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UPOV

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

TECHNICAL COMMITTEE

Seventeenth Session

Geneva, October 14 to 16, 1981

CHARACTERISTICS AND UPOV TEST GUIDELINES

Document prepared by the Office of the Union

1. During its last session the Technical Committee asked the Technical Working Parties "to draw up lists of characteristics used by the different national Offices in addition to the characteristics mentioned in the UPOV Test Guidelines and to study which of them should be included in these Test Guidelines when these were revised" (see document TC/XVI/6, paragraph 14).

2. The Technical Committee had also decided that this question should be included in the agenda of the seventeenth session of the Technical Committee (see document TC/XVI/6, paragraph 43).

3. On a suggestion by the Chairman of the Technical Committee the Office of UPOV has prepared a circular (No. U 632-08.1) asking for information for the following:

i) a list of all major characteristics which are used by the national Offices for the testing of distinctness, homogeneity or stability but which are not mentioned in the UPOV Test Guidelines, and

ii) an indication of the characteristics contained in the UPOV Test Guidelines which are considered superfluous by the national Offices because they are never or seldom used or because they fluctuate too much.

4. The information received in reply to that circular at the time of writing this document is--in its original language--reproduced in Annex III (Belgium), IV (Denemark), V (France), VI (Federal Republic of Germany), VII (South Africa), VIII (Spain), IX (Sweden), X (United Kingdom).

5. To ease the comparison of the different information given, the Office of UPOV has grouped the different characteristics mentioned--without their states--according to the single Test Guidelines and has reproduced them in Annex I (List of Characteristics used by the member States in addition to the characteristics mentioned in the UPOV Test Guidelines) and Annex II (List of Characteristics of the UPOV Test Guidelines not used by the member States or considered superfluous because of being only of little use or too much fluctuating).

6. For technical reasons in the process of compiling the Annexes I and II each characteristic has been given the first figure of the document number of the corresponding Test Guidelines. In addition after each characteristic the country using it or considering it superfluous is indicated by the ISO two letter code which has the following meaning:

| | |
|----|-----------------------------|
| BE | Belgium |
| DE | Federal Republic of Germany |
| DK | Denmark |
| ES | Spain |
| FR | France |
| GB | United Kingdom |
| SE | Sweden |
| ZA | South Africa |

7. In view of the short time available between the time of receipt of the observations of member States and the date of the session it was not possible to submit this document and the first two Annexes in any other language but English. The characteristics have, in Annexes I and II, been included in the form in which they have been presented except those received in French which have been translated by the Office of the Union.

[10 Annexes follow]

ANNEX I

LIST OF CHARACTERISTICS USED BY THE MEMBER STATES IN ADDITION
TO THE CHARACTERISTICS MENTIONED IN THE UPOV TEST GUIDELINES

| Document Number | Test Guidelines/Characteristic | Country |
|-----------------|--|---------|
| 02 | Test Guidelines for Maize | |
| 02 | Anthocyanin coloration of fixing (ancrege) roots (2 weeks after flowering at 50%) | FR |
| 02 | Anthocyanin coloration of blade of first leaf (seedling in glasshouse-3rd to 4th leaf stage) | FR |
| 02 | Anthocyanin coloration of tip of glume (male flowering) | FR |
| 02 | Anthocyanin coloration of blade margin (full flowering) | FR |
| 02 | Branches of second and third order (after flowering) | FR |
| 02 | Density of "brin maître" (after flowering) | FR |
| 02 | Ear: cover of ear (full maturity) | BE |
| 02 | Ear: length of cover leaves compared to ear | BE |
| 02 | Ear: number of fertile cobs | BE |
| 02 | Hairiness of sheath (50% flowering) | FR |
| 02 | Leaf: number | BE |
| 02 | Length of leaf of upper ear | BE |
| 02 | Male sterility (full flowering) | FR |
| 02 | Number of leaves above highest ear (3 weeks after flowering at 50%) | FR |
| 02 | Prolifcation | FR |
| 02 | Shape of grain (maturity) | FR |
| 02 | Tillering | FR |
| 02 | Total number of leaves (3 weeks after flowering at 50%) | FR |
| 02 | Vigor at start (4 leaves stage) | FR |
| 02 | Width of blade (3 weeks after flowering at 50%) | FR |
| 02 | Width of cover leaves (maturity) | FR |
| 03 | Test Guidelines for Wheat | |
| 03 | Alternativity: degree | FR |
| 03 | Attitude of ear when over ripe | FR |
| 03 | Attitude of ear: after ear emergence at maturity | BE |
| 03 | Black rust | FR |
| 03 | Black rust (charbon) | FR |
| 03 | Brown rust (rouille noire) | FR |
| 03 | Ciliation of auricles of flag leaf | FR |
| 03 | Cold | FR |
| 03 | Color of foliage: fine tillering before ear emergence | BE |
| 03 | Coloration of foliage - dominant coloration | FR |
| 03 | Coloration of foliage - secondary coloration (if present) | FR |
| 03 | Culm pigmentation | ES |
| 03 | Culm: anthocyanin coloration of neck | DK |
| 03 | Ear attitude (at maturity) | ES |
| 03 | Ear grouping | ES |
| 03 | Ear length | ES |
| 03 | Ear neck length | ES |
| 03 | Ear neck shape | ES |
| 03 | Ear: attitude at maturity | SE |
| 03 | Ear: color at anthesis | SE |
| 03 | Ear: length | SE |
| 03 | Ear: length | FR |
| 03 | Ear: profil | FR |
| 03 | Earliness of maturity | FR |
| 03 | External surface of glume: roughness | ES |
| 03 | First leaf sheath: hairiness | ES |
| 03 | Flag leaf: hairiness of sheath | DK |
| 03 | Flag leaf: length | SE |
| 03 | Flag leaf: marking | FR |
| 03 | Flag leaf: sheath hairness | ES |
| 03 | Flag leaf: width | SE |
| 03 | Food-rot (Piétin) | FR |
| 03 | Fusarium | FR |
| 03 | Glume: external hairiness | ES |
| 03 | Glume: length | ES |
| 03 | Glume: shape | ES |
| 03 | Glume: spicules in the lateral nerve of the narrow wing | ES |
| 03 | Glume: width | ES |
| 03 | Grain: deepness of the ventral furrow | ES |
| 03 | Grain: length | ES |
| 03 | Grain: relative size of embryo | ES |
| 03 | Grain: roughness of surface | ES |

| Document Number | Test Guidelines/Characteristic | Country |
|-----------------|--|---------|
| 03 | Grain: shape of embryo | ES |
| 03 | Grain: shape of section of ventral furrow | ES |
| 03 | Grain: size | FR |
| 03 | Grain: texture type | ES |
| 03 | Grouping of ears | FR |
| 03 | Hairiness of sheath of last leaf (EEC) | BE |
| 03 | Keel glume denticulation | ES |
| 03 | Keel glume inflexion | ES |
| 03 | Leaf blade: glaucosity | ES |
| 03 | Leaf blade: length | ES |
| 03 | Leaf blade: width | ES |
| 03 | Leaf color (at tillering) | ES |
| 03 | Length of neck of ear | BE |
| 03 | Lodging | FR |
| 03 | Lowest lemma beak length | ES |
| 03 | Oidium (on ear) | FR |
| 03 | Oidium (on leaf) | FR |
| 03 | Plot: color | SE |
| 03 | Rachis: first segment: length | FR |
| 03 | Rachis: lateral hairiness of first segment | ES |
| 03 | Rachis: lateral hairiness of central segment | ES |
| 03 | Rachis: premier article: hairiness of lateral margin | FR |
| 03 | Rachis: profile of the central segment | ES |
| 03 | Rachis: segment in central third: hairiness | FR |
| 03 | Septoriose | FR |
| 03 | Sheath of first leaf: hairiness | FR |
| 03 | Sheath of flag leaf: hairiness | FR |
| 03 | Spikelet at mid-third: keel + marked | BE |
| 03 | Spikelet at mid-third: keel + inflected | BE |
| 03 | Spikelet in central third: lower glume: general shape | FR |
| 03 | Spikelet in central third: lower glume: length | FR |
| 03 | Spikelet in central third: lower glume: width | FR |
| 03 | Spikelet in central third: lower glume: presence of spines on reduced wings (lateral nerves) | FR |
| 03 | Spikelet in central third: lower glume: beak: inflection | FR |
| 03 | Spikelet in central third: lower glume: beak: prominence | FR |
| 03 | Spikelet in central third: lower glume: beak: presence of spines | FR |
| 03 | Spikelet in central third: lower glume: beak: form of beak | FR |
| 03 | Spikelet in central third: lower glume: beak: external hairiness | FR |
| 03 | Spikelet in central third: lower glume: beak: rugosity on outer surface | FR |
| 03 | Spikelet in central third: lower glume: distance between beaks | FR |
| 03 | Spikelet: shape | ES |
| 03 | Stem: glaucosity | ES |
| 03 | Straw: anthocyanin coloration of stem | FR |
| 03 | Straw: diameter | FR |
| 03 | Supernumerary spikelets: presence | ES |
| 03 | Terminal spikelet: lower glume - beak + marked | BE |
| 03 | Terminal spikelet: lower glume - shape | BE |
| 03 | Terminal spikelet: shape of rachis (grooves) | BE |
| 03 | Upper most node: shape | ES |
| 03 | Yellow rust | FR |
| 04 | Test Guidelines for Ryegrass | |
| 04 | Earliness of spring growth | DK |
| 04 | Uppermost internode: length (time: when fully expanded) | DK |
| 05 | Test Guidelines for Red Clover | |
| 05 | Earliness of spring growth | DK |
| 05 | Leaf: color | DK |
| 05 | Stem: hair | DK |
| 05 | Stem: number of nodes | DK |
| 05 | Stem: thickness | DK |
| 06 | Test Guidelines for Lucerne | |
| 06 | Earliness of spring growth | DK |
| 06 | Leaf: color | DK |

| Document Number | Test Guidelines/Characteristic | Country |
|-----------------|---|---------|
| 07 | Test Guidelines for Garden Pea | |
| 07 | Clusters with pods | DK |
| 07 | Height to 1st fertile node | DK |
| 07 | Size and shape of scale leaf | DK |
| 08 | Test Guidelines for Broad Bean | |
| 08 | Largest flower: anthocyanin coloration of standard tube | UK |
| 08 | Largest flower: extent of anthocyanin coloration of standard tube | UK |
| 08 | Largest flower: extent of melanin spot on back of standard petal | UK |
| 08 | Largest flower: length | UK |
| 08 | Largest flower: melanin spot on wing petals | UK |
| 08 | Largest flower: melanin spot on back of standard petal | UK |
| 08 | Leaflet: length | UK |
| 08 | Leaflet: widest point to base | UK |
| 08 | Number of days from sowing to first flower | UK |
| 08 | Number of flowers in 2nd truss | UK |
| 08 | Number of nodes to first flower | UK |
| 08 | Pod: number of developed seeds | UK |
| 08 | Stem: anthocyanin coloration | UK |
| 08 | Stem: extent of anthocyanin coloration | UK |
| 08 | Stipules: marbling | UK |
| 12 | Test Guidelines for French Bean | |
| 12 | Foliage: time of senescence | UK |
| 13 | Test Guidelines for Lettuce | |
| 13 | Head: diameter | UK |
| 13 | Hypocotyl: anthocyanin coloration | UK |
| 13 | Mature plant: type | UK |
| 13 | Physiological type | UK |
| 13 | Plant: number of days from sowing to flowering | UK |
| 13 | Plant: width (flowering plant) | UK |
| 19 | Test Guidelines for Barley | |
| 19 | Alternativity: degree | FR |
| 19 | Awns attitude related with ear | ES |
| 19 | Awns: denticulation of mid rib | BE |
| 19 | Awns: present or absent | ES |
| 19 | Basal leaf sheath: anthocyanin pigmentation | ES |
| 19 | Black rust (charbon) | FR |
| 19 | Black rust (rouille noire) | FR |
| 19 | Cold | FR |
| 19 | Collar: inclination | BE |
| 19 | Collar: shape | ES |
| 19 | Collar: type | ES |
| 19 | Color of foliage | BE |
| 19 | Color of grain | BE |
| 19 | Condition at maturity | FR |
| 19 | Dwarf rust | FR |
| 19 | Ear color | ES |
| 19 | Ear length | ES |
| 19 | Ear neck: kink | ES |
| 19 | Ear neck: shape | ES |
| 19 | Ear: attitude at maturity (EEC) | BE |
| 19 | Ear: awns (varieties with awns) dentation of midrib | FR |
| 19 | Ear: awns: disposition of spines | FR |
| 19 | Ear: awns: length of spines | FR |
| 19 | Ear: length | FR |
| 19 | Ear: length of ear: position of collar | FR |
| 19 | Ear: neck of ear: shape of collar | FR |
| 19 | Ear: presence or absence of awns | FR |
| 19 | Ear: secondary shape | FR |
| 19 | Earliness of maturity | BE |
| 19 | Earliness of maturity | FR |
| 19 | First leaves: anthocyanin coloration under strong illumination | FR |
| 19 | Flag leaf: length | BE |
| 19 | Flag leaf: shifting of auricles | FR |
| 19 | Flag leaf: width | BE |

| Document Number | Test Guidelines/Characteristic | Country |
|-----------------|--|---------|
| 19 | Foliage: dominant color | FR |
| 19 | Foliage: secondary color (if present) | FR |
| 19 | Glume: hairiness | FR |
| 19 | Glume: length of glume compared with length of lower lemma | BE |
| 19 | Grain spiculation of central nerve of lemma | ES |
| 19 | Grain: lowest lemma: dentation of nerves of lower back at the bord of adjoining glumes | FR |
| 19 | Grain: lowest lemma: frequency of circular depression of furrow | FR |
| 19 | Grain: lowest lemma: length of furrow | FR |
| 19 | Grain: lowest lemma: type of spines | FR |
| 19 | Grain: lowest lemma: width | FR |
| 19 | Grain: other characteristics: shape of basal depression from side view | FR |
| 19 | Grain: other characteristics: back profil of lower half of grain | FR |
| 19 | Grain: other characteristics: color of grain (vêtu) | FR |
| 19 | Grain: rachilla: length compared to grain | FR |
| 19 | Grain: rachilla: length compared to rachis segment (central third of ear) | FR |
| 19 | Grain: type | SE |
| 19 | Hairiness of sheath of third leaf | FR |
| 19 | Helminthosporium | FR |
| 19 | Leaf blade glaucosity | ES |
| 19 | Leaf color | ES |
| 19 | Lodging | FR |
| 19 | Lodicules: size | ES |
| 19 | Lower sheaths (4th to 5th) anthocyanin | BE |
| 19 | Marsonia | FR |
| 19 | Neck of ear: frequency of deformation | BE |
| 19 | Neck of ear: frequency of deformation | FR |
| 19 | Neck of ear: glaucosity | BE |
| 19 | Neck of ear: length | BE |
| 19 | Neck of ear: length | FR |
| 19 | Neck of ear: sinuosity | FR |
| 19 | Oidium | FR |
| 19 | Rachis: segment in central third: basal inner hairiness | FR |
| 19 | Rachis: first segment: lateral hairiness | FR |
| 19 | Rachis: first segment: position of roughness compared to segment | FR |
| 19 | Rachis: lateral hairiness of first segment | ES |
| 19 | Rachis: segment in central third: hairiness on back of outer side between the two glumes | FR |
| 19 | Rachis: 1st segment: lateral hairiness | BE |
| 19 | Relative length of palea and lemma | ES |
| 19 | Resistance to Erysiphe graminis | DK |
| 19 | Resistance to Heterodera avenae | DK |
| 19 | Septoriose | FR |
| 19 | Sterile spikelet | BE |
| 19 | Sterile spikelet: glume: length (lower lemma) | FR |
| 19 | Sterile spikelet: glume: hairiness | FR |
| 19 | Sterile spikelet: lower lemma: hairiness | FR |
| 19 | Sterile spikelet: rachillet: color | FR |
| 19 | Sterile spikelet: upper lemma: length compared to lowest lemma | FR |
| 19 | Upper glume: ratio length upper lemma/length lower lemma | BE |
| 19 | Upper lemma: length compared to cariopsis | FR |
| 19 | Upper lemma: shape of upper end | FR |
| 19 | Upper most node: shape | ES |
| 19 | Yellow rust | FR |
| 20 | Test Guidelines for Oats | |
| 20 | Anthocyanin pigmentation of leaf sheath | ES |
| 20 | Attitude of foliage | FR |
| 20 | Black rust (charbon) | FR |
| 20 | Black rust (rouille noire) | FR |
| 20 | Cold | FR |
| 20 | Color of foliage at tillering: rolling of tips of leaves (straightening) | BE |
| 20 | Color of foliage: dominant | FR |
| 20 | Color of foliage: secondary | FR |
| 20 | Crown rust (rouille couronnée) | FR |
| 20 | Earliness of maturity | BE |
| 20 | Earliness of maturity | FR |
| 20 | First leaf attitude | ES |
| 20 | Flag leaf: width | SE |
| 20 | Fusarium | FR |
| 20 | Glaucosity: blade | BE |

