

List of Rare and Endangered Species in the CSB/SJU Bailey Herbarium



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INTRODUCTION

The Minnesota Department of Natural Resources (MNDNR) is conducting an analysis of the plants and fungi listed as extinct, endangered, threatened, or of special concern. Currently 60 species are listed as endangered, 47 as Threatened, and 111 of Special Concern (218 total). This analysis is dated to 1988. Reassessment hopes to update the list by either putting new species on, moving species around on their severity of concern, or removing species from the list. To provide additional historical context, the MNDNR requested that state herbaria look over their collections and compile data on the species of special concern. The MNDNR's main concern was to update Minnesota's Endangered Flora and Fauna list that was published in 1988 and edited by Barbara Coffin and Lee Pfanmuller.

Some confusion can arise when speaking about rare vs. endangered plants. The Minnesota legislation defines endangered, threatened, and special concern species in Minnesota State Statute 84.0895. The statute states that a species which is endangered (En) for the state of Minnesota is defined as "threatened with extinction throughout all or a significant portion of its range" (Coffin 1988). This definition is given to those species of organisms that are the closest to extinction and defines the most severe condition. Threatened (Th) is defined by the Minnesota Statute as "a species that is likely to become endangered within the foreseeable future throughout all or a significant portion of its range". This condition is given to those species which are deemed to have real potential to become close to extinction within a relatively short amount of time. This is the second most concerned condition the MN DNR can give to an assessed species. Special Concern (SC) is defined as a species that is "not

endangered or threatened, but is extremely uncommon in Minnesota or has unique or highly specific habitat requirements and deserves careful monitoring of its status." Species that can be included in this category include those organisms that were once of either the endangered or threatened assessment but have been deemed protected or populations have increased. Special Concern species can also be categorized from those species that are on the edge of their natural range in Minnesota or have a small number of individuals in areas. This category is given to those organisms whose Minnesota population has been assessed and found to have trouble characteristics. In response to the MNDNR's request, a search of the College of Saint Benedict and Saint John's University Bailey Herbarium (*Index Herbariorum* 'CSB') for 408 species whose Minnesota population status was to be assessed by the MN DNR.

METHODS

A list of 408 vascular and non-vascular plants was received from the Minnesota DNR of various levels of assessed condition of currently being labeled as endangered, threatened, or of special concern (Appendix/Table 1). Each requested species was checked to see if a record of it exists in the CSB/SJU Bailey Herbarium. Herbarium specimens were checked and data from each were compiled in a master Microsoft Excel Spreadsheet file, including dates of collection, locality details, and the name(s) of collector(s) along with other locality information. If the locality of species could not be confidently placed in Minnesota it was left out of data collection. As the CSB/SJU Bailey Herbarium collection has many specimens collected and identified by non-experts (such as undergraduates), the identifications could potentially be incorrect. In

this event, the record was either omitted from the dataset or this was noted in the data compilation.

Some species had duplicates yielding a total of 159 records for the assessed species (Appendix 3).

RESULTS & DISCUSSION

The purpose of this study was to determine unique records for the Minnesota's Department of Natural Resources from the CSB/SJU Bailey Herbarium for species that were set to be re-assessed in their assessments of *Endangered*, *Threatened*, and *Special Concern* and species rare to the Minnesota region. This study resulted in an interesting data set.

Many of the 408 species checked for record (Appendix 1) were lacking from the Bailey Herbarium. Of the 408 species, there were records for 83 species or 20.3% of the requested species had record in the Bailey Herbarium (Appendix 2).

The records were collected by numerous individuals (Table 1). 58 collectors contributed records to the dataset in total. Michael D. Lee of the MNDNR collected 25 species from the requested 408 with 38 specimen records being added to the compilation of data (23.9% of the total) for the tracked species records in the Herbarium. Sister Remberta Westkaemper was the second most frequent contributor with collections of 18 species and 23 specimen records (14.47%) being added to the compilation of data in the Bailey collection. Welby R. Smith collected 15 different tracked species and contributed 18 specimen records (11.3%) to the data making him the third most frequent collector of tracked species in the CSB/SJU Bailey Herbarium.

