

CHECKLIST OF PLANTS -- WIND CAVE NATIONAL PARK

Checklist of Plants of Wind Cave National Park

This plant checklist is based upon the master checklist prepared by B. Brutvan and R. Klukas in 1982 for the herbarium and seed collection of Wind Cave National Park. The systematic treatment follows that used by Theodore Van Bruggen in his book, The Vascular Plants of South Dakota (1976. The Iowa State University Press, Ames, Iowa 50010). "The sequence of families in the Angiospermae is basically according to Engler and Prantl. ...the genera are listed alphabetically."

Common names, when available, follow the scientific names. At the far right is a code indicating each species presence in the herbarium. A "W" indicates that it was collected within Wind Cave National Park. An "O" shows that it was collected outside the Park.

For uncollected species, there is an indication as to the presence or possible presence of each species here in Wind Cave National Park. A blank or nothing indicates that that species might occur commonly or frequently; an asterisk (*) indicates that it might be rare or infrequent. This information was obtained by cross-referencing Van Bruggen's book with Robert D. Dorn's Flora of the Black Hills (1977).

Any addition made to the herbarium should be recorded on the master checklist and on this checklist.

As an aid to locating a species within this list, an alphabetical index of the families, with page numbers listed, follows.

BB

9/30/82

Revised: (R. Klukas)

5-6-86

Total # Species confirmed and/or collected = 440

Preserving Plant Specimens: See WILDLIFE MGMT. TECHNIQUES pp 273-75.

info on alives, etc.

Entered

Brutvan + Klukas.

Scanned 10/28/03

Bibkey: 173206

Aceraceae--20
 Adoxaceae--28
 Alismataceae--2
 Amaranthaceae--12
 Anacardiaceae--20
 Apiaceae--22
 Apocynaceae--24
 Araliaceae--22
 Asclepiadaceae--24
 Asteraceae--28
 Balsaminaceae--20
 Berberidaceae--14
 Betulaceae--10
 Boraginaceae--25
 Brassicaceae--14
 Cactaceae--21
 Callitrichaceae--20
 Campanulaceae--28
 Capparidaceae--15
 Caprifoliaceae--28
 Caryophyllaceae--12
 Celastraceae--20
 Chenopodiaceae--12
 Cistaceae--21
 Commelinaceae--8
 Convolvulaceae--24
 Cornaceae--23
 Crassulaceae--15
 Cucurbitaceae--28
 Cupressaceae--2
 Cyperaceae--2
 Elaeagnaceae--21
 Equisetaceae--1
 Ericaceae--23
 Euphorbiaceae--19
 Fabaceae--17
 Fagaceae--10
 Fumariaceae--14
 Gentianaceae--24
 Geraniaceae--19
 Hydrophyllaceae--25
 Hypericaceae--21
 Iridaceae--9
 Juncaceae--2
 Juncaginaceae--2
 Lamiaceae--25
 Lemnaceae--8
 Lentibulariaceae--27
 Liliaceae--9
 Linaceae--19
 Loasaceae--21
 Lobeliaceae--28
 Lycopodiaceae--1
 Lythraceae--1

Malvaceae--20
 Moraceae--11
 Nyctaginaceae--12
 Oleaceae--24
 Onagraceae--22
 Ophioglossaceae--1
 Orchidaceae--9
 Orobanchaceae--27
 Oxalidaceae--19
 Papaveraceae--14
 Phrymaceae--27
 Pinaceae--2
 Plantaginaceae--27
 Poaceae--4
 Polemoniaceae--24
 Polygalaceae--19
 Polygonaceae--11
 Polypodiaceae--1
 Pontederiaceae--9
 Portulacaceae--12
 Primulaceae--23
 Ranunculaceae--13
 Rhamnaceae--20
 Rosaceae--16
 Rubiaceae--27
 Salicaceae--10
 Santalaceae--11
 Saxifragaceae--16
 Scrophulariaceae--26
 Selaginellaceae--1
 Solanaceae--26
 Sparganiaceae--8
 Typhaceae--8
 Ulmaceae--11
 Urticaceae--11
 Valerianaceae--28
 Verbenaceae--25
 Violaceae--21
 Vitaceae--20
 Zygophyllaceae--19

EQUISETACEAE - Horsetail

EQLA	Equisetum laevigatum.....	.....
✓EQHY	E. hyemale.....	Rough Horsetail..... W
EQSC	E. scirpoides.....	.....
EQSY	E. sylvaticum.....	.....
EQFL	E. fluviatile.....	.....
EQAR	E. arvense.....	.....
EQPR	E. pratense.....	

LYCOPODIACEAE - Club Moss

LYOB	Lycopodium obscurum.....	Ground Pine.....
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SELAGINELLACEAE - Spike Moss

✓SEDE2	Selaginella densa.....	Spike Moss..... W
SERU	S. rupestris.....	

OPHIOGLOSSACEAE - Grape Fern

BOSI	Botrychium simplex.....	.....
BOMU	B. multifidum.....	Leather Grape Fern.....
BOVI	B. virginianum.....	Rattlesnake Fern.....

POLYPODIACEAE - Fern

ADCA	Adiantum capillus-veneris.....	.....
ADPE	A. pedatum.....	.....
ASSE	Asplenium septentrionale.....	.....
ASTR2	A. trichomanes.....	Maidenhair Spleenwort.....
ATFI	Athyrium filix-femina.....	Lady Fern.....
CHFE	Cheilanthes feef.....	Lip Fern.....
CYFR2	Cystopteris fragilis.....	Common Bladder Fern.....
DRFI2	Dryopteris filix-mas.....	Shield Fern.....
GYDR	Gymnocarpium dryopteris.....	Oak Fern.....
MAST	Matteuccia struthiopteris.....	Ostrich Fern.....
ONSE	Onoclea sensibilis.....	Sensitive Fern.....
PEGL	Pellaea glabella.....	Cliff-brake.....
PEAT2	P. atropurpurea.....	.....
POHE3	Polypodium hesperium.....	Western Polypody.....
POMU	Polystichum munitum.....	Christmas Fern.....
TATH	Thelypteris palustris..... → T. thelypteroides	Marsh Fern.....
WOOR	Woodsia oregana.....	Oregon Woodsia.....
WOSC	W. scopulina.....	Rocky Mountain Woodsia...

PINACEAE - Pine

✓✓ PIPO	Pinus ponderosa.....	Ponderosa Pine.....	<u>W</u> -P
PICO	P. contorta.....	Lodgepole Pine.....	—

CUPRESSACEAE - Juniper

✓✓ JUCO6	Juniperus communis.....	Common Juniper.....	<u>W</u> -P
✓✓ JUHO2	J. horizontalis.....	Creeping Cedar.....	<u>W</u> -P
✓✓ JUSC2	J. scopulorum.....	Rocky Mountain Cedar.....	<u>W</u> -P

ALISMATACEAE - Water Plantain

ALGP	Alisma gramineum.....	.....	—
ALPL	A. plantago-aquatica.....	Water Plantain.....	—
SAMO	Sagittaria montevidensis.....	.....	—
SAGR	S. graminea.....	.....	—
SACU	S. cuneata.....	.....	—
SALA2	S. latifolia.....	Duck-potato.....	—

JUNCAGINACEAE - Arrow Grass

TRMA4	Triglochin maritimum.....	.....	—
TRPA6	T. palustre.....	.....	—

JUNCACEAE - Rush

✓✓ JUBU	Juncus bufonius.....	Toad Rush/Wiregrass.....	<u>W</u>
JUBA	J. balticus.....	Bog Rush.....	—
JUEN	J. ensifolius.....	.....	—
JULO	J. longistylis.....	.....	—
JUTE	J. tenuis.....	Path Rush.....	—
✓✓ (I) JUTED	J. dudleyi ^{→ J. tenuis var. dudleyi}	Wiregrass.....	<u>W</u>
JUIN2	J. interior.....	.....	—
JUNO2	J. nodosus.....	.....	—
JUTO	J. torreyi.....	.....	—
JUAL	J. alpinus.....	.....	—
LUCO6	Luzula campestris ^{→ L. comosa}	Wood Rush.....	—

CYPERACEAE - Sedge

✓✓ UCANE2	Carex nebraskensis.....	Nebraska Sedge.....	<u>W</u>
CAAU3	C. aurea.....	.....	—
CAAQ	C. aquatilis.....	.....	—
CAHA7	C. haydenii.....	.....	—
CADI6	C. disperma.....	.....	—
CASA8	C. sartwellii.....	.....	—

CYPERACEAE - Sedge (continued)

CA PR5	C. praegracilis.....	.....	.....
CA EL2	C. eleocharis.....	.....	.....
CA ST5	C. stipata.....	.....	.....
CA PR6	C. prarisa.....	.....	.....
	→ C. prairiea		
CA FL9	C. rosea.....	.....	.....
	→ C. flaccidula		
	C. convoluta.....	.....	.....
CA VA3	C. vallicola.....	.....	.....
CA HO5	C. hoodii.....	.....	.....
CA GR4	C. gravida.....	.....	.....
CA BR15	C. brunnescens.....	.....	.....
CA IN11	C. interior.....	.....	.....
	DENEYANA		
CA DE9	C. dewayana.....	.....	.....
CA BE2	C. bebbii.....	.....	.....
CA NO	C. normalis.....	.....	.....
CA MI7	C. microptera.....	.....	.....
CA FE2	C. festivella.....	.....	.....
CA PR7	C. praticola.....	.....	.....
CA SC11	C. scoparia.....	.....	.....
✓ V CA TE3	C. tenera.....	Sedge.....	W
CA AE	C. aenea.....	.....	.....
CA XE	C. xerantica.....	.....	.....
CA FO3	C. foenea.....	.....	.....
CA BR10	C. brevior.....	.....	.....
CA LA30	C. lanuginosa.....	.....	.....
✓ V CA FI	C. filifolia.....	Threadleaf Sedge.....	W
✓ V CA PE6	C. pennsylvanica.....	Sedge.....	W
✓ V CA HE5	C. heliophila.....	Sun Sedge.....	W
CA RO5	C. rossii.....	.....	.....
CA PE11	C. peckii.....	.....	.....
CA CO10	C. concinna.....	.....	.....
CA RI	C. richardsonii.....	.....	.....
CA RE4	C. retrorsa.....	.....	.....
✓ V CA SP7	C. sprengelii.....	.....	W
CA RO6	C. rostrata.....	.....	.....
CA AT2	C. atherodes.....	.....	.....
CA HY4	C. hystericina.....	.....	.....
CA OB4	C. obtusata.....	.....	.....