| Document Number | Test Guidelines/Characteristic | Country |
|-----------------|--|---------|
| 20 | Glaucosity: leaf sheath | FR |
| 20 | Glaucosity: sheath | BE |
| 20 | Glaucosity: stem | BE |
| 20 | Grain: coloration with phenol acid (naked grain) | FR |
| 20 | Grain: ratio length/width | ES |
| 20 | Grain: rugosity | FR |
| 20 | Grain: scar - breaking | FR |
| 20 | Grain: shape of scutellum | FR |
| 20 | Grain: shoulder | FR |
| 20 | Grain: spines at the top (frequency) | FR |
| 20 | Hairiness of bord of blade (1st and 2nd leaves; 3 leaves stage; in glasshouse) | FR |
| 20 | Hairiness of sheath of first leaf (3 leaves stage; in glasshouse) | FR |
| 20 | Leaf attitude (at stem dongation) | ES |
| 20 | Leaf blade color | ES |
| 20 | Leaf blade glaucosity | ES |
| 20 | Leaf sheath glaucosity | ES |
| 20 | Lodging | FR |
| 20 | Marginal hairiness of blades: 1st and 2nd leaves | BE |
| 20 | Oidium | FR |
| 20 | Panicle: length | BE |
| 20 | Panicle: length of branches | SE |
| 20 | Panicle: length of panicle compactness | FR |
| 20 | Panicule neck: glaucosity | ES |
| 20 | Panicule: density | ES |
| 20 | Plot: color | SE |
| 20 | Primary grain: awn length | ES |
| 20 | Rachilla of first grain: hairiness at base | FR |
| 20 | Resistance to Erysiphe graminis | DK |
| 20 | Resistance to Heterodera avenae | DK |
| 20 | Rolling of the tip of the leaf blade | ES |
| 20 | Scar + oblique | BE |
| 20 | Scutellum | BE |
| 20 | Septoriose | FR |
| 20 | Shoulder + marked | BE |
| 20 | Stem coloration | ES |
| 20 | Stem: diameter | FR |
| 20 | Stem: length of last internode | FR |
| 20 | Three grains spikelet: frequency | ES |
| 20 | Type of hairiness (3 leaves stage; in glasshouse) | FR |
| 20 | Upper most node glaucosity | ES |
| 20 | 1st leaf: anthocyanin coloration (in glasshouse) | FR |
| 20 | 1st leaf: reaction to toscaphene | FR |
| 20 | Flag leaf: length | SE |
| 23 | Test Guidelines for Potato | |
| 23 | Compound leaf (leaf of 4th node above soil, at end of flowering) attitude | BE |
| 23 | Leaflets of second order: number | BE |
| 23 | Leaflets of second order: size | BE |
| 23 | Leaflets: color | BE |
| 23 | Leaflets: nerves | BE |
| 23 | Leaflets: petioles | BE |
| 23 | Leaflets: shape | BE |
| 23 | Leaflets: surface | BE |
| 23 | Sprout: length after 30 days | BE |
| 23 | Sprout: length after 60 days | BE |
| 23 | Sprout: length after 90 days | BE |
| 23 | Stem: number | BE |
| 23 | Stem: wings | BE |
| 23 | Tuber: size (at harvest) | BE |
| 26 | Test Guidelines for Chrysanthemum | |
| 26 | Flower head: color group | UK |
| 26 | Leaf with claw in base of sinus: frequency of presence of claw | UK |
| 26 | Plant: apical dominance when vegetative | UK |
| 26 | Ray florets in which longitudinal axis is not straight: ray floret (majority): proportion of axis not straight | UK |
| 26 | Ray florets in which longitudinal axis is not straight: ray floret (majority): strength of curvature of axis | UK |

| Document Number | Test Guidelines/Characteristic | Country |
|-----------------|--|---------|
| 26 | Ray florets in which longitudinal axis is not straight: ray floret (outer rows): proportion of axis not straight | UK |
| 26 | Ray florets in which longitudinal axis is not straight: ray floret (outer rows): strength of curvature of axis | UK |
| 26 | Ray florets in which longitudinal axis is not straight: ray floret: color of outer face at stage 6 | UK |
| 26 | Ray florets with medium or long tube only: tube: diameter | UK |
| 26 | Spray varieties only: inflorescence: compounding | UK |
| 26 | Spray varieties only: inflorescence: secondary lateral branches | UK |
| 26 | Spray varieties only: inflorescence: conjunction of terminal and top lateral buds | UK |
| 26 | Spray varieties only: inflorescence with conjoined buds: frequency | UK |
| 26 | Stem: cross section | UK |
| 26 | Stem: distribution of anthocyanin color | UK |
| 26 | Stem: pubescence | UK |
| 31 | Test Guidelines for Cocksfoot | |
| 31 | Earliness of spring growth | DK |
| 31 | Inflorescence: length (time: when fully expanded) | DK |
| 31 | Leaf: color | DK |
| 32 | Test Guidelines for Common Vetch | |
| 32 | Leaflets: sizes: length | BE |
| 32 | Leaflets: sizes: width | BE |
| 32 | Pod: shape | BE |
| 32 | Seedlings: sizes of first leaflets: width | BE |
| 32 | Seedlings: sizes of first leaflets: length | BE |
| 33 | Test Guidelines for Kentucky Bluegrass | |
| 33 | Earliness of spring growth | DK |
| 33 | Growth habit (time: at inflorescence emergence) | DK |
| 33 | Leaf: color | DK |
| 34 | Earliness of spring growth | DK |
| 34 | Inflorescence: length (time: when fully expanded) | DK |
| 36 | Test Guidelines for Rape | |
| 36 | Alternativity (sown in spring) | BE |
| 36 | Grain yield | BE |
| 36 | Growth speed | BE |
| 36 | Height to 1st branching with siliques | DK |
| 36 | Length of leaves | DK |
| 36 | Length of petal | DK |
| 36 | Length of siliques | DK |
| 36 | Maturing | BE |
| 36 | Nodes to 1st branching | DK |
| 36 | Siliques in upper cluster | DK |
| 36 | Stem: branching, importance | BE |
| 36 | Width of petal | DK |
| 36 | Width of leaves | DK |
| 38 | Test Guidelines for White Clover | |
| 38 | Earliness of spring growth | DK |
| 38 | Leaf: anthocyanin marks | DK |
| 38 | Leaf: color | DK |
| 38 | Leaf: shape | DK |
| 39 | Test Guidelines for Meadow-, Tall Fescue | |
| 39 | Earliness of spring growth | DK |
| 39 | Inflorescence: length (time: when fully expanded) | DK |
| 39 | Leaf: color (time: before heading) | DK |

| Document Number | Test Guidelines/Characteristic | Country |
|-----------------|---|---------|
| 44 | Test Guidelines for Tomato | |
| 44 | Fruit glossiness | SE |
| 44 | Plant height | SE |
| 44 | Speed of flowering (period between flowering, 1st and 5th truss, only with growth type indeterminate (character 2, glass-house-forcing tomato)) | SE |
| 44 | Speed of plant growth (only with growth type indeterminate character 2, glasshouse-forcing tomato)) | SE |
| 45 | Test Guidelines for Cauliflower | |
| 45 | Curd diameter | UK |
| 45 | Curd: bracting | UK |
| 45 | Curd: color of bracts | UK |
| 45 | Date of flowering | SE |
| 45 | Date of harvest (all varieties sown at the same date) | SE |
| 45 | Date of sprouting | SE |
| 45 | Plant: height | UK |
| 45 | Season of maturity | UK |
| 45 | Time of harvest maturity | UK |
| 46 | Test Guidelines for Onion | |
| 46 | Bulb: base shape | UK |
| 46 | Bulb: base to widest point | UK |
| 46 | Bulb: top shape | UK |
| 46 | Bulb: weight | UK |
| 46 | Bulbs: percentage sprouted after storage | UK |
| 46 | False stem: length | UK |
| 46 | Leaf: number | UK |
| 48 | Test Guidelines for Cabbage | |
| 48 | Head: weight | UK |
| 48 | Leaf: length | UK |
| 48 | Leaf: undulation of margin | UK |
| 48 | Leaf: width | UK |
| 48 | Maturity: number of days from sowing to bursting | UK |
| 57 | Test Guidelines for Flax, Linseed | |
| 57 | Boll: anthocyanin coloration (before maturity) | BE |
| 57 | Flower: color of stigma | FR |
| 57 | Flower: position of stigma compared to anthers | FR |
| 57 | Grain: shape | BE |
| 57 | Grain: variegation | FR |
| 57 | Leaf: color | BE |
| 57 | Leaf: width | BE |
| 57 | Lower ramification, distance from soil | BE |
| 57 | Petal: color of nerves | BE |
| 57 | Petal: intensity of color | BE |
| 57 | Plant: attitude | BE |
| 57 | Pollen: color | BE |
| 57 | Rust | FR |
| 57 | Stem: color (beginning of flowering) | BE |
| 57 | Stigma: color | BE |
| 57 | Stigma: position compared to anthers | BE |
| 58 | Test Guidelines for Rye | |
| 58 | Anthocyanin on awns | BE |
| 58 | Anthocyanin on spikelets | BE |
| 58 | Color of ear (milk ripening) | BE |
| 58 | Color of grain | BE |
| 58 | Color of upper node | BE |
| 58 | Coloration of anthers | BE |
| 58 | Grain: length | BE |
| 58 | Grain: size | BE |
| 58 | Grain: surface | BE |

| Document Number | Test Guidelines/Characteristic | Country |
|-----------------|---|---------|
| 58 | Grain: width | BE |
| 58 | Hairiness of flag leaf sheath | BE |
| 58 | Plant attitude at bolting | BE |
| 58 | Shape of ear (end of flowering) | BE |
| 60 | Test Guidelines for Beetroot | |
| 60 | Petiole: breadth at mid point | UK |
| 60 | Plant: width | UK |
| 60 | Root: widest point to crown | UK |
| 63 | Test Guidelines for Black Radish | |
| 63 | Radish: length/breadth ratio | UK |
| 64 | Test Guidelines for Radish | |
| 64 | Hypocotyl: intensity of anthocyanin coloration | UK |
| 64 | Leaf: breadth | UK |
| 64 | Radish: breadth | UK |
| 64 | Radish: internal anthocyanin coloration | UK |
| 64 | Radish: length | UK |
| 64 | Radish: length/breadth ratio | UK |
| 64 | Radish: photoperiod | UK |
| 64 | Radish: shape of shoulder | UK |
| 67 | Test Guidelines for Sheep's Fescue, Red Fescue | |
| 67 | Earliness of spring growth | DK |
| 67 | Inflorescence: color (time: at flowering) | DK |
| 67 | Rhizomes: length | DK |
| 67 | Upper internode: length (time: when fully expanded) | DK |
| 74 | Test Guidelines for Celeriac | |
| 74 | Leaf: dentation | UK |

[Annex II follows]

TC/XVII/3

ANNEX II

LIST OF CHARACTERISTICS OF THE UPOV TEST GUIDELINES
NOT USED BY THE MEMBER STATES OR CONSIDERED SUPERFLUOUS
BECAUSE OF BEING ONLY OF LITTLE USE OR TOO MUCH FLUCTUATING

| Document Number | Characteristic Number | Test Guidelines/Characteristic | Country |
|-----------------|-----------------------|--|---------|
| 02 | | Test Guidelines for Maize | |
| 02 | 07 | Tassel: time of emergence (50% of plants) | FR |
| 02 | 18 | Tassel: angle between main axis and lateral branches (in lower third of tassel) | FR |
| 02 | 22 | Tassel: length of main axis above <u>upper</u> side branch | FR |
| 02 | 28 | Ear: shape | ZA |
| 02 | 34 | Ear: intensity of anthocyanin coloration of glumes of the cob | FR |
| 07 | | Test Guidelines for Garden Pea | |
| 07 | 53 | Maturity: dry seed | ZA |
| 08 | | Test Guidelines for Broad Bean | |
| 08 | 04 | Leaf: size (at flowering) | UK |
| 08 | 06 | Leaflet: shape (at flowering) | UK |
| 08 | 07 | Foliage color (before flowering) | UK |
| 08 | 08 | Leaf: glossiness of upper side | UK |
| 08 | 09 | Flower: color | UK |
| 08 | 10 | Flower: color of standard tube | UK |
| 08 | 14 | Pod: shape (at harvest stage) | UK |
| 08 | 15 | Pod: apex | UK |
| 08 | 21 | Seed: tannin | UK |
| 08 | 23 | Flowering: beginning | UK |
| 08 | 24 | Flowering: full flowering | UK |
| 08 | 26 | Maturity: full maturity | UK |
| 08 | 27 | Maturity: dry seed | UK |
| 09 | | Test Guidelines for Runner Bean | |
| 09 | 02 | Stem: length | ZA |
| 09 | 02 | Stem: length | UK |
| 09 | 03 | Flower: shape | UK |
| 09 | 09 | Pod: twisting | UK |
| 09 | 16 | Pod: weight (average of 20 pods each from a different plant) | ZA |
| 12 | | Test Guidelines for French Bean | |
| 12 | 04 | Climbing beans only: plant: height | ZA |
| 12 | 10 | Leaflet: overlapping | UK |
| 12 | 16 | Climbing beans only: growing: start of climbing | ZA |
| 12 | 17 | Climbing beans only: growing: speed of climbing | ZA |
| 12 | 21 | Inflorescence: number of flowers | UK |
| 12 | 32 | Pod: breadth of stalks | ZA |
| 12 | 37 | Pod: location of constrictions | UK |
| 12 | 47 | Seed: shape of seed apex | UK |
| 12 | 49 | Seed: glossiness of surface | UK |
| 12 | 55 | Resistance to common bean mosaic and black root | UK |
| 13 | | Test Guidelines for Lettuce | |
| 13 | 02 | Seed cotyledons: size | UK |
| 13 | 02 | Seed cotyledons: size (fully developed) | ZA |
| 13 | 03 | Seed cotyledons: shape | UK |
| 13 | 04 | Seed cotyledons: color | ZA |
| 13 | 04 | Seed cotyledons: color | UK |
| 13 | 06 | Leaf base: shape (on seedling) | UK |
| 13 | 12 | Leaf blade: glossiness of the upper side (at 3 to 4 leaf stage) | UK |
| 13 | 19 | Leaf blade: incision of margin in basal part (at 3 to 4 leaf stage) | UK |
| 13 | 20 | Leaf blade: serration and sinuation of margin on basal part (at 3 to 4 leaf stage) | UK |

