



Agriculture
Canada

Poisonous Plants OF CANADA



Cover illustration

The design represents leaves of poison-ivy, poison-oak, and poison sumac.

Poisonous Plants OF CANADA

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CONTENTS

Acknowledgments 3

Introduction 7

Alphabetical listing by botanical names 10

Aceraceae	maple family	10
Amaranthaceae	amaranth family	10
Amaryllidaceae	amaryllis family	10
Anacardiaceae	cashew family	11
Annonaceae	custard-apple family	12
Apocynaceae	dogbane family	12
Aquifoliaceae	holly family	13
Araceae	arum family	14
Araliaceae	aralia family	16
Aristolochiaceae	birthwort family	16
Asclepiadaceae	milkweed family	16
Berberidaceae	barberry family	17
Boraginaceae	borage family	17
Campanulaceae	bellflower family	18
Caprifoliaceae	honeysuckle family	18
Caryophyllaceae	pink family	19
Celastraceae	stafftree family	19
Chenopodiaceae	goosefoot family	20
Compositae	composite family	21
Cruciferae	mustard family	24
Equisetaceae	horsetail family	25
Ericaceae	heath family	26
Euphorbiaceae	spurge family	27
Fagaceae	beech family	28
Fumariaceae	fumitory family	28
Ginkgoaceae	ginkgo family	29
Gramineae	grass family	29
Guttiferae	St. John's-wort family	29
Hippocastanaceae	horse-chestnut family	30
Hydrophyllaceae	waterleaf family	30
Iridaceae	iris family	30
Juncaginaceae	arrow-grass family	30
Labiatae	mint family	31
Leguminosae	pea family	31
Liliaceae	lily family	34
Loranthaceae	mistletoe family	37
Menispermaceae	moonseed family	37
Moraceae	mulberry family	37
Oleaceae	olive family	37
Orchidaceae	orchid family	38

Papaveraceae	poppy family	38
Phytolaccaceae	pokeweed family	39
Pinaceae	pine family	39
Polygonaceae	buckwheat family	39
Polypodiaceae	fern family	40
Primulaceae	primrose family	41
Ranunculaceae	crowfoot family	41
Rhamnaceae	buckthorn family	42
Rosaceae	rose family	42
Rutaceae	rue family	43
Saxifragaceae	saxifrage family	43
Scrophulariaceae	figwort family	43
Simaroubaceae	quassia family	44
Solanaceae	nightshade family	44
Taxaceae	yew family	46
Thymelaeaceae	mezereum family	46
Umbelliferae	parsley family	47
Urticaceae	nettle family	48
Vitaceae	grape family	49

Appendix 1. Canadian plants poisonous to humans 51

Appendix 2. Canadian plants poisonous to animals 55

Bibliography 59

Index to common names 83

Index to botanical names 93

INTRODUCTION

This publication contains documented evidence on all the native, naturalized, and cultivated plants of Canada that are known to have poisoned humans (Appendix 1) or animals (Appendix 2), or both. It is based on two earlier publications entitled *Vascular plants poisonous to livestock in Canada 1. A preliminary inventory* (Mulligan and Munro 1983) and *Wild and cultivated plants poisonous to Humans in Canada: A preliminary inventory* (Mulligan and Munro 1984). Suggestions and corrections sent to us as the result of these publications and additional information subsequently gathered from the literature have been included.

Much confusion exists as to which plants can cause poisoning to humans and animals in Canada. Some general publications dealing with poisonous plants either perpetuate erroneous information, or do not cite source data, or do not differentiate between plants causing serious poisonings and those responsible for minor or dubious poisonings. The most comprehensive and accurate sources of information on plant poisoning are Muenscher (1951, 1975), Kingsbury (1964), Hardin and Arena (1974), Kinghorn (1977), Keeler et al. (1978), Frohne and Pfänder (1983), Keeler and Tu (1983), Cooper and Johnson (1984), Lampe and McCann (1985), and James et al. (1988). Additional information on poisonous plants in Canada is included in Fyles (1920), Thomson and Sifton (1922), Bruce (1927), Montgomery et al. (1955), Campbell et al. (1956), McLean and Nicholson (1958), Johnston et al. (1965), Lodge et al. (1968), Johnston et al. (1975), Lamoureux et al. (1975), Fleurbec (1978, 1981, 1983, 1987), McIntosh (1980), Agriculture Alberta (1983), Looman et al. (1983) and Frankton and Mulligan (1987). Many plants and plant products, when they are handled over a long time, cause dermatitis in a small percentage of people. Only the most important of these plant are mentioned here; a comprehensive account of them appears in *Botanical dermatology* (Mitchell and Rook 1979). We have also excluded, from this publication, plants that cause injuries because of barbs and spines, poisonous blue-green algae, and plant products or plants (such as sweetclovers, *Melilotus* spp.) that produce toxic substances because of the actions of microorganisms. Plants causing hay fever are listed in Bassett et al. (1978).

Plant-induced poisoning occurs when one or more chemicals present in a plant produce an undesirable physiological response in an individual. The occurrence of poisoning by a particular plant species often varies. Some species of plants are toxic only at certain stages of their life cycle, whereas others are most toxic during only one part of the growing season. In some cases the entire plant is toxic but in others only the leaves, seeds, or seedlings contain toxic ingredients. Some plants cause poisoning only when toxic elements, such as selenium, occur in the soil. Other plants may lose their toxins upon drying. Some toxins are so potent that a single mouthful of the plants

can rapidly cause death. Other toxins are cumulative, the effects only becoming evident when the material is consumed over a long period. Many poisonous plants are distinctly unpalatable and are eaten by animals only in times of extreme drought or under other conditions when normal forages are scarce or absent. Severe poisonings of humans also occur under very unusual circumstances, when people eat, over an extended period, large quantities of normally nonpoisonous plants.

The metabolism of individuals and their ages also determine the degree of plant toxicity. Some humans and animals are highly allergic to a given plant whereas others are immune or only mildly susceptible. Children and young animals generally are poisoned by a smaller amount of toxic principle.

Several broad classes of chemicals are responsible for the toxic reactions caused by plants. Organic toxins include alkaloids, glucosides, oxalic acid, and resinoids. In addition, inorganic toxins such as molybdenum, nitrates, and selenium, taken up from the soil by some plants, can accumulate in plant tissue to toxic levels. Some plants contain substances that can cause photosensitization in humans and animals. Plant poisons can cause short-term illness, violent sickness, or death. Some plants are suspected of containing carcinogens.

Many poisonings of humans are caused by house plants, cultivated garden plants, and ornamentals. However, some are attributable to native or naturalized plants. Most poisonings of animals are caused by plants native or naturalized in Canada. The most commonly reported plant poisonings of humans result from curious children eating fruits and plant fragments.

A review of the available literature has shown that problems exist for doctors, nurses, and veterinarians who have to diagnose and treat cases of plant-induced poisoning in Canada. The initial problem is in determining whether the symptoms are indeed caused by plant toxins. The second is in acquiring a positive identification of the plant involved. In addition, well-documented literature is often not available on previous cases of poisoning and treatment. Regional poison-control centres across Canada are the best sources of information on plants poisonous to humans. Information on livestock poisoning can be obtained from federal and provincial agencies and from many universities and colleges.

When obtaining plant material for identification purposes, try to collect fresh leaves, branches, flowers, and fruits. Dry the plant material in a press or put the plants in newspaper and press under books or bricks in a warm dry place. Provide information on the habitat of the plants, the location and the date of the collection, symptoms of poisoning, and any other data that seem relevant. However, the urgency of the situation may require you to submit fragmentary material for identification. Plant identifications are available from federal and provincial agencies and from the biology departments of most universities and colleges.

Families, genera within each family, and species under each genus are listed alphabetically by botanical names. Common English and French names are taken, whenever possible, from *Common and botanical names of weeds in Canada/Noms populaires et scientifiques des plantes nuisibles du Canada* (Alex et al. 1980) and *Flore Laurentienne* (Marie-Victorin 1964). Additional French names of cultivated plants come from *Noms des maladies des plantes du Canada/Names of plant diseases in Canada* (Agriculture Quebec 1975) and from *A dictionary of plant names* (Van Wijk 1911). Local names of common plants may vary. The general distributions are according to Boivin (1966, 1967), except where more recent information was available. If a province or territory is identified in parentheses, the occurrence of the plant in that area has not been confirmed.

ALPHABETICAL LISTING BY BOTANICAL NAMES

ACERACEAE maple family

Acer rubrum L.

red maple/érable rouge

Native and cultivated in Nfld., N.S., N.B., Que., and Ont.

Humans No information on poisoning.

Animals Signs of acute hemolytic anemia appeared in four adult horses 3 to 4 days after the ingestion of wilted leaves from cut trees (Divers et al. 1982).

AMARANTHACEAE amaranth family

Amaranthus blitoides S. Wats. (= *A. graecizans* L.)

prostrate pigweed/amarante fausse-blite

Naturalized in southwestern Que., Ont., Man., Sask., Alta., and B.C.

Amaranthus hybridus L.

smooth pigweed/amarante hybride

Naturalized in southern Ont.

Amaranthus retroflexus L.

redroot pigweed/amarante à racine rouge

Naturalized in Mackenzie Dist., N.S., P.E.I., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans No information.

Animals Poisoning and death of pigs and cattle have occurred after ingestion of these three species of *Amaranthus* (Gilbert et al. 1946, Whitehead and Moxon 1952, Buck et al. 1966, Osweiler et al. 1969, Duckworth 1975, Stuart et al. 1975, Hogg and Hibbs 1976, Weaver and McWilliams 1980).

AMARYLLIDACEAE amaryllis family

Amaryllis belladonna L.

amaryllis

Ornamental, usually indoors in our climate.

Amaryllis vittata Ait.

amaryllis

Indoor ornamental.

Humans Recent evidence shows that rare poisonings are because of low concentrations of toxic alkaloids in the bulbs (Morton 1962, Lewis and Elvin-Lewis 1977, Frohne and Pfänder 1983, Lampe and McCann 1985).

Animals No information.

Clivia spp.

Kaffir lily/clivies

House plants.

Humans Poisonings are uncommon because of small concentrations of toxic alkaloids in the plants (Frohne and Pfänder 1983, Lampe and McCann 1985).

Animals No information.

Galanthus nivalis L.

snowdrop/perce-neige

Outdoor ornamental.

Humans Poisonings are rare because of small concentrations of toxic alkaloids in the plants (Lampe and McCann 1985).

Animals No information.

Narcissus poeticus L.

narcissus/narcisse

Indoor and outdoor ornamental.

Narcissus pseudonarcissus L.

daffodil/jonquille

Indoor and outdoor ornamental.

Humans Accidental ingestion of bulbs has produced several hours of severe discomfort. Handling large quantities of bulbs causes a dermatitis in some individuals (Wilson 1924, Muenscher 1951, Litovitz and Fahey 1982, Concalo et al. 1987).

Animals No information.

ANACARDIACEAE cashew family

Rhus diversiloba Torr. & Gray

western poison-oak/sumac de l'Ouest

Native shrub in southwestern B.C.

Rhus radicans L. var. *negundo* (Greene) G.A. Mulligan

poison-ivy/herbe à la puce

Native shrub or climbing vine in southern Que. and southern Ont.

Rhus radicans L. var. *radicans*

eastern poison-ivy/herbe à la puce de l'Est

Native shrub or climbing vine in southern N.S., P.E.I., and southern N.B.

Rhus radicans L. var. *rydbergii* (Small ex Rydb.) Rehder

Rydberg's poison-ivy/herbe à la puce de Rydberg

Native shrub or vine in N.S., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Rhus vernix L.

poison sumac/sumac à vernis

Small native tree in southern Que. and southern Ont.

Humans Sap from most plant parts produces an irritating dermatitis after an initial sensitization. In severe cases, death has occurred (McNair 1921, 1923, Krause and Weidman 1925, Shelmire 1941, Harlow 1946, Campagne 1949, Symes and Dawson 1954, Gaillard 1956, Loev and Dawson 1956, Epstein 1958, Kligman 1958, Klingman 1963, Mulligan and Junkins 1977, Guin 1980, Mulligan 1980a, Epstein and Byers 1981, Koch and Leon 1981, Polk 1981, Schwartz and Downham 1981).

Animals No information.

ANNONACEAE custard-apple family

Asimina triloba (L.) Dunal

pawpaw/asiminier trilobé

Native tree in southwestern Ont.

Humans Contact dermatitis and severe gastrointestinal symptoms have occurred after the ingestion of fruits (Barber 1905).

Animals No information.

APOCYNACEAE dogbane family

Allamanda cathartica L.

golden-trumpet/trompette dorée

Indoor ornamental climber.

Humans Weak evidence exists that the fruit is poisonous (Kingsbury 1964).

Animals No information.

Apocynum androsaemifolium L.

spreading dogbane/apocyn à feuilles d'androsème

Native herb in Mackenzie Dist., Nfld., P.E.I., N.S., N.B., Que., Man., Sask., Alta., and B.C.

Humans Sickness and death have resulted from its use for medicinal purposes (Fleurbec 1981).

Animals Toxic to livestock when other forage is scarce (Muenscher 1975).

Apocynum cannabinum L.

hemp dogbane/apocyn chanvrin

Native herb in Mackenzie Dist., Nfld., N.S., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans Sickness and death have resulted from its use for medicinal purposes (Fleurbec 1981).

Animals Toxic to all types of livestock, especially sheep, when normal forage is scarce (Muenscher 1975, Schuster and James 1988).

Nerium oleander L.

oleander/laurier rose

Ornamental shrub.

Humans Poisoning and death have occurred. Cases of dermatitis have been reported (Halstead 1899, Kingsbury 1964, Der Marderosian et al. 1976, Lewis and Elvin-Lewis 1977, Shaw and Pearn 1979, Frohne and Pfänder 1983).

Animals No information.

AQUIFOLIACEAE holly family

Ilex opaca Ait.

American holly/houx d'Amérique

Ornamental under our conditions.

Humans The only documented case of poisoning is a mild one that occurred after two young children ate "a handful" of berries (Rodrigues et al. 1984).

Animals No information.

ARACEAE arum family

Anthurium spp.
anthurium

House plant in our area.

Humans Calcium oxalate raphides (needle-shaped crystals) in leaves and stems are injurious (Frohne and Pfänder 1983, Lampe and McCann 1985).

Animals No information.

Arisaema triphyllum (L.) Torr.
Jack-in-the-pulpit/petit-prêcheur

Native herb in N.S., P.E.I., N.B., Que., Ont., and southern Man.