CYPERACEAE - Sedge (continued)

CAVIS	C. viridula.....	*
CAH13	C. hallii.....	*
CABE3	C. bella.....	*
CAIN12	C. intumescens.....	*
CALE10C.	leptalea.....	*
CAEB2	C. eburnea.....	*
CABL	C. blanda.....	*
CAT03	C. torreyi.....	*
CACA12C.	capillaris.....	*
CAGR3C.	granularis.....	*
CASA9	C. saximontana.....	*
CYFE4	Cyperus ferruginescens.....	*
CYAR3	C. aristatus.....	*
CYAC2C.	acuminatus.....	*
CYFI2C.	filiculmis.....	*W
CYHO	C. houghtonii.....	*
CYSC3C.	schweinitzii.....	*
ELMA5	Eleocharis macrostachya.....	*
ELSM	E. smallii.....	*
ELER	E. erythropoda.....	*
ELXY	E. xyridiformis.....	*
ELAC2.	acicularis.....	*
ELCO2E.	compressa.....	*
ELRO2E.	rostellata.....	*
ERPO6	Eriophorum polystachion.....Cottongrass.....	*
SCAM2	Scirpus americanus.....	*
✓✓SCVA	S. validus.....Giant Bulrush/Tule.....	*W
SCMA	S. maritimus.....Prairie Bulrush.....	*
SCCY	S. cyperinus.....Woolgrass.....	*
✓✓SCAT2S.	atrovirens.....Sedge/Bulrush/Tule.....	*W
SCMI2S.	microcarpus.....	*

POACEAE - Grass *Charminae* (36)

AGST2	Agrostis stolonifera.....Redtop.....	*
✓✓AGEX	A. exarata.....Spikebent/Spike Redtop...	*W
AGHY	A. hyemalis.....Ticklegrass.....	*
AGPE	A. perennans.....Autumn Bent.....	*
ALAE	Alopecurus aequalis.....Short Awn Foxtail.....	*
✓✓ALCA4	A. carolinianus.....Water Foxtail.....	*W

POACEAE - Grass (continued)

ALGE2	A. geniculatus.....	Water Foxtail.....*	
✓VAR103	Aristida longiseta.....	Red Threeawn.....	W
CAPU	Calamagrostis purpurascens.....	Purple Reedgrass.....*	
CAMOC	C. montanensis.....	Plains Reedgrass.....*	
CACA4C	C. canadensis.....	Bluejoint.....	
CANE	C. stricta. → C. neglecta.....	*	
CAINC	C. inexpansa.....	Northern Reedgrass.....*	
✓✓CALO	Calamovilfa longifolia.....	Sandreed.....	W
CIAR2	Cinna arundinacea.....	Woodreed.....*	
CILA2C	C. latifolia.....	Drooping Woodreed.....*	
MUAS	Muhlenbergia asperifolia.....	Scratchgrass.....*	
✓✓MUCU3	M. cuspidata.....	Plains Muhly.....	W
MURI	M. richardsonis.....	Mat Muhly.....*	
MUF12	M. filiformis.....	*	
✓✓MURA	M. racemosa.....	.....	W
✓✓LORM12	Oryzopsis micrantha.....	Littleseed Ricegrass.....	W
ORHY	O. hymenoides.....	Indian Ricegrass.....	
✓✓LORAS	O. asperifolia.....	Ricegrass.....	W
✓ORRA2O	O. racemosa.....	*	
ORPU4	O. pungens.....	Mountain Ricegrass.....*	
✓✓LPHPR3	Phleum pratense.....	Timothy.....	W
✓✓LPHAL2	P. alpinum.....	Alpine Timothy.....	W
POMO5	Polypogon monspeliensis.....	Rabbitfoot Grass.....*	
SPNE2	Sporobolus neglectus.....	*	
SPVA	S. vaginiflorus.....	Annual Dropseed.....*	
SPCR	S. cryptandrus.....	Sand Dropseed.....	
SPAI	S. airoides.....	Alkali Sacaton.....*	
SPAS	S. asper.....	.....	
SPHE	S. heterolepis.....	Prairie Dropseed.....*	
✓✓VSTCO4	Stipa comata.....	Needle and Thread.....	W
✓✓VSTSP2	S. spartea.....	Porcupine Grass.....	W
STRI2	S. richardsonii.....	Richardson's Needlegrass.....*	
✓✓VSTVI4	S. viridula.....	Green Needlegrass.....	W
STOC2	S. occidentalis.....	Columbia Needlegrass.....*	
✓✓SCSC	Andropogon ^{Schizachyrium scoparium} scoparius.....	Little Bluestem.....	W
(I) ANGE	A. hallii → A. gerardii var. paucipilus.....	Sand Bluestem.....*	
✓✓ANGE	A. gerardii.....	Big Bluestem.....	W

POACEAE - Grass (continued)

SOAV2	Sorghastrum avenaceum.....	Indian Grass.....	—
AVFA	Avena fatua.....	Wild Oat.....	*
AVSA	A. sativa.....	Oat.....	*
DAIN	Danthonia intermedia.....	Timber Oatgrass.....	*
✓VDASP2D	D. spicata.....	Poverty Oatgrass.....	W
DECE	Deschampsia ^{CAESPITOSA} caespitosa.....	Hairgrass.....	*
AVHO	Helictotrichon ^{Avenochloa hookeri} hookeri.....	Spike Oat.....	*
✓VKOPY	Koeleria pyramidata.....	Junegrass.....	W
SPOB	Sphenopholis obtusata.....	Prairie Wedgegrass.....	—
TRSP2	Trisetum spicatum.....	Spike Trisetum.....	*
BESY	Beckmannia syzigachne.....	American Sloughgrass.....	*
✓VLBOCV	Bouteloua curtipendula.....	Side-oats Grama.....	W
✓VLBOH12B	B. hirsuta.....	Hairy Grama.....	*W—P
✓VLBOGR2B	B. gracilis.....	Blue Grama.....	W
✓VLBUDA	Buchloe dactyloides.....	Buffalo Grass.....	W
MOSQ	Munroa squarrosa.....	False Buffalo Grass.....	*
SCPA	Schedonnardus paniculatus.....	Tumble Grass.....	*
SPGR	Spartina gracilis.....	Alkali Cordgrass.....	—
SPPE	S. pectinata.....	Prairie Cordgrass.....	W
BRCA5	Bromus carinatus.....	California Brome.....	*
✓VBRIN2	B. inermis.....	Smooth Brome.....	W
BRCI2	B. ciliatus.....	Fringed Brome.....	*
BRPU6	B. pubescens.....	Canada Brome.....	*
BRPO2	B. porteri.....	Nodding Brome.....	*
BRKA2B	B. kalmii.....	.....	*
BRBR5	B. briziformis.....	Rattlesnake Chess.....	*
✓VBRTE	B. tectorum.....	Cheat Grass/Downy Chess..	W
BRMO2	B. mollis.....	Soft Chess.....	*
✓VBRJA	B. japonicus.....	Japanese Chess.....	W
CAAQ3	Catabrosa aquatica.....	Brookgrass.....	*
DAGL	Dactylis glomerata.....	Orchard Grass.....	—
DISP	Distichlis spicata.....	Saltgrass.....	*
✓VERCI	Eragrostis cilianensis.....	Stinkgrass/Lovegrass.....	W
✓VERSP	E. spectabilis.....	Purple Lovegrass.....	W
ERPE	E. pectinacea.....	.....	*
FESU	Festuca subulata.....	Bearded Fescue.....	*
FEPF	F. pratensis.....	Meadow Fescue.....	—

W collected
8-18-15

POACEAE - Grass (continued)

→ *Vulpia octoflora*

✓✓ VUOC	<i>F. octoflora</i>	Six-weeks Fescue.....	<u>W</u>
FEOV	<i>F. ovina</i>	Sheep Fescue.....	—
FEID	<i>F. idahoensis</i>	Blue Bunchgrass.....	*—
GLBO	<i>Glyceria borealis</i>	Northern Mannagrass.....	*—
GLFL2	<i>G. fluitans</i>	Mannagrass.....	*—
GLST	<i>G. striata</i>	Fowl Mannagrass.....	—
✓✓ GLMAG	<i>G. grandis</i> → <i>G. maxima</i> sep. <i>grandis</i>	American Mannagrass.....	<u>W</u>
LEKI2	<i>Hesperochloa kingii</i> → <i>Leucopoa kingii</i>	.....	*—
MESM	<i>Melica smithii</i>	Melicgrass.....	*—
PHAU7	<i>Phragmites australis</i>	Plume Reed.....	*—
✓✓ POCA	<i>Poa canbyi</i>	Canby Bluegrass.....	<u>W</u>
✓✓ POSA12	<i>P. sandbergii</i>	Sandberg Bluegrass.....	<u>W</u>
POAN	<i>P. annua</i>	Annual Bluegrass.....	*—
POCO	<i>P. compressa</i>	Canada Bluegrass.....	*—
POAR3	<i>P. arida</i>	Plains Bluegrass.....	—
✓✓ POPR	<i>P. pratensis</i>	Kentucky Bluegrass.....	<u>W</u>
POGL3	<i>P. glaucifolia</i>.....	.....	*—
POBU	<i>P. bulbosa</i>	Bulbous Bluegrass.....	*—
POPA2	<i>P. palustris</i>	Fowl Bluegrass.....	*—
POTR2	<i>P. trivialis</i>	Rough Bluegrass.....	*—
✓✓ PONEI	<i>P. interior</i> → <i>P. nemoralis</i> var. <i>interior</i>	Inland Bluegrass.....	<u>W</u>
POFE	<i>P. fendleriana</i> FENDLERIANA	Muttongrass.....	*—
PONU2	<i>Puccinellia nuttalliana</i>	Alkaligrass.....	*—
SCPU	<i>Schizachne purpurascens</i>	False Melic.....	*—
AGRE2	<i>Agropyron repens</i>	Quackgrass.....	—
AGIN2	<i>A. intermedium</i>	Intermediate Wheatgrass.....	*—
✓✓ VAGSM	<i>A. smithii</i>	Western Wheatgrass.....	<u>W</u>
✓✓ AGDA	<i>A. dasystachyum</i>	Thickspike Wheatgrass.....	<u>W</u>
✓✓ AGCR	<i>A. cristatum</i>	Crested Wheatgrass.....	<u>W</u>
AGPE2	<i>A. pectiniforme</i>.....	.....	*—
✓✓ AGSF	<i>A. spicatum</i>	Bluebunch Wheatgrass.....	<u>W</u>
AGCA2	<i>A. caninum</i>	Slender Wheatgrass.....	<u>W</u>
ELCI2	<i>Elymus cinereus</i>	Giant Wildrye.....	* <u>W</u>
ELIN4	<i>E. innovatus</i>.....	.....	*—
ELVI	<i>E. villosus</i>.....	.....	*—
ELGL	<i>E. glaucus</i>	Blue Wild Rye.....	*—
ELVI3	<i>E. virginicus</i>	Virginia Wild Rye.....	*—
✓✓ ELCA4	<i>E. canadensis</i>	Canada Wild Rye.....	<u>W</u> —P

POACEAE - Grass (continued)