| Document Number | Characteristic Number | Test Guidelines/Characteristic | Country |
|-----------------|-----------------------|---|---------|
| 13 | 25 | Head: firmness | UK |
| 13 | 26 | Leaf: texture (at maturity) | UK |
| 13 | 35 | Leaf: surface profile | UK |
| 13 | 38 | Leaf: pose of tip | UK |
| 13 | 39 | Leaf: undulation of margin | UK |
| 13 | 40 | Leaf: incision of margin on apical part | UK |
| 13 | 41 | Leaf: serration or sinuation on apical part | UK |
| 13 | 42 | Leaf: incision of margin on basal part | UK |
| 13 | 43 | Leaf: serration and sinuation in basal part | UK |
| 13 | 44 | Leaf: venation | UK |
| 13 | 44 | Venation (at harvest maturity) | ZA |
| 13 | 45 | Plant: total height (flowering plant) | ZA |
| 13 | 47 | Stem: maximum width at base (flowering plant) | ZA |
| 19 | | Test Guidelines for Barley | |
| 19 | 38 | Grain: disposition of lodicules | DK |
| 19 | 40 | Reaction to DDT (the chemical is prohibited to be used) | DK |
| 20 | | Test Guidelines for Oats | |
| 20 | 21 | Primary grain: curvature of awn | DK |
| 20 | 30 | Primary grain: hairiness of rachilla | DK |
| 26 | | Test Guidelines for Chrysanthemum | |
| 26 | 07 | Stem: brittleness | UK |
| 26 | 08 | Lateral shoot: attachment to stem | UK |
| 26 | 16 | Leaf: thickness | UK |
| 26 | 17 | Leaf: texture | UK |
| 26 | 23 | Leaf margins of sinus between lateral lobes | UK |
| 26 | 24 | Leaf: shape of base | UK |
| 26 | 44 | Ray floret: thickness | UK |
| 44 | | Test Guidelines for Tomato | |
| 44 | 03 | Stem: type | UK |
| 44 | 04 | Stem: pubescence | ZA |
| 44 | 05 | Stem: number of leaves under the first inflorescence | ZA |
| 44 | 22 | Fruit: abscission layer | |
| 44 | 26 | Fruit: size of corky area around pedicel scar | UK |
| 44 | 29 | Fruit: size of core (in cross-section) | ZA |
| 44 | 30 | Fruit: thickness of pericarp | ZA |
| 44 | 38.2 | Glasshouse varieties, time of flowering | UK |
| 44 | 40 | Fruit: dry matter | UK |
| 45 | | Test Guidelines for Cauliflower | |
| 45 | 02 | Seedling: color of cotyledons | UK |
| 45 | 06 | Leaf: size | UK |
| 45 | 08 | Leaf: margin of base | UK |
| 45 | 09 | Leaf: wax | UK |
| 45 | 11 | Leaf: torsion of the tip | ZA |
| 45 | 12 | Leaf: profile of upper side of blade | UK |
| 45 | 14 | Leaf creasing | SE |
| 45 | 18 | Leaf: length of petiole | UK |
| 45 | 26 | Curd: texture | UK |
| 46 | | Test Guidelines for Onion | |
| 46 | 03 | Leaf: curvature | UK |
| 46 | 12 | Bulb: width of neck | UK |
| 46 | 13 | Bulb: thickness of skin | UK |
| 46 | 16 | Bulb: skin adherence | UK |
| 46 | 17 | Bulb: thickness of rings | UK |

| Document Number | Characteristic Number | Test Guidelines/Characteristic | Country |
|-----------------|-----------------------|--|---------|
| 46 | 18 | Bulb: firmness of flesh | UK |
| 46 | 20 | Bulb: position of root disc | UK |
| 46 | 25 | Bulb: dry matter content | UK |
| 46 | 27 | Bulb: male sterility | UK |
| 48 | | Test Guidelines for Cabbage | |
| 48 | 02 | Seedling: color of cotyledons | UK |
| 48 | 09 | Outer leaf: contour of upper side of blade | UK |
| 48 | 10 | Outer leaf: undulation of blade | UK |
| 48 | 20 | Outer leaf: mid rib | UK |
| 48 | 21 | Outer leaf: color of mid rib | UK |
| 48 | 29.1 | Head: diameter of internal stem | UK |
| 48 | 29.2 | Head: diameter of internal stem | UK |
| 48 | 29.3 | Head: diameter of internal stem | UK |
| 48 | 32 | Durability of the mature head in the field | UK |
| 49 | | Test Guidelines for Carrot | |
| 49 | 06 | Leaf: insertion on carrot | ZA |
| 49 | 15 | Carrot: intensity of anthocyanin coloration of skin of shoulder | ZA |
| 49 | 16 | Carrot: green color in skin of shoulder | ZA |
| 49 | 21 | Carrot: green coloration of the interior of the shoulder (in longitudinal section) | ZA |
| 49 | 25 | Content of carotin | ZA |
| 49 | 26 | Content of sugar | ZA |
| 54 | | Test Guidelines for Brussels Sprouts | |
| 54 | 02 | Seedling: color of cotyledons | UK |
| 54 | 14 | Petiole: length compared to blade | UK |
| 54 | 17 | Sprout: size | UK |
| 54 | 19 | Sprout: anthocyanin coloration | UK |
| 54 | 22 | Sprout: number on 25 cm of stem | UK |
| 54 | 23 | Sprout: diameter of core base | UK |
| 54 | 25 | Sprout column: pyramidal or cylindrical | UK |
| 60 | | Test Guidelines for Beetroot | |
| 60 | 06 | Leaf blade: shape | UK |
| 60 | 09 | Leaf blade: reflexing of margin | ZA |
| 60 | 09 | Leaf blade: reflexing of margin | UK |
| 60 | 10 | Leaf blade: glossiness | UK |
| 60 | 12 | Leaf blade: anthocyanin coloration of veins | UK |
| 60 | 13 | Leaf blade: basal lobes | UK |
| 60 | 14 | Leaf blade: main color before harvest | UK |
| 60 | 16 | Petiol: width of base | ZA |
| 60 | 16 | Petiole: width of base | UK |
| 60 | 27 | Root: fibrosity of flesh (after boiling) | ZA |
| 60 | 27 | Root: fibrosity of flesh after boiling | UK |
| 61 | | Test Guidelines for Cucumber, Gherkin | |
| 61 | 03 | Foliage: density | ZA |
| 61 | 07 | Leaf: blistering | ZA |
| 61 | 08 | Leaf: undulation of margin | ZA |
| 61 | 37 | Fruit: glossiness | ZA |
| 61 | 39 | Plant: number of side shoots (at the end of season) | ZA |
| 61 | 40 | Plant: length of side shoots (at the end of season) | ZA |

| Document Number | Charac- teristic Number | Test Guidelines/Characteristic | Country |
|-----------------|-------------------------------|--|---------|
| 63 | | Test Guidelines for Black Radish | |
| 63 | 01 | Ploidy | UK |
| 63 | 02 | Cotyledon: size | UK |
| 63 | 03 | Cotyledon: color | UK |
| 63 | 04 | Foliage: number of fully developed leaves | UK |
| 63 | 07 | Leaf blade: shape | UK |
| 64 | | Test Guidelines for Radish | |
| 64 | 01 | Ploidy | UK |
| 64 | 03 | Cotyledon: size | UK |
| 64 | 04 | Foliage: attachment | UK |
| 64 | 07 | Leaf blade: shape | UK |
| 64 | 08 | Leaf blade: shape of apex | UK |
| 64 | 19 | Radish: thickness -(Note: mis-translation?) | UK |
| 64 | 20 | Radish: width of root | UK |
| 64 | 22 | Radish: shape of crown | UK |
| 64 | 28 | Radish: thickness of cortex | UK |
| 74 | | Test Guidelines for Celeriac | |
| 74 | 13 | Tuber: protrusion | UK |
| 74 | 15 | Tuber: intensity of main color of skin | UK |
| 74 | 18 | Tuber: amount of roots | UK |
| 74 | 21 | Tuber: discoloration of flesh after cooking | UK |
| 74 | 22 | Tuber: intensity of discoloration of flesh after cooking | UK |
| 76 | | Test Guidelines for Sweet Pepper | |
| 76 | 11 | Leaf: blistering | ZA |
| 76 | 12 | Petiole: length | ZA |

[Annex III follows]

MINISTÈRE DE L'AGRICULTURE

ANNEX III

BRUXELLES, le
Rue de Stassart, 36

31-07-1981



ADMINISTRATION

de

L'AGRICULTURE et de L'HORTICULTURE

SERVICE DE LA PROTECTION
DES OBTENTIONS VÉGÉTALES

| | |
|------|---------------|
| UPOV | - 4 AOÛT 1981 |
| | 1385-081 |

Dr. H. Mast

Secrétaire général adjoint de l'UPOV

34, Chemin des Colombettes

CH - 1211 Genève 20

SUISSE

VOTRE LETTRE DU

VOS RÉFÉRENCES

NOS RÉFÉRENCES

ANNEXES

RR/106.92.61/444

1

OBJET: Principes directeurs d'examen DHS.

Monsieur le Secrétaire général adjoint,

Comme suite à votre circulaire n° U 632 du 12.06.1981, j'ai l'honneur de vous faire parvenir ci-jointe une liste ^{08.1} des principaux caractères utilisés par le service national belge chargé des essais pour le catalogue national des variétés des espèces agricoles; ces caractères sont observés en plus des principes directeurs d'examen de l'UPOV.

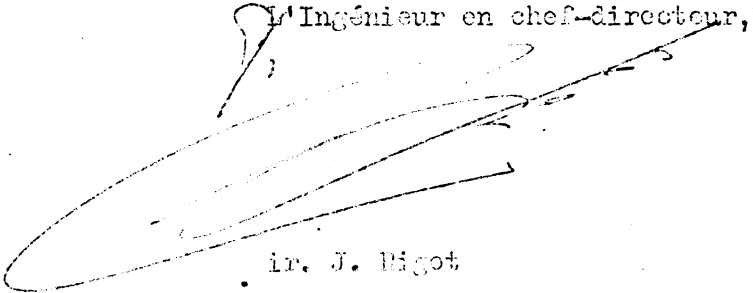
Ces renseignements concernent les espèces suivantes: maïs, blé, orge, avoine, pomme de terre, vesce commune, colza, lin et seigle.

Veuillez agréer, Monsieur le Secrétaire général adjoint, l'expression de mes sentiments distingués.

Au Nom du Ministre :

Pour le Directeur général ;

L'Ingénieur en chef-directeur,

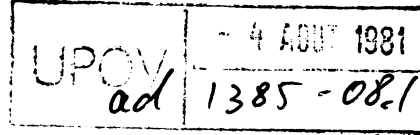

 Ir. J. Bigot

0060

Belgique

Circulaire N° U632 du 12.06.1981.
08.1

Form. 1



N° du document : TG/2/4 du 12.11.1980

Espèce : Zea mays L.

Caractères

Stades d'expression

| | 1 | 3 | 5 | 7 | 9 |
|---|--------------|----------|---------|----------|--------------|
| Feuille : nombre : | | | | | |
| Largeur de la feuille de l'épi supérieure : | très étroite | étroite | moyenne | large | tr. large |
| Epi : nombre d'épis fertiles : | | | | | |
| longueur des spathes/épi : | bcp + crt | + courte | égale | + longue | bcp + longue |
| couverture de l'épi (mat. compl.): | tr. fermé | fermé | moyen | ouvert | tr. ouvert |

Belgique

Circulaire N° U632 du 12.06.1981.
-08.1

Form. 1

N° du document : TG/3/5 du 19.11.1976

Espèce : Triticum aestivum L.

CaractèresStades d'expression

| | <u>Stades d'expression</u> | | | | |
|---------------------------------------|----------------------------|--------|-----|---------|------|
| | 1 | 3 | 5 | 7 | 9 |
| Couleur du feuillage : fin tallage | : vj. | | vm. | | vF |
| avant épiaison | : vj. | | vm. | | vF |
| Pilosité gaine dernière feuille (CEE) | : 0 | f. | m. | F | tF |
| Port de l'épi : après épiaison | : dr. | 1/2dr. | i. | 1/2ret. | ret. |
| à maturité | : dr. | 1/2dr. | i. | 1/2ret. | ret. |
| Epillet terminal | | | | | |
| forme rachis (cannelure) | : nc. | - | - | - | ca |
| glume inf - bec + marqué | : pm. | - | - | - | m. |
| - forme | : m. | - | pe | e | f |
| Epillet 1/3M. | | | | | |
| carène + marquée | : e | - | - | - | m |
| + infléchie | : d | - | - | - | in. |
| Longueur du col de l'épi | : tc | c | m | L | TL |

Belgique

Circulaire N° U632 du 12.06.1981.
-08.1

Form. 1

N° du document : TG/19/4 corr. du 01.09.1978

Espèce : Hordeum vulgare L.

| Caractères | Stades d'expression | | | | |
|--------------------------------------|---------------------|---|---|---|---|
| | 1 | 3 | 5 | 7 | 9 |
| Couleur du feuillage | : | | | | |
| Gaines basales (4e-5e) anthocyane | : | | | | |
| Dernière feuille | | | | | |
| longueur | : | | | | |
| largeur | : | | | | |
| Col de l'épi | | | | | |
| glauescence | : | | | | |
| longueur | : | | | | |
| fréquence déformation | : | | | | |
| Précocité de maturité | : | | | | |
| Epi : port à maturité (CEE) | : | | | | |
| Barbes : denticulation nervure méd. | : | | | | |
| Rachis : 1er article : pilosité lat. | : | | | | |
| Collerette : inclinai on | : | | | | |
| Couleur grain vêtu | : | | | | |
| Epillet stérile | : | | | | |
| glumelle sup.:long/glle inf. | : | | | | |
| glume : long/glle inf. | : | | | | |

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Annex III, page 5

Belgique

Circulaire N° U632 du 12.06.1981.
08.1

Form. 1

N° du document : TG/20/4 du 19.11.1976

Espèce : Avena sativa L. et Avena nuda L.

| Caractères | Stades d'expression | | | | | |
|---|---------------------|-----|----------|-------------------------------|----|------|
| | 1 | 3 | 5 | 7 | 9 | |
| Ciliation des bords des limbes 1ère et 2ème feuilles | : | 0 | <u>+</u> | + | ++ | +++ |
| Couleur du feuillage au tallage | : | C | - | m | - | F |
| Enroulement des pointes des feuilles (redressement) | : | N | - | P | - | I |
| Glaucescence | | | | | | |
| limbe | : | Otf | f | m | D | TF |
| gaine | : | Otf | f | m | D | TF |
| tige | : | Otf | f | m | D | TF |
| Panicule longueur | : | c | - | m | - | L |
| Talon - <u>+</u> marqué | : | n | - | - | - | M |
| Cicatrice - <u>+</u> oblique | : | Dt | - | - | - | Obl. |
| Scutellum | : | U | - | - | - | V |
| Précocité de maturité | : | TP | P | $\frac{1}{2}P$ $\frac{1}{2}T$ | T | tT |

Belgique

Circulaire N° U632 du 12.06.1981.
08.1

Form. 1

N° du document : TG/23/2 du 16.09.1974

Espèce : Solanum tuberosum L.