Table 1: List of Collectors with number of done by that collector.

Collector	Species Collected	Specimens Collected	Percent of Total Specimens (%)
A.W.T	2	3	1.9
Ackerman, Dominic D.*	1	1	0.6
Axtmann, Marie*	2	2	1.3
Bach, Melissa J.*	1	1	0.6
Barb, Ann, Loriene, Jim	1	1	0.6
Barghusen, Jessica*	1	1	0.6
Barnd, Joshua*	1	1	0.6
Broker, John	1	1	0.6
Carr, Joseph T.*	1	1	0.6
Chandonnet, Z.L.	3	3	1.9
Clark, Matthew	1	1	0.6
Cofell, Laoraineie	1	1	0.6
Coyne, Mable	2	2	1.3
Daninger, Scott*	1	1	0.6
Foede, Mack*	1	1	0.6
Fr. Gerard, Fr. Cletus, Fr. Gunther	1	1	0.6
Fr. Gunther & Mr. Miller	1	1	0.6
Franta, Peter	1	1	0.6
Galkins, W. W.	1	1	0.6
Haas, M.W.*	1	1	0.6
Hansen, J.	2	2	1.3
Haqemeier, Brad. And Kelsey McKay	1	1	0.6
Healy, Luke.*	1	1	0.6
Hynes, P.	1	1	0.6
Jas Hansen	1	1	0.6

Lee, Michael D.	24	37	23.1
Lee, Michael D., Erika Rowe	1	1	0.6
Leiner, Rosalie*	1	1	0.6
Mack, Foede *	1	1	0.6
McNeilus, V.E.	1	1	0.6
Meyer, MaryLynn	1	1	0.6
Miller, Donald A.	1	1	0.6
Moschetz, Jeff L.	1	1	0.6
Myhre, Karen M.	1	3	1.9
Olsen, Mike	1	1	0.6
Oschwald, Zack*	1	1	0.6
Pettit, Jeffery A.	1	1	0.6
Philp, Dan*	2	2	1.3
Ploeger, Jon*	1	1	0.6
Pyatt, Jill C.*	1	1	0.6
Radabaugh D.K. & Price, M.M.*	1	1	0.6
Recker, K.M., K.A. Deutsch, E.M. Anderson	1	1	0.6
Rev. Joe	1	1	0.6
Saupe, S.G.	1	1	0.6
Siemers, Ross	3	3	1.9
Smith, Welby R.	15	18	11.3
Snee, Frank*	1	1	0.6
SR	1	1	0.6
Sr. Jeamette. OSB.	1	1	0.6
Tempel, Jerry	1	1	0.6
Toussaint, Joe. Chris Rose	1	1	0.6
Twohy, James	1	1	0.6
Weber, Mary E.	2	2	1.3
Weitzel, Thomas	1	1	0.6
Wentworth, Todd	1	1	0.6
Westkaemper, Sister Remberta	18	23	14.4
Zackowski, Dr. N.	2	4	2.5
Zackowski, Mack, Foede	1	3	1.9
N/A	7	9	5.6

