



**Canadian Food
Inspection Agency**

**Agence canadienne
d'inspection des aliments**

Minimum List of Species for Seed Identification by Canadian Accredited Seed Analysts and Laboratories

Saskatoon Laboratory (Seed Science and Technology Section)
Canadian Food Inspection Agency (CFIA)

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Distribution:

CFIA Field Crops Division, Seed Section;
Canadian Seed Institute;
Commercial Seed Analyst Association of Canada;
Canadian Accredited Seed Laboratories

Introduction

The Canadian Food Inspection Agency (CFIA) seed analyst accreditation exam, seed testing laboratory accreditation, and accredited seed laboratory proficiency monitoring program are administered by CFIA Saskatoon Laboratory, Seed Science and Technology Section (SSTS) with the assistance of the Canadian Seed Institute (CSI) and Commercial Seed Analyst Association of Canada. The *Minimum list of Species for Seed Identification by Canadian Accredited Seed Analysts and Laboratories* (here after called the Minimum List) is to provide the seed identification minimum requirement that will be used for guiding the seed analyst accreditation exam, accrediting seed testing laboratories, and monitoring the proficiency performance of accredited seed testing laboratory in seed identification. It should also be used for internal proficiency monitoring for seed analyst in accredited seed testing laboratories.

The Minimum List states the minimum species that accredited seed analysts and seed testing labs are expected to retrieve and identify in seed samples. Seed testing laboratories, which are seeking CFIA accreditation or have been accredited by CFIA, shall have the identification resources available (e.g., reference specimens and books) in addition to the achievement and maintenance of the identification proficiency for the listed species.

The Minimum List includes three parts: Species in *Weed Seeds Order*, species in Grade Tables I to XX, Schedule I, *Seeds Regulations*, and other weeds. The CFIA Analyst Accreditation program is considered equivalent to the Association of Official Seed Analysts (AOSA) Certified Seed Analyst (CSA) program and the Society of Commercial Seed Technologists (SCST) Registered Seed Technologist (RST) programs in the United States of America. As such, the list is accepted as equivalent to the seed identification scope used for the RST and CSA. This acceptance of equivalence and clearly identified expectation of proficiency allows seed analysts in Canadian accredited seed testing labs to participate in other programs (e.g., US Animal and Plant Health Inspection Service (APHIS) PPQ 925 certificate issuance, CFIA Authorized Exporter Program, Canadian Seed Institute monitoring of seed establishments).

The selection criteria for other weeds are based on:

- If the species are common contaminants of Canadian domestic seed sample (e.g., distributed in Canada, found in domestic seed samples)
- Species are weeds that are significant to Canadian environment and export markets (e.g., weedy species that has concerns to provincial legislation or other countries)
- Species that has value to maintain seed analyst identification skill (e.g., common family exposure, equivalent to SCST Seed Identification List).

The minimum list of species

Part I: Species listed in current version of *Weed Seeds Order*

<http://laws-lois.justice.gc.ca/eng/regulations/SOR-2016-93/index.html>

Part II: Crop Species and visible disease bodies listed in *Grade Table I-XX*, [SCHEDULE I](#) of the *Seeds Regulations*

[http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.%2C c. 1400/page-46.html#docCont](http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.%2C%20c.%201400/page-46.html#docCont)

Part III: Other Weed Species (167 Species or Genus)