Humans An intense burning sensation is produced in the throat and mouth if rhizome is eaten (Muenscher 1951, Kingsbury 1964, Lampe and McCann 1985).

Animals No information.

Caladium bicolor (Ait.) Vent.
caladium

House plant in our area.

Humans Calcium oxalate raphides in leaves and stems are injurious (Frohne and Pfänder 1983, Lampe and McCann 1985).

Animals No information.

Calla palustris L.
wild calla/calla des marais

Native herb in Mackenzie Dist., Nfld., N.S., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans The whole plant, particularly the root, contains injurious calcium oxalate raphides (Frohne and Pfänder 1983, Lampe and McCann 1985).

Animals No information.

Dieffenbachia amoena Gentil
giant dumbcane/arum vénéneux

Indoor ornamental.

Dieffenbachia bausei Regel
dumbcane/dieffenbachia

Indoor ornamental.

Dieffenbachia picta Schott
spotted dumbcane/dieffenbachia tachetée
Indoor ornamental.

Humans Sickness and irritation of the mouth result from ingestion of leaves and stems. The name dumbcane refers to the temporary paralysis of throat muscles caused by calcium oxalate raphides (Barnes and Fox 1955, Pohl 1961, O'Leary and Hyattsville 1964, Walter and Khanna 1972, Der Marderosian et al. 1976, Lampe 1978, Arditti and Rodriguez 1982, Frohne and Pfänder 1983, Lampe and McCann 1985).

Animals No information.

Monstera deliciosa Liebm.
Swiss-cheese plant/philodendron monstéra
Indoor ornamental climber.

Humans Severe irritation and allergic reaction occur after ingestion of leaves and stems (Webb 1948, Der Marderosian et al. 1976, Lewis and Elvin-Lewis 1977).

Animals No information.

Philodendron spp.
philodendrons
Popular house plant.

Humans Raphides of calcium oxalate cause painful burning of lips, tongue, and throat. Because of the rapid onset of pain, plant material is rarely swallowed. Philodendrons also can cause a dermatitis on the skin of some individuals (Ayres and Ayres 1958, Dorsey 1958, Frohne and Pfänder 1983, Lampe and McCann 1985).

Animals No information.

Symplocarpus foetidus (L.) Nutt.
skunk cabbage/chou puant
Native herb in N.S., N.B., Que., and Ont.

Humans Raphides of calcium oxalate cause irritation of lips and oral cavity when leaves are chewed (Lampe and McCann 1985).

Animals No information.

ARALIACEAE aralia family

Hedera helix L.

English ivy/lierre commun

Outdoor and indoor ornamental vine.

Humans Poisoning after ingesting leaves and berries has been reported but none of the reports are recent. Some individuals develop a severe dermatitis after handling leaves (Muenscher 1951, Goldman et al. 1956, Kingsbury 1964, Forsyth 1968, Frohne and Pfänder 1983, Cooper and Johnson 1984, Boyle and Harman 1985, Hausen et al. 1987, Massmanian et al. 1988).

Animals No information.

ARISTOLOCHIACEAE birthwort family

Asarum canadense L.

wild ginger/asaret du Canada

Native herb in N.B., Que., Ont., and southern Man.

Humans A few cases are documented of dermatitis after handling leaves (Muenscher 1951).

Animals No information.

ASCLEPIADACEAE milkweed family

Asclepias speciosa Torr.

showy milkweed/belle asclépiade

Native herb in southern Man., Sask., Alta., and B.C.

Asclepias syriaca L.

common milkweed/asclépiade de Syrie

Native herb in N.S., P.E.I., N.B., Que., Ont., and southern Man.

Asclepias verticillata L.

eastern whorled milkweed/asclépiade verticillée

Native herb in southwestern Ont., Man., and southeastern Sask.

Humans No information.

Animals Some poisonings and death of sheep and cattle are reported. However, livestock usually avoid eating milkweeds (Fleming et al. 1920a, Marsh and Clawson 1921, Reynard and Norton 1942, Clark 1979, Seiber et al. 1983).

BERBERIDACEAE barberry family

Caulophyllum thalictroides (L.) Michaux

blue cohosh/graines à chapelet

Native herb in N.S., N.B., Que., Ont., and Man.

Humans Berries and roots are cytotoxic (Lampe and McCann 1985).

Animals No information.

Podophyllum peltatum L.

May-apple/podophylle pelté

Native herb in N.S., southwestern Que., and southern Ont.

Humans One case is recorded of poisoning from young shoots; fruits can cause catharsis (Millspaugh 1887, Kaymakcalan 1964, Kingsbury 1964, Der Marderosian et al. 1976).

Animals Poisoning and death of pigs and poisoning of cattle are reported (McIntosh 1928, Hansen 1930).

BORAGINACEAE borage family

Amsinkia intermedia Fisch. & Mey. (= *A. menziesii* (Lem.) Nels. & Macbr.)

fiddleneck

Native herb in Y.T., Man., Sask., Alta., and B.C.

Humans No information.

Animals Poisoning and death of cattle, horses, and pigs are reported (Kalkus et al. 1925, McCulloch 1940, Woolsey et al. 1952, Kennedy 1957).

Cynoglossum officinale L.

hound's-tongue/cynoglosse officinale

Naturalized in N.S., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans No information.

Animals Mention is made of the death of horses after feedings of grass hay containing hound's-tongue and of cattle poisoned by grazing hound's-tongue growing on waste land (Greatorex 1966, Knight et al. 1984).

Echium vulgare L.

blueweed/vipérine

Naturalized in Nfld., N.S., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans Bristly hairs on leaves and stems can produce severe skin inflammation (Muenscher 1951, Lampe and McCann 1985).

Animals No information.

Heliotropium curassavicum L.

spatulate-leaved heliotrope/héliotrope obové de Curaçao

Native herb in southern Man., southern Sask., and southern Alta.

Humans Toxicity has occurred when used in herbal teas (Huxtable 1980).

Animals No information.

CAMPANULACEAE bellflower family

Lobelia cardinalis L.

cardinalflower/lobélie du cardinal

Native herb in N.B., Que., and Ont.

Lobelia inflata L.

Indian-tobacco/lobélie gonflée

Native herb in N.S., P.E.I., N.B., Que., Ont., and southern B.C.

Lobelia siphilitica L.

blue cardinalflower/cardinale bleue

Native herb in Ont.

Humans Sickness and death resulted when these plants were used for medicinal purposes in pioneer days (Millspaugh 1887).

Animals No information.

CAPRIFOLIACEAE honeysuckle family

Lonicera spp.

honeysuckles/chèvrefeuilles

Native, naturalized, and ornamental shrubs.

Humans Mild symptoms have been reported of feeling unwell and vomiting after ingestion (Frohne and Pfänder 1983).

Animals No information.

Sambucus spp.

elders/sureaux

Native, naturalized, and ornamental shrubs.

Humans Mild symptoms have been reported of feeling unwell and vomiting (Frohne and Pfänder 1983).

Animals No information.

Symphoricarpos albus (L.) Blake
thin-leaved snowberry/symphorine à grappes

Native shrub in Mackenzie Dist., N.S., (P.E.I.), N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans Berries are toxic if ingested in quantity. Mild symptoms are reported of feeling unwell and vomiting from other plant parts (Lewis 1979, Frohne and Pfänder 1983, Cooper and Johnson 1984, Lampe and McCann 1985).

Animals No information.

Viburnum opulus L.
Guelder-rose/obier

Outdoor ornamental shrub or small tree, sometimes naturalized.

Humans Mild symptoms are reported of feeling unwell and vomiting (Frohne and Pfänder 1983).

Animals No information.

CARYOPHYLLACEAE pink family

Agrostemma githago L.
purple cockle/nielle

Naturalized in N.S., P.E.I., (N.B.), Que., Ont., Man., Sask., and B.C.

Humans No information.

Animals Seeds have caused poisoning and death of chickens (Quigley and Waite 1931, Heuser and Schumacher 1942).

CELASTRACEAE stafftree family

Euonymus atropurpureus Jacq.
burningbush/fusain

Outdoor ornamental shrub.

Euonymus europaeus L.
European spindle tree/fusain d'Europe

Outdoor ornamental shrub.

Humans Poisoning has been reported in Europe after eating berries; recent reports are of mild symptoms (Long 1917, Frohne and Pfänder 1983).

Animals No information.

CHENOPODIACEAE goosefoot family

Bassia hysopifolia (Pall.) Ktze.

five-hooked bassia/bassia à feuilles d'hysope

Herb, naturalized in southwestern Sask., Alta., and B.C.

Humans No information.

Animals Poisoning and death of sheep are reported (James et al. 1976).

Chenopodium album L.

lamb's-quarters/chénopode blanc

Herb, naturalized in Mackenzie Dist., Y.T., Nfld., N.S., P.E.I., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans Poisoning occurred in Europe when lamb's-quarters was eaten in large quantities because of a serious shortage of food during a period of war (Cooper and Johnson 1984).

Animals Poisoning and death of cattle, horses, and pigs are reported (Gilbert et al. 1946, Whitehead and Moxon 1952, Case 1957, Buck et al. 1966, Bassett and Crompton 1978).

Kochia scoparia (L.) Schrad.

kochia/kochia à balais

Herb, naturalized in N.S., southern Que., Man., Sask., Alta., and B.C.

Humans No information.

Animals Photosensitization of cattle results in poisoning and death (Galitzer and Oehme 1978, Dickie and Berryman 1979, Dickie and James 1983, James et al. 1988).

Sarcobatus vermiculatus (Hook.) Torr.

greasewood/sarcobatus vermiculé

Native shrub in southwestern Sask., southern Alta., and southeastern B.C.

Humans No information.

Animals Poisoning and death are reported in sheep (Chesnut and Wilcox 1901, Couch 1922, Fleming et al. 1928, Marsh 1929a, Wilson 1934, Sampson and Malmsten 1935, Hershey 1945).

Suckleya suckleyana (Torr.) Rydb.

poison suckleya/suckleya

Native herb in Sask. and southeastern Alta.

Humans No information.

Animals Poisoning and death of cattle are reported (Thorp et al. 1937, Thorp and Deem 1938, Hershey 1945, Berry and Gonzales 1986).

COMPOSITAE composite family

Centaurea solstitialis L.

yellow star-thistle/centaurée du solstice

Naturalized herb in southern Ont., Man., and Sask.

Humans No information.

Animals Poisoning and death of horses are reported (Cordy 1954, Mettler and Stern 1963, Ivie and Witzel 1983).

Chrysanthemum spp.

chrysanthemums/chrysanthèmes

Indoor and outdoor ornamentals.

Humans An allergic dermatitis, affecting mainly the eye area, is an occupational hazard for those handling chrysanthemums over a long period. Similar allergic reactions develop after prolonged contact with some other Compositae. One of the authors (Mulligan) developed a sensitivity after working with *Achillea* species (yarrows) for several years. Sensitivity to one species of Compositae often results in sensitivity to other composites (Frohne and Pfänder 1983).

Animals No information.

Chrysothamnus nauseosus (Pall.) Britt.

stinking rabbitbush/bigelovie puante

Native shrub in Sask., Alta., and B.C.

Humans No information.

Animals Livestock poisoning has been reported in California (Sampson and Malmsten 1935).

Eupatorium rugosum Houtt.

white snakeroot/eupatoire rugueuse

Native herb in central N.S., N.B., Que., and Ont.

Humans Sickness and death have occurred after ingestion of milk from cows that have eaten white snakeroot. There are no recent reports of poisoning (Moseley 1906, Jordan and Harris 1909, Wolf et al. 1918, Couch 1927, Hansen 1928*a*, Couch 1933, Moseley 1941).

Animals Poisoning and death are reported in cattle, horses, sheep, and goats (Moseley 1906, Jordan and Harris 1909; Wolf et al. 1918; Hansen 1924*a*, 1925*a*; Graham and Boughton 1925; Couch 1926*a*, 1927; Hansen 1928*b*, 1928*c*; Marsh 1929*b*; Couch 1933; Moseley 1941; Doyle and Walkley 1949; Campagne 1956; Kaufmann 1982; Olson et al. 1984).

Gutierrezia sarothrae (Pursh) Britton & Rusby
broom snakeweed/gutierrezie faux-sarothra

Native perennial in Man., Sask., and Alta.

Humans No information.

Animals Cattle poisoning occurs during winter grazing when other vegetation is scarce (McDaniel and Loomis 1985, McDaniel and Sosebee 1988, Torell et al. 1988).

Helenium autumnale L.
sneezeweed/hélénie autumnale

Native herb in southern Mackenzie Dist., southwestern Que., Ont., Man., Sask., Alta., and B.C.

Helenium flexuosum Raf. (= *H. nudiflorum* Nutt.)
naked-flowered sneezeweed/hélénie nudiflore

Native herb in Que. and Ont.

Humans No information.

Animals Poisoning and death in cattle, horses, sheep, and mules are reported (Phares 1889, Pammel 1917*a*, Hansen 1924*b*, Ivie and Witzel 1983).

Hymenoxys richardsonii (Hook.) Cockerell
Colorado rubberweed/hyménoxys de Richardson

Native herb in southern Sask. and southern Alta.

Humans No information.

Animals Poisoning and death of sheep and to a lesser extent goats and cattle are reported (Marsh 1929*a*, Parker 1936, Aanes 1961, Ivie and Witzel 1983, Elissalde and Ivie 1987).

Iva xanthifolia Nutt.

false ragweed/fausse herbe à poux

Native herb in N.S., P.E.I., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans Contact with leaves can cause dermatitis in some individuals (Muenscher 1951).

Animals No information.

Lactuca scariola L.

prickly lettuce/laitue scariole

Naturalized herb in N.S., P.E.I., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans No information.

Animals Rare poisoning of cattle is reported (Beath et al. 1953).

Rudbeckia laciniata L.

cut-leaved coneflower/rudbeckie laciniée

Native, naturalized, and cultivated herb in N.S., P.E.I., N.B., Que., Ont., and southern Man.

Humans No information.

Animals Poisoning and death of pigs, sheep, and horses are reported (Anonymous 1874, Chesnut and Wilcox 1901, Pammel 1928, Skidmore and Peterson 1932).

Rudbeckia serotina Nutt.

black-eyed Susan/rudbeckie hérissée

Native herb, often weedy in artificial habitats in Nfld., P.E.I., N.S., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans No information.

Animals Ingestion of large quantities can cause severe poisoning (Fleurbec 1983).

