head
	34	time of harvest maturity

\* Reference: UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.

Doc. No. TG/48/4 (Proj) (7.6.1991)

**BRUSSELS SPROUT**  
(*Brassica oleracea* L. convar *oleracea* var *gemmifera* DC)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>		
Vegetative	1	plant: height
[All observations on the plant and leaves should be recorded at the beginning of sprout formation.]	3	leaf blade: size
	4	leaf blade: colour
	5	leaf blade: intensity of colour
	7	leaf blade: cupping
	8	leaf blade: blistering
	10	petiole: attitude
	12	petiole: anthocyanin colouration
[All observations on the sprout should be recorded at the mid-point of the stem, when the sprouts are fully developed]	13	sprout: size
	14	sprout: shape of longitudinal section
	15	sprout: colour
	16	sprout: opening of outer leaves
	18	start of harvest maturity
	<b><u>SECONDARY</u></b>	
Vegetative	6	leaf blade: waxiness
	9	leaf blade: reflexing of margin

\* Reference: UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc. No. TG/54/6 (12.10.1990)

**CHINESE CABBAGE**  
(*Brassica pekinensis* L.)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>		
Vegetative [All observations on the plant and the leaf should be made before harvest maturity.]	1	plant: height
	5	outer leaf: blistering
	7	outer leaf: colour
	12	outer leaf: undulation of margin
	19	head: shape in longitudinal section
	22	head: intensity of colour of wrapper leaves
	27	head: time of formation
<b><u>SECONDARY</u></b>		
Vegetative	21	head: colour of wrapper leaves

\* Reference: UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.

Doc. No. TG/105/3 (7.10.1987)

**TURNIP**  
(*Brassica rapa* L. emend Metzg)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>		
Vegetative [All observations on the leaf and the root should be recorded on control plots sown at a time to keep plants in the vegetative stage. All observations on the leaf should be made on fully developed leaves.]	6	leaf: attitude
	8	leaf: green colour
	9	leaf: lobes
	21	root: chlorophyll colouration of skin at top
	22	root: anthocyanin colouration of skin at top
	27	root: colour of flesh
	30	root: general shape
At flowering [All observations on the flower and the plant should be recorded on control plots sown at a time chosen so that the plants are induced.]	42	flower: colour of petal
	43	flower: length of petal
	44	flower: width of petal
Seedling	2	ploidy: number
<b><u>SECONDARY</u></b>		
Vegetative [All observations on the leaf and root should be recorded on control plots at a time to keep the plants in the vegetative stage.]	10	leaf: number of lobes
	14	leaf: length (blade and petiole)
	15	leaf: width (widest point)
[All observations on the leaf should be made at the vegetative stage.]	19	root: position in soil
	20	root: cork layer around skin

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**TURNIP**  
(continued)  
(*Brassica rapa* L. emend Metzg)

Stage of examination	UPOV character number *	Character description
	23	root: expression of anthocyanin colouration of skin at top
	26	root: colour of skin below ground
	31	root: length
	32	root: width
	33	root: relative position of widest point
	35	root: crown shape
	36	root: shape of base
At flowering [All observations on the flower and the plant should be recorded on control plots at a time chosen so that the plants are induced.]	37	plant: height at appearance of flowering of bud
	39	time of flowering in year of sowing for spring sown trials (50% of plants with at least one open flower)
	41	time of flowering in year after year of sowing for autumn sown trials (50% of plants with at least one open flower)
	45	plant: length of stem
	46	plant: diameter of stem (about 10 cm above root neck)

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\* Reference: UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/37/7 (21.10.1988)