✓✓HOPU	Hordeum pusillum.....	Little Barley.....	<u>W</u>
✓✓HOUU	H. jubatum.....	Foxtail Barley.....	<u>W</u>
✓✓SIHY	Sitanion hystrix.....	Squirreltail.....	<u>W</u>
✓✓CELO3	Cenchrus longispinus.....	Field Sandbur.....	<u>W</u>
DIIS	Digitaria ischaemum.....	Smooth Crabgrass.....	<u>*</u>
DISA	D. sanguinalis.....	Crabgrass.....	<u>—</u>
✓✓ECCR	Echinochloa crusgalli.....	Barnyard Grass.....	<u>W</u>
ECMU2	E. muricata.....	.....	<u>—</u>
PAMI2	Panicum miliaceum.....	Broomcorn Millet.....	<u>*</u>
PACA6	P. capillare.....	Witchgrass.....	<u>—</u>
✓✓PAVI2	P. virgatum.....	Switchgrass.....	<u>W</u>
DIOL	P. ^{Dichanthelium oligosanthes} oligosanthes.....	Small Panic Grass.....	<u>—</u>
DIXA	P. ^{Dichanthelium xanthophysum} xanthophysum.....	.....	<u>*</u>
DILE2	P. ^{Dichanthelium leibergii} leibergii.....	.....	<u>*</u>
DIAC2	P. ^{Dichanthelium acuminatum} lanuginosum.....	.....	<u>*</u>
DIOLW	P. ^{Dichanthelium oligosanthes var. wilcoxianum} wilcoxianum.....	.....	<u>*</u>
DILI2	P. ^{Dichanthelium linearifolium} perlongum.....	.....	<u>*W</u>
SEVE3	Setaria verticillata.....	Bristly Foxtail.....	<u>—</u>
SEGL2	S. glauca.....	Yellow Foxtail.....	<u>—</u>
SEVI4	S. viridis.....	Green Foxtail.....	<u>—</u>
HIOO	Hierochloa odorata.....	Sweetgrass.....	<u>—</u>
✓✓PHAR7	Phalaris arundinacea.....	Reed Canary Grass.....	<u>W</u>

SPARGANIACEAE - Bur-reed

SPEU	Sparganium eurycarpum.....	.....	<u>*</u>
SPCH	S. chlorocarpum.....	.....	<u>*</u>
SPEMA	^{ANGUSTIFOLIUM} S. angustifolium.....	.....	<u>*</u>
SPEMM	^{ANGUSTIFOLIUM} S. angustifolium.....	.....	<u>*</u>
	S. ^{ANGUSTIFOLIUM} multipedunculatum.....	.....	<u>*</u>

TYPEACEAE - Cattail

TYAN	Typha angustifolia.....	Narrow-leaved Cattail....	<u>—</u>
TYLA	T. latifolia.....	Broad-leaved Cattail.....	<u>W</u>

LEMNACEAE - Duckweed

LEMI3	Lemna minor.....	Duckweed.....	<u>W</u>
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COMMELINACEAE - Spiderwort

✓✓TROC	Tradescantia occidentalis.....	Spiderwort.....	<u>W</u>
✓✓TRBR	T. bracteata.....	Common Spiderwort.....	<u>W</u>

PONTEDERIACEAE - Pickerelweed

HEL12 Heteranthera limosa.....Mud Plantain.....*

LILIACEAE - Lily

✓ VALCE2 Allium cernuum.....Wild Onion.....W
 ✓ VALTE A. textile.....Textile Onion.....W
 ✓ VALGE A. geyeri.....Wild Onion.....W
 ALCA3 A. canadense.....Wild Onion.....
 ALDR A. drummondii.....*
 ALST A. stellatum.....*
 ASOF Asparagus officinalis.....Asparagus.....*W
 ✓ VCAGU Calochortus gunnisonii.....Sego Lily.....W
 ✓ VCANU3 C. nuttallii.....Mariposa Lily.....W
 DITR2 Disporum trachycarpum.....Fairybells.....*
 FRAT Fritillaria atropurpurea.....Leopard Lily.....*
 ✓ VLEMO4 Leucocrinum montanum.....Mountain Lily/Star Lily..W
 ✓ VLIPIH Lilium philadelphicum.....Wood Lily.....W
 MACAY Maianthemum canadense.....Wild Lily of the Valley..
 ✓ VPOBI2 Polygonatum biflorum.....Solomon's Seal.....W
 SMRA Smilacina racemosa.....False Solomon's Seal.....*W
 ✓ VSMST S. stellata.....Spikenard.....W
 ✓ VSMHE Smilax herbacea.....Carrion Flower.....W
 STAM2 Streptopus amplexifolius.....Twisted-stalk.....
 ✓ VYUGL Yucca glauca.....Soapweed.....W-P
 ZIE2 Zigadenus elegans.....White Camas.....*
 ✓ VZIVE Z. venenosus.....Death Camas.....W

IRIDACEAE - Iris

✓ VIRMI Iris missouriensis.....Blue Flag.....W
 SIAN3 Sisyrinchium angustifolium.....Blue-eyed Grass.....
 ✓ VSIM02 S. montanum.....Common Blue-eyed Grass...W

ORCHIDACEAE - Orchid

CABU Calypso bulbosa.....Venus' Slipper.....*
 COST Corallorhiza striata.....Striped Coral-root.....*
 COTR3 C. trifida.....Pale Coral-root.....*
 COMA4 C. maculata.....Spotted Coral-root.....
 COOD C. odontorhiza.....Late Coral-root.....*
 COWI2 C. wisteriana.....Wister's Coral-root.....*

ORCHIDACEAE - Orchid (continued)

CYCA3	Cypripedium calceolus.....	Yellow Lady Slipper.....	—
EPGI	Epipactis gigantea.....	Helleborine.....	•
GORE2	Goodyera repens.....	.....	—
GOOB2	G. oblongifolia.....	Rattlesnake Plantain.....	•
PIUN3	Habenaria unalascentis.....	.....	•
COVI6	H. viridis.....	Bracted Orchid.....	—
PLFL	H. flava.....	Tubercled Orchid.....	•
PLDI3	H. dilatata.....	White Orchid.....	•
PLST4	H. saccata.....	.....	•
PLHY2	H. hyperborea.....	.....	•
LICO5	Listera convallarioides.....	Twayblade.....	•
✓ VSPRO	Spiranthes romanzoffiana.....	Hooded Ladies' Tresses... W	—

SALICACEAE - Willow

POTRT	Populus tremuloides.....	Quaking Aspen.....	W
PODE3	P. deltoides.....	Cottonwood.....	W
POBA2	P. balsamifera.....	Balsam Poplar.....	•
POAC5	P. acuminata.....	Smooth Barked Cottonwood.....	•W
✓ POAN3	P. angustifolia.....	Narrow Leaved Cottonwood.....	W
SASE2	Salix serissima.....	Autumn Willow.....	•
SALU	S. lucida.....	Shining Willow.....	•
SAPES	S. petiolaris.....	Meadow Willow.....	•
SAEX	S. exigua.....	Sandbar or Coyote Willow.....	—
SAFR	S. fragilis.....	Crack Willow.....	•
SAAL2	S. alba.....	White Willow.....	•
SASC	S. scouleriana.....	Western Pussy Willow.....	•
SAPL2	S. phylicifolia.....	Plane-leaf Willow.....	•
SABE2	S. bebbiana.....	Bebb Willow.....	•
SADI	S. discolor.....	Pussy Willow.....	•
SAMO2	S. monticola.....	Serviceberry Willow.....	•
SAAM2	S. amygaloides.....	Peach-leaved Willow.....	•W

BETULACEAE - Birch

BEPA	Betula papyrifera.....	Canoe Birch.....	•W
COCO6	Corylus cornuta.....	Beaked Hazelnut.....	•
✓ OSVI	Ostrya virginiana.....	Hop-hornbeam.....	W
	Betula occidentalis	Mountain Birch.....	W

FAGACEAE - Oak

✓ QUMA2	Quercus macrocarpa.....	Bur Oak.....	W P
*	Populus alba.....	White Poplar.....	W
**	Salix rigida.....	Diamond Willow.....	W

collected
7-23-74

ULMACEAE - Elm

✓-CEOC	Celtis occidentalis.....	Hackberry.....	<u>SWP</u>
ULPU	Ulmus pumila.....	Siberian Elm.....	<u>*</u>
✓-ULAM	U. americana.....	American Elm.....	<u>WP</u>
ULRU	U. rubra.....	Red Elm/Slippery Elm.....	<u>*</u>

MORACEAE - Hemp

CASA3	Cannabis sativa.....	Marijuana, Hemp.....	<u>*</u>
	Humulus lupulus - - - - -	Hops - - - - -	<u>W</u> 7-6-84

URTICACEAE - Nettle

✓-PAPE5	Parietaria pennsylvanica.....	Pellitory.....	<u>W</u>
✓-URDI	Urtica dioica.....	Nettle.....	<u>W</u>

SANTALACEAE - Sandalwood

COUM	Comandra umbellata.....	Bastard Toadflax.....	<u>W</u> 6-14-84
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POLYGONACEAE - Buckwheat

✓-ERAN4	Eriogonum annuum.....	Umbrella Plant.....	<u>W</u>
ERVII4	E. visherii.....		<u>*</u>
ERCE2	E. cernuum.....	.....	<u>*</u>
✓-ERFL4	E. flavum.....	Umbrella Plant/Pellitory.....	<u>W</u>
EREF	E. effusum.....	.....	<u>*</u>
ERPA9	E. pauciflorum.....	.....	<u>*</u>
POSC3	Polygonum scandens.....	False Buckwheat.....	<u>*</u>
POCO10	P. convolvulus.....	Black Bindweed.....	<u>*</u>
PODO4	P. douglasii.....	.....	<u>*</u>
POTE2	P. tenue.....	Slender Knotweed.....	<u>*</u>
POAC3	P. achoreum.....	.....	<u>*</u>
PODOI	P. sawatchense.....	→ P. douglasii var. johnstonii	<u>*</u>
PORA3	P. ramosissimum.....	.....	<u>*</u>
POAR11	P. arenastrum.....	Common Knotweed.....	<u>*</u>
POLA4	P. lapathifolium.....	Nodding Willow Weed.....	<u>*</u>
POPE2	P. pennsylvanicum.....	.....	<u>*</u>
✓-POPE3	P. persicaria.....	Lady's Thumb.....	<u>W</u>
RUAC3	Rumex acetosella.....	Sheep Sorrel.....	<u>*</u>
RUMAY4	R. maritimus.....	Golden Dock.....	<u>*</u>
RUVE2	R. venosus.....	Sour Greens/Wild Begonia.....	<u>O</u>
RUCA	R. crispus.....	Sour Dock.....	<u>W</u>
RUAL4	R. altissimus.....	Water Dock.....	<u>*</u>
RUOC3	R. occidentalis.....	Western Dock.....	<u>*</u>