Senecio jacobaea L.

tansy ragwort/séneçon jacobée

Naturalized herb in Nfld., N.S., P.E.I., N.B., Que., Ont., and B.C.

Humans Toxicity has resulted from use in herbal teas (Lampe and McCann 1985).

Animals Poisoning and death of cattle, sheep, and horses are reported. Animals usually avoid grazing tansy ragwort (Pethick 1921, Clawson 1933a, Donald and Shanks 1956, Cooper and Johnson 1984,

Lampe and McCann 1985, Ralphs and Sharp 1988, Sharrow et al. 1988).

Senecio vulgaris L.

common groundsel/séneçon vulgaire

Naturalized herb in Mackenzie Dist., (Y.T.), Nfld., P.E.I., N.S., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans No information.

Animals Sickness and death of horses fed hay contaminated with about 25 percent of common groundsel (Lessard et al. 1986).

Solidago mollis Bartl.

velvety goldenrod/verge d'or veloutée

Native herb in southern Man., Sask., and Alta.

Humans No information.

Animals Occasional death of livestock is reported (Beath et al. 1953).

Xanthium strumarium L.

cocklebur/lampourde glouteron

Naturalized herb in N.S., P.E.I., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans No information.

Animals Poisoning of cattle, sheep, horses, and swine is reported. Other species of cocklebur are also poisonous (Marsh et al. 1923*b*, 1924, Hansen 1925*a*, 1928*d*, Forrest 1938, Reynard and Norton 1942, Löve and Dansereau 1959, Martin et al. 1986, Schuster and James 1988).

CRUCIFERAE mustard family

Barbarea vulgaris R. Br.

yellow rocket/barbarée vulgaire

Naturalized herb in Mackenzie Dist., Y.T., Nfld., N.S., P.E.I., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans No information.

Animals One unusual case of poisoning of a horse is reported (Hansen 1930).

Descurainia pinnata (Walt.) Britt.

green tansy mustard/moutarde tanaïsie verte

Native herb in Mackenzie Dist., Que., Ont., Man., Sask., Alta., and B.C.

Humans No information.

Animals Poisoning and death are reported of cattle foraging almost exclusively on green tansy mustard (Hershey 1945, Staley 1976).

Sinapis arvensis L. (= *Brassica kaber* (DC.) L.C. Wheeler var. *pinnatifida* (Stokes) L.C. Wheeler)
wild mustard/moutarde des champs

Naturalized herb in Mackenzie Dist., Y.T., Nfld., N.S., P.E.I., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans No information.

Animals Occasional poisoning and death are reported of cattle, chickens, horses, and swine, mostly after eating large quantities of the plant or seed (Thomson and Sifton 1922, Gwatkin and Moynihan 1943, Mulligan and Bailey 1975, Cooper and Johnson 1984).

Thlaspi arvense L.
stinkweed/tabouret des champs

Naturalized herb in Mackenzie Dist., Nfld., P.E.I., N.S., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans No information.

Animals Poisoning and death have occurred of cattle fed hay contaminated with 25 percent or more stinkweed. Photosensitization may also occur (Martin and Morgan 1987, Smith and Crowe 1987).

EQUISETACEAE horsetail family

Equisetum arvense L.
field horsetail/prêle des champs

Native herb in Keewatin and Mackenzie Dists., Y.T., Nfld., N.S., P.E.I., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Equisetum palustre L.
marsh horsetail/prêle des marais

Native herb in Mackenzie Dist., Y.T., Nfld., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans No information.

Animals Sickness and death in horses, sheep, and rarely cattle are reported (Rich and Jones 1902, Güssow 1912, Bruce 1927, Campagne 1956, McLean and Nicholson 1958, Cody and Wagner 1981, Cooper and Johnson 1984).

ERICACEAE heath family

Kalmia angustifolia L.

sheep-laurel/kalmia à feuilles étroites

Native shrub in Nfld., N.S., P.E.I., N.B., Que., and Ont.

Kalmia polifolia Wang.

bog-laurel/kalmia à feuilles d'andromède

Native shrub in Keewatin and Mackenzie Dists., Y.T., Nfld., N.S., P.E.I., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans No information.

Animals Poisoning and death of cattle, sheep, goats, and horses are reported (Marsh and Clawson 1930a, Clawson 1933b, Sampson and Malmsten 1935, Waud 1940, Pritchard 1956).

Menziesia ferruginea Sm.

western minniebush/menziézie ferrugineuse

Native shrub in Alta. and B.C.

Humans No information.

Animals Poisoning and death of sheep are reported (Marsh 1914, 1929a).

Rhododendron albiflorum Hook.

white rose-bay/azalée blanche

Native shrub in western Alta. and B.C.

Rhododendron macrophyllum D. Don ex G. Don

California rose-bay/rhododendron de Californie

Native shrub in southwestern B.C.

Rhododendron spp.

azaleas/rhododendrons

Native and ornamental shrubs.

Humans Serious intoxications have occurred after children have eaten leaves or flowers (Leach 1966, 1967; McGee 1973; Hardin and Arena 1974; Cooper and Johnson 1984; Lampe and McCann 1985; Fleurbec 1987).

Animals Losses of livestock after eating white rose-bay or California rose-bay are reported (Marsh 1929a, Gilfillan and Otsuki 1938, Knight 1987).

EUPHORBIACEAE spurge family

Codiaeum variegatum (L.) Blume

croton/croton ou codier

Ornamental shrub or small tree.

Humans Ingestion of bark and roots has caused irritation in the oral cavity, and contact with the latex has produced an eczema (Morton 1962, Frohne and Pfänder 1983).

Animals No information.

Euphorbia cyparissias L.

cypress spurge/euphorbe cyprès

Naturalized herb, sometimes grown as an outdoor ornamental, in Nfld., P.E.I., N.S., N.B., Que., Ont., Man., Alta., and B.C.

Euphorbia esula L.

leafy spurge/euphorbe ésule

Naturalized herb in P.E.I., N.S., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Euphorbia helioscopia L.

sun spurge/euphorbe réveille-matin

Naturalized herb in N.S., P.E.I., N.B., Que., Ont., Sask., Alta., and B.C.

Euphorbia lactea Haw.

candelabra-cactus/cactus candélabre

Ornamental shrub.

Euphorbia lathyris L.

caper spurge/cagarrino

Ornamental herb; naturalized in B.C.

Euphorbia milii Ch. des Moulins

crown-of-thorns/couronne d'épines

Indoor ornamental.

Euphorbia peplus L.

petty spurge/euphorbe des jardins

Naturalized herb in Nfld., N.S., P.E.I., N.B., Que., Ont., Man., Sask., and B.C.

Euphorbia tirucalli L.

penciltree/euphorbe effilée

Ornamental tree.

Humans The juice of any of these plants can cause a dermatitis on the skin or poisoning if ingested (Long 1917, Campbell et al. 1956, Kingsbury 1964, Worobec et al. 1981, Frohne and Pfänder 1983, Cooper and Johnson 1984, Frankton and Mulligan 1987, Stahevitch et al. 1988).

Animals Photosensitization from *E. cyparissias* and *E. esula* occurs in cattle, horses, and sheep, causing poisoning and death (Muenscher 1948; Case 1954, 1957; Johnston and Peake 1960; Johnston et al. 1965; Lorenz and Dewey 1988; Stahevitch et al. 1988).

Ricinus communis L.

castor bean/ricin

Ornamental tree.

Humans Chewing beans can cause poisoning and death (Malizia et al. 1977, McIntosh 1980, Frohne and Pfänder 1983, Cooper and Johnson 1984).

Animals No information.

FAGACEAE beech family

Quercus rubra L.

red oak/chêne rouge

Native tree in N.S., P.E.I., N.B., Que., and Ont.

Quercus velutina Lam.

black oak/chêne noir

Native tree in southern Ont.

Humans No information.

Animals Poisoning and death of cattle, sheep, and horses occurs particularly when trees fall into pastures or in years when the crop of acorns is very large (Pammel 1917b, Duncan 1961, Sandusky et al. 1977, Cooper and Johnson 1984).

FUMARIACEAE fumitory family

Dicentra canadensis (Goldie) Walp.

squirrel-corn/dicentre du Canada

Native herb in southwestern Que. and southern Ont.

Dicentra cucullaria (L.) Bernh.

Dutchman's-breeches/dicentre à capuchon

Native herb in N.S., N.B., Que., and Ont.

Dicentra formosa (Andr.) Walp.
western bleedingheart/dielytra à belles fleurs
Native herb in southwestern B.C.

Humans No information.

Animals Poisoning and death of cattle are reported (Black et al. 1923, 1930; Hansen 1930).

GINKGOACEAE ginkgo family

Ginkgo biloba L.
maidenhair tree/ginkgo
Ornamental tree.

Humans Severe dermatitis can result from handling broken or crushed fruits (Muenscher 1951, Baer 1983, Nakamura 1985).

Animals No information.

GRAMINEAE grass family

Glyceria grandis S. Wats.
tall manna grass/glycérie géante
Native and naturalized herb in (Y.T.), (Nfld.), (N.S.), P.E.I., N.B., Que.,
Ont., Man., Sask., Alta., and B.C.

Humans No information.

Animals Cyanotoxicosis and death in cattle are reported (Puls et al. 1978).

GUTTIFERAE St. John's-wort family

Hypericum perforatum L.
St. John's-wort/millepertuis perforé
Naturalized herb in Nfld., N.S., P.E.I., N.B., Que., Ont., and B.C.

Humans No information.

Animals Photosensitization in cattle, sheep, horses, and rabbits causes poisoning and death (Hansen 1928e, Marsh and Clawson 1930b, Sampson and Parker 1930, Gillett and Robson 1981, Crompton et al. 1988).

HIPPOCASTANACEAE horse-chestnut family

Aesculus hippocastanum L.

horse-chestnut/marronnier

Outdoor ornamental tree.

Humans Children have been poisoned in Europe after ingesting large quantities of nuts (Muenscher 1951, Frohne and Pfänder 1983, Lampe and McCann 1985).

Animals Leaves and fruits have caused illness in cattle, horses, and pigs (Muenscher 1951).

HYDROPHYLLACEAE waterleaf family

Phacelia campanularia Gray

California bluebell/phacélie de Californie

Herb, near Fort Saskatchewan, Alta., probably introduced from the United States.

Humans Species with stiff glandular hairs produce a severe dermatitis in some people (Muenscher 1951, Munz 1965).

Animals No information.

IRIDACEAE iris family

Iris versicolor L.

blue flag/clajoux

Native herb in Keewatin Dist., Nfld., N.S., P.E.I., N.B., Que., Ont., and Man.

Humans No information.

Animals Poisoning and death of calves are reported (Bruce 1927).

JUNCAGINACEAE arrow-grass family

Triglochin maritima L.

seaside arrow-grass/troscart maritime

Native herb in Keewatin and Mackenzie Dists., Y.T., Nfld., N.S., P.E.I., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans No information.

Animals Sickness and death in cattle and sheep are reported (Fleming 1920, Fleming et al. 1920b, Marsh et al. 1929, Beath et al. 1933, Clawson and Moran 1937, Campagne 1956, Muenscher 1975).

LABIATAE mint family

Glechoma hederacea L.

ground-ivy/lierre terrestre

Naturalized herb in Nfld., N.S., P.E.I., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans No information.

Animals One report mentions two horses being poisoned (Fyles 1920).

Leonurus cardiaca L.

motherwort/agripaume cardiaque

Naturalized herb in N.S., P.E.I., N.B., Que., Ont., Man., Sask., and B.C.

Humans Some individuals develop a dermatitis after contact with leaves (Muenscher 1951).

Animals No information.

LEGUMINOSAE pea family

Abrus precatorius L.

precatory-pea/abrus à chapelet

Seeds imported in necklaces and bracelets.

Humans Very poisonous; one ingested seed is fatal to an adult (Taylor 1962, Gunn 1969, Niyogi 1970, Davis 1978, McIntosh 1980, Hoy and Catling 1981, Frohne and Pfänder 1983).

Animals No information.

Astragalus bisulcatus (Hook.) A. Gray

two-grooved milk-vetch/astragale fondu

Native herb in Man., Sask., and Alta.

Astragalus lentiginosus Dougl.

Native herb in southcentral B.C.

Astragalus miser Dougl. ex Hook.

timber milk-vetch/astragale prostré

Native herb in southwestern Alta., and southeastern B.C.

Humans No information.

Animals Poisoning and death in chickens, horses, cattle, and sheep are reported. Teratogenic deformities in calves are caused by *A. lentiginosus*. (Beath and Lehnert 1917, Bruce 1927, Beath et al. 1932,

Trelease and Martin 1936, MacDonald 1952a, McLean and Nicholson 1958, James et al. 1968, Van Kampen and James 1969, Williams et al. 1975, Williams and James 1978, James et al. 1981, Ellis et al. 1985, Keeler 1988, Ogden et al. 1988).

Baptisia tinctoria (L.) Br.

wild indigo/indigo sauvage

Native perennial herb in southern Ont.

Baptisia leucantha T. & G.

wild false indigo/baptisie leucanthe

Native perennial herb in southern Ont.

Humans The entire plant is toxic (Lampe and McCann 1985).

Animals No information.

Gymnocladus dioica (L.) K. Koch

Kentucky coffeetree/chicot du Canada

Ornamental tree.

Humans One early report mentions a woman poisoned after ingesting the fruit pulp (Chesnut 1898).

Animals No information.

Laburnum anagyroides Medic.

golden-chain/cytise

Ornamental shrub or small tree.

Humans Although it is considered the second most poisonous tree in Britain, no cases of severe poisonings are documented (Long 1917, Forsyth 1968, Frohne and Pfänder 1983, Cooper and Johnson 1984).

Animals No information.

Lathyrus sativus L.

grass pea/lentille d'Espagne

Food and forage herb.

Lathyrus odoratus L.

sweet pea/pois de senteur

Ornamental climber.

Humans Both species can cause serious poisoning if used habitually as a food source (Stockman 1929, Selye 1957, Cooper and Johnson 1984).

Animals Both species can poison animals if fed over a long period (Stockman 1929, Selye 1957, Cooper and Johnson 1984).

Lupinus argenteus Pursh
silvery lupine/lupin argenté

Native herb in Man., Sask., Alta., and B.C.

Lupinus burkei S. Wats
Burke's lupine

Native herb in southern B.C.

Lupinus polyphyllus Lindl.
large-leaved lupine/lupin polyphylle

Native and naturalized herb in Nfld., N.S., P.E.I., N.B., Que., Ont., and B.C.