**SWEET PEPPER**  
(*Capsicum annuum* L.)

Stage of examination	UPOV Character Number *	Character description
<b><u>PRIMARY</u></b>		
Vegetative [All characteristics on the leaf should be recorded on a level in flower]	1	seedling: anthocyanin colouration of hypocotyl
	4	plant: length of internodes
	5	plant: anthocyanin colouration at nodes
	7	leaf: length
	8	leaf: width
At fruiting	13	fruit: colour before maturity
[All characteristics on the fruit unless otherwise indicated should be recorded on normally fertilised mature fruits (half of surface coloured) the 2nd or 3rd flowered node.]	15	fruit: attitude
	19	fruit: shape of longitudinal section
	21	fruit: shape of cross section (at level of placenta)
	22	fruit: colour at maturity
	25	fruit: stalk cavity
	27	fruit: shape of apex
	29	fruit: average number of locules
	31	fruit: thickness of flesh
	32	fruit: taste
At flowering	37	time of beginning of flowering (first flower on second flowering node on 50% of plant)
<b><u>SECONDARY</u></b>		
Vegetative	3	plant: length of stem (from cotyledons to first flower)

\* Reference: UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc. No. TG/76/3 (12.11.1980)

**ENDIVE**  
(*Cichorium endivia* L.)

Stage of examination	UPOV Character Number *	Character description
<b><u>PRIMARY</u></b>		
Vegetative [All observations on the plant and the leaf should be made just before harvest maturity. The observations on the leaf should be made on leaves excluding the outer and centre leaves.]	3	heart: shape in longitudinal section
	4	heart: colour
	5	heart: intensity of green colour
	9	leaf: length
	10	leaf: maximum width
	12	leaf: colour
	14	leaf: dissection
	15	leaf: degree of dissection (only varieties of cut endive and intermediate types)
	18	leaf: undulation of margin (only varieties of plain endives)
	21	leaf: length of non green midrib without lamina in relation to total length of leaf (only varieties of cut endive and intermediate types)
	22	leaf base: width
	23	leaf: colour of base of midrib (only varieties of cut endive and intermediate types)
	24	stem: height
	28	stem: shape of stipules (only varieties of plain endive)
29	flower: colour	
31	time of bolting	

\* Reference: UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc. No. TG/118/3 (21.10.1988)

**LEAF CHICORY**  
(*Cichorium intybus* L. (partim))

Stage of examination	UPOV character number #	Character description
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**PRIMARY AND SECONDARY**

Vegetative	-	leaf: anthocyanin colouration (5-6 leaves)
	-	head: formation (at harvest maturity)
	-	head: shape in longitudinal section
	-	head: colour of outer leaves
	-	head: length (at harvest maturity)
	-	leaf: width
	-	leaf: attitude
	-	leaf: colour
	-	leaf: colour of midrib
	-	leaf: anthocyanin colouration
	-	leaf: anthocyanin distribution
	-	leaf: type of distribution
	-	leaf: shape
	-	leaf: upper surface
	-	leaf: undulation of margin
	-	earliness: time
	-	root: branching

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# There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability for this species

**WATER MELON**  
(*Citrullus lanatus* (Thumb.) Matsim et Nakai)

Stage of examination	UPOV Character Number #	Character description
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**PRIMARY**

Vegetative [All observations on the leaf should be recorded on fully developed leaves.]	-	stem: anthocyanin
	-	leaf: form
At flowering	-	flower: sexual type
At fruiting [All observations on the fruit should be made on mature fruits.]	-	fruit: size
	-	fruit: shape
	-	fruit: surface
	-	fruit: colour
	-	fruit: intensity of green colour
	-	fruit: stripes
	-	fruit: type of stripe
Seedling	-	fruit: flesh colour
	-	ploidy: number

**SECONDARY**

Seed [All observations on the seed should be made on mature and dry seeds after washing and drying in the shade.]	-	seed: presence
	-	seed: size
	-	seed: colour
	-	earliness: time

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# There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability for this species