CHENOPODIACEAE - Goosefoot

ATRO	Atriplex rosea.....	*
ATAR2	A. argentea.....	*
ATPA4	A. patula.....	Spearscale.....*
ATCA2	A. canescens.....	Shadscale.....*
	A. nuttallii → A. canescens.....	Moundscale.....*
EULA5	Ceratoides lanata.....	Winterfat.....*
CHBO2	Chenopodium botrys.....	Jerusalem Oak.....*
CHCA4	C. capitatum.....	Strawberry Blite.....*
CHFR3	C. fremontii.....	*
✓-CHHY	C. hybridum.....	Maple-leaved Goosefoot... W
CHDE	C. dessicatum.....	*
✓-CHAL7	C. album.....	Goosefoot..... W
✓-CHBE4	C. berlandieri.....	 W
CYAT	Cycloloma atriplicifolium.....	Winged Pigweed..... *W-3 5-28-8
KOSC	Kochia scoparia.....	Summer Cypress/Fireweed..
✓-MONU	Monolepsis nuttalliana.....	Poverty Weed..... W
✓-SAKA	Salsola iberica → S. kali.....	Russian Thistle..... W
SUDE	Suaeda depressa.....	Sea Blite.....*

AMARANTHACEAE - Pigweed

✓-AMBL	Amaranthus graecizans.....	A. blitoides Prostrate Pigweed..... W
AMAL	A. albus.....	Tumbleweed.....*
AMHY	A. hybridus.....	Prince's Feather.....*
✓-AMRE	A. retroflexus.....	Pigweed..... W
AMAP	A. arenicola.....	*

NYCTAGINACEAE - Four O'Clock

MINY	Mirabilis nyctaginea.....	Wild Four O'Clock.....
✓-MILI3	M. linearis.....	Four O'Clock..... W
✓-MIHI	M. hirsuta.....	Wild Four O'Clock..... W

PORTULACACEAE - Purslane

CLPE	Montia perfoliata.....	Claytonia perfoliata Miner's Lettuce.....*
TAPA3	Talinum parviflorum.....	Fareflower.....*

CARYOPHYLLACEAE - Pink

MIRU3	Arenaria rubella.....	Minuartia rubella.....*
✓-ARHO4	A. hookeri.....	Sandwort..... W
MIMI2	A. stricta.....	Minuartia michauxii.....*
ARSE2	A. serpyllifolia.....	Thyme-leaved Sandwort....*
MOLA6	A. lateriflora.....	Moehringia lateriflora..... W 6-7-86 inside to be collected

CARYOPHYLLACEAE - Pink (continued)

✓ - CEARY	Cerastium arvense.....	Mouse-ear Chickweed.....	W
- CEVU	C. vulgatum.....	Mouse-ears.....	W
GYMU	Gypsophila muralis.....	Baby's Breath.....	*
GXPA	G. paniculata.....	.....	*
SIDR	Lychnis drummondii → <i>Silene drummondii</i>.....	.....	*
SIPR4	L. alba → <i>Silene pratensis</i>	White Champion.....	W 6-24-85
PASE	Paronychia sessiliflora.....	.....	*
✓ - PADE4	P. depressa.....	Whitlow Wort.....	W
SASA	Sagina saginoides.....	Pearlwort.....	*
✓ - SAOF4	Saponaria officinalis.....	Bouncing Bet/Soapwort.....	W
✓ - SIAN2	Silene antirrhina.....	Sleepy Catchfly.....	W
✓ - SINO	S. noctiflora.....	Night-blooming Catchfly..	W
SINI	S. nivea.....	White Champion.....	*
✓ - STME2	Stellaria media.....	Chickweed.....	W
STLO	S. longifolia.....	.....	? 6-27-86
✓ - STLO2	S. longipes.....	Chickweed.....	W

RANUNCULACEAE - Buttercup

ACCO4	Aconitum columbianum.....	Monkshood.....	O
ACRU2	Actaea rubra.....	Baneberry.....	W
✓ - PUPAS	Anemone patens → <i>Pulsatilla patens</i>	Pasque/Pasqueflower.....	W
✓ - ANCY	A. cylindrica.....	Windflower/Anemone.....	W
ANMU	A. multifida.....	.....	*
✓ - ANVI3	A. virginiana.....	Tall Anemone.....	W
ANCA8	A. canadensis.....	Meadow Anemone.....	*
✓ - AGCA	Aquilegia canadensis.....	Columbine.....	W
AQBR	A. brevistyla.....	Western Columbine.....	*
CLLI2	Clematis ligusticifolia.....	Western Virgin's Bower... → <i>C. columbiana</i>	W 7-19-84
CLCO2	C. pseudoalpina.....	Purple Virgin's Bower... → <i>C. columbiana</i>	*
CLCOT	C. tenuiloba → <i>C. columbiana</i> var. <i>tenuiloba</i>.....	.....	*
CLHI	C. hirsutissima.....	.....	*
DEVI	Delphinium virescens.....	Prairie Larkspur.....	*
✓ - DENU2	D. nuttallianum.....	Blue Larkspur.....	W
ENBI	Isopyrum biternatum → <i>Enemion biternatum</i>	False Rue Anemone.....	*
✓ - RAAG	Ranunculus aquatilis.....	White Water-crowfoot.....	W
RALO2	R. longirostris.....	.....	*
RASU	R. subrigidus.....	.....	*
RACY	R. cymbalaria.....	Seaside Crowfoot.....	*

Myosurus minimus

Mousetail

W 5-14-86

✓ - RAGL	R. glaberrimus.....	Crowfoot/Buttercup.....	W
✓ - RARH	R. rhomboideus.....	Prairie Buttercup.....	W
✓ - RAAB	R. abortivus.....	Small Flowered Buttercup.....	W
	RAMI2	R. micranthus.....	*
	RAIN	R. inamoenus.....	*
✓ - RASC3	R. sceleratus.....	Cursed Crowfoot.....	W
	RAPE2	R. pensylvanicus.....	.....
✓ - RAMA2	R. macounii.....	Buttercup/Crowfoot.....	W
	RACA4	R. cardiophyllus.....	*
	RAAC3	R. acris.....	Tall Buttercup..... O
✓ - THDI	Thalictrum dioicum.....	Dioecious Meadow-Rue.....	W
✓ - THVE	T. venulosum.....	Meadow Rue.....	W
✓ - THDA	T. dasycarpum.....	Meadow Rue.....	W

BERBERIDACEAE - Barberry

BERE	Berberis repens.....	Oregon Grape.....	_____
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PAPAVERACEAE - Poppy

✓ - ARPO2	Argemone polyanthemus.....	Prickly Poppy.....	W
	SACA13	Sanguinaria canadensis.....	Bloodroot.....

FUMARIACEAE - Fumitory
~~micrantha~~ - - - - - Corydalis - - - - - W

✓ - COAU2	Corydalis aurea.....	Corydalis.....	W
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CRUCIFERAE
 BRASSICACEAE - Mustard

	ALAL3	Alyssum alyssoides.....	 W 6-4-50
✓ - ALDE	A. desertorum.....		W
	ARTH	Arabidopsis thaliana.....	Mouse-ear Cress.....*
	AROR	Arabis drummondii.....	*
✓ - ARHI	A. hirsuta.....	Rock Cress.....	W
	ARGL	A. glabra.....	Tower Mustard.....*
	ARDI2	A. divaricata.....	.....
✓ - ARHO2	A. holboellii.....	Rock Cress.....	W
	BACR	Barbarea orthoceras.....	Wintercress.....*
	BEIN2	Berteroa incana.....	Hoary Alyssum.....*
	BRCA2	Brassica campestris.....	Field Mustard.....*
	BRJU	B. juncea.....	Brown Mustard.....*
	CAMI2	Camelina microcarpa.....	False Flax.....*
✓ - CASA2	C. sativa.....	False Flax.....	W
✓ - CABU2	Capsella bursa-pastoris.....	Shepherd's Purse.....	W

BRASSICACEAE - Mustard (continued)

CAPE3	Cardamine pensylvanica.....	Highland Cr. - close to Bison Trap	.....	6-23-86
CADR	Cardaria draba.....	Hoary Cress.....	.....	must take
CHTER	Chorispora tenella.....	Ruderal Weed.....	W	
COOR	Conringia orientalis.....	Hare's Ear.....	.....	
✓-DESO2	Descurainia sophia.....	Herb Sophia/Tansy Mustard	W	
DEPI	D. pinnata.....	Tansy Mustard.....	.....	
DERI2	D. richardsonii.....	.....	.....	
DRRE2	Draba reptans.....	.....	W	5-11-84
DRNE	D. nemorosa.....	.....	.....	
DRAU	D. aurea.....	.....	.....	
DRST2	D. stenoloba.....	.....	.....	
DRCA4	D. lanceolata.....	→ D. cana	.....	
ERGA	Erucastrum gallicum.....	.....	.....	
✓-ERAS2	Erysimum asperum.....	Western Wallflower.....	W	
✓-ERCH9	E. cheiranthoides.....	Wormseed Mustard.....	W	
ERIN7	E. inconspicuum.....	.....	.....	
HEMA3	Hesperis matronalis.....	Dane's Rocket.....	W	6-4-85
LEDE	Lepidium densiflorum.....	Peppergrass.....	W	5-22-86
LEAR6	Lesquerella arenosa.....	.....	W	5-17-84
LELU	L. ludoviciana.....	Bladderpod.....	.....	
✓-LEAL	L. alpina.....	Lesquerella.....	W	
LEMO3	L. montana.....	.....	.....	
PHOI6	Physaria didymocarpa.....	Double Bladderpod.....	.....	
ROSI2	Rorippa sinuata.....	.....	.....	
ROTE	R. tenerrima.....	.....	.....	
✓-ROPA2	R. palustris.....	Yellow Cress.....	W	
✓-SIAL2	Sisymbrium altissimum.....	Tumbling Mustard.....	W	
STPI	Stanleya pinnata.....	Prince's Plume.....	.....	
THIN	Thelypodium integrifolium.....	.....	.....	
✓-THAR5	Thlaspi arvense.....	Pennycress.....	W	

CAPPARIDACEAE - Caper

✓-CLSE	Cleome serrulata.....	See Plant.....	W	
PODO3	Polanisia dodecandra.....	Clammy Weed.....	.....	