Lupinus pusillus Pursh
small lupine

Native herb in southwestern Sask. and southern Alta.

Lupinus sericeus Pursh
silky lupine/lupin soyeux

Native herb in Y.T., Alta., and B.C.

Humans Mild lupine poisoning occurred in Alberta when cooking instructions for purchased "edible lupine seeds" were not followed (Smith 1987).

Animals Poisoning and death of cattle, sheep, horses, and pigs are recorded. Although lupines are usually considered a valuable source of range forage, toxicity is unpredictable. Most of these lupines contain sufficient quantities of the teratogenic alkaloid anagryne to cause crooked calf disease under some conditions (Marsh et al. 1916; Beath 1920, 1925; Couch 1926b; Beath et al. 1953; McLean and Nicholson 1958; Shupe et al. 1967; Keeler 1973, Keeler et al. 1977; Williams 1983; Davis and Stout 1986).

Oxytropis lambertii Pursh
purple locoweed/oxytrope de Lambert

Native herb in southern Man. and southeastern Sask.

Oxytropis sericea Nutt.
locoweed/oxytrope

Native herb in Y.T., (Man.), Sask., Alta., and B.C.

Humans No information.

Animals Poisoning and death of cattle from these locoweeds are reported (Marsh 1909, 1919; James et al. 1968; Van Kampen and James 1969; James et al. 1986; James and Nielsen 1988; Ogden et al. 1988; Ralphs and Sharp 1988).

Robinia pseudoacacia L.
black locust/robinier faux-acacia

Naturalized shrub or tree, sometimes grown as an ornamental in N.S., (P.E.I.), Que., Ont., and B.C.

Humans Sickness after the ingestion of seeds and inner bark has been reported, but there are no recent reports of poisonings (Emery 1887, Millspaugh 1887).

Animals Poisoning of horses, cattle, and chickens is reported (Gardiner 1903; Waldron 1908; Barnes 1921; Hansen 1924*b*, 1924*c*; Bruce 1927; Hansen 1930).

Thermopsis rhombifolia (Nutt.) Richards.
golden-bean

Native herb in Man., Sask., and B.C.

Humans Seeds suspected of poisoning children (Kingsbury 1964).

Animals Considered toxic to cattle and may cause teratogenic deformities in calves (Keeler 1983, Keeler et al. 1986).

Vicia villosa Roth
hairy vetch/vesce velue

Forage crop and naturalized in N.S., Que., Ont., Man., and B.C.

Humans No information.

Animals Poisoning and death in cattle are reported (Claughton and Claughton 1954, Panciera 1978, Kerr and Edwards 1982).

Wisteria species
wisterias/glycines

Woody ornamental twiners.

Humans Poisoning is reported in children after the ingestion of seeds or pods (Anonymous 1961, Jacobziner and Raybin 1961*a*, Kingsbury 1964, Frohne and Pfänder 1983, Lampe and McCann 1985).

Animals No information.

LILIACEAE lily family

Allium canadense L.
wild onion/ail du Canada

Native to N.B., Que., and Ont.

Humans Children who ingested part of plant suffered gastroenteritis (Lampe and McCann 1985).

Animals No information.

Allium cepa L.

onion/oignon

Food plant.

Humans A child, after ingesting nine stalks of onion, experienced a severe rash on face and body (Lampe and McCann 1985).

Animals Poisoning and death are reported of cattle and horses after eating large quantities of onions (Goldsmith 1909, Thorp and Harsfield 1938, Hutchison 1977, Cooper and Johnson 1984).

Aloe spp.

aloe/aloès

Perennial house plant.

Humans The latex is poisonous if ingested (Lampe and McCann 1985).

Animals No information.

Colchicum autumnale L.

autumn crocus/colchique d'automne

Indoor and outdoor ornamental.

Humans Burning sensation in mouth and throat is reported (Cooper and Johnson 1984, Lampe and McCann 1985).

Animals No information.

Convallaria majalis L.

lily-of-the-valley/muguet

Outdoor ornamental.

Humans All plant parts can cause sickness; however, the report of a child having died after drinking water in which lily-of-the-valley had been standing is unconvincing (Kingsbury 1964, O'Leary and Hyattsville 1964, Frohne and Pfänder 1983, Lampe and McCann 1985).

Animals No information.

Gloriosa superba L.

glory lily/glorieuse du Malabar

Ornamental climber.

Humans Reports mention sickness and death after ingestion of tubers (Steyn 1934, Gooneratne 1966, Angunawela and Fernando 1971, Frohne and Pfänder 1983).

Animals No information.

Ornithogalum umbellatum L.
star-of-Bethlehem/dame d'onze heures

Outdoor ornamental.

Humans Nausea and intestinal disorders are reported in children after eating flowers (Cooper and Johnson 1984).

Animals No information.

Tulipa spp.
tulips/tulipes

Indoor and outdoor ornamentals.

Humans People can develop a severe dermatitis, called tulip finger, after constantly handling large quantities of bulbs (Frohne and Pfänder 1983).

Animals No information.

Veratrum viride Ait.
false hellebore/varaire vert

Native herb in Y.T., Nfld., N.B., Que., Alta., and B.C.

Humans Sickness and death are reported after the ingestion of plant parts (Boivin 1948, Underhill 1959, Anonymous 1972, Turner 1978, Boudreault 1979, Mulligan and Munro 1987).

Animals Sickness and death of sheep, cattle, and chickens are reported (Chesnut 1898, Chesnut and Wilcox 1901, Fleming and Schappelle 1918, Bruce 1927, Reynard and Norton 1942, Campagne 1956, Kingsbury 1964, Mulligan and Munro 1987).

Zigadenus elegans Pursh
white camas/zigadène élégant

Native herb in Mackenzie Dist., Y.T., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Zigadenus gramineus Rydb.
death camas/zigadène vénéneux

Native herb in southern Sask., southern Alta., and southern B.C.

Humans Sickness and death are reported after ingestion of bulbs (Marsh et al. 1915, Cameron 1952, Spoerke and Spoerke 1979).

Animals Sickness and death in sheep, cattle, and horses are reported (Chesnut and Wilcox 1901; Heyl et al. 1912; Marsh et al. 1915; Fleming 1920; Fleming et al. 1921; Marsh and Clawson 1922, 1924; McLean and Nicholson 1958; Shaw and Williams 1986; Panter and Ralphs 1987).

LORANTHACEAE mistletoe family

Phoradendron flavescens (Pursh) Nutt.

American mistletoe/gui de chêne

Sold around Christmas time. Native south of our range.

Humans Poisoning after the ingestion of berries has been reported but no serious poisonings are documented (Hymans 1898, Cann and Verhulst 1959).

Animals No information.

MENISPERMACEAE moonseed family

Menispermum canadense L.

moonseed/ménisperme du Canada

Native herb in southwestern Que., Ont., and southern Man.

Humans Poisoning and death are reported after ingestion of grapelike fruits (Schaffner 1903, Gress 1935).

Animals No information.

MORACEAE mulberry family

Maclura pomifera (Raf.) C.K. Schneid.

osage-orange/bois d'arc

Small ornamental tree.

Humans Some people have developed a dermatitis from contact with the milky sap (Muenscher 1951).

Animals No information.

OLEACEAE olive family

Ligustrum vulgare L.

common privet/troène commun

Ornamental shrub.

Humans Children have been poisoned after ingestion of berries, but reports of death are undocumented (Long 1934, Kozlov and Gulyaeva 1983, Frohne and Pfänder 1983, Cooper and Johnson 1984).

Animals No information.

ORCHIDACEAE orchid family

Cypripedium acaule Ait.

pink lady's-slipper/cypripède acaule

Native herb in (Mackenzie Dist.), Nfld., N.S., N.B., Que., Ont., Man., Sask., and Alta.

Cypripedium calceolus L.

yellow lady's-slipper/cypripède soulier

Native herb in Mackenzie Dist., (Y.T.), Nfld., N.S., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Cypripedium reginae Walt.

showy lady's-slipper/cypripède royal

Native herb in Nfld., P.E.I., N.B., Que., Ont., and Man.

Humans Dermatitis can develop after touching the glandular hairs (Halstead 1899, Muenscher 1951, Reddock and Reddock 1984, Macaulay 1987).

Animals No information.

PAPAVERACEAE poppy family

Chelidonium majus L.

greater celandine/grande chélidoine

Naturalized herb in (Nfld.), (N.S.), P.E.I., N.B., Que., and Ont.

Humans Severe irritation and gastrointestinal problems are reported, but the report of a death is unsubstantiated (Koopman 1937, Bandeline and Malesh 1956, Frohne and Pfänder 1983, Cooper and Johnson 1984).

Animals No information.

Papaver nudicaule L.

Iceland poppy/pavot d'Islande

Ornamental herb, occasionally escapes from cultivation and doubtfully naturalized.

Papaver orientale L.

Oriental poppy/pavot d'Orient

Ornamental herb.

Papaver rhoeas L.

corn poppy/pavot coquelicot

Ornamental herb, naturalized in N.S., (N.B.), Que., Ont., Man., Sask., and (B.C.).

Papaver somniferum L.

opium poppy/pavot somnifère

Ornamental herb.

Humans Toxic substances are present in foliage and pods (Kingsbury 1964, Frohne and Pfänder 1983, Cooper and Johnson 1984)

Animals No information.

PHYTOLACCACEAE pokeweed family

Phytolacca americana L.

pokeweed/phytolaque d'Amérique

Native herb in southwestern Que. and southwestern Ont.

Humans This plant has caused severe poisoning when used as folk medicine (French 1900, Sauer 1950, Lewis and Smith 1979, Jaeckle and Freemon 1981).

Animals Poisoning of pigs and turkeys is reported (Patterson 1929, Hansen 1930, Barnett 1975).

PINACEAE pine family

Pinus ponderosa Dougl.

ponderosa pine/pin ponderosa

Native tree in B.C.

Humans No information.

Animals Abortion and birth of weak offspring in cattle and goats are reported (MacDonald 1952b, Allen and Kitts 1961, Call and James 1978, Panter et al. 1987, Gartner et al. 1988, Lacey et al. 1988, Panter et al. 1988b).

POLYGONACEAE buckwheat family

Rheum rhaponticum L.

rhubarb/rhubarbe

Perennial crop plant.

Humans Poisoning and death are reported after the ingestion of large quantities of leaves (Anonymous 1917, Robb 1919, Culpepper and Moon 1933, Cooper and Johnson 1984).

Animals No information.

Rumex acetosa L.

garden-sorrel/grande oseille

Naturalized in Nfld., (P.E.I.), N.S., N.B., Que., Ont., Man., Sask., Alta., and B.C.; cultivated as salad plant.

Humans No information.

Animals Sheep were poisoned from grazing a field with a dense crop of garden-sorrel (Coward 1949).

Rumex venosus Pursh

veined dock/rumex veiné

Native herb in southern Man., Sask., and Alta.

Humans No information.

Animals Sickness and death of cattle are reported (Dickie et al. 1978).

POLYPODIACEAE fern family

Onoclea sensibilis L.

sensitive fern/onoclée sensible

Native herb in Nfld., N.S., P.E.I., N.B., Que., Ont., and Man.

Humans No information.

Animals Sickness and death of horses are reported after eating hay containing sensitive fern (Waller et al. 1944, Hodgdon 1951).

Pteridium aquilinum (L.) Kuhn

bracken/grande fougère

Native herb in Nfld., N.S., P.E.I., N.B., Que., Ont., Man., Alta., and B.C.

Humans Although sometimes eaten, recent evidence indicates that it is carcinogenic (Cody and Crompton 1975, Evans 1976, Pamucku et al. 1977, Fenwick 1988, Milne 1988).

Animals Sickness and death in cattle, horses, sheep, and pigs are reported (Hadwen 1917, Hadwen and Bruce 1933, Groh 1941, Weswig et al. 1946, Campagne 1956, Langham 1957, Wagnon 1959, Rosenberger 1971, Cody and Crompton 1975, Evans 1976, Kelleway and Geovjian 1978, Fenwick 1988, Milne 1988).

PRIMULACEAE primrose family

Anagallis arvensis L.

scarlet pimpernel/mouron rouge

Naturalized herb in N.S., (P.E.I.), (N.B.), Que., Ont., Alta., and B.C.

Humans No information.

Animals Poisoning and sometimes death are reported of dogs, horses, mules, poultry, rabbits, wild birds, calves, and sheep after they consume large quantities of vegetation or seed (Cooper and Johnson 1984).

Primula obconica Hance.

primula

Ornamental herb.

Humans Severe dermatitis occurs in some people, from a skin-irritant in glandular hairs on flower stalks and calyx (Mitchell and Rook 1979, Frohne and Pfänder 1983, Fernandez et al. 1987).

Animals No information.

RANUNCULACEAE crowfoot family

Aconitum napellus L.

monk's hood/aconit Napel

Outdoor ornamental herb.

Humans This herb is very poisonous if ingested, especially the root (Frohne and Pfänder 1983, Cooper and Johnson 1984, Lampe and McCann 1985).

Animals No information.

Delphinium bicolor Nutt.

low larkspur/pied d'alouette bicolore

Native herb in southwestern Sask., Alta., and B.C.

Delphinium glaucum S. Wats (= *D. brownii* Rydb.)

tall larkspur/pied d'alouette glauque

Native herb in Mackenzie Dist., Y.T., Que., Ont., Man., Sask., Alta., and B.C.

Delphinium menziesii DC.

Menzies larkspur

Native herb in B.C.

Humans No information.

Animals Reports document poisoning and death of cattle and suspected poisoning of horses and sheep (Wilcox 1897, Chesnut and Wilcox 1901, Marsh et al. 1923 α , Marsh 1929 α , McLean and Nicholson 1958, Nation et al. 1982, Frohne and Pfänder 1983, Cronin et al. 1988, Nielsen and Ralphs 1988).

Ranunculus bulbosus L.

bulbous buttercup/renoncule bulbeuse

Naturalized herb in Nfld., N.S., (Que.), Ont., and (B.C.).

Humans Children have been poisoned from the ingestion of bulbous plant parts (Forsyth 1968, Frohne and Pfänder 1983).

Animals No information.

RHAMNACEAE buckthorn family

Rhamnus cathartica L.

European buckthorn/nerprun commun

Small naturalized tree in N.S., P.E.I., (N.B.), Que., Ont., Man., and Sask.

Rhamnus frangula L.

alder buckthorn/nerprun bourdaine

Small naturalized shrub or tree in N.S., P.E.I., N.B., Que., Ont., and Man.