**MELON**  
(*Cucumis melo* L.)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>		
Vegetative [All observations on the leaf should be recorded on fully developed leaves]	1	hypocotyl: length (first true leaf stage)
	5	leaf blade: size
Flowering	14	inflorescence: sex expression
Fruit [All observations on fruit should be made on mature fruits, unless otherwise stated.]	15	fruit: ground colour of skin before maturity
	17	fruit: length
	18	fruit: diameter
	19	fruit: ratio of length to diameter
	20	fruit: position of maximum width
	21	fruit: shape of longitudinal section
	22	fruit: ground colour of skin at maturity
	24	fruit: secondary colours of skin
	25	fruit: distribution of secondary colours of skin
	30	fruit: abscission of peduncle
	32	fruit: shape of base
	33	fruit: shape of apex
	34	fruit: size of pistil scar
35	fruit: grooves	
36	fruit: maximum width between grooves	
39	fruit: creasing of surface	

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**MELON**  
(continued)  
(*Cucumis melo* L.)

Stage of examination	UPOV character number *	Character description
	40	fruit: cork formation
	41	fruit: thickness of cork layer
	42	fruit: pattern of cork formation
	44	fruit: colour of grooves
	48	fruit: main colour of flesh
	50	fruit: colour of flesh of outer layer

\* Reference: UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc. No. TG/104/4 Add (21.10.1988)

**CUCUMBER, GHERKIN**  
(*Cucumis sativus* L.)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>		
Flowering	13	plant: sex expression (bisexual flowers excluded)
Fruit [All observations on fruits should be made between market stage and colour change of fruit.]	16	fruit: length
	20	fruit: neck (cucumbers only)
	24	fruit: ground colour of skin
	26	fruit: ribs
	28	fruit: type of vestiture
	30	fruit: colour of vestiture
	34	fruit: mottling
	43	cotyledons: bitterness
<b><u>SECONDARY</u></b>		
Fruit	15	parthenocarpy
	18	fruit: shape of cross section

\* Reference:UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.

Doc. No. TG/61/3 (15.11.1978)

**SQUASH, PUMPKIN**  
(*Cucurbita maxima* Duchesne)

Stage of examination	UPOV character number #	Character description
<b><u>PRIMARY AND SECONDARY</u></b>		
Vegetative [All observations on the leaf should be recorded on fully developed leaves.]	-	plant: growth habit
	-	stem: tendrils
	-	leaf blade: incisions
	-	leaf blade: surface spines (setae)
	-	leaf blade: marbling
	-	petiole: spines (setae)
At flowering	-	female flower: ring at base of corolla
	-	female flower: colour or ring at base of corolla
At fruiting [All observations on the fruit should be made on mature fruits.]	-	mature fruit: shape
	-	mature fruit: surface
	-	mature fruit: ribs
	-	mature fruit: number of colours
	-	mature fruit: colour (single coloured fruit only)
	-	mature fruit: principal colour of fruit with more than one colour
	-	mature fruit: colour of ribs (if different from the rest of the fruit)
	-	mature fruit: colour of secondary colour
	-	mature fruit: mottling of colour
	-	mature fruit: colour of mottling
	-	mature fruit: size of flower scar
	-	mature fruit: length
-	mature fruit: breadth	

# There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability for this species

**VEGETABLE MARROW, COURGETTE**  
(*Cucurbita pepo* L.)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>		
Vegetative [All observations on the leaf should be made on fully developed leaves when the fruit starts developing and should exclude the lower external leaves.]	2	plant: growth habit
	3	plant: branching
	5	plant: attitude of petiole (bush varieties only)
	9	leaf blade: incisions
	11	leaf blade: marbling
At flowering [All observations on the ring of the corolla should be made when female and male flowers have appeared]	18	female flower: ring at innerside of corolla
	22	female flower: colour of pistil (before opening)
	24	male flower: colour of ring at innerside of corolla
Young fruit [All observations on the young fruit should be made on fruits five days after flowering.]	31	young fruit: length
	32	young fruit: maximum diameter
	33	young fruit: ratio length/maximum diameter
	34	young fruit: neck
	35	young fruit: curving of neck (on normally set fruits)
	36	young fruit: number of colours
	37	young fruit: major colour
	39	young fruit: shape of cross section
40	young fruit: warts	

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## VEGETABLE MARROW, COURGETTE

(continued)

(*Cucurbita pepo* L.)