CaractèresStades d'expression

| | 1 | 3 | 5 | 7 | 9 |
|---|---|---|---|---|---|
| Germe : longueur après 30 jours (mm) : | | | | | |
| 60 jours (mm) : | | | | | |
| 90 jours (mm) : | | | | | |
| Tige : ailes : | | | | | |
| nombre (en valeur absolue) : | | | | | |
| Feuille composée : | | | | | |
| (feuille du 4ème noeud au-dessus du sol, au début de la floraison) | | | | | |
| port : | | | | | |
| | | | | | |
| Folioles | | | | | |
| forme : | | | | | |
| surface : | | | | | |
| | | | | | |
| nervures : | | | | | |
| pétioles : | | | | | |
| couleur : | | | | | |
| | | | | | |
| Foliolules | | | | | |
| nombre : | | | | | |
| dimensions : | | | | | |
| Tubercule : grosseur (1-9) : | | | | | |
| (à la recolte) : | | | | | |

Belgique

Circulaire N° U632 du 12.06.1981.
08.1

Form. 1

N° du document : TG/32/3 du 19.11.1976

Espèce : *Vicia sativa* L.

Caractères

Stades d'expression

1

3

5

7

9

Plantules :

dimensions des folioles :

primaires: largeur (mm) :

longueur (mm) :

Folioles :

dimensions : largeur (mm) :

longueur (mm) :

Gousse :

forme :

0066

Belgique

Circulaire N° U632 du 12.06.1981.
-08.1

Form. 1

N° du document : TG/36/3 du 01.09.1978

Espèce : Brassica napus L.

Caractères

Stades d'expression

1

3

5

7

9

Tige : ramification, importance (1-9):

Alternativité (semés au printemps) :

rapidité de croissance (1-9) :

maturation (1-9) :

rendement graines (kg/ha) :

Belgique

Circulaire N° U632 du 12.06.1981.
08.1

Form. 1

N° du document : TG/58/3 du 15.11.1978

Espèce : Secale cereale L.

Caractères

| | Stades d'expression | | | | |
|---|---------------------------|---------------------------------|----------------------|---------------------|-------|
| | 1 | 3 | 5 | 7 | 9 |
| Plante, port à la montaison | : dressé | $\frac{1}{2}$ dressé | moy. | $\frac{1}{2}$ étalé | étalé |
| Couleur du noeud supérieur | : faible | - | moy. | - | Fort |
| Pilosité de la gaine de la dernière feuille | : Otf | f | m. | F | tF |
| Coloration des anthères | : f | - | m. | - | F |
| Forme de l'épi (fin floraison) | : ovale | pyramidale | linéaire | en massue | droit |
| Couleur de l'épi (laiteux) | : blanc-jaune-saumon-brun | | | courbé | |
| Anthocyane sur les épillets (1-9) | : | | | | |
| Anthocyane sur les barbes (1-9) | : | | | | |
| Couleur du grain | : brun - vert gris | brunâtre - vert gris | jaunâtre - vert gris | gris | |
| Forme du grain | | | | | |
| longueur (1-9) | : | | | | |
| largeur (1-9) | : | | | | |
| dimensions (1-9) | : | | | | |
| surface | : | lisse, moyennement ridée, ridée | | | |

[Annex IV follows]

PLANTENYHEDSNÆVNET

TC/XVII/3

Teglværksvej 10 - Tystofte

ANNEX IV

27. 8. 1981

DK-4230 Skælskør

PN/81 - 377

Telefon (03) 59 61 41

UPOV
34, Chemin des Colombettes
1211 Geneve 20
Schweiz

Re: List of characteristics used by Denmark which are not included in the UPOV Test Guidelines.

- Your letter no. U 632-o8.1 of June 12, 1981

With reference to the above mentioned letter we send you enclosed lists (form 1) stating the wanted characteristics for:

wheat, barley, oats, ryegrass, red clover, lucerne, cocksfoot, kentucky bluegrass, timothy, white clover, meadow fescue and red fescue.

Form 2 - characteristics are stated for barley and oats.

As far as UPOV Test Guidelines for fruit crops are concerned we can inform you that no characteristics are used beside those mentioned in the Guidelines. Because of the low number of fruit crop applications it is not possible at the time being to make a list of characteristics considered superfluous.

There are no amendments to the draft guidelines TG/10/2 and TG/24/3 for Euphorbia fulgens and Euphorbia pulcherrima.

We have been informed that we will later on receive lists with characteristics for rape and vegetables. As soon as we receive the lists we will forward them to you.

Yours sincerely

p. n. v.

Lars Hendriksen
Lars Hendriksen

Encl

LIST OF CHARACTERISTICS USED IN ADDITION TO THE CHARACTERISTICS MENTIONED IN THE UPOV TEST GUIDELINES

LISTE DES CARACTERES UTILISES EN PLUS DE CEUX QUI FIGURENT DANS LES PRINCIPES DIRECTEURS D'EXAMEN DE L'UPOV

LISTE DER MERKMALE, DIE ZUSÄTZLICH ZU DEN IN DEN UPOV-PRÜFUNGSRICHTLINIEN GENANN- TEN MERKMALEN VERWENDET WERDEN

COUNTRY/PAYS/LAND: DENMARK

| Species or document number | Characteristics | States of expression | Example Varieties | |
|------------------------------|--------------------------------------|----------------------|---------------------------------|------|
| Espèce ou numéro du document | Caractères | Stades d'expression | Exemples | Note |
| Art oder Dokumentennummer | Merkmale | Ausprägungsstufen | Beispielssorten | |
| <u>WHEAT:</u> (TG/3/5) | Culm: Anthocyanin coloration of neck | 1, 3, 5, 7, 9 | (Required in the EEC-Directive) | |
| " | Flag leaf: hairiness of sheath | 1, 3, 5, 7, 9 | (Required in the EEC-Directive) | |
| " | Resistance to Erysiphe graminis | | | |
| <u>BARLEY:</u> (TG/19/4) | Resistance to Erysiphe graminis | | | |
| | Resistance to Heterodera avenae | | | |
| <u>OATS:</u> (TG/20/4) | Resistance to Erysiphe graminis | | | |
| | Resistance to Heterodera avenae | | | |

Form 2

LIST OF CHARACTERISTICS OF THE UPOV TEST GUIDELINES CONSIDERED SUPERFLUOUS BECAUSE OF BEING ONLY OF LITTLE USE OR TOO MUCH FLUCTUATING

LISTE DES CARACTERES DES PRINCIPES DIRECTEURS D'EXAMEN DE L'UPOV JUGES SUPERFLUS PARCE QUE PEU UTILES OU TROP FLUCTUANTS

LISTE DER MERKMALE DER UPOV-PRÜFUNGSRICHTLINIEN, DIE ALS ÜBERFLÜSSIG ERACHTET WERDEN, DA SIE NUR BEDINGT VERWENDBAR SIND ODER ZU STARK VARIIEREN

COUNTRY/PAYS/LAND: DENMARK

| Species or document number | Number of Characteristic | Characteristic |
|------------------------------|--------------------------|--|
| Espèce ou numéro du document | Numéro du Caractère | Caractère |
| Art oder Dokumentennummer | Nummer des Merkmals | Merkmal |
| <u>BARLEY:</u> | | |
| (TG/19/4) | 38 | Grain: disposition of lodicules |
| " | 40 | Reaction to DDT (the chemical is prohibited to be used) |

| | | |
|--------------|----|--------------------------------------|
| <u>OATS:</u> | | |
| (TG/20/4) | 21 | Primary grain: curvature of awn |
| " | 30 | Primary grain: hairiness of rachilla |

LIST OF CHARACTERISTICS USED IN ADDITION TO THE CHARACTERISTICS MENTIONED IN THE UPOV TEST GUIDELINES

LISTE DES CARACTERES UTILISES EN PLUS DE CEUX QUI FIGURENT DANS LES PRINCIPES DIRECTEURS D'EXAMEN DE L'UPOV

LISTE DER MERKMALE, DIE ZUSÄTZLICH ZU DEN IN DEN UPOV-PRÜFUNGSRICHTLINIEN GENANN- TEN MERKMALEN VERWENDET WERDEN

COUNTRY/PAYS/LAND: DENMARK

| Species or document number | Characteristics | States of expression | Example Varieties | |
|------------------------------|-----------------|----------------------|-------------------|------|
| Espèce ou numéro du document | Caractères | Stades d'expression | Exemples | Note |
| Art oder Dokumentennummer | Merkmale | Ausprägungsstufen | Beispielsorten | |

RYEGRASS:

| | | | | |
|----------|--|---------------|--|--|
| (TG/4/4) | Earliness of spring growth | 1, 3, 5, 7, 9 | | |
| " | Uppermost internode: Length (time:when fully expanded) | 1, 3, 5, 7, 9 | | |

RED CLOVER:

| | | | | |
|----------|----------------------------|---------------|--|--|
| (TG/5/1) | Earliness of spring growth | 1, 3, 5, 7, 9 | | |
| " | Leaf: Color | 1, 3, 5, 7, 9 | | |
| " | Stem: Number of nodes | 1, 3, 5, 7, 9 | | |
| " | Stem: Thickness | 1, 3, 5, 7, 9 | | |
| " | Stem: Hair | 1, 5, 9 | | |

LIST OF CHARACTERISTICS USED IN ADDITION TO THE CHARACTERISTICS MENTIONED IN THE UPOV TEST GUIDELINES

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LISTE DER MERKMALE, DIE ZUSÄTZLICH ZU DEN IN DEN UPOV-PRÜFUNGSRICHTLINIEN GENANN- TEN MERKMALEN VERWENDET WERDEN

COUNTRY/PAYS/LAND: DENMARK

| Species or document number | Characteristics | States of expression | Example Varieties | |
|------------------------------|-----------------|----------------------|-------------------|------|
| Espèce ou numéro du document | Caractères | Stades d'expression | Exemples | Note |
| Art oder Dokumentennummer | Merkmale | Ausprägungsstufen | Beispielssorten | |

LUCERNE:

| | | | | |
|----------|----------------------------|---------------|--|--|
| (TG/6/1) | Earliness of spring growth | 1, 3, 5, 7, 9 | | |
| " | Leaf: Color | 1, 3, 5, 7, 9 | | |

COCKSFOOT:

| | | | | |
|-----------|---|---------------|--|---------------------------------|
| (TG/31/3) | Earliness of spring growth | 1, 3, 5, 7, 9 | | |
| " | Inflorescence: Length (time: when fully expanded) | 1, 3, 5, 7, 9 | | |
| " | Leaf: Color | 1, 3, 5, 7, 9 | | (Required in the EEC-Directive) |

KENTUCKY BLUEGRASS:

| | | | | |
|-----------|--|---------------|--|---------------------------------|
| (TG/33/3) | Earliness of spring growth | 1, 3, 5, 7, 9 | | |
| " | Leaf: Color | 1, 3, 5, 7, 9 | | |
| " | Growth habit: (time: at inflorescence emergence) | 1, 3, 5, 7, 9 | | (Required in the EEC-Directive) |

LIST OF CHARACTERISTICS USED IN ADDITION TO THE CHARACTERISTICS MENTIONED IN THE UPOV TEST GUIDELINES

LISTE DES CARACTERES UTILISES EN PLUS DE CEUX QUI FIGURENT DANS LES PRINCIPES DIRECTEURS D'EXAMEN DE L'UPOV

LISTE DER MERKMALE, DIE ZUSÄTZLICH ZU DEN IN DEN UPOV-PRÜFUNGSRICHTLINIEN GENANN- TEN MERKMALEN VERWENDET WERDEN

COUNTRY/PAYS/LAND: DENMARK

| Species or document number | Characteristics | States of expression | Example Varieties | |
|------------------------------|-----------------|----------------------|-------------------|------|
| Espèce ou numéro du document | Caractères | Stades d'expression | Exemples | Note |
| Art oder Dokumentennummer | Merkmale | Ausprägungsstufen | Beispielssorten | |

TIMOTHY:

| | | | | |
|-----------|---|---------------|--|--|
| (TG/34/3) | Earliness of spring growth | 1, 3, 5, 7, 9 | | |
| " | Inflorescence: Length (time: when fully expanded) | 1, 3, 5, 7, 9 | | |

WHITE CLOVER:

| | | | | |
|-----------|----------------------------|---------------|--|--|
| (TG/38/3) | Earliness of spring growth | 1, 3, 5, 7, 9 | | |
| " | Leaf: Color | 1, 3, 5, 7, 9 | | |
| " | Leaf: Shape | 3, 5, 7 | | |
| " | Leaf: Anthocyanin marks | 1, 9 | | |

MEADOW FESCUE:

| | | | | |
|-----------|---|---------------|--|--|
| (TG/39/3) | Earliness of spring growth | 1, 3, 5, 7, 9 | | |
| " | Inflorescence: Length (time: when fully expanded) | 1, 3, 5, 7, 9 | | |
| " | Leaf: Color (time: before heading) | 1, 3, 5, 7, 9 | | |

Form 1

LIST OF CHARACTERISTICS USED IN ADDITION TO THE CHARACTERISTICS MENTIONED IN THE UPOV TEST GUIDELINES

LISTE DES CARACTÈRES UTILISÉS EN PLUS DE CEUX QUI FIGURENT DANS LES PRINCIPES DIRECTEURS D'EXAMEN DE L'UPOV

LISTE DER MERKMALE, DIE ZUSÄTZLICH ZU DEN IN DEN UPOV-PRÜFUNGSRICHTLINIEN GENANN- TEN MERKMALEN VERWENDET WERDEN

COUNTRY/PAYS/LAND: DENMARK

| Species or document number | Characteristics | States of expression | Example Varieties | |
|------------------------------|-----------------|----------------------|-------------------|------|
| Espèce ou numéro du document | Caractères | Stades d'expression | Exemples | Note |
| Art oder Dokumentennummer | Merkmale | Ausprägungsstufen | Beispielssorten | |

RED FESCUE:

| | | | | |
|-----------|---|---------------|--|--|
| (TG/67/4) | Earliness of spring growth | 1, 3, 5, 7, 9 | | |
| " | Upper internode: Length (time: when fully expanded) | 1, 3, 5, 7, 9 | | |
| " | Rhizomes: Length | 1, 3, 5, 7, 9 | | |
| " | Inflorescence: Color (time: at flowering) | 1, 3, 5, 7, 9 | | |

0076

PLANTENYHEDSNÆVNET

Teglværksvej 10 - Tystofte

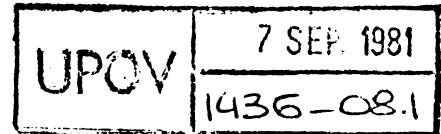
DK-4230 Skælskør

Telefon (03) 596141

TC/XVII/3
Annex IV, page 8

2. September 1981

PN/81 - 401



UPOV

34, Chemin des Colombettes

1211 Geneve 20

Schweiz

Re: List of characteristics used by Denmark, which are not included in the UPOV Test Guidelines

With reference to our letter PN/81 - 377 of 27. August 1981 we send you lists of characteristics used in addition to the characteristics mentioned in the UPOV Test Guidelines TG/36/3 (oilseed rape) and TG/7/2 (pea).

Yours sincerely,

p. n. v.

Lars Hendriksen
Lars Hendriksen

Encl

7 SEP 1981

ad.