Humans Rare cases of mild poisoning are reported; buckthorns contain substances with laxative properties (Kingsbury 1964, Frohne and Pfänder 1983, Cooper and Johnson 1984).

Animals No information.

ROSACEAE rose family

Prunus serotina Ehrh.

black cherry/cerisier tardif

Native tree in N.S., P.E.I., N.B., Que., and Ont.; occasionally cultivated.

Humans Poisoning has occurred after the ingestion of seed in fruits, from chewing twigs, and from making tea from leaves (Chesnut 1898, Hardin and Arena 1974, Mulligan and Munro 1981 α).

Animals Poisoning and death of livestock are reported (Chesnut 1898, Morse and Howard 1898, Beath et al. 1953, McLean and Nicholson 1958, Kingsbury 1964, Conn 1978, Mulligan and Munro 1981 α).

Prunus virginiana L.

red chokecherry/cerisier de Virginie

Native shrub or small tree in Mackenzie Dist., Nfld., N.S., P.E.I., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans Poisoning and death are reported of children who ate large quantities of fruits without removing seeds (Pardee 1847, Pijoan 1942, Kingsbury 1964, Hardin and Arena 1974, Mulligan and Munro 1981a).

Animals Poisoning and death of livestock are reported (Chesnut 1898, Morse and Howard 1898, Fleming et al. 1926, Fleming and Dill 1928, Reynard and Norton 1942, Hershey 1945, Beath et al. 1953, McLean and Nicholson 1958, Kingsbury 1964, Conn 1978, Mulligan and Munro 1981a).

RUTACEAE rue family

Dictamnus albus L.

gas plant/dictame

Ornamental herb.

Humans Photosensitization is reported after handling plant parts, especially seed pods; reddish patches may persist on skin for weeks (Cummer and Dexter 1937, Henderson and DesGroseilliers 1984).

Animals No information.

SAXIFRAGACEAE saxifrage family

Hydrangea macrophylla (Thunb.) Ser.

hydrangea/hortensia

Woody ornamental.

Humans Illness is reported from ingestion of leaves or roots; hand dermatitis resulted from the repeated handling of this plant by a nurseryman (O'Leary and Hyattsville 1964, Apted 1973, Der Marderosian et al. 1976, Lampe and McCann 1985, Bruynzeel 1986).

Animals No information.

SCROPHULARIACEAE figwort family

Digitalis purpurea L.

foxglove/digitale pourpre

Naturalized herb in Nfld., N.S., Que., Ont., and B.C.; sometimes cultivated.

Humans Sickness of children is reported after ingestion of flowers, seeds, or leaves (Kingsbury 1964, Frohne and Pfänder 1983, Cooper and Johnson 1984, Lamp and McCann 1985).

Animals Poisoning of pigs, cattle, turkeys, and other animals is reported; livestock normally avoid eating foxglove (Bruce 1927, Cooper and Johnson 1984, Thomas et al. 1987).

SIMAROUBACEAE quassia family

Ailanthus altissima (Mill.) Swingle
tree-of-heaven/frêne puant
Ornamental tree.

Humans Dermatitis is reported from contact with leaves (Muenscher 1951).

Animals No information.

SOLANACEAE nightshade family

Cestrum nocturnum L.
night-blooming jessamine/jasmin de nuit
Ornamental shrub.

Humans Sickness is reported after ingestion (Morton 1958).

Animals No information.

Datura innoxia Miller
angel's trumpet/stramoine parfumée
Ornamental herb.

Datura stramonium L.
jimsonweed/stramoine commune
Naturalized herb in N.S., P.E.I., N.B., Que., Ont., Sask., and Alta.

Humans Sickness and death are reported after ingestion of plant parts (Garvin and Ruh 1923; Jennings 1935; Hughes and Clark 1939; Goldberg 1951; Stiles 1951; Mitchell and Mitchell 1955; Jacobziner and Raybin 1960, 1961b; Mikolich 1975; Levy 1976; Moore 1976; Frohne and Pfänder 1983; Lampe and McCann 1985).

Animals Poisoning and death in cattle, horses, pigs, chickens, and mules are reported (Harshberger 1920; King 1923; Hansen 1925a, 1927; Reynard and Norton 1942; Case 1955; Leipold et al. 1973; Cooper and Johnson 1984).

Hyoscyamus niger L.
black henbane/jusquiame noire
Naturalized herb in N.S., (P.E.I.), N.B., Que., Ont., Man., and (B.C.).

Humans It is poisonous when ingested but is usually avoided because of its unpleasant odor (Hocking 1947, Kürkçüoğlu 1970, Spoerke et al. 1987).

Animals No information.

Nicotiana tabacum L.

tobacco/tabac

Cultivated herb.

Humans Fresh leaves are poisonous if ingested (Kingsbury 1964).

Animals Deformities are noted in offspring after sows are fed tobacco (Crowe 1969, Menges et al. 1970, Crowe and Swerczek 1974, Keeler 1988).

Physalis peruviana L.

ground-cherry/coqueret

Ornamental herb.

Humans Fruits are considered mildly poisonous (Frohne and Pfänder 1983).

Animals No information.

Solanum dulcamara L.

climbing nightshade/morelle douce-amère

Naturalized woody vine in Nfld., N.S., P.E.I., Que., Ont., Man., Alta., and B.C.

Humans Berries are mildly poisonous, but serious poisoning has occurred after large quantities were eaten (Harshberger 1920, Alexander et al. 1948, Frohne and Pfänder 1983).

Animals Poisoning of sheep and cattle is reported, but there have been no recent reports (Yates 1915, Harshberger 1920, Craig and Kehoe 1925).

Solanum nigrum L.

black nightshade/morelle noire

Naturalized herb in (Nfld.), N.S., (P.E.I.), N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans Although sometimes eaten as food, fruits (especially unripe ones) can cause serious illness (Cooper and Johnson 1984).

Animals Poisoning and death of cattle, sheep, pigs, goats, chickens, and ducks are reported (Hansen 1927, Casselbury 1939, Hubbs 1947, Ogg et al. 1981, Cooper and Johnson 1984).

Solanum pseudo-capsicum L.
Jerusalem-cherry/cerisier d'amour
Small ornamental shrub.

Humans Nausea, abdominal pains, dilation of pupils, and drowsiness are reported after eating a few fruits (Frohne and Pfänder 1983).

Animals No information.

Solanum tuberosum L.
potato/pomme de terre
Food plant.

Humans Sickness and death are reported after eating large quantities of green-skinned potatoes or green fruits containing the chemical solanine (Hansen 1925*b*, McMillan and Thompson 1979, Frohne and Pfänder 1983).

Animals Farm animals have been poisoned by eating large quantities of spoiled potatoes or potato tops (Hansen 1928*f*, Frohne and Pfänder 1983, Cooper and Johnson 1984).

TAXACEAE yew family

Taxus spp.
yews/ifs

Native and ornamental shrubs; widely distributed.

Humans Needles and seeds (apparently not the fleshy part of berries) are toxic if ingested; poisoning is rare (Schulte 1975, Burke et al. 1979, Cooper and Johnson 1984, Lampe and McCann 1985, Feldman et al. 1987).

Animals Cattle, sheep, goats, pigs, deer, and horses have been poisoned, especially after eating fallen or cut branches (Craig and Kehoe 1925, Bruce 1927, Brown and Hull 1951, Lowe et al. 1970, Alden et al. 1977).

THYMELAEACEAE mezereum family

Daphne cneorum L.
garland daphne/daphné camélée
Ornamental shrub.

Daphne laureola L.
spurge-laurel/auriole
Ornamental shrub.

Daphne mezereum L.
February daphne/daphné jolibois
Ornamental shrub.

Humans Poisoning is usually mild, as few berries are eaten because of their acrid taste (Fyles 1920, Kingsbury 1961, Frohne and Pfänder 1983, Lampe and McCann 1985).

Animals These shrubs are usually avoided by animals; pigs and a horse have died after eating berries and foliage (Cooper and Johnson 1984).

Dirca palustris L.
leatherwood/dirca des marais
Native shrub in N.B., Que., and Ont.

Humans Some people develop a severe irritation and blistering of the skin after handling the bark (Muenscher 1951, Lampe and McCann 1985).

Animals No information.

UMBELLIFERAE parsley family

Cicuta douglasii (DC.) Coult. & Rose
western water-hemlock/cicutaire pourpre
Native herb in B.C.

Cicuta maculata L.
spotted water-hemlock/carotte à Moreau
Native herb in MacKenzie Dist., Y.T., N.S., P.E.I., N.B., Que., Ont.,
Man., Sask., Alta., and B.C.

Cicuta virosa L.
northern water-hemlock/cicutaire du Nord
Native herb in MacKenzie Dist., Y.T., and northern parts of Que.,
Ont., Man., Sask., Alta., and B.C.

Humans These water-hemlocks are extremely poisonous if ingested; sickness and death are primarily the result of ingestion of rootstocks (Pammel 1921, Haggerty and Conway 1936, Frankton 1955, Kingsbury 1964, Robson 1965, Campbell 1966, Starreveld and Hope 1975, Carlton et al. 1979, Mulligan 1980*b*, Mulligan and Munro 1981*b*, Frohne and Pfänder 1983, Cooper and Johnson 1984, Frankton and Mulligan 1987, Mulligan 1987).

Animals Poisoning and death of all classes of livestock are reported (Chesnut 1898, Fleming et al. 1920*c*, Hansen 1928*g*, Skidmore 1933,

Gress 1935, Campagne 1956, McLean and Nicholson 1958, Tucker et al. 1964, Mulligan 1980*b*, Mulligan and Munro 1981*b*, Cooper and Johnson 1984, Panter and Keeler 1988, Panter et al. 1988*c*).

Conium maculatum L.

poison-hemlock/ciguë maculée

Naturalized herb in N.S., Que., Ont., Sask., and B.C.

Humans Sickness and death are reported after ingestion of leaves, roots or seeds (Pammel 1919, Muenscher 1951, Kingsbury 1964, Frohne and Pfänder 1983, Cooper and Johnson 1984, Lampe and McCann 1985).

Animals Poisoning and death of all classes of livestock. Teratogenic deformities in calves have occurred (Chesnut 1898, Pammel 1919, Anonymous 1951, Keeler 1974, Hannam 1985, Panter et al. 1985, Jessup et al. 1986, Keeler 1988, Panter et al. 1988*a, c*, Panter and Keeler 1988).

Heracleum mantegazzianum Somm. & Lev.

giant hogweed/berce du Caucase

Naturalized herb in southcentral Ont.

Humans A rash and persistent blisters can result when handling of leaves is followed by exposure to sunlight (Anonymous 1970, Drever and Hunter 1970, Morton 1975, Gunby 1980).

Animals No information.

Pastinaca sativa L.

wild parsnip/panais sauvage

Naturalized herb in Y.T., Nfld., N.S., P.E.I., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans Some people develop a dermatitis after handling leaves, flowers, or fruits (Muenscher 1951, Campagne 1949, Hardin and Arena 1974).

Animals No information.

URTICACEAE nettle family

Laportea canadensis (L.) Gaud.

Canada nettle/laportéa du Canada

Native herb in N.S., N.B., Que., Ont., and Sask.

Humans Toxic liquid in hairs causes intense itching and pain (McIntosh 1980).

Animals No information.

Urtica dioica L.

American stinging nettle/ortie dioïque d'Amérique

Native herb in Mackenzie Dist., Y.T., Lab., Nfld., N.S., P.E.I., N.B., Que., Ont., Man., Sask., Alta., and B.C.

Humans Toxic liquid in hairs causes intense itching and pain (Willis 1969, Bassett et al. 1977, McIntosh 1980).

Animals No information.

VITACEAE grape family

Parthenocissus quinquefolia (L.) Planch.

Virginia creeper/vigne vierge

Native climbing vine in (N.S.), N.B., P.E.I., Que., Ont., and Man.

Humans Ingestion of large quantities of berries is suspected of causing serious poisoning; leaves contain raphides that cause skin irritations in some individuals (Warren 1912, Kingsbury 1961, Frohne and Pfänder 1983, Lamp and McCann 1985).

Animals No information.

APPENDIX 1. CANADIAN PLANTS POISONOUS TO HUMANS

<i>Abrus precatorius</i>	precatory-pea/abrus à chapelet
<i>Aconitum napellus</i>	monk's hood/aconit Napel
<i>Aesculus hippocastanum</i> (large quantities)	horse-chestnut/marronnier
<i>Ailanthus altissima</i>	tree-of-heaven/frêne puant
<i>Allamanda cathartica</i>	golden-trumpet/trompette dorée
<i>Allium canadense</i>	wild onion/ail du Canada
<i>A. cepa</i> (rare dermatitis)	onion/oignon
<i>Aloe</i> spp.	aloes/aloès
<i>Amaryllis belladonna</i>	amaryllis
<i>A. vittata</i>	amaryllis
<i>Anthurium</i> spp.	anthuriums
<i>Apocynum androsaemifolium</i>	spreading dogbane/apocyn à feuilles d'androsème
<i>A. cannabinum</i>	hemp dogbane/apocyn chanvrin
<i>Arisaema triphyllum</i>	Jack-in-the-pulpit/petit-prêcheur
<i>Asarum canadense</i>	wild ginger/asaret du Canada
<i>Asimina triloba</i>	pawpaw/asiminier trilobé
<i>Baptisia leucantha</i>	wild false indigo/baptisie leucanthe
<i>Baptisia tinctoria</i>	wild indigo/indigo sauvage
<i>Caladium bicolor</i>	caladium
<i>Calla palustris</i>	wild calla/calla des marais
<i>Caulophyllum thalictroides</i>	blue cohosh/graines à chapelet
<i>Cestrum nocturnum</i>	night-blooming jessamine/jasmin de nuit
<i>Chelidonium majus</i>	greater celandine/grande chélidoine
<i>Chenopodium album</i> (large quantities)	lamb's-quarters/chénopode blanc
<i>Chrysanthemum</i> spp.	chrysanthemums/ chrysanthèmes
<i>Cicuta douglasii</i>	western water-hemlock/ cicutaire pourpre
<i>C. maculata</i>	spotted water-hemlock/carotte à Moreau
<i>C. virosa</i>	northern water-hemlock/ cicutaire du Nord
<i>Clivia</i> spp.	Kaffir lilies/clivies
<i>Codiaeum variegatum</i>	croton/croton ou codier
<i>Colchicum autumnale</i>	autumn crocus/colchique d'automne
<i>Conium maculatum</i>	poison hemlock/ciguë maculée
<i>Convallaria majalis</i>	lily-of-the-valley/muguet
<i>Cypripedium acaule</i>	pink lady's-slipper/cypripède acaule