| Family | Genus or Species | Common Name | |
|----------------|--|----------------------------|---|
| | | English | French |
| Amaranthaceae | <i>Amaranthus</i> spp., except <i>A. tuberculatus</i> | Pigweed | Amarante |
| Amaryllidaceae | <i>Allium vineale</i> | Wild garlic | Ail des vignes |
| Apiaceae | <i>Cicuta douglasii</i> | Western water-hemlock | Cicutaire pourpre |
| Apiaceae | <i>Cicuta maculata</i> | Spotted water-hemlock | Carotte à Moreau, cicutaire maculée |
| Apocynaceae | <i>Asclepias syriaca</i> | Common milkweed | Asclépiade commune |
| Asteraceae | <i>Acanthospermum hispidum</i> | Starbur | Herbe tricorne |
| Asteraceae | <i>Achillea millefolium</i> | Common yarrow | Achillée millefeuille, herbe à dinde |
| Asteraceae | <i>Ambrosia psilostachya</i> | Perennial ragweed | Herbe à poux vivace |
| Asteraceae | <i>Anthemis arvensis</i> | Corn chamomile | Camomille des champs |
| Asteraceae | <i>Arctium lappa</i> | Great burdock | Grande bardane |
| Asteraceae | <i>Arctium minus</i> | Common burdock | Petite bardane |
| Asteraceae | <i>Artemisia absinthium</i> | Absinth | Armoise absinthe |
| Asteraceae | <i>Carthamus lanatus</i> | Woolly distaff thistle | Carthame laineux |
| Asteraceae | <i>Centaurea cyanus</i> | Cornflower | Centaurée bleuet |
| Asteraceae | <i>Centaurea calcitrapa</i> | Purple starthistle | Centaurée chausse-trape |
| Asteraceae | <i>Cichorium intybus</i> | Chicory | Chicorée sauvage |
| Asteraceae | <i>Cirsium vulgare</i> | Bull thistle | Chardon vulgaire |
| Asteraceae | <i>Conyza canadensis</i> | Canada fleabane | Vergerette du Canada |
| Asteraceae | <i>Crepis capillaris</i> | Smooth hawk's-beard | Crépis capillaire |
| Asteraceae | <i>Crepis tectorum</i> | Narrow-leaved hawk's-beard | Crépis des toits |
| Asteraceae | <i>Cyclachaena xanthiifolia</i> | False ragweed | Ive à feuilles de lampourde |
| Asteraceae | <i>Erigeron</i> spp. | Fleabane | Vergerette |
| Asteraceae | <i>Helianthus</i> spp. | Wild sunflower | Hélianthe |
| Asteraceae | <i>Hieracium aurantiacum</i> | Orange hawkweed | Épervière orangée |
| Asteraceae | <i>Hieracium</i> spp. | Hawkweed | Épervière |

| Family | Genus or Species | Common Name | |
|--------------|--------------------------------|---------------------------------|--|
| | | English | French |
| Asteraceae | <i>Hypochaeris radicata</i> | Spotted cat's ear | Porcelle enracinée |
| Asteraceae | <i>Iva axillaris</i> | Povertyweed | Ive à fleurs axillaires |
| Asteraceae | <i>Lactuca serriola</i> | Prickly lettuce | Laitue scariole |
| Asteraceae | <i>Lactuca tatarica</i> | Blue lettuce | Laitue bleue, laitue de Tartarie |
| Asteraceae | <i>Lapsana communis</i> | Nipplewort | Lapsane commune |
| Asteraceae | <i>Matricaria discoidea</i> | Pineappleweed | Matricaire odorante |
| Asteraceae | <i>Picris echioides</i> | Bristly oxtongue | Picride fausse-vipérine |
| Asteraceae | <i>Rudbeckia hirta</i> | Black-eyed Susan | Rudbeckie hérissée |
| Asteraceae | <i>Senecio vulgaris</i> | Common groundsel | Séneçon vulgaire |
| Asteraceae | <i>Silybum marianum</i> | Milk thistle | Chardon Marie |
| Asteraceae | <i>Solidago canadensis</i> | Canada goldenrod | Verge d'or du Canada |
| Asteraceae | <i>Sonchus asper</i> | Spiny annual sow-thistle | Laiteron rude |
| Asteraceae | <i>Sonchus oleraceus</i> | Annual sow-thistle | Laiteron potager |
| Asteraceae | <i>Symphyotrichum</i> spp. | Aster | Aster |
| Asteraceae | <i>Tanacetum vulgare</i> | Tansy, Common Tansy | Tanaisie vulgaire |
| Asteraceae | <i>Tragopogon dubius</i> | Goat's beard | Salsifis majeur |
| Asteraceae | <i>Xanthium</i> spp. | Cocklebur | Lampourde |
| Boraginaceae | <i>Amsinckia</i> spp. | Fiddleneck | Amsinckie |
| Boraginaceae | <i>Borago officinalis</i> | Borage | Bourrache officinale |
| Boraginaceae | <i>Buglossoides arvensis</i> | Corn gromwell | Grémil des champs |
| Boraginaceae | <i>Cynoglossum officinale</i> | Hound's-tongue | Cynoglosse officinale |
| Boraginaceae | <i>Echium vulgare</i> | Blueweed | Vipérine commune |
| Boraginaceae | <i>Lappula squarrosa</i> | Bluebur | Bardanette épineuse |
| Boraginaceae | <i>Lithospermum officinale</i> | Pearl gromwell, common gromwell | Grémil officinal |
| Boraginaceae | <i>Myosotis arvensis</i> | Field forget-me-not | Myosotis des champs |
| Boraginaceae | <i>Plagiobothrys scouleri</i> | Scouler's popcorn-flower | Plagiobothryde de Scouler |
| Brassicaceae | <i>Camelina</i> spp. | False flax | Caméline |
| Brassicaceae | <i>Capsella bursa-pastoris</i> | Shepherd's-purse | Bourse-à-pasteur |
| Brassicaceae | <i>Conringia orientalis</i> | Hare's-ear mustard | Vélar d'Orient |
| Brassicaceae | <i>Crambe hispanica</i> | Crambe | Crambe, chou marin |
| Brassicaceae | <i>Descurainia sophia</i> | Flixweed | Sagesse-des-chirurgiens |
| Brassicaceae | <i>Diplotaxis</i> spp. | Wall rocket | Diplotaxe |
| Brassicaceae | <i>Eruca vesicaria</i> | Garden rocket | Roquette |
| Brassicaceae | <i>Erysimum cheiranthoides</i> | Wormseed mustard | Vélar fausse-girolée |
| Brassicaceae | <i>Lepidium densiflorum</i> | Common pepper-grass | Lépidie densiflore, passage densiflore |
| Brassicaceae | <i>Neslia paniculata</i> | Ball mustard | Neslie paniculée |
| Brassicaceae | <i>Rorippa</i> spp. | Cress | Rorippe, cresson |
| Brassicaceae | <i>Sisymbrium altissimum</i> | Tumble mustard | Sisymbre élevé |
| Brassicaceae | <i>Turritis glabra</i> | Tower mustard | Arabette glabre, tourette glabre |

