

571—77.3(481B) Endangered, threatened, and special concern plants. The natural resource commission, in consultation with scientists with special knowledge and experience, determined the following plant species to be endangered, threatened, or of special concern in Iowa.

77.3(1) Endangered plant species:

COMMON NAME	SCIENTIFIC NAME
Pale false foxglove	Agalinus skinneriana
Blue giant-hyssop	Agastache foeniculum
Bearberry	Arctostaphylos uva-ursi
Black chokeberry	Aronia melanocarpa
Eared milkweed	Asclepias engelmanniana
Mead's milkweed	Asclepias meadii
Narrow-leaved milkweed	Asclepias stenophylla
Ricebutton aster	Aster dumosus
Large-leaved aster	Aster macrophyllus
Schreber's aster	Aster schreberi
Fern-leaved false foxglove	Aureolaria pedicularia
Matricary grape fern	Botrychium matricariifolium
Poppy mallow	Callirhoe triangulata
Cordroot sedge	Carex chordorrhiza
Large-bracted corydalis	Corydalis curvisiliqua
Silky prairie-clover	Dalea villosa
Swamp-loosestrife	Decodon verticillatus
Northern panic-grass	Dichanthelium boreale
Roundleaved sundew	Drosera rotundifolia
False mermaid	Floerkea proserpinacoides
Bog bedstraw	Galium labradoricum
Povertygrass	Hudsonia tomentosa
Northern St. Johnswort	Hypericum boreale
Pineweed	Hypericum gentianoides
Winterberry	Ilex verticillata
Black-based quillwort	Isoetes melanopoda
Water-willow	Justicia americana
Dwarf dandelion	Krigia virginica
Cleft conochea	Leucospora multifida
Whiskbroom parsley	Lomatium foeniculaceum
Running clubmoss	Lycopodium clavatum
Bog clubmoss	Lycopodium inundatum
Annual skeletonweed	Lygodesmia rostrata
Water marigold	Megalodonta beckii
Northern lungwort	Mertensia paniculata
Bigroot pricklypear	Opuntia macrorhiza
Clustered broomrape	Orobanche fasciculata
Ricegrass	Oryzopsis pungens
Cinnamon fern	Osmunda cinnamomea
Purple cliffbrake	Pellaea atropurpurea
Arrow arum	Peltandra virginica
Pale green orchid	Platanthera flava
Eastern prairie fringed orchid	Platanthera leucophaea
Clammyweed	Polansia jamesii
Crossleaf milkwort	Polygala cruciata
Purple milkwort	Polygala polygama
Jointweed	Polygonella articulata
Douglas' knotweed	Polygonum douglasii
Three-toothed cinquefoil	Potentilla tridentata

Canada plum
 Frenchgrass
 Pink shinleaf
 Prickly rose
 Meadow spikemoss
 Rough-leaved goldenrod
 Bog goldenrod
 Yellow-lipped ladies-tresses
 Pickering morning-glory
 Rough-seeded fameflower
 Waxy meadowrue
 Long beechfern
 Large-leaved violet
 Rusty woodsia
 Yellow-eyed grass

Prunus nigra
 Psoralea onobrychis
 Pyrola asarifolia
 Rosa acicularis
 Selaginella eclipes
 Solidago patula
 Solidago uliginosa
 Spiranthes lucida
 Stylisma pickeringii
 Talinum rugospermum
 Thalictrum revolutum
 Thelypteris phegopteris
 Viola incognita
 Woodsia ilvensis
 Xyris torta

77.3(2) *Threatened plant species:*

Northern wild monkshood
 Round-stemmed false foxglove
 Nodding wild onion
 Fragrant false indigo
 Virginia snakeroot
 Woolly milkweed
 Showy milkweed
 Forked aster
 Rush aster
 Flax-leaved aster
 Water parsnip
 Kittentails
 Bog birch
 Pagoda plant
 Leathery grapefern
 Little grapefern
 Sweet Indian-plantain
 Poppy mallow
 Pipsissewa
 Golden saxifrage
 Dayflower
 Spotted coralroot
 Bunchberry
 Golden corydalis
 Pink corydalis
 Showy lady's-slipper
 Slim-leaved panic-grass
 Jeweled shooting star
 Glandular wood fern
 Marginal shield fern
 Woodland horsetail
 Slender cottongrass
 Yellow trout lily
 Queen of the prairie
 Blue ash
 Black huckleberry
 Oak fern