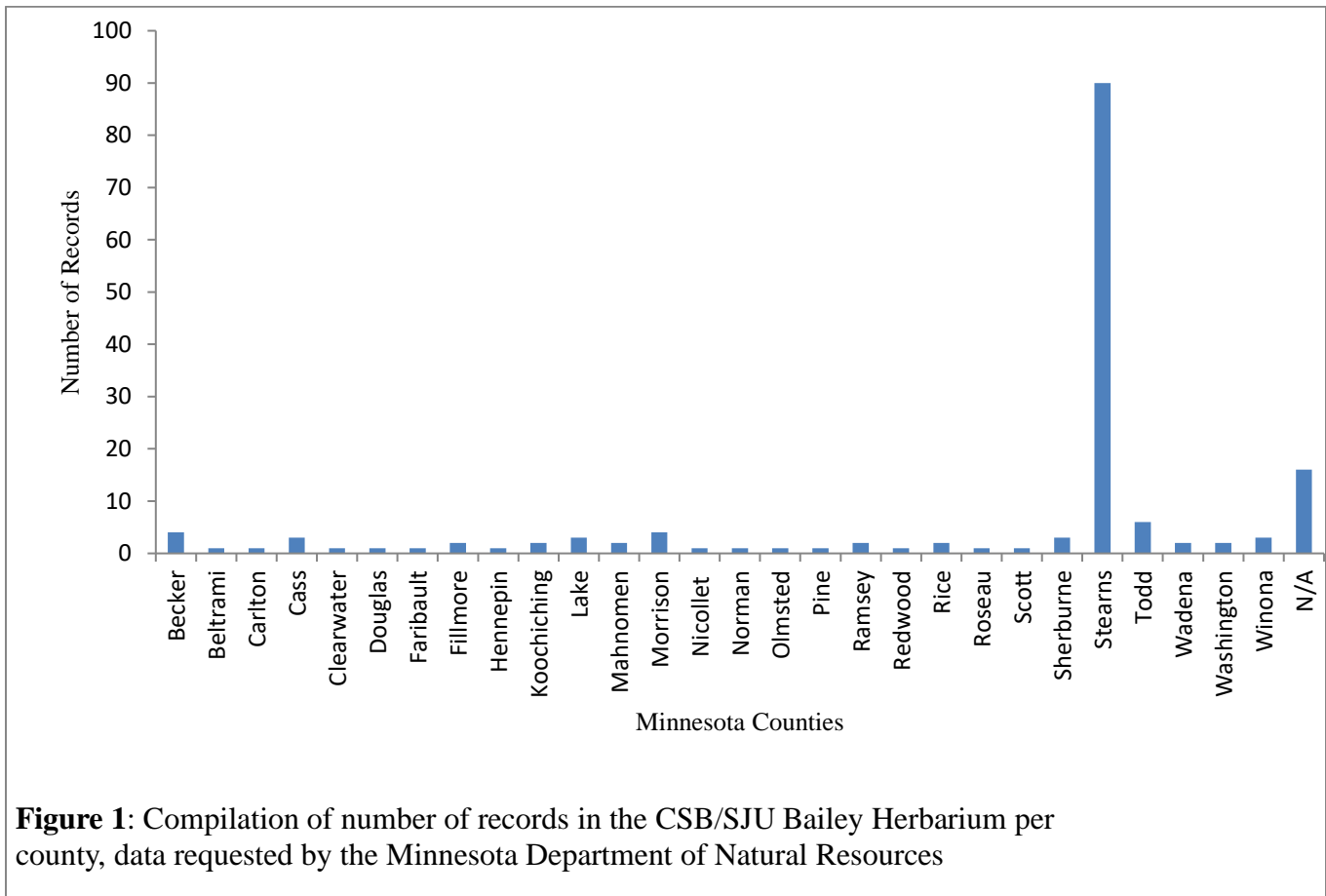


Figure 1: Compilation of number of records in the CSB/SJU Bailey Herbarium per county, data requested by the Minnesota Department of Natural Resources

Of the 159 records in the Bailey Herbarium 90 were collected from Stearns County (Figure 1). 10 records gave no information for County Locality, but 4 were suspected to be from Stearns County as well.

Of the vouchers that were from Stearns County, 30 specimens were collected around Collegeville and Saint John’s University and 17 were collected in St. Joseph around the campus of the College of Saint Benedicts. In Stearns County, Sister Remberta Westkaemper collected 21 of the 90 specimens in the data compilation from Stearns County and

Michael D. Lee collected 20 specimens. The county with the second most number of vouchers came from Todd County with a total of 6.

As the CSB/SJU Bailey Herbarium’s collection is usually augmented by local collectors, the result of having a majority of this data set being taken from Stearns County is logical. The majority of collections came from the area around the campuses of the College of Saint Benedicts and Saint John’s University, which is also logical as a significant portion of the collection comes from historical and contemporary faculty and student collectors.