J436-08.1

Form 1

LIST OF CHARACTERISTICS USED IN ADDITION TO THE CHARACTERISTICS MENTIONED IN THE UPOV TEST GUIDELINES

LISTE DES CARACTERES UTILISES EN PLUS DE CEUX QUI FIGURENT DANS LES PRINCIPES DIRECTEURS D'EXAMEN DE L'UPOV

LISTE DER MERKMALE, DIE ZUSÄTZLICH ZU DEN IN DEN UPOV-PRÜFUNGSRICHTLINIEN GENANN- TEN MERKMALEN VERWENDET WERDEN

COUNTRY/PAYS/LAND: Denmark

| Species or document number | Characteristics | States of expression | Example Varieties | |
|------------------------------|-----------------|----------------------|-------------------|------|
| Espèce ou numéro du document | Caractères | Stades d'expression | Exemples | Note |
| Art oder Dokumentennummer | Merkmale | Ausprägungsstufen | Beispielssorten | |

TG/7/2 Pea

| | | | |
|---------------------------------|-----|-------------------|--------|
| 1) Height to 1st fertile node | 1-9 | Finale Stim | 3 7 |
| 2) Clusters with pods | 1-9 | Bodil Gali | 3 7 |
| 3) Size and shape of scale leaf | 1-9 | Flavanda Livia | 3 7 |

In 1978-80 it has been possible to distinguish () % of all variety combinations with 95-99 % certainty:
1: 48-69, 2: 53-63, 3: 54-69.

TG/32/3 Fodder vetch

By testing fodder vetch the guidelines have been followed.

ad

J436-081

Form 1

LIST OF CHARACTERISTICS USED IN ADDITION TO THE CHARACTERISTICS MENTIONED IN THE UPOV TEST GUIDELINES

LISTE DES CARACTERES UTILISES EN PLUS DE CEUX QUI FIGURENT DANS LES PRINCIPES DIRECTEURS D'EXAMEN DE L'UPOV

LISTE DER MERKMALE, DIE ZUSÄTZLICH ZU DEN IN DEN UPOV-PRÜFUNGSRICHTLINIEN GENANN- TEN MERKMALEN VERWENDET WERDEN

COUNTRY/PAYS/LAND: **Denmark**

| Species or document number | Characteristics | States of expression | Example Varieties | |
|------------------------------|-----------------|----------------------|-------------------|------|
| Espèce ou numéro du document | Caractères | Stades d'expression | Exemples | Note |
| Art oder Dokumentennummer | Merkmale | Ausprägungsstufen | Beispielssorten | |

TG/36/3 Oilseed rape

| | | | |
|---|-----|---------------|--------|
| 1)Height to 1st branching with siliques | 1-9 | Karat Line | 4 6 |
| 2)Nodes to 1st branching | 1-9 | Lergo Christa | 4 6 |
| 3)Siliques in upper cluster | 1-9 | Pura Brutor | 3 7 |
| 4)Length of siliques | 1-9 | Karat Line | 4 6 |
| 5)Length of petal | 1-9 | Brutor Line | 4 7 |
| 6)Width of petal | 1-9 | Brutor Line | 3 7 |
| 7)Length of leaves | 1-9 | Lergo Christa | 3 6 |
| 8)Width of leaves | 1-9 | Karat Christa | 4 6 |

In 1978-80 it has been possible to distinguish () % of all variety combinations with 95-99 % certainty:
1: 23-48, 2: 23-46, 3: 32-60, 4: 28-64, 5: 32-55, 6: 38-63, 7: 28-63, 8: 25-69.

TG/37/3 Turnip

No supplementary information.

TG/57/3 Flax

No supplementary information.

TG/66/3 Lupine

No supplementary information.

GRUPE D'ÉTUDE ET DE CONTRÔLE
DES VARIÉTÉS ET DES SEMENCES

ANNEX V

RÉPUBLIQUE FRANÇAISE
MINISTÈRE DE L'AGRICULTURE

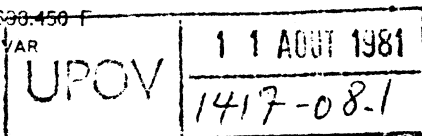
INRA - GEVES

G. L. S. M. - LA MINIÈRE
78280 GUYANCOURT - FRANCE

Tél. : 043.81-13

C. C. P. Paris 9062-33

Télex : INRAMIN 630.450 F
préciser GEVES-VAR



Références à rappeler :

JG, FA

LA MINIÈRE - G. E. V. E. S. 25.495



INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE

Monsieur MAST

Secrétaire Général Adjoint

U P O V

34, chemin des Colombettes

1211 GENEVE 20

(SUISSE)

V/Réf. :

La Minière, le 7 août 1981

Objet :

Monsieur,

En réponse à votre lettre circulaire N° U 632 du 12 juin dernier, vous trouverez ci-joint les documents français relatifs aux espèces de grande culture.

Je vous prie de bien vouloir nous excuser de ne pas avoir effectué les transcriptions conformément au modèle proposé mais je pense que les annotations manuscrites vous permettront d'avoir aisément la correspondance.

L'absence de documents pour certaines espèces est motivée de la manière suivante :

- TG 4/4 Ray-grass

les études DHS sont réalisées par le Royaume-Uni.

TG 5/1 Trèfle violet, TG 30/3 Agrostis, TG 31/3 Dactyle, TG 32/3 Vesce, TG 34/3 Fléole, TG 36/3 Colza, TG 38/3 Trèfle blanc, TG 39/3 Fétuque des prés et Fétuque élevée, TG 67/4 Fétuque ovine et Fétuque rouge, TG 16/1 Riz.

les études DHS sont réalisées conformément aux "Guidelines" correspondants.

TG 23/2 Pomme de terre et TG 33/3 Paturins des prés.

les études DHS sont réalisées par les Pays-Bas.

TG 58/3 Seigle

les études DHS sont réalisées par l'Allemagne fédérale.

./.

- TG 66/3 Lupins.

Espèce non encore étudiée en France.


- TG 6/1 Luzerne.

les études DHS sont réalisées conformément aux "Guidelines" mais en tenant compte des caractères de Résistance au Verticillium et aux Nématodes.

- TG 3/1 Blé dur.

La situation est à peu de chose près la même que pour le blé tendre (TG 3/6)

Je vous prie d'agréer, Monsieur, l'expression de mes sentiments distingués.

 p^r Y. BOUCHET

Copie à Miss RASMUSSEN
MM. HUTIN, SIMON

| n° M.P.V. | Stade | Caractères observés | Type | Niveau d'expression | | | | | Observations | |
|--------------------|---|---------------------------------------|------|----------------------|---|------------------------------|-------------------------------------|-------------|---------------------------|---|
| | | | | 1 | 2 | 3 | 5 | 7 | | |
| 2 3 5 1 | Caractères plantule en serre - Stade 3-4 feuilles | Longueur 1ère feuille | q | très courte | - | courte | moyenne | longue | très longue | Voir schéma |
| | | Longueur 2ème feuille | q | très étroite | - | étroite | moyenne | large | très large | |
| | | Forme extrém. 1ère feuille | q | pointue | - | spatulée | arrondie | - | - | |
| | | Pig. anth. gaine 1ère feuil. | q | nulle (verte) | - | faible | moyenne (rouge) | forte | très forte (violet foncé) | |
| | | Pig. anth. bordure limbe 1ère feuille | q | absente | - | - | - | - | présente | |
| 4 | Stade 4 feuilles | Hauteur du départ | q | faible | - | assez faible | moyenne | assez forte | forte | |
| 8 12 13 9 | Floraison mâle | Précocité floraison mâle | q | très précoce | - | précoce | moyenne | tardive | très tardive | Observation au tiers moyen du mature brin de la panicule le jour de la floraison. |
| | | Pig. anth. corps de glume | q | nulle ou très faible | - | faible | moyenne | forte | très forte | |
| | | Pig. anth. pointe de glume | q | nulle | - | faible | moyenne | forte | très forte | |
| | | Pig. anth. bourrelet de glume | q | absent | - | faible (bourrelet incomplet) | moyenne (rouge) | forte | très forte (violet foncé) | |
| | | Pig. anth. des anthères | q | nulle ou très faible | - | faible | (bourrelet complet) moyenne (rouge) | forte | très forte (violet foncé) | |

| | | | 1 | 2 | 3 | 5 | 7 | 9 | | |
|----|-------------------|---|---|----------------------|-------|----------------|--------------------------|-----------------|-----------------------|---|
| 10 | floraison femelle | Précocité floraison femelle | Q | très précoce | - | précoce | moyenne | tardive | très tardive | |
| 11 | | Diagramme des soies | q | nulle (verte) | crues | faible (rose) | moyenne (rouge) | forte (pourpre) | - | soies nettes 3 à 4 mm de longueur |
| 16 | floraison à 50 % | Fig. anth. de la gaine | q | nulle ou très faible | - | faible | moyenne | forte | très forte | Au niveau du 3° ou 4° nœud |
| | | Pilosité de la gaine | q | nulle ou très faible | - | faible | moyenne | forte | très forte | } Observations sur les feuilles au-dessus de l'épi le plus haut |
| 17 | | Ciliation du bord de la gaine | q | nulle ou très faible | - | faible | moyenne | forte | très forte | |
| 6 | Pleine floraison | Port du limbe | q | dressé | - | demi-dressé | horizontal | retombant | très retombant | Observation du feuillage au 1/3 moyen de la plante |
| | | Fig. anth. de la bordure du limbe | q | nulle | - | très faible | faible | forte | - | Observation sur la feuille au-dessus de l'épi le plus haut |
| | | Stérilité mâle | q | absente | - | - | - | - | présente | Présence si 100 % des plantes |
| 21 | Après floraison | Longueur du brin maître de la panicule | q | très court | - | court | moyen | long | très long | Brin maître : partie couverte d'épillets |
| | | Compacité du brin maître | q | très lâche | - | - | 1/2 lâche 1/2 compact | - | très compact | Lâche : le rachis apparaît |
| 20 | | Nombre de ramifications primaires | q | très faible 0 à 3 | - | faible < 10 | moyen < 15 | élevé < 20 | très élevé + de 20 | |
| | | Ramifications secondaires et tertiaires | q | absentes | - | - | - | - | présentes | |
| 19 | | Port des ramifications primaires | q | dressé | - | demi-dressé | horizontal | retombant | très retombant | Voir schéma |

FC/XVII/3
Annex V, page 4

| | | | 1 | 2 | 3 | 5 | 7 | 9 | | |
|----------------------|---|---|--|------------------------------|------------------------------------|---------------------------|---------------------------|-----------------------|---------------------------------|--|
| 15 14 | 2 semaines après floraison à 50 % | Fig. anth. des racines d'ancrage | q | nulle ou très fai- ble | - | faible | moyenne (rouge) | forte | très for- te (vio- lette) | } au niveau de l'épi le plus haut |
| | | Fig. anth. de la tige | q | nulle ou très fai- ble | - | faible | moyenne (rouge) | forte | très for- te (vio- lette) | |
| | | Fig. anth. des noeuds | q | nulle ou très fai- ble | - | faible | moyenne (rouge) | forte | très for- te (vio- lette) | |
| 23 24 | 3 semaines après floraison à 50 % | Nombre total de feuilles | Q | très faible | - | faible | moyen | élevé | très élevée | } Observation sur la feuille au dessus de l'épi le |
| | | | Lignées | < 13 | | 13-14 | 15-16 | 17-18 | 19 et + | |
| | | | Hyb. sim. | < 15 | | 15-16 | 17-18 | 19-20 | 21 et + | |
| | | Nombre de feuilles au- dessus de l'épi le plus haut | Q | très faible | - | faible | moyen | élevé | très élevé | |
| | | Hauteur totale de la tige | Q | très courte | - | courte | moyenne | longue | très longue | |
| 24 | | Hauteur d'insertion de l'épi le plus haut | Q | très basse | - | basse | moyenne | haute | très haute | |
| | | Largeur du limbe | q | très étroit | - | étroit | moyen | large | très large | |
| 25 | Maturité | Longueur du pédoncule de l'épi | q | très court (sessile) | - | court # 1/2 | moyen # 1 | long # 1,5 | très long # 2 | } voir schéma Observations sur l'épi le plus haut |
| Longueur des spathes | | q | très courtes (grains vi- sibles) | - | courtes (ouvrant les grains) | moyennes | longues | très longues | | |
| Forme de l'épi | | q | cylindri- que | cylyndro- conique | - | conique | - | - | - | |
| Nombre de rangs | | Q | très faible < 10 | - | faible 10 à 12 rangs | moyen 12 à 14 rangs | élevé 14 à 16 rangs | très > 16 rangs | | |

| | | | 1 | 2 | 3 | 5 | 7 | 9 | | |
|----|----------|--|---|-------------------|-----------|-------------|--------|-------|--------------------------|---|
| 30 | Maturité | type de grain | q | corné | - | corné-denté | denté | - | - | Observations au tiers moyen de l'épi le plus haut |
| 31 | | Coloration du sommet des grains | q | blanc | jaunâtre | jaune | orange | rouge | noir bleu | |
| 32 | | Coloration du flanc dorsal des grains. | q | blanc | jaunâtre | jaune | orange | rouge | noir bleu | |
| | | Forme du grain | q | rond | réniforme | cunéiforme | - | - | - | |
| 26 | | Longueur de l'épi | q | très court | - | court | moyen | long | très long | |
| 33 | | Fig. anth. externe de la rafle | q | absente (blanche) | - | - | - | - | présente (rose ou rouge) | |

Caractères particuliers : Prolificité

Tallage , ...

plus éventuellement

Pilosité de la gaine

Nombre de feuilles au-dessus de l'épi le plus haut

Stérilité mâle.

La Minière, le 6/11/79

Ne sont pas notés les caractères suivants du TG 2/4 : 7 - 18 - 22 - 34
 Les caractères 4 et 27 sont observés conformément à l'échelle indiquée dans le TG 2/4.