CRASSULACEAE - Stonecrop

SEAC	Sedum acre.....	Mossy Stone-crop.....	.....	
SELA	S. lanceolatum.....	Stonecrop.....	W	6-23-86

SAXIFRAGACEAE - Saxifrage

✓-HERI	Heuchera richardsonii.....	Alum-root.....	W
✓-LIPAS	^{PARVIFLORA} Lithophragma parviflora.....	Prairie Star.....	W
✓-PAPA9	Parnassia parviflora.....	Grass-of-Parnassus.....	W
RILA	Ribes lacustre.....	Swamp Currant.....	*
RIMI	R. missouriense.....	Gooseberry.....	W
RIHI	R. hirtellum.....		*
RIOX	R. oxyacanthoides.....		*
✓-RISE2	R. setosum.....	Spiny Currant.....	W
RIAM2	R. americanum.....	American Black Currant...	
✓-RIOD	R. odoratum.....	Buffalo Currant/GoldenC..	W
✓-RICE	R. cereum.....	Western Red Currant.....	W
SACE2	^{CERNUA} Saxifraga cernua.....	Saxifrage.....	*
SAOC4	S. occidentalis.....		*
TEJA	Telesonix jamesii.....		*

ROSACEAE - Rose

AGGR2	Agrimonia gryposepala.....		*
✓-AGST	A. striata.....		W
✓-AMAL2	Amelanchier alnifolia.....	Serviceberry.....	W
AMSA	A. sanguinea.....		*
✓-CEMO2	Cercocarpus montanus.....	Mountain Mahogany.....	W
✓-CRCH	Crataegus chrysocarpa.....	Hawthorn.....	W
CRSUS	C. succulenta.....		*W
✓-FRVE	Fragaria vesca.....		W
✓-FRVI	F. virginiana.....	Wild Strawberry.....	W
GERI2	Geum rivale.....		*
✓-GECA7	G. canadense.....	White Avens/Canada Avens.	W
GEAL3	G. aleppicum.....	Yellow Avens.....	*
✓-GETR	G. triflorum.....	Purple Avens.....	W
✓-PHOP	Physocarpus opulifolius.....	Ninebark.....	W
✓-PHMO4	P. monogynus.....	Ninebark.....	W
POFR4	Potentilla fruticosa.....	Shrubby Cinquefoil.....	
POBI7	P. biennis.....		*
✓-PON03	P. norvegica.....	Rough Cinquefoil.....	W
PODI2	P. diversifolia.....		*
✓-POFI3	P. fissa.....	Cinquefoil/Five-finger...	W
POGL9	P. glandulosa.....		*W
✓-POAR7	P. arguta.....	Tall Cinquefoil.....	W

ROSACEAE - Rose (continued)

✓-POCO 13	P. concinna.....	Cinquefoil.....	<u>W</u>
✓-POGR 9	P. gracilis.....	Cinquefoil.....	<u>W</u>
POANS 5	P. anserina.....	Silverweed.....	* <u> </u>
✓-POPE 8	P. pensylvanica.....	Cinquefoil.....	<u>W</u>
✓-POHIL	P. hippiana.....	Cinquefoil.....	<u>W</u>
✓-PRAM	Prunus americana.....	Wild Plum/American Plum..	<u>W</u>
✓-PRPEL	P. pensylvanica.....	Pin Cherry.....	<u>W</u>
✓-(I) PRPUB	P. besseyi → P. pumila var. besseyi	Sand Cherry.....	<u>W</u>
✓-PRVI	P. virginiana.....	Choke Cherry.....	<u>W</u>
✓-ROWO	Rosa woodsii.....	Rose.....	<u>W</u>
ROAC	R. acicularis.....	Wild Rose/Fendler Rose...	<u>O</u>
ROBL	R. blanda.....	Wild Rose.....	<u> </u>
✓-ROAR3	R. arkansana.....	Wild Rose.....	<u>W</u>
✓-RUID	Rubus ^{IDAENS} idaenus.....	Red Raspberry.....	<u>W</u> P
RUPU	R. pubescens.....	Dwarf Blackberry.....	* <u> </u>
SPAL 2	Spirea alba.....	Meadowsweet.....	* <u> </u>
SPBEL	S. betulifolia.....	Mountain Meadowsweet.....	* <u> </u>

FABACEAE - Pea *Leguminosae*

✓-AMFR	Amorpha fruticosa.....	False Indigo.....	<u> </u>
AMNA	A. nana.....	.....	*<u> </u>
✓-AMCA	A. canescens.....	Lead Plant.....	<u>W</u>
AMBR 2	Amphicarpaea bracteata.....	Hog Peanut.....	* <u> </u>
APAM	Apios americana.....	Ground Nut.....	* <u> </u>
ASCE	Astragalus ceramicus.....	.....	<u> </u>
✓-ASSP 6	A. spatulatus.....	Tufted Milkvetch.....	<u>W</u>
ASHYL	A. hyalinus.....	.....	*<u> </u>
ASGIS	A. gilviflorus.....	.....	<u>W</u>
ASLO 4	A. lotiflorus.....	.....	<u> </u>
✓-ASMI 10	A. missouriensis.....	Missouri Milkvetch.....	<u>W</u>
ASRA 2	A. racemosus.....	.....	<u> </u>
ASCA 11	A. canadensis.....	.....	<u> </u>
ASAD 3	A. adsurgens.....	.....	<u> </u>
✓-ASPU 9	A. purshii.....	Milkvetch.....	<u>W</u>
✓-ASBI 2	A. bisulcatus.....	Locoweed/Milkvetch.....	<u>W</u>
ASDR 3	A. drummondii.....	.....	*<u> </u>
ASAG 2	A. agrestis.....	.....	<u> </u>
ASPL 2	A. plattensis.....	.....	<u> </u>

FABACEAE - Pea (continued)

✓-ASCR2	A. crassicaupus.....	Groundplum Milkvetch.....	W
ASAM3	A. americanus.....	.....	*
✓-ASAL7	A. alpinus.....	Alpine Milkvetch.....	W
ASAU4	A. aboriginum.....	→ A. australis	.....
ASTE5	A. tenellus.....	.....	.....
ASFL2	A. flexuosus.....	.....	.....
ASMI9	A. miser.....	.....	.....
✓-ASGR3	A. gracilis.....	Locoweed.....	W
ASVES	A. vexilliflexus.....	.....	*
DAAU	Dalea aurea.....	.....	*
DAEN	D. enneandra.....	.....	W 8-6-84
DECA7	Desmodium canadense.....	.....	.....
GLLE3	Glycyrrhiza lepidota.....	Licorice.....	.....
HEAL	Hedysarum alpinum.....	.....	.....
LABC2	Lathyrus ochroleucus.....	.....	.....
✓-LAPO2	L. polymorphus.....	Showy Peavine.....	W
LAVE	L. venosus.....	.....	.....
LOPU3	Lotus purshianus.....	.....	.....
LUPU	Lupinus pusillus.....	.....	.....
✓-LUAR3	L. argenteus.....	Lupine/Blue-bonnet.....	W
MESA	Medicago sativa.....	Alfalfa.....	*
MEFA	M. falcata.....	Yellow Lucerne.....	*
✓-MELU	M. lupulina.....	Black Medic.....	W
MEAL2	Melilotus albus.....	→ ^{ALBA} White Sweet Clover.....	.....
✓-MEOF	M. officinalis.....	Yellow Sweet Clover.....	W
OXLA3	Oxytropis lambertii.....	Purple Locoweed.....	.....
OXCA4	O. campestris.....	.....	*
✓-OXSE	O. sericea.....	White Locoweed.....	W
✓-DACA7	Petalostemon candidum.....	→ Dalea candida White Prairie Clover.....	W
DACAO	P. occidentale.....	→ Dalea candida var. oligophylla Western Prairie Clover...	.....
✓-DAPU5	P. purpureum.....	→ Dalea purpurea Purple Prairie Clover.....	W
DAVI	P. villosum.....	→ Dalea villosa	.....
✓-PSES	Psoralea esculenta.....	Tipsin/Prairie Turnip....	W
PSCU	P. cuspidata.....	.....	.....
✓-PSAR2	P. argophylla.....	Silverleaf Scurf Pea.....	W
PSLA	P. lanceolata.....	.....	.....
✓-PSTE3	P. tenuiflora.....	Slimflower Scurf Pea.....	W
PSLI	P. linearifolia.....	.....	*

FABACEAE - Pea (continued)

SONU	Sophora nuttalliana.....	*
✓-THRH	Thermopsis rhombifolia.....Golden Pea.....	W
TRPR2	Trifolium pratense.....	Red Clover.....
TRRE3	T. repens.....	White Clover.....
TRHY	T. hybridum.....	Alsike Clover.....
VISA	Vicia sativa.....	Spring Vetch.....*
VIVI	V. villosa.....	Winter or Woolly Vetch...*
✓-VIAM	V. americana.....	American Vetch.....W

GERANIACEAE - Geranium

ERCIL	Erodium cicutarium.....	Stork's Bill.....*
✓-GSPU2	Geranium pusillum.....	Small-flowered Crane's Bill W
GESP	G. carolinianum→G. sphaerospermum	*
GERIG	G. richardsonii.....	0
GENAG	G. maculatum.....	Wild Geranium.....0
GEVI2	G. viscosissimum.....	.....
(I) GEVIN	G. nervosum→G. viscosissimum var. nervosum	*

OXALIDACEAE - Oxalis

O XVI	Oxalis violacea.....	
✓-O XST	O. stricta.....	Yellow Wood Sorrel.....W
O XDI2	O. dillenii.....	.....
✓-O XCO	O. corniculata.....	Wood Sorrel.....W

LINACEAE - Flax

LISU4	Linum sulcatum.....	*
✓-LIRI	L. rigidum.....	Yellow Flax.....W
✓-LIPE2	L. perenne.....	Blue Flax.....W

ZYGOPHYLLACEAE - Caltrop

TRTE	Tribulus terrestris.....	Puncture Vine.....*
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POLYGALACEAE - Milkwort

POSA3	Polygala sanguinea.....	*
✓-POVE	P. verticillata.....	Whorl-leaved Milkwort....W
✓-POAL4	P. alba.....	White Milkwort.....W
POSE3	P. senega.....	Senega Snake-root.....*

EUPHORBIACEAE - Spurge

CRTE4	Croton texensis.....	Skunkweed.....
EUSE4	Euphorbia serpens.....	*

EUPHORBIACEAE - Spurge (continued)

EUMIS	E. missurica.....	.....
EUGL3	E. glyptosperma.....	.....
EUSE5	E. serpyllifolia.....	*
EUFER2	E. fendleri.....	*
✓-EUST4	E. stictospora.....	Spurge/Carpetweed..... <u>W</u>
✓-EUMES	E. hexagona.....	*
✓-EUMAB	E. marginata.....	Snow-on-the-Mountain..... <u>W</u>
✓-EUDEY	E. dentata.....	Spurge..... <u>W</u>
EUES	E. podperae → E. esula	Leafy Spurge.....*
EUCY2	E. cyparissias.....	Cypress Spurge.....*
✓-EUSP	E. spathulata.....	Spurge..... <u>W</u>

CALLITRICHACEAE - Water Starwort

CAHE2	Callitriche hermaphroditica.....	Water Starwort.....*
CAVE2	C. verna.....	*