Aconitum noveboracense
 Agalinus gattererii
 Allium cernuum
 Amorpha nana
 Aristolochia serpentaria
 Asclepias lanuginosa
 Asclepias speciosa
 Aster furcatus
 Aster junciformis
 Aster linariifolius
 Berula erecta
 Besseyia bullii
 Betula pumila
 Blephilia ciliata
 Botrychium multifidum
 Botrychium simplex
 Cacialia suaveolens
 Callirhoe alcaeoides
 Chimaphila umbellata
 Chrysosplenium iowense
 Commelina erecta
 Corallorhiza maculata
 Cornus canadensis
 Corydalis aurea
 Corydalis sempervirens
 Cypripedium reginae
 Dichanthelium linearifolium
 Dodecatheon amethystinum
 Dryopteris intermedia
 Dryopteris marginalis
 Equisetum sylvaticum
 Eriophorum gracile
 Erythronium americanum
 Filipendula rubra
 Fraxinus quadrangulata
 Gaylussacia baccata
 Gymnocarpium dryopteris

Green violet	Hybanthus concolor
Twinleaf	Jeffersonia diphylla
Creeping juniper	Juniperus horizontalis
Intermediate pinweed	Lechea intermedia
Hairy pinweed	Lechea villosa
Prairie bush clover	Lespedeza leptostachya
Twinflower	Linnaea borealis
Western parsley	Lomatium orientale
Wild lupine	Lupinus perennis
Tree clubmoss	Lycopodium dendroideum
Rock clubmoss	Lycopodium porophilum
Hairy watercress	Marsilea vestita
Bog buckbean	Menyanthes trifoliata
Winged monkeyflower	Mimulus alatus
Yellow monkeyflower	Mimulus glabratus
Partridge berry	Mitchella repens
Pinesap	Monotropa hypopithys
Small sundrops	Oenothera perennis
Little pricklypear	Opuntia fragilis
Royal fern	Osmunda regalis
Philadelphia panic-grass	Panicum philadelphicum
Slender beardtongue	Penstemon gracilis
Hooker's orchid	Platanthera hookeri
Northern bog orchid	Platanthera hyperborea
Western prairie fringed orchid	Platanthera praeclara
Purple fringed orchid	Platanthera psycodes
Pink milkwort	Polygala incarnata
Silverweed	Potentilla anserina
Shrubby cinquefoil	Potentilla fruticosa
Pennsylvania cinquefoil	Potentilla pensylvanica
One-sided shinleaf	Pyrola secunda
Meadow beauty	Rhexia virginica
Beaked rush	Rhynchospora capillacea
Northern currant	Ribes hudsonianum
Shining willow	Salix lucida
Bog willow	Salix pedicellaris
Low nutrush	Scleria verticillata
Buffaloberry	Shepherdia argentea
Scarlet globemallow	Sphaeralcea coccinea
Slender ladies-tresses	Spiranthes lacera
Oval ladies-tresses	Spiranthes ovalis
Hooded ladies-tresses	Spiranthes romanzoffiana
Spring ladies-tresses	Spiranthes vernalis
Rosy twisted-stalk	Streptopus roseus
Fameflower	Talinum parviflorum
Large arrowgrass	Triglochin maritimum
Small arrowgrass	Triglochin palustre
Low sweet blueberry	Vaccinium angustifolium
Velvetleaf blueberry	Vaccinium myrtilloides
False hellebore	Veratrum woodii
Kidney-leaved violet	Viola renifolia
Oregon woodsia	Woodsia oregana