1905 Tc 3/6

CARACTERES VEGETATIFS

3 1.6.0

0086

ESPECE: BLE TENDRE VARIETE: ANNEE: LIEU:

OBSERVATEUR: N° de l'ANNEE d'ETUDE: PAYS d'ORIGINE:

UPOV

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | OBSERVATIONS | | | | | |
|-------|--|---|---|---|---|--|---|---|---|----|--|----|----|----|----|--------------------------------|----|----|----|----|---------------------------------------|--|--|--|--|--|
| LEVÉE | | | | | | TALLAGE | | | | | MONTEE | | | | | EPIAISON | | | | | FLORAISON | | | | | |
| 1 | Coloration anthocyanique - en milieu lumineux - forte | | | | | Coloration du feuillage - coloration dominante | | | | | Oreillettes - pigmentation anthocyanique | | | | | Dernière feuille moucheture | | | | | Anthères - pigmentation anthocyanique | | | | | |
| 2 | Pilosité - en gaines de la dernière feuille - pilosité | | | | | Coloration du feuillage - coloration secondaire (éventuellement) | | | | | Dernière feuille moucheture | | | | | Glaucescence (face inférieure) | | | | | Epi - glaucescence | | | | | |
| 3 | Pilosité - en gaines de la dernière feuille - pilosité | | | | | Pilosité de la dernière feuille | | | | | Dernière feuille moucheture | | | | | Glaucescence (face inférieure) | | | | | Epi - glaucescence | | | | | |
| 4 | Pilosité - en gaines de la dernière feuille - pilosité | | | | | Pilosité de la dernière feuille | | | | | Dernière feuille moucheture | | | | | Glaucescence (face inférieure) | | | | | Epi - glaucescence | | | | | |
| 5 | Pilosité - en gaines de la dernière feuille - pilosité | | | | | Pilosité de la dernière feuille | | | | | Dernière feuille moucheture | | | | | Glaucescence (face inférieure) | | | | | Epi - glaucescence | | | | | |
| 6 | Pilosité - en gaines de la dernière feuille - pilosité | | | | | Pilosité de la dernière feuille | | | | | Dernière feuille moucheture | | | | | Glaucescence (face inférieure) | | | | | Epi - glaucescence | | | | | |
| 7 | Pilosité - en gaines de la dernière feuille - pilosité | | | | | Pilosité de la dernière feuille | | | | | Dernière feuille moucheture | | | | | Glaucescence (face inférieure) | | | | | Epi - glaucescence | | | | | |
| 8 | Pilosité - en gaines de la dernière feuille - pilosité | | | | | Pilosité de la dernière feuille | | | | | Dernière feuille moucheture | | | | | Glaucescence (face inférieure) | | | | | Epi - glaucescence | | | | | |
| 9 | Pilosité - en gaines de la dernière feuille - pilosité | | | | | Pilosité de la dernière feuille | | | | | Dernière feuille moucheture | | | | | Glaucescence (face inférieure) | | | | | Epi - glaucescence | | | | | |

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

| MATURITE | | | | | C. PHYSIOLOGIQUES OBLIG. | | | | AUTRES CARACTERES PHYSIOLOGIQUES | | | | | | | | | | | | | |
|----------|----|----|----|----|--------------------------|----|----|----|----------------------------------|---------|-------|--------|------------|-----------|---------------|---------------|---------------|----------------------|------------------|----------|------------------|--|
| 21 | 22 | 23 | 24 | 25 | 33 | 26 | 27 | 28 | Froid | Charbon | Verse | Piétin | Septoriose | Fusariose | Rouille jaune | Rouille brune | Rouille noire | Oïdium (sur feuille) | Oïdium (sur épi) | Moulture | Rouille de l'épi | |
| 21 | 22 | 23 | 24 | 25 | 33 | 26 | 27 | 28 | | | | | | | | | | | | | | |

UPOV

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

⌘ Caractères obligatoires UPOV

FC/XVII/3
Annex V, page 8

MARS 1977

UPOV TA 19/5

CARACTERES MORPHOLOGIQUES

1 1 5 5

ESPECE : **ORGE** VARIETE : _____ ANNEE : _____ LIEU : _____
 N° de l'OBSERVATEUR : _____ N° de l'ANNEE d'ETUDE : _____ PAYS d'ORIGINE : _____

| EPI | | | | | | | | | | | | RACHIS | | | | | | | | | | | | GRAIN | | | | | | | | | | | | OBSERVATIONS |
|---------------|----|-----|----|----|----|----|-----|----|----|-----|----|-------------------|----|-----|----|----|----|----|----|----|-----|-----|----|-------------------------------------|-----|----|-----|----|---|---|--|--|--|--|--|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 29 | 30 | 31 | 32 | | | | | | | | |
| *13 | | *15 | | 14 | | | *17 | | | | | *18 | 19 | | | | 21 | 20 | | | *27 | *29 | | | *28 | | *30 | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | | | |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | | | | | |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | | | | | |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | | | | | |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | | | | |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | | | | | |
| GRAIN (suite) | | | | | | | | | | | | Autres CARACTERES | | | | | | | | | | | | Caractères généraux Epillet STERILE | | | | | | | | | | | | |
| 33 | 35 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 48 | 49 | 50 | 51 | 52 | 53 | 55 | 56 | 57 | 58 | 59 | | | | | | | | | | | | | | |
| 26 | | | 31 | | | | *32 | | | *25 | | | | *22 | | | 23 | 24 | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | | | |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | | | | | |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | | | | | |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | | | | | |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | | | | |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | | | | | |

Annex V, page 9

0087

Observations particulières
 * Caractères obligatoires UPOV
 JANVIER 1978

UPOV 74 1975

CARACTERES VEGETATIFS

3 1 5 5

ESPECE : **ORGE**

VARIETE : ----- ANNEE : ----- LIEU : -----

N° de l'OBSERVATEUR : ----- N° de l'ANNEE d'ETUDE : ----- PAYS d'ORIGINE : -----

| LEVEE | | | | TALLAGE | | | | MONTEE | | | | EPIAISON | | | | FLORAISON | | | | OBSERVATIONS |
|--|---|---|---|---|---|---|---|--|----|----|----|---------------------|----|----|----|-------------------------------|----|----|---|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | | |
| Maturation du culm ette (fréquence de fausses armoises) Premières feuilles : pig- mentation anthocyanique sous forte luminosité Pilosité de la gaine de la troisième feuille Réaction au pH Réaction au séchage Réaction au stretching Tallage : port Feuillage : couleur dominante Feuillage : couleur secondaire (ventuelle- ment) Pilosité des gaines des 4e et 5e feuilles Dernière feuille : port à la sortie des barbes Dernière feuille : rugosité du limbe Dernière feuille : anthocyanose du limbe Dernière feuille : glaucescence de la gaine Dernière feuille : décalage des oreillettes Dernière feuille : pigmentation anthocyanique des oreillettes Pointes de barbes : pigmentation anthocyanique Forme du dernier noeud Glaucescence de l'épi | | | | Port de l'épi Col de l'épi : longueur Col de l'épi : présence de la déformation Col de l'épi : sinuosité Lignes (variétés barbes) pour à partir du sommet de l'épi et par rapport quantième Précocité à l'épiaison : Alternativité : type Alternativité : degré Précocité à maturité Etat à maturité OBSERVATIONS PARTICULIERES Froide Verge Charbon Helminthosporiose Oidium Septoriose Rouille jaune Rouille néine Rouille noire Marsonia Hgv (Pv) observations particulières | | | | 34 1 2 3 6 45 88 10 | | | | 16 7 33 14 | | | | FC/XVII/3 Annex V, page 10 | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | 3 | 3 | 3 | |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 4 | |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | 5 | 5 | 5 | |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | 6 | 6 | 6 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | 7 | 7 | 7 | |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | 8 | 8 | 8 | |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |

* caractères obligatoires UPOV
 JANVIER 1978

LIPOR T 9 20/1

CARACTERES MORPHOLOGIQUES

1 154

0090

Espèce: **AVOINE** Variété: _____ Année: _____ Lieu: _____

N° de l'Observateur: _____ N° de l'année d'étude: _____ Pays d'Origine: _____

| CARACTERES DU GRAIN | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---------------|-----------------|-------------------------------------|--|------------------------|----------|---------------------------------------|-------------------------------------|------------------------------------|----------------------------------|--|-------|---------------------|--------------------|--------------------|---|----------------------------|
| Glumelle inférieure : Coloration I | Glumelle inférieure II : coloration II | Type du grain | Pilosité du dos | Pilosité de la base : importance | Pilosité de la base : type de poils | Aristation (fréquence) | Rugosité | Eplines de l'extrémité (fréquence) | Baguette du 1er grain : longueur | Baguette du 1er grain : finesse | Baguette du 1er grain : forme | Baguette du 1er grain : pilosité de la base | Talon | Cicatrice - cassure | Cicatrice - sillon | Forme du scutellum | Coloration à l'acide phénique (grain nu) | OBSERVATIONS PARTICULIÈRES |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | |
| * 19 | * 19 | * 16 | * 20 | * 21 | * 22 | * 17 | | | 23 | 24 | 25 | | | | | | | 18 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |

* Caractères obligatoires UPOV

OBSERVATIONS :

FC/XVII/3
Annex V, page 12

DESCRIPTION

| <u>CARACTERES MORPHOLOGIQUES</u> | | N° | 1 | 3 | 5 | 7 | 9 |
|--|-----|-----|-----------------------------------|------------------------|---------------------------|---------------------|-------------------------|
| <u>PLANTE</u> | | | | | | | |
| . Hauteur naturelle à floraison | 1 | 1 | très petite OCEAN | petite CROCUS | moyenne TAIGA | grande HERA | très grande DATCHA |
| . Longueur de la tige principale à maturité | 2 | 2 | courte OCEAN | courte à moy CROCUS | moyenne ANTARES | moyenne à longue | longue REINA |
| . Longueur de l'axe principal (jusqu'à la 1ère ramification) | 3 | 3 | | | | | |
| <u>FLEUR</u> | | | | | | | |
| . Taille de la corolle | 4 | 4 | petite DATCHA | | moyenne ANTARES | | grande OCEAN |
| . Moucheture des sépales | 5 | 5 | nulle à très faible TAIGA | faible CROCUS | moyenne LISA | | forte REINA |
| . Couleur des pétales | 6 | 6 | blanc HERA | rose | mauve | violet DATCHA | bleu TAIGA |
| . Intensité de la couleur des pétales | 7 | 7 | faible CROCUS | | moyenne TAIGA | | forte DATCHA |
| . Enroulement en gouttière des pétales | 8 | 8 | absent HERA | | | | présent ANTARES |
| . Couleur au sommet des filets d'étamines | 9 | 9 | blanc HERA | | bleu TAIGA | | violet DATCHA |
| . Couleur des anthères (à l'ouverture de la fleur) | 10 | 10 | jaunâtre | | bleuâtre HERA | | grisâtre FIBRA |
| . Couleur du pollen | 11 | 11 | jaunâtre FIBRA | | | | bleuâtre HERA |
| . Couleur à la base du style | 12 | 12 | blanc HERA | | | | bleu TAIGA |
| . Couleur des stigmates | 13 | 13 | blanc HERA | | bleu pâle | | violet pâle TAIGA |
| . Position des stigmates par rapport aux anthères | 13' | 13' | légèrement en dessous NYNKE | | au même niveau LISA | | légèrement au dessus |
| <u>CAPSULE</u> | | | | | | | |
| . Taille | 14 | 14 | très petite DATCHA | petite HERA | moyenne ANTARES | grande CROCUS | très grande OCEAN |
| . Pigmentation anthocyanique | 15 | 15 | absente HERA | | | | présente CROCUS |
| . Ciliation des fausses cloisons | 16 | 16 | absente REINA | | | | présente HERA |
| <u>GRAINE</u> | | | | | | | |
| . Grosseur | 17 | 17 | très petite DATCHA | petite HERA | moyenne ANTARES | grosse CROCUS | très grosse OCEAN |
| . Panachure | 18 | 18 | absente | | | | présente |
| . Couleur | 18 | 18 | jaune | vert olive | brun | brun-rouge HERA | brun-noir |
| . Intensité de la coloration | 19 | 20 | faible OCEAN | | moyenne | | forte DATCHA |
| <u>TRACES CARACTERISTIQUES</u> | | | | | | | |
| . Pouille <i>nach Wierz</i> | 15 | 15 | | Resisteur (Reine) | | | venant Wierz |

0092

BUNDESBÜRO

TC/XVII/3

ANNEX VI

| | |
|------|-------------|
| UPOV | 3 SEP. 1981 |
| | J433-081 |

Bundessortnamit Postfach 61 04 40 3000 Hannover 61

Herrn Dr. H. Mast
Internationaler Verband
zum Schutz von Pflanzen-
züchtungen
34, chemin des Colombettes
CH-1211 Genf 20

Ihre Zeichen, Ihre Nachricht vom
U 632-08.1
12.06.81

Unser Zeichen, unsere Nachricht vom
L I 1 - 170

☎ Durchwahl-Nr.
(05 11) 57 04 - 239

Datum
28.08.1981

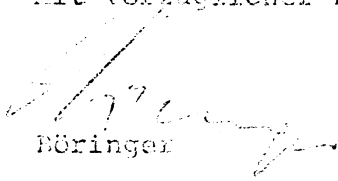
Betreff Liste von nicht in den UPOV-Prüfungsrichtlinien enthaltenen
Merkmalen, die von den Verbandsstaaten verwendet werden

Sehr geehrter Herr Mast!

Wir haben die in Ihrem Schreiben wiedergegebene Anregung zur
Aufstellung von Merkmalsgegenüberstellungen geprüft - auch
im Lichte der Diskussion bei der Tagung der Technischen Ar-
beitsgruppe für landwirtschaftliche Arten am 23. bis 25.06.81.
Im Prinzip begrüßen wir es sehr, einen Vergleich zwischen den
einzelnen UPOV-Richtlinien und den betreffenden nationalen
Richtlinien der Verbandsstaaten aufzustellen, nicht zuletzt
in Hinblick auf eine eventuelle Revision der verschiedenen
UPOV-Richtlinien.

Wir meinen jedoch, daß es nicht zweckmäßig ist, mit dieser
Aufgabe das UPOV-Büro und den Technischen Ausschuß zu belasten,
sondern, daß sie vielmehr den einzelnen Technischen Arbeits-
gruppen übertragen werden sollte.

Mit vorzüglicher Hochachtung


Böttinger

Postanschrift
Postfach 61 04 40
3000 Hannover 61

Dienstgebäude
Hannover 61
Osterfeldstrasse 13

Fernsprecher
Vermittlung
(05 11) 57 04-1
Telefax 9 23 728 (gründl.)

Kernarbeitszeit
8.30 - 15.00, 16. - 18.00

Konto
Bundeskasse Hannover
Postcheckkonto 60 10 301
BLZ 250 100 50

[Annex VII follows]

TC/XVII/3
ANNEX VII



Telegrafiese adres:
Telegraphic address:
"Sativa PRETORIA"
Tel. 213111 x 707

Verwys asb. in u antwoord na:
In reply please quote:

No. 11/1/13/2/2

REPUBLIEK VAN SUID-AFRIKA • REPUBLIC OF SOUTH AFRICA

DEPARTEMENT VAN LANDBOU EN VISSERIE
DEPARTMENT OF AGRICULTURE AND FISHERIES

AFDELING PLANT- EN SAADBEHEER
DIVISION OF PLANT AND SEED CONTROL

LANDBOUGEBOU
HAMILTONSTRAAT
PRIVAATSAK X179
PRETORIA
0001

AGRICULTURE BUILDINGS
HAMILTON STREET
PRIVATE BAG X179
PRETORIA
0001
Rep. of S.A.

1981-08-24

Vice Secretary-General
UPOV
34 chemin des Colombettes
1211 Genève 20
SWITZERLAND

Sir

LIST OF CHARACTERISTICS USED BY MEMBER STATES WHICH ARE NOT INCLUDED IN THE U.P.O.V. GUIDELINE.

Your circular U632 dd 12 June 1981 refers.

Information requested is as follows:-

1. No major characteristics.
2. (i) TG/2/4 (Maize) Characteristic 28
- (ii) TG/7/1 (Garden Pea) Ch. 53
- (iii) TG/12/1 (French bean) Ch. 4, 16, 17, 32
- (iv) TG/III/4 (Runner bean) Ch. 2, 16
- (v) TG/13/1 (Lettuce) Ch. 2, 4, 44, 45, 47
- (vi) TG/44/3 (Tomato) Ch. 4, 5, 29, 30
- (vii) TG/45/3 (Cauliflower) Ch. 11
- (viii) TG/49/3 (Carrot) Ch. 6, 15, 16, 21, 25, 26
- (ix) TG/60/3 (Beet) Ch. 9, 16, 27
- (x) TG/61/3 (Cucumber, Gherkin) Ch. 3, 7, 8, 37, 39, 40
- (xi) T6/76/3 (Pepper) Ch. 11, 12.

Most of the above are seldom used however it is realised that in the future some of these characteristics may become essential so that we would be satisfied if the status quo is maintained. The characteristic mentioned under TG/2/4 (Maize) viz characteristic 28 we find to be influenced by environmental conditions. In general it can be mentioned that all too often we find variableness of anthocyanin intensity a problem, due to environmental conditions. Absence or presence of anthocyanin causes no problem.