ANACARDIACEAE - Sumac

✓-RHGL	Rhus glabra.....	Smooth Sumac..... <u>W</u> 7-33-84
✓-RHAR4	R. aromatica.....	Skunk-bush Sumac..... <u>W</u>
✓-TORY	Toxicodendron rydbergii.....	Poison Ivy..... <u>W</u> -P

CELASTRACEAE - Staff Tree

✓-CESC	Celastrus scandens.....	Bittersweet..... <u>W</u> P
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ACERACEAE - Maple

✓-ACNE2	Acer negundo.....	Box Elder..... <u>W</u> P
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BALSAMINACEAE - Touch-me-not

IMCA	Impatiens biflora → I. capensis	Spotted Touch-me-not.....*
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RHAMNACEAE - Buckthorn

CEFE	Ceanothus fendleri.....	*
CEHE	C. herbaceus.....	
RHAL	Rhamnus alnifolia.....	Alder Buckthorn.....*
	R. catharticus	Buckthorn..... <u>W</u> 6-3-86 (non-narva)

VITACEAE - Grape

PAQU2	Parthenocissus quinquefolia.....	Virginia Creeper.....*
✓-PAVIS	P. vitacea.....	Woodbine..... <u>W</u>
✓-VIRI	Vitis riparia.....	Riverbank Grape..... <u>W</u> P

MALVACEAE - Mallow

ALRO3	Althaea rosea → Alcea rosea	Mollyhock.....*
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MALVACEAE - Mallow (continued)

HITR	Hibiscus trionum.....	Flower of an Hour.....	—
MARO	Malva rotundifolia.....	Common Mallow.....	*
✓-SPCO	Sphaeralcea coccinea.....	Scarlet Mallow.....	W

HYPERICACEAE - St. John's-wort

HYPE	Hypericum perforatum.....	St. John's Wort.....	*
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CISTACEAE - Rock Rose

HEBI2	Helianthemum bicknellii.....	Frostweed.....	*
LEIN	Lechea intermedia.....	Pinweed.....	*

VIOLACEAE - Violet

✓-VINO2	Viola nuttallii.....	Yellow Prairie Violet....	W
✓-VIPU3	V. pubescens.....	Common Yellow Violet....	W
✓-VICAY	V. canadensis.....	Canada Violet.....	W
✓-VIAD	V. adunca.....	.....	W
✓-VIRE2	V. pedatifida.....	Prairie Violet.....	W
VIRE2	V. renifolia.....	Kidney-leaved Violet.....	*
VISE2	V. selkirkii.....	Great Spurred Violet.....	*
✓-VIMI3	V. missouriensis.....	Violet.....	W
VIPAS	V. pratensis.....	Meadow Violet.....	*
VINE	V. nephrophylla.....	.....	*

LOASACEAE - Loasa

MEAL	Mentzelia albicaulis.....	.....	*
MEDI	M. dispersa.....	.....	*
✓-MEOL	M. oligosperma.....	Stick Leaf Blazing Star..	W
MEDE2	M. decapetala.....	Sand Lily.....	0
MENU	M. nuda.....	.....	*

CACTACEAE - Cactus

✓-COMIS	Coryphantha missouriensis.....	.....	W/P
✓-COVI9	C. vivipara.....	Pincushion Cactus.....	W/P
✓-ECVIR	Echinocereus viridiflorus.....	Hedgehog Cactus.....	W/P
✓-OPFR	Opuntia fragilis.....	.....	W/P
✓-OPHU	O. compressa → O. humifusa.....	Prickly Pear.....	W/P
✓-CPPS	O. polycantha.....	Common Prickly Pear.....	W

ELAAGNACEAE - Oleaster

ELAN	Elaeagnus angustifolia.....	Russian Olive.....	*
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ELAEAGNACEAE - Oleaster (continued)

✓-SHCA	Shepherdia canadensis.....	W-P
SHAR	S. argentea.....	Buffalo Berry.....

LYTHRACEAE - Loosestrife

LYAL4	Lythrum ^{L. alatum} dacotanum.....	
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ONAGRACEAE - Evening Primrose

BOGL	Moisduvalia glabella.....	
CAHA14	^{CALYLOPHUS} Calylphus hartwegii.....	
✓-CASE12	C. serrulatus.....	Shrubby Evening Primrose. W
✓-CILV	Circaea lutetiana.....	 ^{C. luctuosa} Enchanter's Nightshade... W
EPBR3	Epilobium paniculatum.....	 ^{E. brachycarpum}
EPAN2	E. angustifolium.....	Fireweed..... BW
EPPA	E. palustre.....	.....
EPLB2	E. leptophyllum.....	.....
EPCO	E. coloratum.....	.....
✓-EPCI	E. adenocaulon.....	 ^{E. ciliatum} Willow Herb..... W
GAPAF	Gaura parviflora.....	.....
✓-GACOS	G. coccinea.....	Scarlet Gaura..... W
GAD12	Gayophytum diffusum.....	Baby's Breath.....
CECE2	Oenothera ^{CAESPIDIOSA} caespitosa.....	Cowboy Primrose/Moonflower BW
✓-OEVI	O. strigosa.....	 ^{O. villosa} Yellow Evening Primrose.. BW
✓-OEBI	O. biennis.....	Evening Primrose..... W
✓-OELA	O. laciniata.....	.....
✓-OEAL	O. albicaulis.....	White Evening Primrose... W
✓-OECO2	O. coronopifolia.....	Evening Primrose..... W
CENU	O. nuttallii.....	 W
CEPA	O. pallida.....	.....
STLI2	Stenosiphon linifolius.....	

ARALIACEAE - Ginseng

✓-ARNU2	Aralia nudicaulis.....	Wild Sarsaparilla..... W-P
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APIACEAE - Carrot UMBELLIFERAE

BEER	Berula erecta.....	Water Parsnip.....
CACA19	Carum carvi.....	Caraway.....
CIMA2	Cicuta maculata.....	Water Hemlock.....
✓-COMA8	Conium maculatum.....	Poison Hemlock..... W
✓-CYMO	Cymopterus montanus.....	Parsnip..... W

APIACEAE - Carrot

CYAC	C. acaulis.....	.....	_____
DACA6	Daucus carota.....	Wild Carrot.....	<u>0</u>
✓-HESPL	Heracleum sphondylium.....	Cow Parsnip.....	<u>W</u>
✓-LOFO	Lomatium foeniculaceum.....	Whisk-broom Parsley.....	<u>W</u>
LOOR	L. orientale.....	.....	_____
LONU3	L. nuttallii.....	.....	_____*
LOMA3	L. ^{MACROCARPUM} macrocarpa.....	.....	_____*
MUDI	Musineon divaricatum.....	.....	_____
✓-MUTE3	M. tenuifolium.....	Narrow-leaved Musineon...	<u>W</u>
OSDE	Osmorhiza depauperata.....	.....	_____*
OSCH	O. chilensis.....	.....	_____*
✓-OSLO	O. longistylis.....	Sweet Cicely.....	<u>W</u>
PASA2	Pastinaca sativa.....	Parsnip.....	_____
PEGA3	Perideridia gairdneri.....	Squaw-Root.....	_____*
✓-SAMA2	Sanicula marilandica.....	Snakeroot.....	<u>W</u>
SACA15	S. canadensis.....	.....	_____*
✓-SISU2	Sium suave.....	Water Parsnip.....	<u>W</u>
ZIAP	Zizia aptera.....	.....	_____
ZIAU	Z. aurea.....	Golden Alexander.....	_____

CORNACEAE - Dogwood

COCA13	Cornus canadensis.....	Bunchberry.....	_____
✓-COST4	C. stolonifera.....	Red Osier.....	<u>W</u>

ERICACEAE - Heath

✓-ARUV	Arctostaphylos uva-ursi.....	Bearberry/Kinnikinnick...	<u>W</u> - P
CHUM	Chimaphila umbellata.....	Prince's Pine/Pipsissewa..*	_____
✓-PTAN2	Pterospora andromedea.....	Pine-drops.....	<u>W</u> P
PYAS	Pyrola asarifolia.....	.....	_____
PYRO	P. rotundifolia.....	.....	_____*
PYEL	P. elliptica.....	Wintergreen.....	<u>0</u>

PRIMULACEAE - Primrose

ANOC2	Androsace occidentalis.....	Rock Jasmine.....	<u>W</u> 5-18
✓-DOPA	Dodecatheon pauciflorum.....	Shooting Star.....	<u>W</u>
✓-DOPU	D. pulchellum.....	Shooting Star.....	<u>W</u>
LYTH2	Lysimachia thrysiiflora.....	Tufted Loosestrife.....*	_____
✓-LYCI	L. ciliata.....	Fringed Loosestrife.....	<u>W</u>

OLEACEAE - Olive

✓-FRPE	Fraxinus pennsylvanica.....	Green Ash.....	<u>W</u>	P
✓-SYVU	Syringa vulgaris.....	Lilac.....	<u>W</u>	P

GENTIANACEAE - Gentian

GEAF	Gentiana affinis.....	.....	<u>W</u>	
GEPU5	G. puberulenta.....	Downy Gentian.....	<u>W</u>	
✓-GEAM3	Gentianella amarella.....	Gentian.....	<u>W</u>	
HADE2	Halenia deflexa.....	Spurred Gentian.....	<u>W</u>	
SWRA	Swertia radiata.....	.....	<u>W</u>	

APOCYNACEAE - Dogbane

✓-APAN2	Apocynum androsaemifolium.....	Spreading Dogbane.....	<u>W</u>	
APCA	A. cannabinum.....	Indian Hemp.....	<u>W</u>	
✓-APSI	A. sibiricum.....	Dogbane/Indian Hemp.....	<u>W</u>	

ASCLEPIADACEAE - Milkweed

✓-ASST	Asclepias stenophylla.....	Green Milkweed.....	<u>W</u>	
ASVI	A. viridiflora.....	Green Milkweed.....	<u>W</u>	
✓-ASPU	A. pumila.....	Dwarf Milkweed.....	<u>W</u>	
✓-ASVE	A. verticillata.....	Whorled Milkweed.....	<u>W</u>	
ASIN	A. incarnata.....	Swamp Milkweed.....	<u>W</u>	
✓-ASOV	A. ovalifolia.....	Dwarf Milkweed.....	<u>W</u>	
✓-ASSP	A. speciosa.....	Showy Milkweed.....	<u>W</u>	
ASSY	A. syriaca.....	Common Milkweed.....	<u>W</u>	

CONVOLVULACEAE - Morning Glory

✓-COAR4	Convolvulus arvensis.....	Field Bindweed.....	<u>W</u>	
✓-CASE13	C. sepium.....	Hedge Bindweed.....	<u>W</u>	
CUPE3	Cuscuta pentagona.....	Dodder.....	<u>W</u>	
EVPI	Evolvulus nuttallianus.....	<i>E. pilosus</i>	<u>W</u>	
✓-IPLE	Ipomoea leptophylla.....	Bush Morning Glory.....	<u>W</u>	

POLEMONIACEAE - Phlox

✓-COLI2	Collomia linearis.....	Narrow-leaved Collomia... → <i>Ipomopsis spicata</i>	<u>W</u>	
✓-IPSP	Gilia spicata.....	Phlox.....	<u>W</u>	
✓-IPCOS	Ipomopsis congesta.....	Ball-head.....	<u>W</u>	P
LISE	Linanthus septentrionalis.....	.....	<u>W</u>	
MIGR	Microsteris gracilis.....	.....	<u>W</u>	
✓-PHAN4	Phlox andicola.....	Moss Phlox/Creeping Phlox	<u>W</u>	
✓-PHHO	P. hoodii.....	Hood Phlox.....	<u>W</u>	
✓-PHAL3	P. alyssifolia.....	Pointed Phlox.....	<u>W</u>	

HYDROPHYLLACEAE - Waterleaf

✓-ELNY	Ellisia nyctelea.....	W
PHLI	Phacelia linearis.....	*
PHHA	P. hastata.....	Scorpion Weed.....