| Family | Genus or Species | Common Name | |
|-----------------|---|--|--|
| | | English | French |
| Caryophyllaceae | <i>Agrostemma githago</i> | Purple cockle | Nielle, nielle des blés |
| Caryophyllaceae | <i>Silene antirrhina</i> | Sleepy catchfly | Silène muflier |
| Caryophyllaceae | <i>Silene dichotoma</i> | Forked catchfly | Silène fourchu |
| Caryophyllaceae | <i>Spergula arvensis</i> | Corn spurry | Spargoute des champs |
| Chenopodiaceae | <i>Atriplex</i> spp. | Orach | Arroche |
| Chenopodiaceae | <i>Axyris amaranthoides</i> | Russian pigweed | Ansérine de Russie |
| Chenopodiaceae | <i>Bassia scoparia</i> | Kochia | Kochia à balais |
| Chenopodiaceae | <i>Chenopodium album</i> | Lamb's-quarters | Chénopode blanc, chou gras |
| Chenopodiaceae | <i>Chenopodium quinoa</i> | Quinoa | Quinoa |
| Chenopodiaceae | <i>Salsola tragus</i> | Russian thistle | Soude roulante |
| Cyperaceae | <i>Carex</i> spp. | Sedge | Carex, laïche |
| Cyperaceae | <i>Cyperus esculentus</i> | Yellow nut sedge | Souchet comestible |
| Cyperaceae | <i>Eleocharis</i> spp. | Spikerush | Éléocharide |
| Euphorbiaceae | <i>Acalypha virginica</i> | Three-seeded mercury | Ricinelle rhomboïde |
| Euphorbiaceae | <i>Euphorbia cyparissias</i> | Cypress spurge | Euphorbe cyprès |
| Euphorbiaceae | <i>Euphorbia dentata</i> | Dentate spurge | Euphorbe à feuilles dentées |
| Euphorbiaceae | <i>Euphorbia maculata</i> | Hairy-fruited spurge | Euphorbe tachetée |
| Fabaceae | <i>Astragalus miser</i> | Timber milk-vetch | Astragale prostré |
| Fabaceae | <i>Astragalus bisulcatus</i> | Two-grooved milk-vetch | Astragale à deux sillons |
| Fabaceae | <i>Lotus uliginosus</i> | Big trefoil, Greater bird's foot trefoil | Lotier des marais |
| Fabaceae | <i>Melilotus indicus</i> | Annual yellow sweet-clover, Sour clover | Ménilot à petites fleurs, ménilot d'Inde |
| Fabaceae | <i>Trifolium vesiculosum</i> | Arrowleaf clover | Trèfle renflé en vessie |
| Fabaceae | <i>Vicia cracca</i> (subsp. <i>cracca</i>) | Tufted vetch | Vesce jargeau |
| Fabaceae | <i>Vicia sativa</i> subsp. <i>nigra</i> | Narrow-leaved vetch | Vesce noire |
| Geraniaceae | <i>Erodium cicutarium</i> | Stork's bill | Érodium cicutaire |
| Geraniaceae | <i>Geranium</i> spp. | Geranium | Géranium |
| Hypericaceae | <i>Hypericum perforatum</i> | St. John's-wort | Millepertuis commun |
| Iridaceae | <i>Sisyrinchium angustifolium</i> | Blue-eyed-grass | Bermudienne à feuilles étroites |
| Juncaceae | <i>Juncus</i> spp. | Rush | Jonc |
| Lamiaceae | <i>Lamium amplexicaule</i> | Henbit | Lamier amplexicaule |
| Lamiaceae | <i>Mentha</i> spp. | Mint | Menthe |
| Lamiaceae | <i>Nepeta cataria</i> | Catnip | Herbe à chat, cataire |
| Lamiaceae | <i>Dracocephalum parviflorum</i> | American dragonhead | Dracocéphale d'Amérique |
| Lamiaceae | <i>Galeopsis tetrahit</i> | Hemp-nettle | Ortie royale, galéopside à tige carrée |
| Lamiaceae | <i>Scutellaria</i> spp. | Skullcap | Scutellaire |
| Lamiaceae | <i>Stachys palustris</i> | Marsh hedge-nettle | Épiaire des marais |
| Malvaceae | <i>Hibiscus trionum</i> | Flower-of-an-hour | Ketmie trilobée |