Stage of examination	UPOV character number *	Character description
	42	young fruit: colour of ribs compared to rest of fruit
	43	young fruit: colour of linear bands on ribs
	44	young fruit: mottling
	45	young fruit: type of mottling
	46	young fruit: colour of mottling of skin
	48	young fruit: size of flower scar
	49	young fruit: protrusion of flower scar
	51	young fruit: main colour of peduncle
	53	young fruit: mottling of peduncle
Fully developed fruit [All observations should be made when the fruit is fully developed and ready for harvesting.]	55	fruit: general shape
	56	fruit: major colour
	60	fruit: colour of stripes on ribs
	62	fruit: colour of mottling on skin
	64	fruit: maximum length
	65	fruit: maximum diameter
	66	fruit: ratio length/maximum diameter
Ripe fruit [All observations should be made on physiological ripe fruits]	57	ripe fruit: major colour
	61	ripe fruit: colour of stripes on ribs

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\* Reference :UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/119/3 (21.10.1988)

**CARDOON**  
(*Cynara cardunculus* L.)

Stage of examination	UPOV character number #	Character description
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**PRIMARY AND SECONDARY**

Vegetative

[All observations on the plant should be recorded on mature plants.]

- plant: height

- plant: attitude

[All observations on the leaf should be recorded on fully developed leaves.]

- leaf blade: width

- leaf blade: degree of curl

- leaf: green colour

- petiole: length

- petiole: hollowness

- petiole: degree of hollowness

- petiole: spines

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# There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability for this species

**CARROT**  
(*Daucus carota* L.)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>		
Vegetative [All observations on the foliage and the leaf should be made at the time of full development of the foliage.]	3	leaf: length (including petiole)
	4	leaf: division
	6	petiole: anthocyanin colouration
[All observations on the carrot should be made at carrot maturity. Carrot maturity is recorded when the carrot is fully developed and the colour is no longer changing.]	7	carrot: length
	8	carrot: width
	10	carrot: shape of longitudinal section
	11	carrot: shape of shoulder
	12	carrot: crown shape
	13	carrot: tip (when fully developed)
	14	carrot: external colour
	18	carrot: ridging of surface
	19	carrot: diameter of core relative to total diameter
	20	carrot: core colour
	22	carrot: cortex colour
	24	carrot: colour of core compared to cortex

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\* Reference :UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/49/6 (12.10.1990)

**FENNEL**  
(*Foeniculum vulgare* Miller)

Stage of examination	UPOV character number #	Character description
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**PRIMARY AND SECONDARY**

Vegetative	-	plant: attitude
	-	petiole: attitude
	-	grumolo: general shape
	-	grumolo: cross section
	-	grumolo: height
	-	grumolo: dimension of broad axis
	-	grumolo: dimension of narrow axis
	-	sheath: surface
	-	sheath: overlapping
	-	sprout: laterals
	-	self blanching: presence
	-	earliness: time

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# There are no UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability for this species

**LETTUCE**  
(*Lactuca sativa* L.)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>	1	dry seed: colour
	4	seedling: anthocyanin colouration
Vegetative [Unless otherwise indicated all characteristics of the plant, the head, the leaf and the leaf blade should be recorded at harvest maturity.]	9	plant: diameter
	11	plant: intensity of heart formation
	15	head: shape in longitudinal section
	19	leaf: colour
	20	leaf: anthocyanin colouration
	22	leaf: distribution of anthocyanin
	23	leaf: kind of anthocyanin distribution
	26	leaf: blistering
	35	stem: fasciation
	37	time of harvest maturity
	38	time of beginning of bolting under long day conditions
<b><u>SECONDARY</u></b>		
Vegetative	10	plant: heart formation
	12	head: overlapping of leaves

\* Reference :UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/13/4 (26.10.1981)