<i>C. calceolus</i>	yellow lady's-slipper/cypripède soulier
<i>C. reginae</i>	showy lady's-slipper/cypripède royal
<i>Daphne cneorum</i>	garland daphne/daphné camélée
<i>D. laureola</i>	spurge-laurel/auriole
<i>D. mezereum</i>	February daphne/daphné jolibois
<i>Datura innoxia</i>	angel's trumpet/stramoine parfumée
<i>D. stramonium</i>	jimsonweed/stramoine commune
<i>Dictamnus albus</i>	gas plant/dictame
<i>Dieffenbachia amoena</i>	giant dumbcane/arum vénéneux
<i>D. bausei</i>	dumbcane/dieffenbachia
<i>D. picta</i>	spotted dumbcane/dieffenbachia tachetée
<i>Digitalis purpurea</i>	foxglove/digitale pourpre
<i>Dirca palustris</i>	leatherwood/dirca des marais
<i>Echium vulgare</i>	blueweed/vipérine
<i>Euonymus atropurpureus</i> (mild symptoms)	burning bush/fusain
<i>E. europaeus</i> (mild symptoms)	European spindletree/fusain d'Europe
<i>Eupatorium rugosum</i>	white snakeroot/eupatoire rugueuse
<i>Euphorbia cyparissias</i> L.	cypress spurge/euphorbe cyprès
<i>E. esula</i>	leafy spurge/euphorbe ésule
<i>E. helioscopia</i>	sun spurge/euphorbe réveille- matin
<i>E. lactea</i>	candelabra-cactus/cactus candélabre
<i>E. lathyris</i>	caper spurge/cagarrino
<i>E. milii</i>	crown-of-thorns/couronne d'épines
<i>E. peplus</i>	petty spurge/euphorbe des jardins
<i>E. tirucalli</i>	penciltree/euphorbe effilée
<i>Galanthus nivalis</i>	snowdrop/perce-neige
<i>Ginkgo biloba</i>	maidenhair tree/ginkgo
<i>Gloriosa superba</i>	glory lily/glorieuse du Malabar
<i>Gymnocladus dioicus</i> (weak evidence)	Kentucky coffeetree/chicot du Canada
<i>Hedera helix</i>	English ivy/lierre commun
<i>Heliotropium curassavicum</i>	spatulate-leaved heliotrope/ héliotrope obové de Curaçao
<i>Heracleum mantegazzianum</i>	giant hogweed/berce du Caucase
<i>Hydrangea macrophylla</i>	hydrangea/hortensia
<i>Hyoscyamus niger</i>	black henbane/jusquiame noire
<i>Ilex opaca</i> (weak evidence)	American holly/houx d'Amérique
<i>Iva xanthifolia</i>	false ragweed/fausse herbe à poux
<i>Kochia scoparia</i>	kochia/kochia à balais
<i>Laburnum anagyroides</i>	golden-chain/cytise

<i>Laportea canadensis</i>	Canada nettle/laportéa du Canada
<i>Lathyrus odoratus</i> (over long period)	sweet pea/pois de senteur
<i>L. sativus</i> (over long period)	grass pea/lentille d'Espagne
<i>Leonurus cardiaca</i>	motherwort/agripaume cardiaque
<i>Ligustrum vulgare</i>	common privet/troène commun
<i>Lobelia cardinalis</i>	cardinalflower/lobélie du cardinal
<i>L. inflata</i>	Indian-tobacco/lobélie gonflée
<i>L. siphilitica</i>	blue cardinalflower/cardinale bleue
<i>Lonicera</i> spp. (mild symptoms)	honeysuckles/chèvrefeuilles
<i>Lupinus</i> spp.	lupines/lupins
<i>Maclura pomifera</i>	osage-orange/bois d'arc
<i>Menispermum canadense</i>	moonseed/ménisperme du Canada
<i>Monstera deliciosa</i>	Swiss-cheese plant/ philodendron monstéra
<i>Narcissus poeticus</i>	narcissus/narcisse
<i>N. pseudonarcissus</i>	daffodil/jonquille
<i>Nerium oleander</i>	oleander/laurier rose
<i>Nicotiana tabacum</i> L.	tobacco/tabac
<i>Ornithogalum umbellatum</i>	star-of-Bethlehem/dame d'onze heures
<i>Papaver nudicaulis</i>	Iceland poppy/pavot d'Islande
<i>P. orientale</i>	oriental poppy/pavot d'Orient
<i>P. rhoeas</i>	corn poppy/pavot coquelicot
<i>P. somniferum</i>	opium poppy/pavot somnifère
<i>Parthenocissus quinquefolia</i>	Virginia creeper/vigne vierge
<i>Pastinaca sativa</i>	wild parsnip/panais sauvage
<i>Phacelia campanularia</i>	California bluebell/phacélie de Californie
<i>Philodendron</i> spp.	philodendrons
<i>Phoradendron flavescens</i> (mild symptoms)	American mistletoe/gui de chêne
<i>Physalis peruviana</i>	ground-cherry/coqueret
<i>Phytolacca americana</i>	pokeweed/phytolaque d'Amérique
<i>Podophyllum peltatum</i>	May-apple/podophylle pelté
<i>Primula obconica</i>	primula
<i>Prunus serotina</i>	black cherry/cerisier tardif
<i>P. virginiana</i>	red chokecherry/cerisier de Virginie
<i>Pteridium aquilinum</i>	bracken/grande fougère
<i>Ranunculus bulbosus</i>	bulbous buttercup/renoncule bulbeuse
<i>Rhamnus cathartica</i>	European buckthorn/nerprun commun
<i>R. frangula</i>	alder buckthorn/nerprun bourdaine

<i>Rheum rhaponticum</i> (leaf blades)	rhubarb/rhubarbe
<i>Rhododendron albiflorum</i>	white rose-bay/azalée blanche
<i>R. macrophyllum</i>	California rose-bay/rhododendron de Californie
<i>Rhododendron</i> spp.	azaleas/rhododendrons
<i>Rhus diversiloba</i>	western poison-oak/sumac de l'Ouest
<i>R. radicans</i>	poison-ivy/herbe à la puce
<i>R. vernix</i>	poison sumac/sumac à vernis
<i>Ricinus communis</i>	castor bean/ricin
<i>Robinia pseudoacacia</i>	black locust/robinier
<i>Sambucus</i> spp. (mild symptoms)	elders/sureaux
<i>Senecio jacobaea</i>	tansy ragwort/séneçon jacobée
<i>Solanum dulcamara</i>	climbing nightshade/morelle douce-amère
<i>S. nigrum</i>	black nightshade/morelle noire
<i>S. pseudo-capsicum</i>	Jerusalem-cherry/cerisier d'amour
<i>S. tuberosum</i> (green)	potato/pomme de terre
<i>Symphoricarpos albus</i> (mild symptoms)	thin-leaved snowberry/ symphorine à grappes
<i>Symplocarpus foetidus</i>	skunk cabbage/chou puant
<i>Taxus</i> spp.	yews/ifs
<i>Thermopsis rhombifolia</i>	golden-bean
<i>Tulipa</i> spp. (prolonged contact)	tulips/tulipes
<i>Urtica dioica</i>	American stinging nettle/ortie dioïque d'Amérique
<i>Veratrum viride</i>	false hellebore/varaire vert
<i>Viburnum opulus</i> (mild symptoms)	Guelder-rose/obier
<i>Wisteria</i> spp.	wisterias/glycines
<i>Zigadenus elegans</i>	white camas/zigadène élégant
<i>Z. gramineus</i>	death camas/zigadène vénéneux

APPENDIX 2. CANADIAN PLANTS POISONOUS TO ANIMALS

<i>Acer rubrum</i>	red maple/érable rouge
<i>Aesculus hippocastanum</i>	horse-chestnut/marronnier
<i>Agrostemma githago</i>	purple cockle/nielle
<i>Allium cepa</i>	onion/oignon
<i>Amaranthus blitoides</i>	prostrate pigweed/amarante fausse-blite
<i>A. hybridus</i>	smooth pigweed/amarante hybride
<i>A. retroflexus</i>	redroot pigweed/amarante à racine rouge
<i>Amsinkia intermedia</i>	fiddleneck
<i>Anagallis arvensis</i>	scarlet pimpernel/mouron rouge
<i>Apocynum androsaemifolium</i>	spreading dogbane/apocyn à feuilles d'androsème
<i>A. cannabinum</i>	hemp dogbane/apocyn chanvrin
<i>Asclepias speciosa</i>	showy milkweed/belle asclépiade
<i>A. syriaca</i>	common milkweed/asclépiade de Syrie
<i>A. verticillata</i>	eastern whorled milkweed/asclépiade verticillée
<i>Astragalus bisulcatus</i>	two-grooved milk-vetch/ astragale fondu
<i>A. lentiginosus</i>	
<i>A. miser</i>	timber milk-vetch/astragale prostré
<i>Barbarea vulgaris</i>	yellow rocket/barbarée vulgaire
<i>Bassia hyssoifolia</i>	five-hooked bassia/bassia à feuilles d'hysope
<i>Centaurea solstitialis</i>	yellow star-thistle/centaurée du solstice
<i>Chenopodium album</i>	lamb's-quarters/chénopode blanc
<i>Chrysothamnus nauseosus</i>	stinking rabbitbush/bigelovie puante
<i>Cicuta douglasii</i>	western water-hemlock/ cicutaire pourpre
<i>C. maculata</i>	spotted water-hemlock/carotte à Moreau
<i>C. virosa</i>	northern water-hemlock/ cicutaire du Nord
<i>Conium maculatum</i>	poison-hemlock/ciguë maculée
<i>Cynoglossum officinale</i>	hound's-tongue/cynoglosse officinal
<i>Daphne cneorum</i>	garland daphne/daphné camélée
<i>D. laureola</i>	spurge-laurel/auriole
<i>D. mezereum</i>	February daphne/daphné jolibois

<i>Datura innoxia</i>	angel's trumpet/stramoine parfumée
<i>D. stramonium</i>	jimsonweed/stramoine commune
<i>Delphinium bicolor</i>	low larkspur/pied d'alouette bicolore
<i>D. glaucum</i>	tall larkspur/pied d'alouette glauque
<i>D. menziesii</i>	Menzies larkspur
<i>Descurainia pinnata</i>	green tansy mustard/moutarde tanaïsie verte
<i>Dicentra canadensis</i>	squirrel-corn/dicentre du Canada
<i>D. cucullaria</i>	Dutchman's-breeches/dicentre à capuchon
<i>D. formosa</i>	western bleedingheart/diélytra à belles fleurs
<i>Digitalis purpurea</i>	foxglove/digitale pourpre
<i>Equisetum arvense</i>	field horsetail/prêle des champs
<i>E. palustre</i>	marsh horsetail/prêle des marais
<i>Eupatorium rugosum</i>	white snakeroot/eupatoire rugueuse
<i>Euphorbia cyparissias</i>	cypress spurge/euphorbe cyprès
<i>E. esula</i>	leafy spurge/euphorbe ésole
<i>Glechoma hederacea</i>	ground-ivy/lierre terrestre
<i>Glyceria grandis</i>	tall manna grass/glycérie géante
<i>Gutierrezia sarothrae</i>	broom snakeweed/gutierrezie faux- sarothra
<i>Helenium autumnale</i>	sneezeweed/hélénie automnale
<i>H. flexuosum</i>	naked-flowered sneezeweed/ hélénie nudiflore
<i>Hymenoxys richardsonii</i>	Colorado rubberweed/hyménoxys de Richardson
<i>Hypericum perforatum</i>	St. John's-wort/millepertuis perforé
<i>Iris versicolor</i>	blue flag/clajoux
<i>Kalmia angustifolia</i>	sheep-laurel/kalmia à feuilles étroites
<i>K. polifolia</i>	bog-laurel/kalmia à feuilles d'andromède
<i>Kochia scoparia</i>	kochia/kochia à balais
<i>Lactuca scariola</i>	prickly lettuce/laitue scariole
<i>Lathyrus odoratus</i>	sweet pea/pois de senteur
<i>L. sativus</i>	grass pea/lentille d'Espagne
<i>Lupinus argenteus</i>	silvery lupine/lupin argenté
<i>L. burkei</i>	Burke's lupine
<i>L. polyphyllus</i>	large-leaved lupine/lupin polyphylle
<i>L. pusillus</i>	small lupine
<i>L. sericeus</i>	silky lupine/lupin soyeux

<i>Menziesia ferruginea</i>	western minniebush/menziézie ferrugineuse
<i>Nicotiana tabacum</i>	tobacco/tabac
<i>Onoclea sensibilis</i>	sensitive fern/onoclée sensible
<i>Oxytropis lambertii</i>	purple locoweed/oxytrophe de Lambert
<i>O. sericea</i>	locoweed/oxytrophe
<i>Phytolacca americana</i>	pokeweed/phytolaque d'Amérique
<i>Pinus ponderosa</i>	ponderosa pine/pin ponderosa
<i>Podophyllum peltatum</i>	May-apple/podophylle pelté
<i>Prunus serotina</i>	black cherry/cerisier tardif
<i>P. virginiana</i>	red chokecherry/cerisier de Virginie
<i>Pteridium aquilinum</i>	bracken/grande fougère
<i>Quercus rubra</i>	red oak/chêne rouge
<i>Q. velutina</i>	black oak/chêne noir
<i>Rhododendron albiflorum</i>	white rose-bay/azalée blanche
<i>R. macrophyllum</i>	California rose-bay/rhododendron de Californie
<i>Robinia pseudoacacia</i>	black locust/robinier
<i>Rudbeckia laciniata</i>	cut-leaved coneflower/rudbeckie laciniée
<i>R. serotina</i>	black-eyed Susan/rudbeckie hérissée
<i>Rumex acetosa</i>	garden sorrel/grande oseille
<i>R. venosus</i>	veined dock/rumex veiné
<i>Sarcobatus vermiculatus</i>	greasewood/sarcobatus vermiculé
<i>Senecio jacobaea</i>	tansy ragwort/séneçon jacobée
<i>S. vulgaris</i>	common groundsel/séneçon vulgaire
<i>Sinapis arvensis</i>	wild mustard/moutarde des champs
<i>Solanum dulcamara</i>	climbing nightshade/morelle douce-amère
<i>S. nigrum</i>	black nightshade/morelle noire
<i>S. tuberosum</i>	potato/pomme de terre
<i>Solidago mollis</i>	velvety goldenrod/verge d'or veloutée
<i>Suckleya suckleyana</i>	poison suckleya/suckleya
<i>Taxus</i> spp.	yews/ifs
<i>Thermopsis rhombifolia</i>	golden-bean
<i>Thlaspi arvense</i>	stinkweed/tabouret des champs
<i>Triglochin maritima</i>	seaside arrow-grass/troscart maritime
<i>Veratrum viride</i>	false hellebore/varaire vert
<i>Vicia villosa</i>	hairy vetch/vesce velue
<i>Xanthium strumarium</i>	cocklebur/lampourde glouteron
<i>Zigadenus elegans</i>	white camas/zigadène élégant
<i>Z. gramineus</i>	death camas/zigadène vénéneux