| Family | Genus or Species | Common Name | |
|----------------|--|--------------------------------|------------------------------------|
| | | English | French |
| Malvaceae | <i>Malva pusilla</i> | Round-leaved mallow | Mauve à feuilles rondes |
| Malvaceae | <i>Malva</i> spp. | Mallow | Mauve |
| Malvaceae | <i>Malva parviflora</i> | Small-flowered mallow | Mauve parviflore |
| Melanthiaceae | <i>Toxicoscordion venenosum</i> | Death camas | Zigadène vénéneux |
| Onagraceae | <i>Oenothera biennis</i> | Yellow evening-primrose | Onagre bisannuelle |
| Oxalidaceae | <i>Oxalis stricta</i> | European wood-sorrel | Oxalide d'Europe, oxalide dressée |
| Papaveraceae | <i>Papaver somniferum</i> | Opium poppy | Pavot à opium, pavot somnifère |
| Papaveraceae | <i>Papaver rhoeas</i> | Corn poppy | Pavot coquelicot, grand coquelicot |
| Plantaginaceae | <i>Plantago aristata</i> | Bracted plantain | Plantain aristé |
| Plantaginaceae | <i>Plantago major</i> | Broad-leaved plantain | Plantain majeur |
| Plantaginaceae | <i>Plantago rugelii</i> | Rugel's plantain | Plantain de Rugel |
| Plantaginaceae | <i>Plantago virginica</i> | Paleseed plantain | Plantain de Virginie |
| Poaceae | <i>Achnatherum hymenoides</i> | Indian ricegrass | Stipe à glumes membraneuses |
| Poaceae | <i>Agrostis scabra</i> | Tickle grass, Rough hair grass | Agrostide scabre |
| Poaceae | <i>Alopecurus geniculatus</i> | Water foxtail | Vulpin géniculé |
| Poaceae | <i>Anthoxanthum odoratum</i> | Sweet vernalgrass | Flouve odorante |
| Poaceae | <i>Apera spica-venti</i> | Silky bent grass | Agrostide jouet-du-vent |
| Poaceae | <i>Beckmannia syzigachne</i> | Sloughgrass | Beckmannie à écailles unies |
| Poaceae | <i>Bouteloua gracilis</i> | Blue grama | Boutelou gracieux |
| Poaceae | <i>Bromus hordeaceus</i> | Soft chess | Brome mou |
| Poaceae | <i>Bromus diandrus</i> | Giant brome | Brome à deux étamines |
| Poaceae | <i>Cynodon dactylon</i> | Bermuda grass | Chiendent pied-de-poule |
| Poaceae | <i>Danthonia spicata</i> | Poverty oat grass | Danthonie à épi |
| Poaceae | <i>Deschampsia cespitosa</i> | Tufted hairgrass | Canche cespitose |
| Poaceae | <i>Echinochloa crus-galli</i> | Barnyard grass | Échinochloa pied-de-coq |
| Poaceae | <i>Elymus virginicus</i> | Virginia wildrye | Élyme de Virginie |
| Poaceae | <i>Eragrostis</i> spp. | Lovegrass | Éragrostide |
| Poaceae | <i>Glyceria</i> spp. | Manna grass | Glycérie |
| Poaceae | <i>Holcus lanatus</i> | Velvet grass | Houlque laineuse |
| Poaceae | <i>Hordeum jubatum</i> | Foxtail barley | Orge queue-d'écureuil |
| Poaceae | <i>Koeleria macrantha</i> | Junegrass | Kœlérie grêle |
| Poaceae | <i>Lolium temulentum</i> | Darnel | Ivraie enivrante |
| Poaceae | <i>Nassella viridula</i> | Green needlegrass | Stipe verte |
| Poaceae | <i>Poa alpina</i> | Alpine bluegrass | Pâturin alpin |
| Poaceae | <i>Poa bulbosa</i> | Bulbous blue grass | Pâturin bulbeux |
| Poaceae | <i>Schizachyrium scoparium</i> | Little bluestem | Barbon à balais |
| Poaceae | <i>Setaria italica</i> subsp. <i>viridis</i> | Green foxtail | Sétaire verte |