**TOMATO**  
(*Lycopersicon lycopersicum* L. Karst ex Farw.)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>		
Vegetative	1	seedling: anthocyanin colouration of hypocotyl
	2	plant: growth type
	10	leaf: division of blade
	11	leaf: type
Flowering	16	flower: pubescence of style
Fruit [All observations on the fruit should be taken on the 3rd fruit of the 2nd and 3rd truss at the beginning of the colouring at the fruit apex provided there has been normal fertilisation.]	20	fruit: size
	21	fruit: shape in longitudinal section
	23	fruit: cross section
	30	fruit: predominant number of locules
	31	fruit: green shoulder (before maturity)
	35	fruit: colour (at maturity)
	36	fruit: colour of flesh (at maturity)
	38	time of maturity
<b><u>SECONDARY</u></b>		
Fruit	22	fruit: ribbing at stem end

\* Reference :UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/44/5 (proj) (7.6.1991)

**PARSLEY**  
(*Petroselinum crispum* (Miller) Nyman ex A. W. Hill)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>		
Vegetative [All observations on the leaf should be recorded on fully developed leaves.]	1	plant: height
	3	plant: density of foliage
	4	leaf blade: curling
	5	leaf blade: intensity of curling
	8	leaf blade: attitude
	14	leaf blade: intensity of colour
	21	petiole: anthocyanin colouration
	22	root: thickening (leaf and root parsley)
	23	root: length (root parsley only)
24	root: thickness (root parsley only)	

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\* Reference :UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/136/4 (18.10.1991)

**RUNNER BEAN**  
(*Phaseolus coccineus* L.)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>	1	plant: growth habit
	2	flower: colour
[All observations on the pod should be made at fresh harvest maturity.]	3	pod: length including beak
	7	pod: string
[All observations on the seed should be made at the mature dry stage.]	8	seed: number of colours
	9	seed: main colour
	10	seed: secondary colour
	11	seed: appearance of secondary colour

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\* Reference :UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/9/4 (21.10.1988)

**FRENCH BEAN**  
(*Phaseolus vulgaris* L.)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>	2	plant: growth type
[All observations of the growth habit and on leaves should be taken at time or full flowering.]	6	leaf: green colour
	11	time of flowering: 50% of the plants with at least one flower
	13	flower: size of bracts
	14	flower: colour of standard
[All observations on the pod should be taken at the commencement of seed swelling.]	15	flower: colour of wings
	17	pod: length (including beak)
	19	pod: cross section through seed
	-	pod: thickness
	20	pod: ground colour
	22	pod: pigmentation
	23	pod: colour of pigmentation
	25	pod: string
	30	pod: length of beak
	36	seed: size (1000 seed weight at dry stage)
37	seed: shape of median longitudinal section	
39	seed: colour	
40	seed: main colour	
41	seed: number of secondary colours	
42	seed: main secondary colour	
43	seed: distribution of main secondary colour	
45	seed: colour of hilar ring	
<b><u>SECONDARY</u></b>	26	pod: degree of curvature

\* Reference :UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/12/4 (19.11.1982)

**RADISH**  
(*Raphanus sativus* L. var *niger* (Mill.) S. Kerner)

Stage of examination	UPOV character number *	Character description	
<b><u>PRIMARY</u></b>			
Vegetative [All characteristics of the leaf should be recorded on the fully developed 4th leaf at harvest maturity.]	1	ploidy: number	
	5	leaf: attitude	
	6	leaf: length	
	8	leaf blade: colour	
	10	leaf blade: lobes (division to midrib)	
	12	leaf blade: number of lobes (division to midrib)	
	16	petiole: anthocyanin colouration	
	[All characteristics of the radish should be recorded at harvest maturity.]	17	radish: length
		18	radish: thickness
		19	radish: shape
22		radish: colour of skin	
At maturity	26	time of harvest maturity	

\* Reference :UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/63/3 (13.11.1980)

**SCORZONERA, BLACK SALSIFY**  
(*Scorzonera hispanica* L.)

Stage of examination	UPOV character number *	Character description
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**PRIMARY**

Vegetative

[All observations should be made when the plant is vegetatively fully developed.]