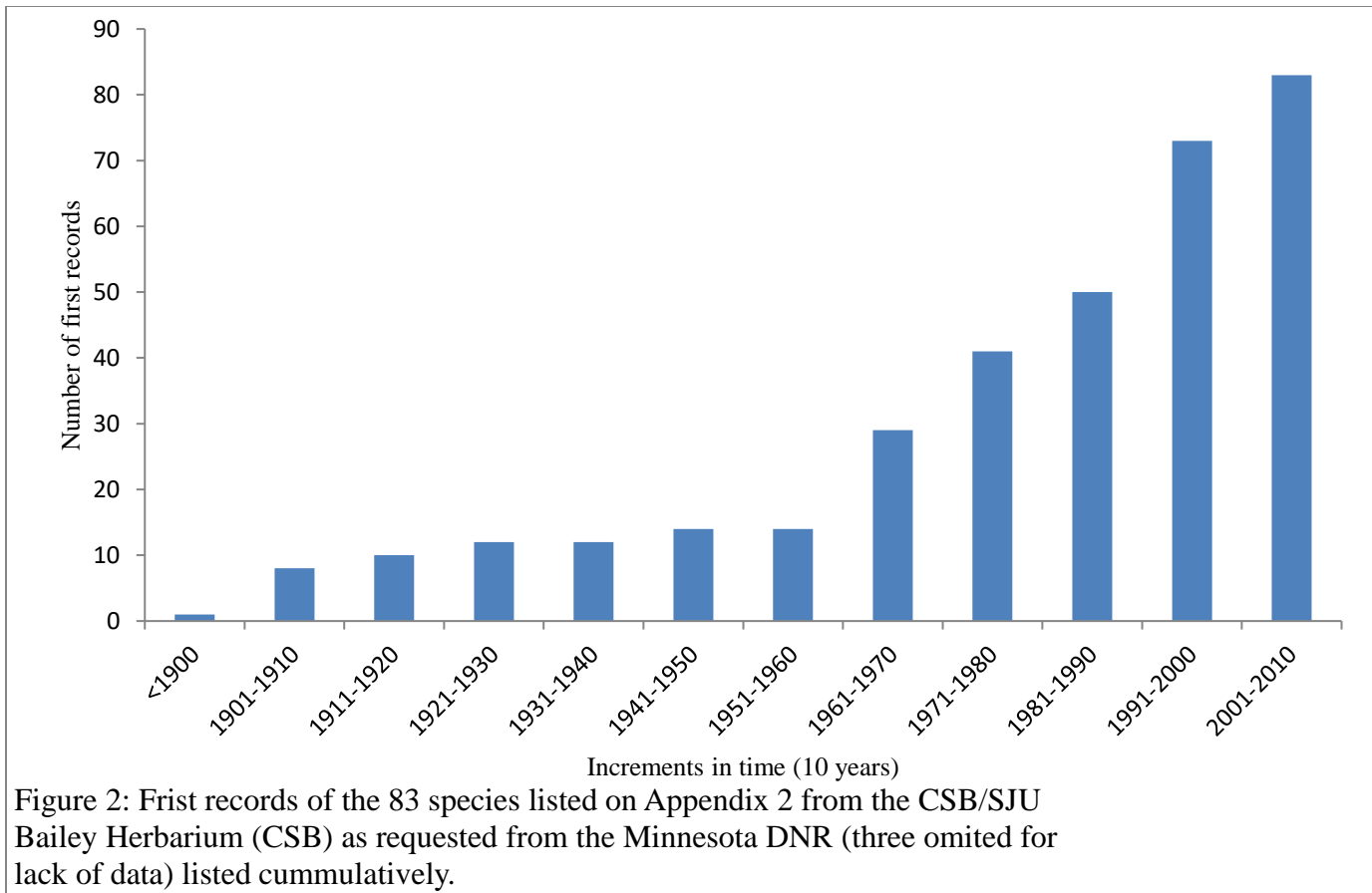


Figure 2 is a bar graph that depicts by year when each of the 83 species were first recorded. It cumulatively places the number of new species by 10 year groups and shows that the CSB/SJU grew slowly with unique and to-be rare or endangered species until 1960, and then began to take on increasingly rare and endangered species at a more rapid pace.