Yours faithfully

J.A.M. LEVISEUR
for REGISTRAR OF PLANT BREEDERS' RIGHTS.

[Annex VIII follows]

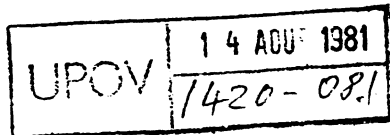
0094



MINISTERIO DE AGRICULTURA
INSTITUTO NACIONAL
DE SEMILLAS Y PLANTAS DE VIVERO
GENERAL SANJURJO, 56
MADRID-3

TC/XVII/3
ANNEX VIII

| | | |
|--------------------|---|---|
| FECHA | August, 10, 1981 | ┌ |
| SU REFERENCIA | | ├ |
| NUESTRA REFERENCIA | | ├ |
| ASUNTO | JER/jdn.- | ├ |
| | Circular No. U632/-08.1 hist of characteristies used. | ├ |
| DESTINATARIO | | └ |



Dr. Heribert Mast
Vice Secretary-General
U.P.O.V.
34, Chemin des Colombettes
1211 - GENEVE - 20
(Suiza)

Dear Dr. Mast:

I am writing in reply to your letter of june, 12, 1981 concerning the next session of the Technical Committee.

Please find enclosed the information about the characteristics used in our country for PBR purposes.

As you know we grant at the moment PBR for: Wheat, Barley, Oats, Potatoes, Rice, Roses and Carnations.

Some of the existing UPOV Guidelines are under revision or recently modified; consequently some of the new or modified characteristics are been introduced in our list.

For potatoes, roses, rice and caranations we use the list included in the existing UPOV Guidelines.

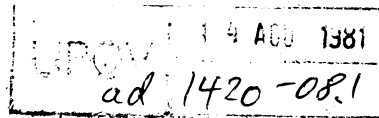
For wheat, barley and oats we use some additional characters that are listed in forms attached.

With kind regards.

Yours sincerely,

J.M. Elena Rosselló.

Enclosures: Form 1 - Wheat, barley and oats.



Oats 1

Form 1

LIST OF CHARACTERISTICS USED IN ADDITION TO THE CHARACTERISTICS MENTIONED IN THE UPOV TEST GUIDELINES

LISTE DES CARACTERES UTILISES EN PLUS DE CEUX QUI FIGURENT DANS LES PRINCIPES DIRECTEURS D'EXAMEN DE L'UPOV

LISTE DER MERKMALE, DIE ZUSÄTZLICH ZU DEN IN DEN UPOV-PRÜFUNGSRICHTLINIEN GENANN- TEN MERKMALEN VERWENDET WERDEN

COUNTRY/PAYS/LAND: SPAIN.....

| Species or document number | Characteristics | States of expression | Example Varieties | |
|------------------------------|-----------------|----------------------|-------------------|------|
| Espèce ou numéro du document | Caractères | Stades d'expression | Exemples | Note |
| Art oder Dokumentennummer | Merkmale | Ausprägungsstufen | Beispielssorten | |

OATS

TG/20/5 (proj)

- First leaf attitude.
- Anthocyanin pigmentation of leaf sheath.
- Leaf blade colour.
- Leaf attitude (at stem elongation).
- Rolling of the tip of the leaf blade.
- Upper most node glaucosity.
- Leaf sheath glaucosity.
- Leaf blade glaucosity.
- Panicle: density.
- Panicle neck: glaucosity.
- Three grains spikelet: frequency.
- Stem coloration.
- Primary grain: Aun length.
- Grain: Ratio length/width.

Form 1

LIST OF CHARACTERISTICS USED IN ADDITION TO THE CHARACTERISTICS MENTIONED IN THE
UPOV TEST GUIDELINESLISTE DES CARACTERES UTILISES EN PLUS DE CEUX QUI FIGURENT DANS LES PRINCIPES
DIRECTEURS D'EXAMEN DE L'UPOVLISTE DER MERKMALE, DIE ZUSÄTZLICH ZU DEN IN DEN UPOV-PRÜFUNGSRICHTLINIEN GENANN-
TEN MERKMALEN VERWENDET WERDEN

COUNTRY/PAYS/LAND: SPAIN

| Species or document number | Characteristics | States of expression | Example Varieties | |
|------------------------------|-----------------|----------------------|-------------------|------|
| Espèce ou numéro du document | Caractères | Stades d'expression | Exemples | Note |
| Art oder Dokumentennummer | Merkmale | Ausprägungsstufen | Beispielssorten | |

BARLEY

TG/19/5 (proj.)

- Leaf colour.
- Basal leaf sheath: anthocyanin pigmentation.
- Leaf blade glucosity.
- Uper most node: shape.
- Auns: Present or absent.
- Ear colour.
- Ear neck: shape.
- Auns attitude related with ear.
- Ear length.
- Ear nech: Kink.
- Collar: Type.
- Collar: shape.
- Rachis: Lateral hairness of first segment.
- Relative lenght of palea and lemma.
- Grain spiculation of central nerve of lemma.
- Lodicules: size.

LIST OF CHARACTERISTICS USED IN ADDITION TO THE CHARACTERISTICS MENTIONED IN THE UPOV TEST GUIDELINES

LISTE DES CARACTERES UTILISES EN PLUS DE CEUX QUI FIGURENT DANS LES PRINCIPES DIRECTEURS D'EXAMEN DE L'UPOV

LISTE DER MERKMALE, DIE ZUSÄTZLICH ZU DEN IN DEN UPOV-PRÜFUNGSRICHTLINIEN GENANN- TEN MERKMALEN VERWENDET WERDEN

COUNTRY/PAYS/LAND:SPAIN.....

| Species or document number | Characteristics | States of expression | Example Varieties | |
|------------------------------|-----------------|----------------------|-------------------|------|
| Espèce ou numéro du document | Caractères | Stades d'expression | Exemples | Note |
| Art oder Dokumentennummer | Merkmale | Ausprägungsstufen | Beispielssorten | |

WHEAT

TG/3/6 (proj.)

- First leaf sheath: Hairness.
- Leaf colour (at tillering).
- Flag leaf: sheath hairness.
- Leaf blade: glucosity.
- Leaf blade: length.
- Leaf blade: width.
- Stem: glaucosity.
- Upper most node: shape.
- Culm pigmentation.
- Ear neck length.
- Ear neck shape.
- Ear attitude (at maturity).
- Ear attitude (at maturity).
- Ear grouping.
- Ear length.
- Supernumerary spikelets: Presence.
- Spikelet: shape.
- Glume: shape.

LIST OF CHARACTERISTICS USED IN ADDITION TO THE CHARACTERISTICS MENTIONED IN THE UPOV TEST GUIDELINES

LISTE DES CARACTERES UTILISES EN PLUS DE CEUX QUI FIGURENT DANS LES PRINCIPES DIRECTEURS D'EXAMEN DE L'UPOV

LISTE DER MERKMALE, DIE ZUSÄTZLICH ZU DEN IN DEN UPOV-PRÜFUNGSRICHTLINIEN GENANN- TEN MERKMALEN VERWENDET WERDEN

COUNTRY/PAYS/LAND:

| Species or document number | Characteristics | States of expression | Example Varieties | |
|------------------------------|-----------------|----------------------|-------------------|------|
| Espèce ou numéro du document | Caractères | Stades d'expression | Exemples | Note |
| Art oder Dokumentennummer | Merkmale | Ausprägungsstufen | Beispielsorten | |

WHEAT

- Glume: length.
- + Glume: width.
- Glume: external hairness
- Keel glume inflexion.
- Keel glume denticulation.
- External surface of glume: roughness.
- Glume: spicules in the lateral nerve of the narrow wing.
- Lowest: lemma beak length.
- Rachis: lateral hairness of first segment.
- Rachis: lateral hairness of central segment.
- Rachis: profile of the central segment.
- Grain: length.
- Grain: deepness of the ventral furrow.
- Grain: shape of section of ventral furrow.
- Grain: relative size of embryo.
- Grain: shape of embryo.
- Grain: roughness of surface.
- Grain: texture type.

[Annex IX follows]

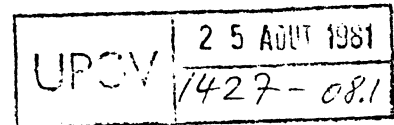
STATENS VÄXTSORTNÄMND

TC/XVII/3
Annex IX

Datum

1981-08-21

Solna



Dr H Mast
Vice Secretary-General
UPOV
34, chemin des Colombettes
1211 GENEVE 20 / Schweiz

Dear Dr Mast,

List of characteristics used by the member States
which are not included in the UPOV Test Guidelines,
Circular No U 632/-08.1

Please find enclosed lists of

- additional characteristics (Form 1) for oats, barley, wheat, tomato and cauliflower
- characteristics considered superfluous (Form 2) for cauliflower.

Yours sincerely,

Evan Westerlind
Evan Westerlind

LIST OF CHARACTERISTICS USED IN ADDITION TO THE CHARACTERISTICS MENTIONED IN THE UPOV TEST GUIDELINES

LISTE DES CARACTERES UTILISES EN PLUS DE CEUX QUI FIGURENT DANS LES DIRECTIVES DIRECTEURS D'EXAMEN DE L'UPOV

LISTE DER MERKMALE, DIE ZUSÄTZLICH ZU DEN IN DEN UPOV-REGELN BESHREIBTEN MERKMALEN VERWENDET WURDEN

COUNTRY/PAYS/LAND: Sweden

| Species or document number | Characteristics | States of expression | Examples | Rate | |
|------------------------------|-----------------------------|----------------------|-------------------|----------------|---|
| Espèce ou numéro du document | Caractères | Stades d'expression | Exemples | Taux | |
| Art oder Dokumentennummer | Merkmale | Stage | Ausprägungsstufen | Beispielsorten | |
| Oats | Plot: colour | 30-35 light green | - | 1 | |
| | | green | Dula, Selma | 2 | |
| | | dark green | Condor | 3 | |
| | Flag leaf: length | 30-35 | short | - | 3 |
| | | | medium | Condor | 5 |
| | | | long | Kalott | 7 |
| | Flag leaf: width | 30-35 | narrow | | 3 |
| | | | medium | Condor | 5 |
| | | | wide | | 7 |
| | Paniclè: length of branches | | short | Condor | 3 |
| | | | medium | Selma | 5 |
| | | | long | Kalott | 7 |

LIST OF CHARACTERISTICS USED IN ADDITION TO THE CHARACTERISTICS MENTIONED IN THE UPOV TEST GUIDELINES

LISTE DES CARACTERES UTILISES EN PLUS DE CEUX QUI FIGURENT DANS LES PRECISEES DIRECTEURS D'EXAMEN DE L'UPOV

LISTE DER MERKMALE, DIE ZUSÄTZLICH ZU DEN IN DEN UPOV-PRÜFUNGSRICHTLINIEN GENANNTEN MERKMALEN VERWENDET WERDEN

| COUNTRY/PAYS/LAND: Sweden | | | | |
|------------------------------|-----------------|-------|----------------------|-------------------|
| Species or document number | Characteristics | | States of expression | Example varieties |
| Espèce ou numéro du document | Caractères | | Stades d'expression | Exemples |
| Art oder Dokumentennummer | Merkmale | Stage | Ausprägungsstufen | Beispielsorten |
| Barley | Grain: type | 92 | nutans erectum | Kristina Harry |

LIST OF CHARACTERISTICS USED IN ADDITION TO THE CHARACTERISTICS MENTIONED IN THE UPOV TEST GUIDELINES

LISTE DES CARACTERES UTILISES EN PLUS DE CEUX QUI FIGURENT DANS LES DIRECTIVES DIRECTEURS D'EXAMEN DE L'UPOV

LISTE DER MERKMALE, DIE ZUSÄTZLICH ZU DEN IN DEN UPOV-PRÜFUNGSRICHTLINIEN ERWÄHNTEN MERKMALEN VERWENDET WERDEN

COUNTRY/PAYS/LAND: Sweden

| Species or document number | Characteristics | | States of expression | Example Varieties | |
|------------------------------|---------------------------|-------|----------------------|-------------------|------|
| Espèce ou numéro du document | Caractères | | Stades d'expression | Exemples | Date |
| Art oder Dokumentennummer | Merkmale | Stage | Ausprägungsstufen | Beispielsorten | |
| Wheat | Plot; colour | 30-35 | light green | | 1 |
| | | | green | Hildur | 3 |
| | | | dark green | | 5 |
| | | | grey green | Holme | 7 |
| | | | blue green | | 9 |
| | Flag leaf: length | 30-35 | short | | 3 |
| | | | medium | Hildur | 5 |
| | | | long | | 7 |
| | Flag leaf: width | 30-35 | narrow | Helge | 3 |
| | | | medium | Hildur | 5 |
| | | | wide | Solid | 7 |
| | Ear: colour at anthesis | 65 | yellow green | | 1 |
| | | | green | Walde | 3 |
| | | | grey green | Hildur | 5 |
| | | | blue green | | 7 |
| | | | grey blue | | 9 |
| | Ear: length | 90-92 | short | | 3 |
| | | | medium | Hildur | 5 |
| | | | long | | 7 |
| | Ear: attitude at maturity | 90-92 | erect | Helge | 1 |
| | | | semi-recurved | Hildur | 5 |
| recurved | | | | 9 | |

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Page 1

LIST OF CHARACTERISTICS USED IN ADDITION TO THE CHARACTERISTICS MENTIONED IN THE UPOV TEST GUIDELINES

LISTE DES CARACTERES UTILISES EN PLUS DE CEUX QUI FIGURENT DANS LES PRINCIPALES DIRECTEURS D'EXAMEN DE L'UPOV

LISTE DER MERKMALE, DIE ZUSÄTZLICH ZU DEN IN DEN UPOV-PRÜFUNGSRICHTLINIEN GENANNTEN MERKMALEN VERWENDET WERDEN

COUNTRY/PAYS/LAND: Sweden

| Species or document number | Characteristics | States of expression | Example varieties |
|------------------------------|---|----------------------|-------------------|
| Espèce ou numéro du document | Caractères | Stades d'expression | Exemples |
| Art oder Dokumentennummer | Merkmale | Ausprägungsstufen | Beispielsorten |
| Cauliflower | Date of harvest (all varieties sown at the same date) | | |
| | Date of sprouting | | |
| | Date of flowering | | |

LIST OF CHARACTERISTICS USED IN ADDITION TO THE CHARACTERISTICS MENTIONED IN THE UPOV TEST GUIDELINES

LISTE DES CARACTERES UTILISES EN PLUS DE CEUX QUI FIGURENT DANS LES DIRECTIVES DIRECTEURS D'EXAMEN DE L'UPOV

LISTE DER MERKMALE, DIE ZUSÄTZLICH ZU DEN IN DEN UPOV-PRÜFLEITFADEN ERWÄHNTEN MERKMALEN VERWENDET WERDEN

COUNTRY/PAYS/LAND: Sweden

| Species or document number | Characteristics | States of expression | Example varieties | |
|------------------------------|--|---------------------------------|--------------------|-------------|
| Espèce ou numéro du document | Caractères | Stades d'expression | Exemples | Note |
| Art oder Dokumentennummer | Merkmale | Ausprägungsstufen | Beispielvarietäten | |
| Tomatoe | Plant height | Measuring the height | | |
| | Speed of plant growth ^{x)} | weak medium strong | | 3 5 7 |
| | Speed of flowering ^{x)} (Period between flowering 1st and 5th truss) | fast medium slow | Vidar | 3 5 7 |
| | Fruit glossiness | weak (dull) medium strong | Fan dango | 3 5 7 |

x)Only with growth type indeterminate (character 2, glasshouse-forcing tomato)

Table 1

LIST OF CHARACTERISTICS OF THE UPOV TEST GUIDELINES CONSIDERED SUPERFLUOUS BECAUSE
OF BEING ONLY OF LITTLE USE OR TOO MUCH FLUCTUATING

LISTE DES CARACTERES DES PRINCIPES DIRECTEURS D'EXAMEN DE L'UPOV JUCES SUPERFLUS
PARCE QUE PEU UTILES OU TROP FLUCTUANTS

LISTE DER MERKMALE DER UPOV-PRÜFUNGSRICHTLINIEN, DIE ALS ÜBERFLÜSSIG ERACHTET WER-
DEN, DA SIE NUR BEDINGT VERWENDBAR SIND ODER ZU STARK VARIEREN

COUNTRY/PAYS/LAND: Sweden

| Species or document number | Number of Characteristic | Characteristic |
|------------------------------|--------------------------|----------------|
| Espèce ou numéro du document | Numéro du Caractère | Caractère |
| Art oder Dokumentennummer | Nummer des Merkmals | Merkmal |
| Cauliflower | 14 | Leaf creasing |

[Annex X follows]

0106

TC/XVII/3
ANNEX X



NATIONAL INSTITUTE OF AGRICULTURAL BOTANY

HUNTINGDON ROAD CAMBRIDGE CB3 0LE
Telephone Cambridge (0223) 76381

PATRONS: HER MAJESTY THE QUEEN

UPOV 21 AOUT 1981
1424-08/1

Dr H Mast
Vice Secretary General
UPOV
34 chemin des Colombettes
1211 Geneve 20
SWITZERLAND

YOUR REFERENCE

OUR REFERENCE AFK/JB/062b

DATE 18 August 1981

Dear Dr Mast

LIST OF CHARACTERISTICS USED IN UK WHICH ARE NOT INCLUDED IN UPOV TEST GUIDELINES

Thank you for your letter (Circular U632-08.1) of 12 June. I understand that this was discussed at the meeting of the Technical Working Party for Agricultural Crops in Edinburgh (UK), 23-25 June. The details for the crops handled by this Working Party are therefore available to you.