77.3(3) *Special concern plant species:*

Balsam fir	<i>Abies balsamea</i>
Three-seeded mercury	<i>Acalypha gracilens</i>
Three-seeded mercury	<i>Acalypha ostryifolia</i>
Mountain maple	<i>Acer spicatum</i>
Moschatel	<i>Adoxa moschatellina</i>
Water plantain	<i>Alisma gramineum</i>
Wild onion	<i>Allium mutabile</i>
Amaranth	<i>Amaranthus arenicola</i>
Lanceleaf ragweed	<i>Ambrosia bidentata</i>
Saskatoon serviceberry	<i>Amelanchier alnifolia</i>
Low serviceberry	<i>Amelanchier sanguinea</i>
Raccoon grape	<i>Ampelopsis cordata</i>
Pearly everlasting	<i>Anaphalis margaritacea</i>
Sand bluestem	<i>Andropogon hallii</i>
Broomsedge	<i>Andropogon virginicus</i>
Purple angelica	<i>Angelica atropurpurea</i>
Purple rockcress	<i>Arabis divaricarpa</i>
Green rockcress	<i>Arabis missouriensis</i>
Lakecress	<i>Armoracia lacustris</i>
Fringed sagewort	<i>Artemisia frigida</i>
Common mugwort	<i>Artemisia vulgaris</i>
Pawpaw	<i>Asimina triloba</i>
Curved aster	<i>Aster falcatus</i>
Hairy aster	<i>Aster pubentior</i>
Prairie aster	<i>Aster turbinellus</i>
Standing milkvetch	<i>Astragalus adsurgens</i>
Bent milkvetch	<i>Astragalus distortus</i>
Missouri milkvetch	<i>Astragalus missouriensis</i>
Blue wild indigo	<i>Baptisia australis</i>
Yellow wild indigo	<i>Baptisia tinctoria</i>
Prairie moonwort	<i>Botrychium campestre</i>
Watershield	<i>Brasenia schreberi</i>
Buffalograss	<i>Buchloe dactyloides</i>
Poppy mallow	<i>Callirhoe papaver</i>
Water-starwort	<i>Callitriche heterophylla</i>
Grass pink	<i>Calopogon tuberosus</i>
Low bindweed	<i>Calystegia spithamea</i>
Clustered sedge	<i>Carex aggregata</i>
Back's sedge	<i>Carex backii</i>
Bush's sedge	<i>Carex bushii</i>
Carey's sedge	<i>Carex careyana</i>
Flowerhead sedge	<i>Carex cephalantha</i>
Field sedge	<i>Carex conoidea</i>
Crawe's sedge	<i>Carex crawei</i>
Fringed sedge	<i>Carex crinita</i>
Double sedge	<i>Carex diandra</i>
Douglas' sedge	<i>Carex douglasii</i>
Dry sedge	<i>Carex foena</i>
Thin sedge	<i>Carex gracilescens</i>
Delicate sedge	<i>Carex leptalea</i>
Mud sedge	<i>Carex limosa</i>
Hoplike sedge	<i>Carex lupuliformis</i>
Yellow sedge	<i>Carex lurida</i>
Intermediate sedge	<i>Carex media</i>

Backward sedge	<i>Carex retroflexa</i>
Richardson's sedge	<i>Carex richardsonii</i>
Rocky Mountain sedge	<i>Carex saximontana</i>
Sterile sedge	<i>Carex sterilis</i>
Soft sedge	<i>Carex tenera</i>
Deep green sedge	<i>Carex tosa</i>
Tuckerman's sedge	<i>Carex tuckermanii</i>
Umbrella sedge	<i>Carex umbellata</i>
Wild oats	<i>Chasmanthium latifolium</i>
Pink turtlehead	<i>Chelone obliqua</i>
Fogg's goosefoot	<i>Chenopodium foggii</i>
Missouri goosefoot	<i>Chenopodium missouriensis</i>
Coast blite	<i>Chenopodium rubrum</i>
Bugbane	<i>Cimicifuga racemosa</i>
Hill's thistle	<i>Cirsium hillii</i>
Swamp thistle	<i>Cirsium muticum</i>
Wavy-leaved thistle	<i>Cirsium undulatum</i>
Western clematis	<i>Clematis occidentalis</i>
Blue-eyed Mary	<i>Collinsia verna</i>
Cancer-root	<i>Conopholis americana</i>
Fireberry hawthorn	<i>Crataegus chrysoarpa</i>
Red hawthorn	<i>Crataegus coccinea</i>
Two-fruited hawthorn	<i>Crataegus disperma</i>
Hawthorn	<i>Crataegus pruinosa</i>
Hawksbeard	<i>Crepis runcinata</i>
Prairie tea	<i>Croton monanthogynus</i>
Crotonopsis	<i>Crotonopsis elliptica</i>
Waxweed	<i>Cuphea viscosissima</i>
Dodder	<i>Cuscuta indecora</i>
Small white lady's-slipper	<i>Cypripedium candidum</i>
Carolina larkspur	<i>Delphinium carolinianum</i>
Sessile-leaved tick trefoil	<i>Desmodium sessilifolium</i>
Fingergrass	<i>Digitaria filiformis</i>
Buttonweed	<i>Diodia teres</i>
Purple coneflower	<i>Echinacea purpurea</i>
Waterwort	<i>Elatine triandra</i>
Purple spikerush	<i>Eleocharis atropurpurea</i>
Green spikerush	<i>Eleocharis olivacea</i>
Oval spikerush	<i>Eleocharis ovata</i>
Dwarf spikerush	<i>Eleocharis parvula</i>
Few-flowered spikerush	<i>Eleocharis pauciflora</i>
Wolf's spikerush	<i>Eleocharis wolfii</i>
Interrupted wildrye	<i>Elymus interruptus</i>
Dwarf scouring rush	<i>Equisetum scirpoides</i>
Ponygrass	<i>Eragrostis reptans</i>
Tall cottongrass	<i>Eriophorum angustifolium</i>
Tawny cottongrass	<i>Eriophorum virginicum</i>
Upland boneset	<i>Eupatorium sessilifolium</i>
Spurge	<i>Euphorbia commutata</i>
Missouri spurge	<i>Euphorbia missurica</i>
Slender fimbriistylis	<i>Fimbristylis autumnalis</i>
Umbrella grass	<i>Fuirena simplex</i>
Rough bedstraw	<i>Galium asprellum</i>
Small fringed gentian	<i>Gentianopsis procera</i>