CONCLUSION

During the Spring of 2013 an analysis of the College of Saint Benedict and Saint John's University Bailey Herbarium was conducted to assess the records for Endangered, Threatened, and Special Concern Species specimens. This study was requested by the Minnesota Department of Natural Resources to provide some analyzable data for their re-assessment of the species currently listed as

Endangered, Threatened, and Special Concern. During the study 408 species were checked over in the Bailey Herbarium and 83 different species were found with a total of 159 different records. 58 various collectors were responsible the bulk of the records which were centered in Stearns County. These data will contribute to the MN DNR's re-assessment and will be used to provide a reference to the populations of each assessed plant contemporarily at the time of collection. This will allow the MN DNR to make better their judgment when re-assessing the status of each Endangered, Threatened, and Special Concern plant species in Minnesota.

REFERENCES

Coffin, Barbara & Pfannmuller, Lee. (1988). *Minnesota's endangered flora and fauna*. Minneapolis, MN: University of Minnesota Press.

APPENDICES

Appendix 1: List of 408 plant species that was requested to be checked for record and data compiled in the CSB/SJU Bailey Herbarium by the Minnesota Department of Natural Resources.	
Family	Genus & specific epithet
Alismataceae	<i>Sagittaria calycina</i> var. <i>calycina</i>
Acanthaceae	<i>Ruellia humilis</i>
Adoxaceae	<i>Adoxa moschatellina</i>
Alismataceae	<i>Alisma gramineum</i>
Alismataceae	<i>Sagittaria brevirostra</i>
Alismataceae	<i>Sagittaria graminea</i>
Alismataceae	<i>Sagittaria montevidensis</i>
Apiaceae	<i>Berula erecta</i>
Apiaceae	<i>Cymopterus glomeratus</i>
Apiaceae	<i>Eryngium yuccifolium</i>
Apiaceae	<i>Hydrocotyle americana</i>
Apiaceae	<i>Osmorhiza berteroi</i>
Apiaceae	<i>Osmorhiza depauperata</i>
Apiaceae	<i>Oxypolis rigidior</i>
Apiaceae	<i>Oxytropis viscida</i>
Apiaceae	<i>Polytaenia nuttallii</i>
Apiaceae	<i>Sanicula trifoliata</i>
Apiaceae	<i>Taenidia integerrima</i>
Apiaceae	<i>Thaspium barbinode</i>
Araceae	<i>Arisaema dracontium</i>
Araliaceae	<i>Panax quinquefolius</i>
Asclepiadaceae	<i>Asclepias amplexicaulis</i>
Asclepiadaceae	<i>Asclepias hirtella</i>
Asclepiadaceae	<i>Asclepias purpurascens</i>
Asclepiadaceae	<i>Asclepias stenophylla</i>
Asclepiadaceae	<i>Asclepias sullivantii</i>
Aspleniaceae	<i>Asplenium platyneuron</i>
Aspleniaceae	<i>Asplenium trichomanes</i> ssp. <i>trichomanes</i>
Asteraceae	<i>Achillea alpina</i>
Asteraceae	<i>Antennaria parvifolia</i>
Asteraceae	<i>Arnica lonchophylla</i>
Asteraceae	<i>Arnoglossum plantagineum</i>
Asteraceae	<i>Arnoglossum reniforme</i>
Asteraceae	<i>Artemisia borealis</i>
Asteraceae	<i>Artemisia campestris</i>
Asteraceae	<i>Bidens discoidea</i>
Asteraceae	<i>Cirsium pumilum</i> var. <i>hillii</i>
Asteraceae	<i>Dyssodia papposa</i>