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INDEX TO COMMON NAMES

- Abrus à chapelet (*Abrus precatorius*), 31
Aconit Napel (*Aconitum napellus*), 41
Agripaume cardiaque (*Leonurus cardiaca*), 31
Ail du Canada (*Allium canadense*), 34–35
Aloes/aloès (*Aloe* spp.), 35
Amarantes (*Amaranthus* spp.), 10
Amaryllis (*Amaryllis* spp.), 10–11
American holly (*Ilex opaca*), 13
American mistletoe (*Phoradendron flavescens*), 37
American stinging nettle (*Urtica dioica*), 49
Angel's trumpet (*Datura innoxia*), 44
Anthuriums (*Anthurium* spp.), 14
Apocyns (*Apocynum* spp.), 13
Arrow-grass, seaside (*Triglochin maritima*), 30
Arum vénéneux (*Dieffenbachia amoena*), 14–15
Asaret du Canada (*Asarum canadense*), 16
Asclépiades (*Asclepias* spp.), 16
Asiminier trilobé (*Asimina triloba*), 12
Astragales (*Astragalus* spp.), 31
Auriole (*Daphne laureola*), 46–47
Autumn crocus (*Colchicum autumnale*), 35
Azaleas/azalées (*Rhododendron* spp.), 26
- Baptisie leucanthe (*Baptisia leucantha*), 32
Barbarée vulgaire (*Barbarea vulgaris*), 24
Bassia à feuilles d'hysope (*Bassia hyssopifolia*), 20
Belle asclépiade (*Asclepias speciosa*), 16
Berce du Caucase (*Heracleum mantegazzianum*), 48
Bigelovie puante (*Chrysothamnus nauseosus*), 21
Black cherry (*Prunus serotina*), 42
Black henbane (*Hyoscyamus niger*), 44–45
Black locust (*Robinia pseudoacacia*), 34
Black oak (*Quercus velutina*), 28
Black-eyed Susan (*Rudbeckia serotina*), 23
Bleedingheart, western (*Dicentra formosa*), 29
Blue cardinalflower (*Lobelia siphilitica*), 18
Blue cohosh (*Caulophyllum thalictroides*), 17
Blue flag (*Iris versicolor*), 30
Bluebell, California (*Phacelia campanularia*), 30
Bluweed (*Echium vulgare*), 17–18
Bog-laurel (*Kalmia polifolia*), 26
Bois d'arc (*Maclura pomifera*), 37
Bracken (*Pteridium aquilinum*), 40
Broom snakeweed (*Gutierrezia sarothrae*), 22
Buckthorns (*Rhamnus* spp.), 42
Bulbous buttercup (*Ranunculus bulbosus*), 42

Burningbush (*Euonymus atropurpureus*), 19–20
 Buttercup, bulbous (*Ranunculus bulbosus*), 42

 Cactus candélabre (*Euphorbia lactea*), 27
 Cagarrino (*Euphorbia lathyris*), 27–28
 Caladium (*Caladium bicolor*), 14
 California bluebell (*Phacelia campanularia*), 30
 California rose-bay (*Rhododendron macrophyllum*), 26
 Calla, wild (*Calla palustris*), 14
 Calla des marais (*Calla palustris*), 14
 Camas (*Zigadenus* spp.), 36–37
 Canada nettle (*Laportea canadensis*), 48–49
 Candelabra-cactus (*Euphorbia lactea*), 27–28
 Caper spurge (*Euphorbia lathyris*), 27–28
 Cardinale bleue (*Lobelia siphilitica*), 18
 Cardinalflower (*Lobelia cardinalis*), 18
 Carotte à Moreau (*Cicuta maculata*), 47–48
 Castor bean (*Ricinus communis*), 28
 Celandine, greater (*Chelidonium majus*), 38
 Centaurée du solstice (*Centaurea solstitialis*), 21
 Cerisier d'amour (*Solanum pseudo-capsicum*), 46
 Cerisiers (*Prunus* spp.), 42–43
 Chélidoine, grande (*Chelidonium majus*), 38
 Chênes (*Quercus* spp.), 28
 Chénopode blanc (*Chenopodium album*), 20
 Cherry, black (*Prunus serotina*), 42
 Chèvrefeuilles (*Lonicera* spp.), 18
 Chicot du Canada (*Gymnocladus dioicus*), 32
 Chokecherry, red (*Prunus virginiana*), 43
 Chou puant (*Symplocarpus foetidus*), 15
 Chrysanthemums/chrysanthèmes (*Chrysanthemum* spp.), 21
 Cicutaires (*Cicuta* spp.), 47–48
 Ciguë maculée (*Conium maculatum*), 48
 Clajeux (*Iris versicolor*), 30
 Climbing nightshade (*Solanum dulcamara*), 45
 Clivies (*Clivia* spp.), 11
 Cockle, purple (*Agrostemma githago*), 19
 Cocklebur (*Xanthium strumarium*), 24
 Codier (*Codiaeum variegatum*), 27
 Coffeetree, Kentucky (*Gymnocladus dioicus*), 32
 Cohosh, blue (*Caulophyllum thalictroides*), 17
 Colchique d'automne (*Colchicum autumnale*), 35
 Colorado rubberweed (*Hymenoxys richardsonii*), 22
 Common groundsel (*Senecio vulgaris*), 24
 Common milkweed (*Asclepias syriaca*), 16
 Common privet (*Ligustrum vulgare*), 37–38
 Coneflower, cut-leaved (*Rudbeckia laciniata*), 23
 Coqueret (*Physalis peruviana*), 45
 Corn poppy (*Papaver rhoeas*), 39

Couronne d'épines (*Euphorbia milii*), 27–28
 Crocus, autumn (*Colchicum autumnale*), 35
 Croton (*Codiaeum variegatum*), 27
 Crown-of-thorns (*Euphorbia milii*), 27–28
 Cut-leaved coneflower (*Rudbeckia laciniata*), 23
 Cynoglosse officinal (*Cynoglossum officinale*), 17
 Cypress spurge (*Euphorbia cyparissias*), 27–28
 Cypripèdes (*Cypripedium* spp.), 38
 Cytise (*Laburnum anagyroides*), 32

Daffodil (*Narcissus pseudonarcissus*), 11
 Dame d'onze heures (*Ornithogalum umbellatum*), 36
 Daphnes/daphnés (*Daphne* spp.), 46–47
 Dicentres (*Dicentra* spp.), 28–29
 Dictame (*Dictamnus albus*), 43
 Dieffenbachias (*Dieffenbachia* spp.), 14–15
 Dielytra à belles fleurs (*Dicentra formosa*), 29
 Digitale pourpre (*Digitalis purpurea*), 43–44
 Dirca des marais (*Dirca palustris*), 47
 Dock, veined (*Rumex venosus*), 40
 Dogbanes (*Apocynum* spp.), 13
 Dumbcanes (*Dieffenbachia* spp.), 14–15
 Dutchman's-breeches (*Dicentra cucullaria*), 28–29

Eastern whorled milkweed (*Asclepias verticillata*), 16
 Elders (*Sambucus* spp.), 18–19
 English ivy (*Hedera helix*), 16
 Érable rouge (*Acer rubrum*), 10
 Eupatoire rugueuse (*Eupatorium rugosum*), 21–22
 Euphorbes (*Euphorbia* spp.), 27–28
 European buckthorn (*Rhamnus cathartica*), 42
 European spindletree (*Euonymus europaeus*), 19–20

False hellebore (*Veratrum viride*), 36
 False indigo, wild (*Baptisia leucantha*), 32
 False ragweed (*Iva xanthifolia*), 23
 Fausse herbe à poux (*Iva xanthifolia*), 23
 February daphne (*Daphne mezereum*), 47
 Fiddleneck (*Amsinkia intermedia*), 17
 Field horsetail (*Equisetum arvense*), 25
 Five-hooked bassia (*Bassia hyssopifolia*), 20
 Fougère, grande (*Pteridium aquilinum*), 40
 Foxglove (*Digitalis purpurea*), 43–44
 Frêne puant (*Ailanthus altissima*), 44
 Fusains (*Euonymus* spp.), 19–20

Garden sorrel (*Rumex acetosa*), 40
 Garland daphne (*Daphne cneorum*), 46–47
 Gas plant (*Dictamnus albus*), 43

Giant dumbcane (*Dieffenbachia amoena*), 14–15
 Giant hogweed (*Heracleum mantegazzianum*), 48
 Ginger, wild (*Asarum canadense*), 16
 Ginkgo (*Ginkgo biloba*), 29
 Glorieuse du Malabar (*Gloriosa superba*), 35–36
 Glory lily (*Gloriosa superba*), 35–36
 Glycérie géante (*Glyceria grandis*), 29
 Glycines (*Wisteria* spp.), 34
 Golden-bean (*Thermopsis rhombifolia*), 34
 Golden-chain (*Laburnum anagyroides*), 32
 Golden-trumpet (*Allamanda cathartica*), 12–13
 Goldenrod, velvety (*Solidago mollis*), 24
 Graines à chapelet (*Caulophyllum thalictroides*), 17
 Grande chélidoine (*Chelidonium majus*), 38
 Grande fougère (*Pteridium aquilinum*), 40
 Grande oseille (*Rumex acetosa*), 40
 Grass pea (*Lathyrus sativus*), 32–33
 Greasewood (*Sarcobatus vermiculatus*), 20–21
 Greater celandine (*Chelidonium majus*), 38
 Green tansy mustard (*Descurainia pinnata*), 24–25
 Ground-cherry (*Physalis peruviana*), 45
 Ground-ivy (*Glechoma hederacea*), 31
 Groundsel, common (*Senecio vulgaris*), 24
 Guelder-rose (*Viburnum opulus*), 19
 Gui de chêne (*Phoradendron flavescens*), 37
 Gutierrezie faux-sarothra (*Gutierrezia sarothrae*), 22

Hairy vetch (*Vicia villosa*), 34
 Héléniés (*Helenium* spp.), 22
 Hélio trope obové de Curaçao (*Heliotropium curassavicum*), 18
 Hellebore, false (*Veratrum viride*), 36
 Hemlock, poison (*Conium maculatum*), 48
 Hemp dogbane (*Apocynum cannabinum*), 13
 Henbane, black (*Hyoscyamus niger*), 44–45
 Herbe à la puce (*Rhus radicans*), 11–12
 Herbe à poux, fausse (*Iva xanthifolia*), 23
 Hogweed, giant (*Heracleum mantegazzianum*), 48
 Holly, American (*Ilex opaca*), 13
 Honeysuckles (*Lonicera* spp.), 18
 Horse-chestnut (*Aesculus hippocastanum*), 30
 Horsetails (*Equisetum* spp.), 25
 Hortensia (*Hydrangea macrophylla*), 43
 Hound's-tongue (*Cynoglossum officinale*), 17
 Houx d'Amérique (*Ilex opaca*), 13
 Hydrangea (*Hydrangea macrophylla*), 43
 Hyménoxis de Richardson (*Hymenoxis richardsonii*), 22

Iceland poppy (*Papaver nudicaulis*), 38–39
 Ifs (*Taxus* spp.), 46

Indian-tobacco (*Lobelia inflata*), 18
 Indigo wild/sauvage (*Baptisia tinctoria*), 32
 Ivy, English (*Hedera helix*), 16
 Ivy, ground (*Glechoma hederacea*), 31
 Ivy, poison (*Rhus radicans*), 11–12

Jack-in-the-pulpit (*Arisaema triphyllum*), 14
 Jasmin de nuit (*Cestrum nocturnum*), 44
 Jerusalem-cherry (*Solanum pseudo-capsicum*), 46
 Jessamine, night-blooming (*Cestrum nocturnum*), 44
 Jimsonweed (*Datura stramonium*), 44
 Jonquille (*Narcissus pseudonarcissus*), 11
 Jusquiame noire (*Hyoscyamus niger*), 44

Kaffir lilies (*Clivia* spp.), 11
 Kalmias (*Kalmia* spp.), 26
 Kentucky coffeetree (*Gymnocladus dioica*), 32
 Kochia/kochia à balais (*Kochia scoparia*), 20

Lady's-slippers (*Cypripedium* spp.), 38
 Laitue scariole (*Lactuca scariola*), 23
 Lamb's-quarters (*Chenopodium album*), 20
 Lampourde glouteron (*Xanthium strumarium*), 24
 Laportéa du Canada (*Laportea canadensis*), 48–49
 Larkspurs (*Delphinium* spp.), 41–42
 Laurier rose (*Nerium oleander*), 13
 Leafy spurge (*Euphorbia esula*), 27–28
 Leatherwood (*Dirca palustris*), 47
 Lentille d'Espagne (*Lathyrus sativus*), 32–33
 Lettuce, prickly (*Lactuca scariola*), 23
 Lierre commun (*Hedera helix*), 16
 Lierre terrestre (*Glechoma hederacea*), 31
 Lily, glory (*Gloriosa superba*), 35–36
 Lilies, Kaffir (*Clivia* spp.), 11
 Lily-of-the-valley (*Convallaria majalis*), 35
 Lobélies (*Lobelia* spp.), 18
 Locoweeds (*Oxytropis* spp.), 33–34
 Locust, black (*Robinia pseudoacacia*), 34
 Low larkspur (*Delphinium bicolor*), 41–42
 Lupines/lupins (*Lupinus* spp.), 33

Maidenhair tree (*Ginkgo biloba*), 29
 Manna grass, tall (*Glyceria grandis*), 29
 Maple, red (*Acer rubrum*), 10
 Marronnier (*Aesculus hippocastanum*), 30
 Marsh horsetail (*Equisetum palustre*), 25
 May-apple (*Podophyllum peltatum*), 17
 Ménisperme du Canada (*Menispermum canadense*), 37
 Menzies larkspur (*Delphinium menziesii*), 41–42