Northern cranesbill	<i>Geranium bicknellii</i>
Spring avens	<i>Geum vernum</i>
Early cudweed	<i>Gnaphalium purpureum</i>
Limestone oak fern	<i>Gymnocarpium robertianum</i>
Bitterweed	<i>Helenium amarum</i>
Mud plantain	<i>Heteranthera limosa</i>
Water stargrass	<i>Heteranthera reniformis</i>
Hairy goldenaster	<i>Heterotheca villosa</i>
Common mare's-tail	<i>Hippuris vulgaris</i>
Canadian St. Johnswort	<i>Hypericum canadense</i>
Drummond St. Johnswort	<i>Hypericum drummondii</i>
White morning glory	<i>Ipomoea lacunosa</i>
Sumpweed	<i>Iva annua</i>
Alpine rush	<i>Juncus alpinus</i>
Toad rush	<i>Juncus bufonius</i>
Soft rush	<i>Juncus effusus</i>
Green rush	<i>Juncus greenii</i>
Edged rush	<i>Juncus marginatus</i>
Vasey's rush	<i>Juncus vaseyi</i>
Potato dandelion	<i>Krigia dandelion</i>
Pinweed	<i>Lechea racemulosa</i>
Duckweed	<i>Lemna perpusilla</i>
Creeping bush clover	<i>Lespedeza repens</i>
Silvery bladder-pod	<i>Lesquerella ludoviciana</i>
Wild flax	<i>Linum medium</i>
Brook lobelia	<i>Lobelia kalmii</i>
False loosestrife	<i>Ludwigia peploides</i>
Crowfoot clubmoss	<i>Lycopodium digitatum</i>
Adder's-mouth orchid	<i>Malaxis unifolia</i>
Globe mallow	<i>Malvastrum hispidum</i>
Two-flowered melic-grass	<i>Melica mutica</i>
Ten-petaled blazingstar	<i>Mentzelia decapetala</i>
Millet grass	<i>Milium effusum</i>
Rock sandwort	<i>Minuartia michauxii</i>
Naked mitrewort	<i>Mitella nuda</i>
Scratchgrass	<i>Muhlenbergia asperifolia</i>
Water milfoil	<i>Myriophyllum heterophyllum</i>
Rough water milfoil	<i>Myriophyllum pinnatum</i>
Water milfoil	<i>Myriophyllum verticillatum</i>
Glade mallow	<i>Napaea dioica</i>
Showy evening primrose	<i>Oenothera speciosa</i>
Northern adders-tongue fern	<i>Ophioglossum vulgatum</i>
Louisiana broomrape	<i>Orobanche ludoviciana</i>
Mountain ricegrass	<i>Oryzopsis asperifolia</i>
Gattinger's panic-grass	<i>Panicum gattingeri</i>
White beardtongue	<i>Penstemon albidus</i>
Cobaea penstemon	<i>Penstemon cobaea</i>
Tube penstemon	<i>Penstemon tubiflorus</i>
Cleft phlox	<i>Phlox bifida</i>
Annual ground cherry	<i>Physalis pubescens</i>
Heart-leaved plantain	<i>Plantago cordata</i>
Wood orchid	<i>Platanthera clavellata</i>
Green fringed orchid	<i>Platanthera lacera</i>
Plains bluegrass	<i>Poa arida</i>