Asteraceae	<i>Erigeron acris</i> var. <i>kamtschaticus</i> sensu lato
Asteraceae	<i>Erigeron pulchellus</i> var. <i>tolsteadii</i>
Asteraceae	<i>Eupatorium sessilifolium</i>
Asteraceae	<i>Gaillardia aristata</i>
Asteraceae	<i>Hasteola suaveolens</i>
Asteraceae	<i>Helianthus nuttallii</i> ssp. <i>rydbergii</i>
Asteraceae	<i>Hieracium longipilum</i>
Asteraceae	<i>Lactuca floridana</i>
Asteraceae	<i>Packera cana</i>
Asteraceae	<i>Packera indecora</i>
Asteraceae	<i>Parthenium integrifolium</i>
Asteraceae	<i>Prenanthes crepidinea</i>
Asteraceae	<i>Rudbeckia triloba</i> var. <i>triloba</i>
Asteraceae	<i>Shinnersoseris rostrata</i>
Asteraceae	<i>Solidago mollis</i>
Asteraceae	<i>Solidago sciaphila</i>
Asteraceae	<i>Symphotrichum pilosum</i>
Asteraceae	<i>Symphotrichum shortii</i>
Asteraceae	<i>Trimorpha lonchophylla</i>
Asteraceae	<i>Vernonia baldwinii</i>
Asteraceae	<i>Xanthisma spinulosum</i> var. <i>spinulosum</i>
Berberidaceae	<i>Actaea pachypoda</i>
Berberidaceae	<i>Jeffersonia diphylla</i>
Boraginaceae	<i>Myosotis verna</i>
Boraginaceae	<i>Plagiobothrys scouleri</i>
Brassicaceae	<i>Arabis laevigata</i>
Brassicaceae	<i>Boechera retrofracta</i>
Brassicaceae	<i>Cardamine pratensis</i> var. <i>palustris</i>
Brassicaceae	<i>Draba arabisans</i>
Brassicaceae	<i>Draba cana</i>
Brassicaceae	<i>Draba norvegica</i>
Brassicaceae	<i>Iodanthus pinnatifidus</i>
Brassicaceae	<i>Physaria ludoviciana</i>
Brassicaceae	<i>Rorippa sessiliflora</i>
Brassicaceae	<i>Subularia aquatica</i> ssp. <i>americana</i>
Cactaceae	<i>Escobaria vivipara</i>
Cactaceae	<i>Opuntia macrorhiza</i>
Callitrichaceae	<i>Callitriche heterophylla</i>
Campanulaceae	<i>Triodanis leptocarpa</i>
Capparaceae	<i>Polanisia jamesii</i>
Caprifoliaceae	<i>Symphoricarpos orbiculatus</i>
Caryophyllaceae	<i>Cerastium brachypodium</i>
Caryophyllaceae	<i>Ceratophyllum echinatum</i>
Caryophyllaceae	<i>Minuartia dawsonensis</i>
Caryophyllaceae	<i>Moehringia macrophylla</i>
Caryophyllaceae	<i>Paronychia canadensis</i>