| Family | Genus or Species | Common Name | |
|------------------|---|--------------------------|-----------------------------------|
| | | English | French |
| Poaceae | <i>Setaria pumila</i> subsp. <i>pumila</i> | Yellow foxtail | Sétaire glauque |
| Poaceae | <i>Ventenata dubia</i> | Soft ventgrass | Venténate douteuse |
| Poaceae | <i>Vulpia</i> spp. | Vulpia | Vulpie |
| Polygonaceae | <i>Fallopia convolvulus</i> | Wild buckwheat | Renouée liseron |
| Polygonaceae | <i>Persicaria maculosa</i> | Lady's-thumb | Renouée persicaire |
| Polygonaceae | <i>Persicaria lapathifolia</i> | Pale smartweed | Persicaire pâle |
| Polygonaceae | <i>Polygonum aviculare</i> | Prostrate knotweed | Renouée des oiseaux |
| Polygonaceae | <i>Rumex acetosella</i> | Sheep sorrel | Petite oseille |
| Polygonaceae | <i>Rumex maritimus</i> | Golden dock | Patience maritime, rumex maritime |
| Portulacaceae | <i>Portulaca oleracea</i> | Purslane | Pourpier potager |
| Primulaceae | <i>Anagallis arvensis</i> | Scarlet pimpernel | Mouron rouge |
| Ranunculaceae | <i>Ranunculus acris</i> | Tall buttercup | Renoncule âcre, bouton d'or |
| Ranunculaceae | <i>Ranunculus repens</i> | Creeping buttercup | Renoncule rampante |
| Rosaceae | <i>Potentilla</i> spp. | Cinquefoil | Potentille |
| Rosaceae | <i>Geum</i> spp. | Avens | Benoîte |
| Rosaceae | <i>Rosa</i> spp. | Wild rose | Rosier sauvage |
| Rosaceae | <i>Rubus</i> spp. | Raspberry | Framboisier |
| Rubiaceae | <i>Galium boreale</i> | Northern bedstraw | Gaillet boréal |
| Rubiaceae | <i>Sherardia arvensis</i> | Field madder | Shérardie des champs |
| Sarcobataceae | <i>Sarcobatus vermiculatus</i> | Greasewood | Sarcobate vermiculé |
| Scrophulariaceae | <i>Verbascum thapsus</i> | Common mullein | Grande molène |
| Solanaceae | <i>Physalis</i> spp. | Ground-cherry | Coqueret |
| Solanaceae | <i>Solanum ptychanthum</i> | Eastern black nightshade | Morelle noire de l'Est |
| Urticaceae | <i>Urtica</i> spp. | Nettle | Ortie |
| Verbenaceae | <i>Verbena</i> spp. | Vervain | Verveine |
| Violaceae | <i>Viola</i> spp. | Violet | Violette |