BORAGINACEAE - Borage

CRFE3	Cryptantha fendleri.....	*
CRJA2	C. jamesii.....	*
CRCA8	C. cana.....	W
✓-CRCE	C. celosioides.....	Bradbury Cryptantha.....W
CRTTH	C. thrysiflora.....	*
✓-CYOF	Cynoglossum officinale.....	Hounds-tongue.....W
ECVU	Echium vulgare.....	Blue Weed.....*
HAFL2	Hackelia floribunda.....	*
HADE	H. deflexa.....	.....
✓-HAVI2	H. virginiana.....	Tall Stickseed.....W
HECU3	Heliotropium curassavicum.....	Heliotrope.....*
✓-LAEC	Lappula echinata.....	Stickseed.....W
✓-LARE	L. redowskii.....	Stickseed.....W
LIAR4	Lithospermum arvense.....	.....
LICA13	L. carolinense.....	*
✓-LIIN2	L. incisum.....	Fringed Puccoon/Gromwell.....W
MEOB	Mertensia oblongifolia.....	*
✓-MELA3	M. lanceolata.....	Blue Bells.....W
MYVE*	Myosotis verna.....	*
✓-ONMO	Onosmodium molle.....	False Gromwell.....W
PLSC2	Plagiobothrys scouleri.....	Popcorn Flower.....*

VERBENACEAE - Verbena

✓-VEBI	Verbena bipinnatifida.....	W
✓-VEST	V. stricta.....	Hoary Vervain/Woolly V...W
✓-VEBR	V. bracteata.....	Prostrate Vervain.....W
VEUP	V. urticifolia.....	White Verbena.....*
✓-VEHA2	V. hastata.....	Vervain.....W

LAMIACEAE - Mint *Labiatae* 78

✓-AGFO	Agastache foeniculum.....	Lavender Hyssop.....W
DRPA2	Dracocephalum parviflorum.....	Dragonhead.....
✓-GATE2	Galeopsis tetrahit.....	Hemp Nettle.....W
GLHE	Glechoma hederacea.....	Ground Ivy.....*
✓-*	Myosotis arvensis - - - - -	W 6-28-24
	M. sylvatica - - - - -	Forget-me-not - - - - - W 6-28-24

LAMIACEAE - Mint (continued)

✓- ~~HI~~ ^{HISPIDUM}	Hedeoma hispida.....	False Pennyroyal.....	<u>W</u>
✓-HEOR	H. drummondii.....	Pennyroyal.....	<u>W</u>
LAAM	Lamium amplexicaule.....	Henbit.....	<u>*</u>
✓-LECA2	Leonurus cardiaca.....	Motherwort.....	<u>W</u>
✓-LYAM	Lycopus americanus.....	Water Hoarhound.....	<u>W</u>
LYAS	L. asper.....	.....	<u>.....</u>
MAVU	Marrubium vulgare.....	Horehound.....	<u>*</u>
✓-MEAR4	Mentha arvensis.....	Field Mint.....	<u>W</u>
✓-MOFI	Monarda fistulosa.....	Wild Bergamot.....	<u>W</u>
✓-NECA2	Nepeta cataria.....	Catnip.....	<u>W</u>
✓-PRVU	Prunella vulgaris.....	Selfheal.....	<u>W</u>
✓-SARE3	Salvia reflexa.....	Sage.....	<u>W</u>
SCLA2	Scutellaria lateriflora.....	Skullcap.....	<u>.....</u>
SCGA	S. galericulata.....	Marsh Skullcap.....	<u>SW</u> 7-23-84
✓-STPA	Stachys palustris.....	Hedgenettle.....	<u>W</u>

SOLANACEAE - Nightshade

HYNI	Hyoisoyamus niger.....	Henbane.....	<u>SW</u>
LYHA	Lycium halimifolium.....	Matrimony Vine.....	<u>*</u>
✓-PHHE5	Physalis heterophylla.....	Ground Cherry.....	<u>W</u>
PHHE4	^{HEDERIFOLIA} P. hederasfolia.....	.....	<u>*</u>
✓-PHVIS	P. virginiana.....	Prairie Ground Cherry....	<u>W</u>
✓-SORO	Solanum rostratum.....	Buffalo Bur.....	<u>W</u>
SOAM	S. americanum.....	Black Nightshade.....	<u>W</u>
SOSA	S. villosum. → S. sarracheoides	Nightshade.....	<u>W</u>
✓-SOTR	S. triflorum.....	.....	<u>W</u>

SCROPHULARIACEAE - Figwort

AGTE3	Agalinis tenuifolia.....	.....	<u>.....</u>
BARO	Bacopa rotundifolia.....	Water Hyssop.....	<u>.....</u>
✓-BEWY	Besseyia wyomingensis.....	Kitten-tails.....	<u>W</u>
✓-CASE5	Castilleja sessiliflora.....	Indian Paintbrush.....	<u>W</u>
CASU12	C. sulphurea.....	.....	<u>.....</u>
✓-COPA3	Collinsia parviflora.....	Blue-Lips/Blue-eyed Mary.	<u>W</u>
GRNE	Gratiola neglecta.....	Hedge Hyssop.....	<u>.....</u>
LIAQ	Limosella aquatica.....	Mudwort.....	<u>*</u>
LICA6	Linaria canadensis.....	.....	<u>*</u>
(I) LIGED	L. dalmatica. → L. genistifolia sp. dalmatica	Toadflax.....	<u>*</u>
LIVU2	L. vulgaris.....	Butter and Eggs.....	<u>SW</u>

SCROPHULARIACEAE - Figwort (continued)

MIGL	Mimulus glabratus.....	*
MICU	M. guttatus.....	*
MIFL2	M. floribundus..... <i>Highland Creek - by his on trap</i>	*W <i>6-23-86 need to coll.</i>
✓-ORLU2	Orthocarpus luteus.....Owl's Clover.....	W
PEGR	Pedicularis grayii.....	*
PEGL3	Penstemon glaber.....Smooth Beardtongue.....	W <i>7-10-84</i>
✓-PEGR7	P. grandiflorus.....Shell-leaf/large Penstemon	W
✓-PEAN4	P. angustifolius.....Narrow Beardtongue.....	W
✓-PEER	P. eriantherus.....Crested Beardtongue.....	W
✓-PEAL2	P. albidus.....White Beardtongue.....	W
✓-PEGR5	P. gracilis.....Slender Beardtongue.....	W <i>6-23-86 need to coll.</i>
SCLA	Scrophularia lanceolata.....Figwort.....	W
✓-VETH	Verbascum thapsus.....Mullein.....	W
✓-VEAM2	Veronica americana.....Brooklime.....	W
✓-VECA7	V. catenata.....Speedwell.....	W
VEAN2	V. anagallis-aquatica.....	*
✓-VEPE2	V. peregrina.....	W
VEPE3	V. persica.....	*

OROBANCHACEAE - Broomrape

✓-ORFA	Orobanche fasciculata.....Cancer-root.....	W
ORLU	O. ludoviciana.....Broom-rape.....	.....

LENTIBULARIACEAE - Bladderwort

UTMA	Utricularia vulgaris..... <i>U. macrochiza</i> Bladderwort.....	
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PERYMACEAE - Lopseed

✓-PHLE5	Phryma leptostachya.....Lopseed.....	W
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PLANTAGINACEAE - Plantain

PLEL	Plantago elongata.....	*
✓-PLPA2	P. patagonica.....Suckhorn/Woolly Plantain.	W
PLER	P. eriopoda.....	*
✓-PLRU	P. rugelii.....Plantain/Ribgrass.....	W
PLMA2	P. major.....Common Plantain.....	W

RUBIACEAE - Madder

GATR2	Galium trifidum.....	*
✓-GABO2	G. boreale.....Northern Bedstraw.....	W
✓-GAAP2	G. aparine.....Cleavers.....	W
✓-GATR3	G. triflorum.....Sweet-scented Bedstraw...	W

CAPRIFOLIACEAE - Honeysuckle

LIB03	Linnaea borealis.....	Twinflower.....	—
L0D12	Lonicera dioica.....	Wild Honeysuckle.....	—
SACA12	Sambucus canadensis.....	Elderberry.....	—
✓SARA2	S. racemosa.....	.....	—
✓-SYOC	Symphoricarpos occidentalis.....	Wolfberry/Snowberry.....	W
✓-SYAL	S. albus.....	Snowberry.....	W P6-28-84
VIL5	Viburnum lentago.....	Nannyberry.....	W 7-23-84
VIOP	V. opulus.....	Highbush Cranberry.....	—

ADOXACEAE - Moschatel

ADMO	Adoxa moschatellina.....	Moschatel.....	—
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VALERIANACEAE - Valerian

VAED	Valeriana edulis.....		—
VADIV.	dicica.....		—
VAACV.	acutiloba.....		—

CUCURBITACEAE - Gourd

ECLO	Echinocystis lobata.....	Wild Cucumber.....	W 7-23-84
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CAMPANULACEAE - Bellflower

✓-CAR02	Campanula rotundifolia.....	Blue Bell.....	W
✓-CAAP2	C. aparinoides.....	Marsh Bellflower.....	W
TRLE3	Triodanis leptocarpa.....	.....	W 7-18-
✓-TRPE4	T. perfoliata.....	Venus' Looking Glass.....	W

LOBELIACEAE - Lobelia

✓-LOS I	Lobelia siphilitica.....	Blue Cardinal Flower.....	W
✓-LOSP	L. spicata.....	Spiked Lobelia.....	W