For other crops I have not been entirely successful in collecting together full information, it is a rather long job and this is a very busy season for staff engaged in recording, who are those most fully qualified to answer your questions.

However, I have had a letter from Mr George about Chrysanthemums and tomatoes and a note from Mr J L Evans about certain vegetables; copies of these documents are enclosed.

Should I get any further information, I will forward it to you, but I am afraid the timing of this request has made it very difficult to obtain full information.

Yours sincerely

A F KEENEY
Deputy Director

Encs.

ANNEX II Characteristics used by UK but not in UPOV Guidelines1 BROAD BEANS

| <u>Character</u> | <u>State</u> |
|--|--|
| a. No of days from sowing to first flower | No. |
| b. No. of nodes to first flower | No. |
| c. No. of flowers in 2nd truss | No. |
| d. Largest flower: length | mm |
| e. Largest flower: melanin spot on wing petals | 1 absent: 2 present |
| f. Largest flower: anthocyanin coloration of standard tube | 1 absent: 9 present |
| g. Largest flower: extent of anthocyanin coloration of standard tube | 1 very slight: 3 slight: 5 medium 7 great: 9 very great |
| h. Largest flower: melanin spot on back of standard petal | 1 absent: 9 present |
| i. Largest flower: extent of melanin spot on back of standard petal | 3 small: 5 medium: 7 large |
| j. Leaflet: Length | mm |
| k. Leaflet: widest point to base | mm |
| l. Stipules: marbling | 1 absent: 2 present |
| m. Pod: No. of developed seeds | No. |
| n. Stem: anthocyanin coloration | 1 absent: 9 present |
| o. Stem: extent of anthocyanin coloration | 3 slight: 5 medium: 7 much |

2. CABBAGE

| | |
|---|-----------------------------|
| a. Leaf: length | cm |
| b. Leaf: width | cm |
| c. Leaf: undulation of margin | 3 shallow: 5 medium: 7 deep |
| d. Head: weight | gms |
| e. Maturity: no of days from sowing to bursting | No. |

3. CAULIFLOWER

| | |
|---|-------------------------|
| a. Plant: height | cms |
| b. Curd: bracting | 1 absent: 2 present |
| c. Curd: colour of bracts | 1 white: 2 green |
| d. Curd diameter | cms |
| e. Time of harvest maturity: | No. of days from sowing |
| f. Season of maturity Spring Summer Autumn Winter | |

4. LETTUCE

| | |
|--|------------------------|
| a. Hypocotyl: anthocyanin coloration | 1 absent 2 present |
| b. Mature plant: type 1 butterhead 2 crisp 3 cos 4 latin 5 loose leaf 6 stem | |
| c. Head: diameter | cms |
| d. Physiological type: | 1 short day 2 long day |
| e. Plant: width (flowering plant) | cms |
| f. Plant: No of days from sowing to flowering | No. |

5. RADISH

- | | |
|---|------------------------------|
| a. Hypocotyl: intensity of anthocyanin coloration | 3 slight: 5 medium: 7 strong |
| b. Leaf: breadth | mm |
| c. Radish: length | mm |
| d. Radish: breadth | mm |
| e. Radish: length/breadth ratio | |
| f. Radish: internal anthocyanin coloration | 1 absent: 2 present |
| g. Radish: photoperiod | 1 short day 2 long day |
| h. Radish: shape of shoulder | 1 flat 2 rounded 3 conical |

6. BLACK RADISH

- | | |
|---------------------------------|--|
| a. Radish: length/breadth ratio | |
|---------------------------------|--|

7. ONION

- | | |
|------------------------------------|-----------------------|
| a. Leaf: number | no. |
| b. False stem: length | cms |
| c. Bulb: top shape | key |
| d. Bulb: base shape | key |
| e. Bulb: weight | gms |
| f. Bulb: base to widest point | mm |
| g. Bulbs: % sprouted after storage | 3 low 5 medium 7 high |

8. BEETROOT

- | | |
|----------------------------------|-----|
| a. Plant: width | cms |
| b. Petiole: breadth at mid point | cms |
| c. Root: widest point to crown | mms |

9. CELARIAC

- | | |
|--------------------|--------------------------|
| a. Leaf: dentation | 3 weak 5 medium 7 strong |
|--------------------|--------------------------|

10. FRENCH BEANS

- | | |
|--------------------------------|---|
| a. Foliage: time of senescence | 1 very early 3 early 5 medium 7 late 9 very late |
|--------------------------------|---|

11. RUNNER BEAN

NIL

12. BRUSSELS SPROUTS

NIL

II Characteristics in UPOV Guidelines but not used by UK1. BROAD BEANS

- Char 4. Leaf: size (at flowering)
- Char 6. Leaflet: shape (at flowering)
- Char 7. Foliage colour (before flowering)
- Char 8. Leaf: glossiness of upper side
- Char 9. Flower: colour
- Char 10. Flower: colour of standard tube
- Char 14. Pod: shape (at harvest stage)
- Char 15. Pod: apex
- Char 21. Seed: tannin
- Char 23. Flowering: beginning
- Char 24. Flowering: full flowering
- Char 26. Maturity: full maturity
- Char 27. Maturity: dry seed

2. CABBAGE

- Char 2. Seedling: colour of cotyledons
- Char 9. Outer leaf: contour of upper side of blade
- Char 10. Outer leaf: undulation of blade
- Char 20. Outer leaf: mid rib
- Char 21. Outer leaf: colour of mid rib
- Char 29.1 Head: diameter of internal stem
- Char 29.2 - do -
- Char 29.3 - do -
- Char 32. Durability of the mature head in the field

3. CAULIFLOWER

- Char 2. Seedling: colour of cotyledons
- Char 6. Leaf: size
- Char 8. Leaf: margin of base
- Char 9. Leaf: wax
- Char 12. Leaf: profile of upper side of blade
- Char 18. Leaf: length of petiole
- Char 26. Curd: texture

4. LETTUCE - comments here given on UPOV/TG./13/1 date 73-11-07

- Char 2. Seed cotyledons: size
- Char 3. Seed cotyledons: shape
- Char 4. Seed cotyledons: colour
- Char 6. Leaf base: shape (on seedling)
- Char 12. Leaf blade: glossiness of the upper side (at 3 to 4 leaf stage)
- Char 19. Leaf blade: incision of margin in basal part (at 3 to 4 leaf stage)
- Char 20. Leaf blade: serration and sinuation of margin on basal part
(at 3 to 4 leaf stage)
- Char 25. Head: firmness
- Char 26. Leaf: texture (at maturity)
- Char 35. Leaf: surface profile
- Char 38. Leaf: pose of tip
- Char 39. Leaf: undulation of margin
- Char 40. Leaf: incision of margin on apical part
- Char 41. Leaf: serration or sinuation on apical part
- Char 42. Leaf: incision of margin on basal part
- Char 43. Leaf: serration and sinuation in basal part
- Char 44. Leaf: venation

5. RADISH

- Char 1. Ploidy
- Char 3. Cotyledon: size
- Char 4. Foliage: attachment
- Char 7. Leaf blade: shape
- Char 8. Leaf blade: shape of apex
- Char 19. Radish: thickness -(Note: Mis-translation?)
- Char 20. Radish: width of root
- Char 22. Radish: shape of crown
- Char 28. Radish: thickness of cortex

6. BLACK RADISH

- Char 1. Ploidy
- Char 2. Cotyledon: size
- Char 3. Cotyledon: colour
- Char 4. Foliage; No. of fully developed leaves
- Char 7. Leafblade: shape

7. ONION

- Char 3. Leaf: curvature
- Char 12. Bulb: width of neck
- Char 13. Bulb: thickness of skin
- Char 16. Bulb: skin adherence
- Char 17. Bulb: thickness of rings
- Char 18. Bulb: firmness of flesh
- Char 20. Bulb: position of root disc
- Char 25. Bulb: dry matter content
- Char 27. Bulb: male sterility

8. BEETROOT

- Char 6. Leaf blade: shape
- Char 9. Leaf blade: reflexing of margin
- Char 10. Leaf blade: glossiness
- Char 12. Leaf blade: anthocyanin coloration of veins
- Char 13. Leaf blade: basal lobes
- Char 14. Leaf blade: main colour before harvest
- Char 16. Petiole: width of base
- Char 27. Root: fibrosity of flesh after boiling

9. CELARIAC

- Char 13. Tuber: protrusion
- Char 15. Tuber: intensity of main colour of skin
- Char 18. Tuber: amount of roots
- Char 21. Tuber: discoloration of flesh after cooking
- Char 22. Tuber: intensity of discoloration of flesh after cooking

10. FRENCH BEAN

- Char 10. Leaflet: overlapping
- Char 21. Inflorescence: number of flowers
- Char 37. Pod. breadth of stalks
- Char 47. Seed: shape of seed apex
- Char 49. Seed: Glossiness of surface
- Char 55* Resistance to common bean mosaic and black root

11. RUNNER BEAN

- Char 2. Stem: length
- Char 3. Flower: shape
- Char 9. Pod: twisting

12. BRUSSELS SPROUTS

- Char 2. Seedling: colour of cotyledons
- Char 14. Petiole: length compared to blade
- Char 17. Sprout: size
- Char 19. Sprout: anthocyanin coloration
- Char 22. Sprout: number on 25cm of stem
- Char 23. Sprout: diameter of core base
- Char 25. Sprout column: pyramidal or cylindric

23 JUL 1981



The Plant Variety Rights Office
Lee Valley Experimental Horticulture Station
Ware Road Hoddesdon Hertfordshire EN11 9AQ

Telephone 099-24 63623/4

Mr A F Kelly
NIAB
Cambridge

Your reference

Our reference

Date

21 July 1981

Dear Mr Kelly

UPOV TECHNICAL COMMITTEE

Thank you for your letter of 24 June about lists of characteristics which are not in the UPOV guidelines.

I have already sent our comments on the Tomato Guidelines to Tom Webster. We have no comments on any of the guidelines for ornamental plants except, as you may guess, chrysanthemums.

We have introduced extra characteristics into our procedures for various reasons in this species.

- 1) To evaluate new ideas. In the absence of any experimental facilities we have no other way of improving the test procedures.
- 2) To remind crop recorders to look for things which occur only rarely.
- 3) To ensure that we have information about characteristics which are very sensitive to cultural conditions and therefore unsuitable for inclusion in the Guidelines but whose expression may nevertheless affect the interpretation of the test results.

When the Guidelines for Chrysanthemums are revised (1982?) we shall propose inclusion of the following characteristics which we have found to be valuable in regular use over the past three or four years.

| | | |
|--|----------------------|---|
| Stem: cross section | 1 round 2 angular | |
| Leaf with claw in base of sinus: frequency of presence of claw | | 1. sometimes 2. usually 3. always |

Spray varieties only

| | | |
|---|--|-----------------------|
| Inflorescence: secondary lateral branches | | 1 absent 9 present |
| Inflorescence: conjunction of terminal and top lateral buds | | 1 absent 9 present |

| | |
|---|--|
| Inflorescence with conjoined buds: frequency | 1 sometimes 2 usually 3 always |
| <u>Ray florets in which longitudinal axis is not straight</u> | |
| Ray floret (majority): proportion of axis not straight | 3 tip 5 about half 7 most |
| Ray floret (majority): strength of curvature of axis | 3 weak 5 medium 7 strong |
| Ray floret (outer rows): proportion of axis not straight | |
| Ray floret (outer rows): strength of curvature of axis | |
| Ray floret: colour of outer face at stage 6 | RHS Colour Chart |
| <u>Ray florets with medium or long tube only</u> | |
| Tube: diameter | 3 small 5 medium 7 large |
| We shall continue to use the following characteristics on a regular basis pending a decision on their value or while we improve the definition of states. | |
| Plant: apical dominance when vegetative | 3 weak 5 medium 7 strong |
| Stem: pubescence | 3 sparse 5 medium 7 dense |
| Stem: distribution of anthocyanin colour | 1 uniform 2 mainly at nodes 3 mainly at base |
| Flower head: colour group | 16 states |

We shall also continue to use one very variable characteristic whose expression affects the interpretation of test results.

Spray varieties only

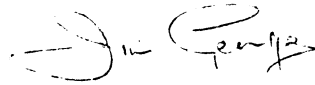
Inflorescence: compounding

1 absent
2 present in some plants,
3 present in all plants

Finally, characteristics in the present Guideline which we consider to be of little value.

- 7 Stem: brittleness
- 8 Lateral shoot: attachment to stem
- 16 Leaf: thickness
- 17 Leaf: texture
- 23 Leaf: margins of sinus
- 24 Leaf: shape of base
- 44 Ray floret: thickness

Yours sincerely



A J George

UPOV - VARIATIONS FROM GUIDELINES

Your memo of 22 June and Dr Mast's letter 12 June refer.

TG/44/3, Tomato, is the only one on which I can comment. (I will send the comments on ornamentals separately to Kelly.)

We do not use any characteristics which are not in these Guidelines.

The following characteristics appear to be of little or no value:

3. Stem: type - We have never really discovered what the states were supposed to mean.
22. Fruit: abscission layer - We have never found one in which it is absent.
26. Fruit: size of corky area around pedicel scar - all our varieties are state 1, absent or very small. Anything else would be commercially unacceptable anyway.
- 38.2 Glasshouse varieties, time of flowering. There is so little variation that the character is useless.
40. Fruit: dry matter. We have no facilities for doing this.



A J George
30 June 1981

Mr T Webster

[End of Annex X and of document]