Menziézie ferrugineuse (*Menziesia ferruginea*), 26
Milk-vetches (*Astragalus* spp.), 31
Milkweeds (*Asclepias* spp.), 16
Millepertuis perforé (*Hypericum perforatum*), 29
Minniebush, western (*Menziesia ferruginea*), 26
Mistletoe, American (*Phoradendron flavescens*), 37
Monk's hood (*Aconitum napellus*), 41
Moonseed (*Menispermum canadense*), 37
Morelles (*Solanum* spp.), 45
Motherwort (*Leonurus cardiaca*), 31
Mouron rouge (*Anagallis arvensis*), 41
Moutarde des champs (*Sinapis arvensis*), 25
Moutarde tanaïsie verte (*Descurainia pinnata*), 24–25
Muguet (*Convallaria majalis*), 35
Mustard, green tansy (*Descurainia pinnata*), 24–25
Mustard, wild (*Sinapis arvensis*), 25

Narcissus/narcisse (*Narcissus poeticus*), 11
Nerpruns (*Rhamnus* spp.), 42
Nettle, American stinging (*Urtica dioica*), 49
Nettle, Canada (*Laportea canadensis*), 48–49
Nielle (*Agrostemma githago*), 19
Night-blooming jessamine (*Cestrum nocturnum*), 44
Nightshades (*Solanum* spp.), 45–46
Northern water-hemlock (*Cicuta virosa*), 47–48

Oaks (*Quercus* spp.), 28
Oak, poison (*Rhus diversiloba*), 11–12
Obier (*Viburnum opulus*), 19
Oignon (*Allium cepa*), 35
Oleander (*Nerium oleander*), 13
Onion (*Allium cepa*), 35
Onoclée sensible (*Onoclea sensibilis*), 40
Opium poppy (*Papaver somniferum*), 39
Oriental poppy (*Papaver orientale*), 38–39
Ortie dioïque d'Amérique (*Urtica dioica*), 49
Osage-orange (*Maclura pomifera*), 37
Oseille, grande (*Rumex acetosa*), 40
Oxytropis/oxytropes (*Oxytropis* spp.), 33–34

Panais sauvage (*Pastinaca sativa*), 48
Parsnip, wild (*Pastinaca sativa*), 48
Pavots (*Papaver* spp.), 38–39
Pawpaw (*Asimina triloba*), 12
Pea, grass (*Lathyrus sativus*), 32–33
Pea, sweet (*Lathyrus odoratus*), 32–33
Penciltree (*Euphorbia tirucalli*), 27–28
Perce-neige (*Galanthus nivalis*), 11
Petit-prêcheur (*Arisaema triphyllum*), 14

Petty spurge (*Euphorbia peplus*), 27–28
 Phacélie de Californie (*Phacelia campanularia*), 30
 Philodendrons (*Philodendron* spp.), 15
 Philodendron monstéra (*Monstera deliciosa*), 15
 Phytolaque d'Amérique (*Phytolacca americana*), 39
 Pieds d'alouette (*Delphinium* spp.), 41–42
 Pigweeds (*Amaranthus* spp.), 10
 Pimpernel, scarlet (*Anagallis arvensis*), 41
 Pin ponderosa (*Pinus ponderosa*), 39
 Pink lady's-slipper (*Cypripedium acaule*), 38
 Podophylle pelté (*Podophyllum peltatum*), 17
 Pois de senteur (*Lathyrus odoratus*), 32–33
 Poison hemlock (*Conium maculatum*), 48
 Poison suckleya (*Suckleya suckleyana*), 21
 Poison sumac (*Rhus vernix*), 12
 Poison-ivy (*Rhus radicans*), 11–12
 Poison-oak, western (*Rhus diversiloba*), 11–12
 Pokeweed (*Phytolacca americana*), 39
 Pomme de terre (*Solanum tuberosum*), 46
 Ponderosa pine (*Pinus ponderosa*), 39
 Poppies (*Papaver* spp.), 38–39
 Potato (*Solanum tuberosum*), 46
 Precatory-pea (*Abrus precatorius*), 31
 Prêles (*Equisetum* spp.), 25
 Prickly lettuce (*Lactuca scariola*), 23
 Primula (*Primula obconica*), 41
 Privet, common (*Ligustrum vulgare*), 37–38
 Prostrate pigweed (*Amaranthus blitoides*), 10
 Purple cockle (*Agrostemma githago*), 19
 Purple locoweed (*Oxytropis lambertii*), 33

Rabbitbush, stinking (*Chrysothamnus nauseosus*), 21
 Ragweed, false (*Iva xanthifolia*), 23
 Ragwort, tansy (*Senecio jacobaea*), 23–24
 Red maple (*Acer rubrum*), 10
 Red oak (*Quercus rubra*), 28
 Red chokecherry (*Prunus virginiana*), 43
 Redroot pigweed (*Amaranthus retroflexus*), 10
 Renoncule bulbeuse (*Ranunculus bulbosus*), 42
 Rhododendrons (*Rhododendron* spp.), 26
 Rhubarb/rhubarbe (*Rheum rhaponticum*), 39–40
 Ricin (*Ricinus communis*), 28
 Robinier faux-acacia (*Robinia pseudoacacia*), 34
 Rocket, yellow (*Barbarea vulgaris*), 24
 Rose-bays (*Rhododendron* spp.), 26
 Rubberweed, Colorado (*Hymenoxys richardsonii*), 22
 Rudbeckies (*Rudbeckia* spp.), 23
 Rumex veiné (*Rumex venosus*), 40

Sarbocatus vermiculé (*Sarbocatus vermiculatus*), 20
 Scarlet pimpernel (*Anagallis arvensis*), 41
 Seaside arrow-grass (*Triglochin maritima*), 30
 Sénéçons (*Senecio* spp.), 23–24
 Sensitive fern (*Onoclea sensibilis*), 40
 Sheep-laurel (*Kalmia angustifolia*), 26
 Showy milkweed (*Asclepias speciosa*), 16
 Skunk cabbage (*Symplocarpus foetidus*), 15
 Smooth pigweed (*Amaranthus hybridus*), 10
 Snakeroot, white (*Eupatorium rugosum*), 21–22
 Snakeweed, broom (*Gutierrezia sarothrae*), 22
 Sneezeweeds (*Helenium* spp.), 22
 Snowberry, thin-leaved (*Symphoricarpos albus*), 19
 Snowdrop (*Galanthus nivalis*), 11
 Sorrel, garden (*Rumex acetosa*), 40
 Spatulate-leaved heliotrope (*Heliotropium curassavicum*), 18
 Spindletree, European (*Euonymus europaeus*), 19–20
 Spotted dumbcane (*Dieffenbachia picta*), 15
 Spotted water-hemlock (*Cicuta maculata*), 47–48
 Spreading dogbane (*Apocynum androsaemifolium*), 13
 Spurges (*Euphorbia* spp.), 27–28
 Spurge-laurel (*Daphne laureola*), 46–47
 Squirrel-corn (*Dicentra canadensis*), 28–29
 St. John's-wort (*Hypericum perforatum*), 29
 Star-of-Bethlehem (*Ornithogalum umbellatum*), 36
 Star-thistle, yellow (*Centaurea solstitialis*), 21
 Stinking rabbitbush (*Chrysothamnus nauseosus*), 21
 Stinkweed (*Thlaspi arvense*), 25
 Stramoines (*Datura* spp.), 44
 Suckleya, poison (*Suckleya suckleyana*), 21
 Sumacs (*Rhus* spp.), 11–12
 Sun spurge (*Euphorbia helioscopia*), 27–28
 Sureaux (*Sambucus* spp.), 18–19
 Sweet pea (*Lathyrus odoratus*), 32–33
 Swiss-cheese plant (*Monstera deliciosa*), 15
 Symphorine à grappes (*Symphoricarpos albus*), 19

 Tabac (*Nicotiana tabacum*), 45
 Tabouret des champs (*Thlaspi arvense*), 25
 Tall larkspur (*Delphinium glaucum*), 41–42
 Tall manna grass (*Glyceria grandis*), 29
 Tansy ragwort (*Senecio jacobaea*), 23–24
 Thin-leaved snowberry (*Symphoricarpos albus*), 19
 Timber milk-vetch (*Astragalus miser*), 31
 Tobacco (*Nicotiana tabacum*), 45
 Tree-of-heaven (*Ailanthus altissima*), 44
 Troène commun (*Ligustrum vulgare*), 37–38
 Trompette dorée (*Allamanda cathartica*), 12–13
 Troscart maritime (*Triglochin maritima*), 30

Tulips/tulipes (*Tulipa* spp.), 36
Two-grooved milk-vetch (*Astragalus bisulcatus*), 31

Varaire vert (*Veratrum viride*), 36
Veined dock (*Rumex venosus*), 40
Verge d'or veloutée (*Solidago mollis*), 24
Vesce velue (*Vicia villosa*), 34
Vetch, hairy (*Vicia villosa*), 34
Vigne vierge (*Parthenocissus quinquefolia*), 49
Vipérine (*Echium vulgare*), 17–18
Virginia creeper (*Parthenocissus quinquefolia*), 49

Water-hemlocks (*Cicuta* spp.), 47–48
Western bleedingheart (*Dicentra formosa*), 29
Western minniebush (*Menziesia ferruginea*), 26
Western poison-oak (*Rhus diversiloba*), 11–12
Western water-hemlock (*Cicuta douglasii*), 47–48
White camas (*Zigadenus elegans*), 36–37
White rose-bay (*Rhododendron albiflorum*), 26
White snakeroot (*Eupatorium rugosum*), 21–22
Wild calla (*Calla palustris*), 14
Wild false indigo (*Baptisia leucantha*), 32
Wild ginger (*Asarum canadense*), 16
Wild indigo (*Baptisia tinctoria*), 32
Wild mustard (*Sinapis arvensis*), 25
Wild onion (*Allium canadense*), 34–35
Wild parsnip (*Pastinaca sativa*), 48
Wisterias (*Wisteria* spp.), 34

Yellow lady's-slipper (*Cypripedium calceolus*), 38
Yellow rocket (*Barbarea vulgaris*), 24
Yellow star-thistle (*Centaurea solstitialis*), 21
Yews (*Taxus* spp.), 46

Zigadènes (*Zigadenus* spp.), 36–37

INDEX TO BOTANICAL NAMES

- Abrus precatorius*, 31
Acer rubrum, 10
Aconitum napellus, 41
Aesculus hippocastanum, 30
Agrostemma githago, 19
Ailanthus altissima, 44
Allamanda cathartica, 12–13
Allium spp., 34–35
Aloe spp., 35
Amaranthus spp., 10
Amaryllis spp., 10–11
Amsinkia intermedia, 17
Anagallis arvensis, 41
Anthurium spp., 14
Apocynum spp., 13
Arisaema triphyllum, 14
Asarum canadense, 16
Asclepias spp., 16
Asimina triloba, 12
Astragalus spp., 31
- Baptisia* spp., 32
Barbarea vulgaris, 24
Bassia hyssopifolia, 20
- Caladium bicolor*, 14
Calla palustris, 14
Caulophyllum thalictroides, 17
Centaurea solstitialis, 21
Cestrum nocturnum, 44
Chelidonium majus, 38
Chenopodium album, 20
Chrysanthemum spp., 21
Chrysothamnus nauseosus, 21
Cicuta spp., 47–48
Clivia spp., 11
Codiaeum variegatum, 27
Colchicum autumnale, 35
Conium maculatum, 48
Convallaria majalis, 35
Cynoglossum officinale, 17
Cypripedium spp., 38
- Daphne* spp., 46–47
Datura spp., 44
Delphinium spp., 41–42

Descurainia pinnata, 24–25
Dicentra spp., 28–29
Dictamnus albus, 43
Dieffenbachia spp., 14–15
Digitalis purpurea, 43–44
Dirca palustris, 47

Echium vulgare, 17–18
Equisetum spp., 25
Euonymus spp., 19–20
Eupatorium rugosum, 21–22
Euphorbia spp., 27–28

Galanthus nivalis, 11
Ginkgo biloba, 29
Glechoma hederacea, 31
Gloriosa superba, 35–36
Glyceria grandis, 29
Gutierrezia sarothrae, 22
Gymnocladus dioicus, 32

Hedera helix, 16
Helenium spp., 22
Heliotropium curassavicum, 18
Heracleum mantegazzianum, 48
Hydrangea macrophylla, 43
Hymenoxys richardsonii, 22
Hyoscyamus niger, 44–45
Hypericum perforatum, 29

Ilex opaca, 13
Iris versicolor, 30
Iva xanthifolia, 23

Kalmia spp., 26
Kochia scoparia, 20

Laburnum anagyroides, 32
Lactuca scariola, 23
Laportea canadensis, 48–49
Lathyrus spp., 32–33
Leonurus cardiaca, 31
Ligustrum vulgare, 37–38
Lobelia spp., 18
Lonicera spp., 18
Lupinus spp., 33

Maclura pomifera, 37
Menispermum canadense, 37

Menziesia ferruginea, 26
Monstera deliciosa, 15

Narcissus spp., 11
Nerium oleander, 13
Nicotiana tabacum, 45

Onoclea sensibilis, 40
Ornithogalum umbellatum, 36
Oxytropis spp., 33–34

Papaver spp., 38–39
Parthenocissus quinquefolia, 49
Pastinaca sativa, 48
Phacelia campanularia, 30
Philodendron spp., 15
Phoradendron flavescens, 37
Physalis peruviana, 45
Phytolacca americana, 39
Pinus ponderosa, 39
Podophyllum peltatum, 17
Primula obconica, 41
Prunus spp., 42–43
Pteridium aquilinum, 40

Quercus spp., 28

Ranunculus bulbosus, 42
Rhamnus spp., 42
Rheum rhaponticum, 39–40
Rhododendron spp., 26
Rhus spp., 11–12
Ricinus communis, 28
Robinia pseudoacacia, 34
Rudbeckia spp., 23
Rumex spp., 40

Sambucus spp., 18–19
Sarcobatus vermiculatus, 20–21
Senecio spp., 23–24
Sinapis arvensis, 25
Solanum spp., 45
Solidago mollis, 24
Suckleya suckleyana, 21
Symphoricarpos albus, 19
Symplocarpus foetidus, 15

Taxus spp., 46
Thermopsis rhombifolia, 34

Thlaspi arvense, 25
Triglochin maritima, 30
Tulipa spp., 36

Urtica dioica, 49

Veratrum viride, 36
Viburnum opulus, 19
Vicia villosa, 34

Wisteria spp., 34

Xanthium strumarium, 24

Zigadenus spp., 36–37

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