Chapman's bluegrass	<i>Poa chapmaniana</i>
Weak bluegrass	<i>Poa languida</i>
Bog bluegrass	<i>Poa paludigena</i>
Meadow bluegrass	<i>Poa wolfii</i>
Hairy Solomon's-seal	<i>Polygonatum pubescens</i>
Large-leaved pondweed	<i>Potamogeton amplifolius</i>
Ribbonleaf pondweed	<i>Potamogeton epihydrus</i>
White-stemmed pondweed	<i>Potamogeton praelongus</i>
Spiralled pondweed	<i>Potamogeton spirillus</i>
Tussock pondweed	<i>Potamogeton strictifolius</i>
Vasey's pondweed	<i>Potamogeton vaseyi</i>
Bird's-eye primrose	<i>Primula mistassinica</i>
Prionopsis	<i>Prionopsis ciliata</i>
Mermaid weed	<i>Proserpinaca palustris</i>
Dwarf cherry	<i>Prunus besseyi</i>
Hortulan plum	<i>Prunus hortulana</i>
Sand cherry	<i>Prunus pumila</i>
Lemon scurfpea	<i>Psoralea lanceolata</i>
Crowfoot	<i>Ranunculus circinatus</i>
Gmelin's crowfoot	<i>Ranunculus gmelinii</i>
Buckthorn	<i>Rhamnus alnifolia</i>
Dwarf sumac	<i>Rhus copallina</i>
Northern gooseberry	<i>Ribes hirtellum</i>
Yellow cress	<i>Rorippa sinuata</i>
Swamp rose	<i>Rosa palustris</i>
Tooth-cup	<i>Rotala ramosior</i>
Dewberry	<i>Rubus hispidus</i>
Western dock	<i>Rumex occidentalis</i>
Widgeon grass	<i>Ruppia maritima</i>
Prairie rose gentian	<i>Sabatia campestris</i>
Sage willow	<i>Salix candida</i>
Sassafras	<i>Sassafras albidum</i>
Tumblegrass	<i>Schedonnardus paniculatus</i>
Scheuchzeria	<i>Scheuchzeria palustris</i>
Sensitive briar	<i>Schrankia nuttallii</i>
Hall's bulrush	<i>Scirpus hallii</i>
Prairie bulrush	<i>Scirpus maritimus</i>
Pedicelled bulrush	<i>Scirpus pedicellatus</i>
Smith's bulrush	<i>Scirpus smithii</i>
Torrey's bulrush	<i>Scirpus torreyi</i>
Veiny skullcap	<i>Scutellaria nervosa</i>
Wild stonecrop	<i>Sedum ternatum</i>
Rock spikemoss	<i>Selaginella rupestris</i>
Butterweed	<i>Senecio glabellus</i>
False golden ragwort	<i>Senecio pseudoreus</i>
Knotweed bristlegrass	<i>Setaria geniculata</i>
Virginia rockcress	<i>Sibara virginica</i>
Prairie dock	<i>Silphium terebinthinaceum</i>
Burreed	<i>Sparganium androcladum</i>
Great plains ladies-tresses	<i>Spiranthes magnicamporum</i>
Clandestine dropseed	<i>Sporobolus clandestinus</i>
Rough hedge-nettle	<i>Stachys aspera</i>
Needle-and-thread	<i>Stipa comata</i>
White coralberry	<i>Symphoricarpos albus</i>

Eared false foxglove	<i>Tomanthera auriculata</i>
Spiderwort	<i>Tradescantia virginiana</i>
Humped bladderwort	<i>Utricularia gibba</i>
Flat-leaved bladderwort	<i>Utricularia intermedia</i>
Small bladderwort	<i>Utricularia minor</i>
Valerian	<i>Valeriana edulis</i>
American brookline	<i>Veronica americana</i>
Marsh speedwell	<i>Veronica scutellata</i>
Maple-leaved arrowwood	<i>Viburnum acerifolium</i>
Black arrowwood	<i>Viburnum molle</i>
Black haw	<i>Viburnum prunifolium</i>
Spurred violet	<i>Viola adunca</i>
Lance-leaved violet	<i>Viola lanceolata</i>
Macloskey's violet	<i>Viola macloskeyi</i>
Pale violet	<i>Viola striata</i>
Summer grape	<i>Vitis aestivalis</i>
Frost grape	<i>Vitis vulpina</i>