ASTERACEAE - Composite

✓-ACMI2	Achillea millefolium.....	Yarrow.....	W
✓-AGGL	Agoseris glauca.....	False Dandelion.....	W
AMAC2	Ambrosia acanthicarpa.....	Annual Bursage.....	—
AMTO3	A. tomentosa.....	Perennial Bursage.....	—
✓-AMTR	A. trifida.....	Giant Ragweed/Kinghead....	W
AMAR2	A. artemisiifolia.....	Small Ragweed.....	—
✓-AMPS	A. psilostachya.....	Ragweed.....	W
ANMA	Anaphalis margaritacea.....	Pearly Everlasting.....	W 7-23-84
ANPA4	Antennaria parviflora.....	.....	W
ANRO2	A. rosea.....	Catspaws.....	W

ASTERACEAE - Composite (continued)

✓-ANNE	A. neglecta.....	Field Pussytoes.....	W
ANPL	A. plantaginifolia.....	.....	*
ANCOS	Anthemis cotula.....	Dogfennel.....	*
ARLA3	Arctium lappa.....	Great Burdock.....	*
✓-ARMIL	A. minus.....	Common Burdock.....	W
ARFU3	Arnica fulgens.....	.....	*
ARLOS	A. lonchophylla.....	.....	*
✓-ARFR4	Artemisia frigida.....	Pasture Sage-brush.....	W
✓-ARFI2	A. filifolia.....	Silvery Wormwood.....	W
ARCA13	A. cana.....	.....	.....
ARTP2	A. tridentata.....	Sagebrush.....	W 5-19-86 LOWEN-CYN. C NEST CLIF
ARAB3	A. absinthium.....	Wormwood.....	.....
ARLO7	A. longifolia.....	.....	*
✓-ARLV	A. ludoviciana.....	White Sage.....	W
ARBI2	A. biennis.....	.....	*
✓-ARDR4	A. dracunculus.....	Silky Wormwood.....	W
ARCA12	A. campestris.....	Western Sagebrush.....	.....
ASCI	Aster ciliolatus.....	.....	.....
✓-ASOB2	A. oblongifolius.....	Prairie/Aromatic Aster....	W
ASNO	A. novae-angliae.....	New England Aster.....	.....
✓-ASJU	A. junciformis.....	Rush Aster.....	W
ASPU5	A. puniceus.....	.....	*
✓-ASLA5	A. laevis.....	Blue/Smooth Aster.....	W
✓-ASER3	A. ericoides.....	White Aster.....	W
ASFA2	A. falcatus.....	.....	.....
ASPA8	A. pauciflorus.....	.....	*
✓-SOPT4	A. ptarmicoides.....	→ Solidago ptarmicoides Sneezewort Aster.....	W
ASCO3	A. conspicuus.....	Rough Aster.....	*
ASSI2	A. simplex.....	.....	.....
✓-ASHE	A. hesperius.....	Lilac Aster.....	W
✓-BICE	Bidens cernua.....	Beggar-ticks.....	W
BIFR	B. frondosa.....	.....	.....
BOAS	Boltonia asteroides.....	.....	.....
CANU4	Carduus nutans.....	Musk Thistle.....	*
CECY2	Centaurea cyanus.....	Bachelor's Button.....	*
LEVU	Chrysanthemum leucanthemum.....	→ Leucanthemum vulgare Ox-eye Daisy.....	.....
✓-HEVI4	Chrysopsis villosa.....	→ Heterotheca villosa Gold Aster.....	W

ASTERACEAE - Composite (continued)

✓-CHNA2	Chrysothamnus nauseosus.....	Rabbit Brush.....	W/P
✓-CIIN	Cichorium intybus.....	Chicory.....	W/P
✓-CIARY	Cirsium arvense.....	Canada Thistle.....	W
✓-CIVU	C. vulgare.....	Bull Thistle.....	W
CICA11	C. canescens.....	.....	W
CIFL	C. flodmani.....	.....	W/P
✓-CIUN	C. undulatum.....	Wavy-leaved Thistle.....	W
CIDR2	C. drummondii.....	.....	W
CIAL2	C. altissimum.....	Thistle.....	O
✓-COCA5	Conyza canadensis.....	Horseweed.....	W
✓-CRRU3	Crepis runcinata.....	Hawk's Beard.....	W
✓-DYPA	Dyssodia papposa.....	Dogweed/Fetid Marigold...	W
✓-ECAN2	Echinacea angustifolia.....	Purple Cone-flower.....	W
✓-ERCA4	Erigeron canus.....	Fleabane.....	W
✓-ERLO	E. lonchophyllus.....	Daisy/Fleabane.....	W
ERAN	E. annuus.....	.....	W
✓-ERST3	E. strigosus.....	Daisy Fleabane.....	W
ERPU2	E. pumilus.....	.....	W
✓-ERGL2	E. glabellus.....	Smooth Fleabane.....	W
✓-ERFL	E. flagellaris.....	Fleabane.....	W
✓-ERBS2	E. bellidiflorus.....	.....	W
ERDI4	E. divergens.....	.....	W
✓-ERPH	E. philadelphicus.....	Fleabane.....	W
ERSP4	E. speciosus.....	Showy Daisy.....	O
✓-ERSU2	E. subtrinervis.....	Fleabane.....	W
✓-EILMA12	Eupatorium maculatum.....	Joe-pye Weed.....	W
EVPR	Evax prolifera.....	.....	W
GAPU	Gaillardia pulchella.....	.....	W
GAAR	G. aristata.....	Blanket Flower.....	W
✓-GNVI	Gnaphalium viscosum.....	Sticky Cudweed.....	W
✓-GRSG	Grindelia squarrosa.....	Gumweed.....	W
✓-GUSA2	Gutierrezia sarothrae.....	Matchbrush.....	W
✓-MASP4	Haplopappus spinulosus.....	Iron Plant/Goldenweed...	W
HEQU2	Helianthella quinquenervis.....	.....	W
HEPE	Helianthus petiolaris.....	.....	W
✓-HEAN3	H. annuus.....	Common Sunflower.....	W
✓-HERI2	H. rigidus.....	Stiff-leaved Sunflower...	W
*	Conyza ramosissima.....	.....	W

ASTERACEAE - Composite (continued)

HENU	H. nuttallii.....	*
HETU	H. tuberosus.....Jerusalem Artichoke.....	<u>W</u>
✓-HEMA2	H. maximiliana.....Maximilian's Sunflower...	<u>W</u>
HIAL2	Hieracium albiflorum.....	*
✓-HIUM	H. umbellatum.....Hawkweed.....	<u>W</u>
HYTE2	Hymenopappus tenuifolius.....	.....
✓-HYFI	H. filifolius.....	 <u>W</u>
✓-TEAC	Hymenoxys acaulis..... ^{→ Tetraeneuris acaulis} Stenless Hymenoxys.....	<u>W</u>
IVAX	Iva axillaris.....	.....
✓-IVXA	Iva xanthifolia.....Marshelder/False Ragweed.	<u>W</u>
✓-BRM03	Kuhnia eupatorioides..... ^{→ Brickellia mosieri} False Boneset.....	<u>W</u>
LASE	Lactuca serriola.....Prickly Lettuce.....	.....
✓-LACA	L. canadensis.....Wild Lettuce.....	<u>W</u>
LALU	L. ludoviciana.....Prairie Lettuce.....	.....
✓-LAPU	L. oblongifolia..... ^{→ L. pulchella} Blue Lettuce.....	<u>W</u>
✓-LABIL	L. biennis.....Wild Lettuce.....	<u>W</u>
LILI	Matris ligulistylis.....	.....
✓-LIPU	L. punctata.....Blazing Star.....	<u>W</u>
✓-LYJU	Lygodesmia juncea.....Skeleton Plant.....	<u>W</u>
MAGR2	Machaeranthera grindelioides.....Golden Weed.....	*
MATA2	M. tanacetifolia.....Tansy Aster.....	*
MACA2	M. canescens.....Hoary Aster.....	.....
MAGL2	Madia glomerata.....Tarweed.....	*
NOCU	Microseris cuspidata..... ^{→ Nothocalais cuspidata} False Dandelion.....	<u>W</u> 5-2-86
PESA5	^{PETASITES} Petesites sagittatus.....Sweet Coltsfoot.....	*
PIOP	Picradeniopsis oppositifolia.....	.....
PRAS	Prenanthes aspera.....	*
PARRA	P. racemosa.....	*
✓-PATA	Ratibida tagetes.....Coneflower.....	<u>W</u>
✓-PACO3	R. columnifera.....Prairie Coneflower.....	<u>W</u>
✓-PUHI2	Rudbeckia hirta.....Blackeyed Susan.....	<u>W</u>
RULA3	R. laciniata.....Goldenglow.....	.....
SERA	Senecio rapifolius.....	.....
SESP3	S. spartioides.....	*
✓-SERI2	S. riddellii.....	 <u>W</u>
SEER2	S. eremophilus.....	*

ASTERACEAE - Composite (continued)

✓-SEPL	S. plattensis.....	Prairie Ragwort.....	<u>W</u>
✓-SECA2	S. canus.....	Groundsel.....	<u>W</u>
SEPS2	^{PSEUDAUPEUS} S. pseudoaureus.....	.....	<u>•</u>
SEPA5	S. pauperculus.....	.....	<u>•</u>
SEHY2	S. hydrophilus.....	.....	<u>•</u>
SEIN2	S. integerrimus.....	Butterweed.....	<u>0</u>
✓-SECR	S. crassulus.....	Groundsel.....	<u>W</u>
EUGR5	Solidago graminifolia.....	→ Euthamia graminifolia	.....
✓-SORI2	S. rigida.....	Rigid/Stiff Goldenrod....	<u>W</u>
SOMO	S. mollis.....	.....	.....
SOSP2	S. speciosa.....	.....	.....
SOMI2	S. missouriensis.....	Prairie Goldenrod.....	<u>0</u>
SOGI	S. gigantea.....	Late Goldenrod.....	.....
✓-SONE	S. nemoralis.....	Gray Goldenrod.....	<u>W</u>
SOSP5	S. sparsiflora.....	.....	<u>•</u>
✓-SOCAP	S. canadensis.....	Canada Goldenrod.....	<u>W</u>
✓-SOAR2	Sonchus arvensis.....	Field Sow-thistle.....	<u>W</u>
✓-SOAS	S. asper.....	Spiny Sow-thistle.....	<u>W</u>
TAVU	Tanacetum vulgare.....	Tansy.....	<u>•</u>
TALA2	Taraxacum laevigatum.....	Red-seeded Dandelion.....	<u>•</u>
TAOF	T. officinale.....	Gray-seeded Dandelion....	<u>W</u>
TOGR	Townsendia grandiflora.....	.....	<u>•</u>
TOHO	T. hookeri.....	.....	<u>•W</u>
✓-TOEX2	T. exscapa.....	Townsendia.....	<u>W</u>
TRPO	Tragopogon porrifolius.....	Vegetable Oyster.....	<u>•</u>
✓-TRDU	T. dubius.....	Yellow Goatsbeard/Salsify	<u>W</u>
VEFA2	Vernonia fasciculata.....	Ironweed.....	<u>•</u>
XAST	Xanthium strumarium.....	Cocklebur.....	.....