Caryophyllaceae	<i>Paronychia fastigiata</i> var. <i>fastigiata</i>
Caryophyllaceae	<i>Sagina nodosa</i> ssp. <i>borealis</i>
Caryophyllaceae	<i>Silene drummondii</i> ssp. <i>drummondii</i>
Caryophyllaceae	<i>Silene nivea</i>
Caryophyllaceae	<i>Stellaria longipes</i> ssp. <i>longipes</i>
Chenopodiaceae	<i>Atriplex glabriuscula</i>
Chenopodiaceae	<i>Monolepis nuttalliana</i>
Chenopodiaceae	<i>Salicornia rubra</i>
Cistaceae	<i>Helianthemum canadense</i>
Cistaceae	<i>Hudsonia tomentosa</i>
Cistaceae	<i>Lechea tenuifolia</i> var. <i>tenuifolia</i>
Clusiaceae	<i>Hypericum kalmianum</i>
Commelinaceae	<i>Commelina erecta</i>
Crassulaceae	<i>Crassula aquatica</i>
Crassulaceae	<i>Rhodiola integrifolia</i> ssp. <i>leedyi</i>
Cupressaceae	<i>Juniperus horizontalis</i>
Cuscutaceae	<i>Cuscuta obtusiflora</i> var. <i>glandulosa</i>
Cuscutaceae	<i>Cuscuta polygonorum</i>
Cyperaceae	<i>Carex annectens</i>
Cyperaceae	<i>Carex capillaris</i>
Cyperaceae	<i>Carex careyana</i>
Cyperaceae	<i>Carex conjuncta</i>
Cyperaceae	<i>Carex conoidea</i>
Cyperaceae	<i>Carex crus-corvi</i>
Cyperaceae	<i>Carex davisii</i>
Cyperaceae	<i>Carex exilis</i>
Cyperaceae	<i>Carex festucacea</i>
Cyperaceae	<i>Carex flava</i>
Cyperaceae	<i>Carex formosa</i>
Cyperaceae	<i>Carex garberi</i>
Cyperaceae	<i>Carex grayi</i>
Cyperaceae	<i>Carex gynandra</i>
Cyperaceae	<i>Carex hallii</i>
Cyperaceae	<i>Carex hookerana</i>
Cyperaceae	<i>Carex jamesii</i>
Cyperaceae	<i>Carex laevivaginata</i>
Cyperaceae	<i>Carex laxiculmis</i>
Cyperaceae	<i>Carex lurida</i>
Cyperaceae	<i>Carex media</i>
Cyperaceae	<i>Carex michauxiana</i>
Cyperaceae	<i>Carex muskingumensis</i>
Cyperaceae	<i>Carex novae-angliae</i>
Cyperaceae	<i>Carex obtusata</i>
Cyperaceae	<i>Carex ormostachya</i>
Cyperaceae	<i>Carex pallescens</i>
Cyperaceae	<i>Carex plantaginea</i>

Cyperaceae	<i>Carex praticola</i>
Cyperaceae	<i>Carex rossii</i>
Cyperaceae	<i>Carex scirpoidea</i>
Cyperaceae	<i>Carex squarrosa</i>
Cyperaceae	<i>Carex sterilis</i>
Cyperaceae	<i>Carex supina ssp. spaniocarpa</i>
Cyperaceae	<i>Carex typhina</i>
Cyperaceae	<i>Carex woodii</i>
Cyperaceae	<i>Carex xerantica</i>
Cyperaceae	<i>Cladium mariscoides</i>
Cyperaceae	<i>Cyperus acuminatus</i>
Cyperaceae	<i>Eleocharis coloradoensis</i>
Cyperaceae	<i>Eleocharis flavescens var. olivacea</i>
Cyperaceae	<i>Eleocharis nitida</i>
Cyperaceae	<i>Eleocharis quinqueflora</i>
Cyperaceae	<i>Eleocharis robbinsii</i>
Cyperaceae	<i>Eleocharis rostellata</i>
Cyperaceae	<i>Eleocharis wolfii</i>
Cyperaceae	<i>Fimbristylis autumnalis</i>
Cyperaceae	<i>Fimbristylis puberula var. interior</i>
Cyperaceae	<i>Rhynchospora capillacea</i>
Cyperaceae	<i>Rhynchospora fusca</i>
Cyperaceae	<i>Scirpus georgianus</i>
Cyperaceae	<i>Scirpus pedicellatus</i>
Cyperaceae	<i>Scleria triglomerata</i>
Cyperaceae	<i>Scleria verticillata</i>
Cyperaceae	<i>Trichophorum clintonii</i>
Droseraceae	<i>Drosera anglica</i>
Droseraceae	<i>Drosera linearis</i>
Dryopteridaceae	<i>Cystopteris laurentiana</i>
Dryopteridaceae	<i>Deparia acrostichoides</i>
Dryopteridaceae	<i>Diplazium pycnocarpon</i>
Dryopteridaceae	<i>Dryopteris goldiana</i>
Dryopteridaceae	<i>Dryopteris marginalis</i>
Dryopteridaceae	<i>Gymnocarpium robertianum</i>
Dryopteridaceae	<i>Polystichum acrostichoides</i>
Dryopteridaceae	<i>Polystichum braunii</i>
Dryopteridaceae	<i>Woodsia alpina</i>
Dryopteridaceae	<i>Woodsia glabella</i>
Dryopteridaceae	<i>Woodsia oregana ssp. cathcartiana</i>
Dryopteridaceae	<i>Woodsia scopulina ssp. laurentiana</i>
Elaeagnaceae	<i>Shepherdia canadensis</i>
Elatinaceae	<i>Elatine triandra</i>
Empetraceae	<i>Empetrum atropurpureum</i>
Empetraceae	<i>Empetrum nigrum</i>
Ericaceae	<i>Gaylussacia baccata</i>