1	plant: height
2	foliage: green colour
3	leaf: gloss
4	leaf: attitude
5	leaf: length
6	leaf: width
10	root: predominant shape
11	root: length
14	root: end
15	root: colour

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\* Reference :UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/116/3 (21.10.1988)

**EGG PLANT**  
(*Solanum melongena* L.)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>		
Vegetative [All observations on the leaf should be made on flowering branches.]	3	plant: attitude
	6	stem: anthocyanin colouration
	9	branch: length of internodes
	11	leaf: margin
	15	leaf: colour
At start of flowering	14	time of start of flowering
At flowering	16	flower: purple colour
At fruiting stage [All observations on the fruit should be made on normally developed fruits.]	17	fruit: length
	19	fruit: ratio length/diameter
	20	fruit: general shape
	21	fruit: size of pistil scar
	22	fruit: shape of apex
	24	fruit: curvature (for cylindrical types)
	25	fruit: colour of skin (at commercial harvest)
	27	fruit: stripes
	33	fruit: anthocyanin colouration below calyx
	35	fruit: anthocyanin colouration of calyx
	38	fruit: colour of flesh

\* Reference :UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/117/3 (21.10.1988)

**SPINACH**  
(*Spinacia oleracea* L.)

Stage of examination	UPOV character number *	Character description
<b><u>PRIMARY</u></b>		
Seed	2	seed: spines
Vegetative [All characteristics of the leaf should be observed at the 7th leaf of the adult plant.]	10	leaf: colour
	11	leaf: intensity of colour
	13	leaf: lobing
	18	leaf: shape of blade
	19	leaf: length of the midrib
Flowering [The characteristics relating to flowering should be observed at the beginning of fruit setting.]	25	flowering plant: proportion of monoecious plants
	28	flowering plant: proportion of male plants without leaves
	30	start of bolting: 10% of plants
<b><u>SECONDARY</u></b>		
Vegetative	12	leaf: blistering

\* Reference :UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/55/3 (17.11.1977)

**CORN SALAD, LAMB'S LETTUCE**  
(*Valerianella locusta* L. and *Valerianella eriocarpa* Desv.)

Stage of examination	UPOV Character number *	Character description
<b><u>PRIMARY</u></b>		
Vegetative [All characters of the plant and the leaf should be recorded at harvest maturity.]	3	plant: attitude
	6	leaf: length
	7	leaf: width
	8	leaf: shape
	9	leaf: green colour
	10	leaf: gloss
	11	leaf: appearance of upper side
	12	leaf: profile in cross section (inner leaves)
	13	leaf blade: profile in longitudinal section of apical part
	At the beginning of flowering	19
At maturity	1	seed size

\* Reference :UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/75/3 (12.11.1980)

**BROAD BEAN**  
(*Vicia faba* L. (partim))

Stage of examination	UPOV Character Number *	Character description
<b><u>PRIMARY</u></b>		
Vegetative [All observations on the plant and the leaf should be made at green shell stage.]	-	growth: habit
	2	plant: height
At flowering [All observations should be made on the flower when it just opens and on the flower on the largest flower at the second flowering node.]	13	time of flowering: (50% of plants with at least one flower open)
	15	flower: melanin spot on wing petal
	17	flower: anthocyanin colouration of standard petal
At pod formation [All observations on the pod should be made at full development of the pods.]	21	pod: length
Seed [All observations on the seed should be made on seed harvested in the dry stage.]	29	seed: 1000 seed weight
	30	seed: colour of testa
	31	seed: black pigmentation of hilum

\* Reference :UPOV Guidelines for the Conduct of Tests for Distinctness, Homogeneity and Stability.  
Doc No. TG/08/4 (7.11.1984)