Ericaceae	<i>Vaccinium uliginosum</i>
Euphorbiaceae	<i>Chamaesyce missurica</i>
Euphorbiaceae	<i>Crotalaria sagittalis</i>
Euphorbiaceae	<i>Croton glandulosus</i>
Euphorbiaceae	<i>Euphorbia hexagona</i>
Fabaceae	<i>Astragalus alpinus</i> var. <i>alpinus</i>
Fabaceae	<i>Astragalus flexuosus</i> var. <i>flexuosus</i>
Fabaceae	<i>Astragalus lotiflorus</i>
Fabaceae	<i>Astragalus missouriensis</i> var. <i>missouriensis</i>
Fabaceae	<i>Astragalus neglectus</i>
Fabaceae	<i>Astragalus racemosus</i>
Fabaceae	<i>Astragalus tenellus</i>
Fabaceae	<i>Baptisia bracteata</i> var. <i>glabrescens</i>
Fabaceae	<i>Baptisia lactea</i> var. <i>lactea</i>
Fabaceae	<i>Dalea candida</i> var. <i>oligophylla</i>
Fabaceae	<i>Decodon verticillatus</i>
Fabaceae	<i>Desmanthus illinoensis</i>
Fabaceae	<i>Desmodium cuspidatum</i> var. <i>longifolium</i>
Fabaceae	<i>Desmodium nudiflorum</i>
Fabaceae	<i>Gleditsia triacanthos</i>
Fabaceae	<i>Gymnocladus dioica</i>
Fabaceae	<i>Lespedeza leptostachya</i>
Fabaceae	<i>Psoralidium tenuiflorum</i>
Fabaceae	<i>Quercus bicolor</i>
Fabaceae	<i>Tephrosia virginiana</i>
Fagaceae	<i>Quercus muehlenbergii</i>
Fumariaceae	<i>Adlumia fungosa</i>
Fumariaceae	<i>Dicentra canadensis</i>
Gentianaceae	<i>Bartonia virginica</i>
Gentianaceae	<i>Gentiana affinis</i>
Gentianaceae	<i>Gentianella amarella</i>
Gentianaceae	<i>Gentianopsis procera</i>
Haloragaceae	<i>Myriophyllum heterophyllum</i>
Haloragaceae	<i>Myriophyllum tenellum</i>
Hamamelidaceae	<i>Hamamelis virginiana</i>
Hydrocharitaceae	<i>Elodea bifoliata</i>
Hydrophyllaceae	<i>Phacelia franklinii</i>
Isoetaceae	<i>Isoetes melanopoda</i>
Juncaceae	<i>Juncus articulatus</i>
Juncaceae	<i>Juncus brachycarpus</i>
Juncaceae	<i>Juncus gerardii</i>
Juncaceae	<i>Juncus marginatus</i>
Juncaceae	<i>Juncus stygius</i> var. <i>americanus</i>
Juncaceae	<i>Juncus subtilis</i>
Juncaceae	<i>Luzula parviflora</i>
Juncaginaceae	<i>Triglochin palustris</i>

Juglandaceae	<i>Juglans cinerea</i>
Lamiaceae	<i>Agastache nepetoides</i>
Lamiaceae	<i>Hedeoma pulegioides</i>
Lamiaceae	<i>Lycopus virginicus</i>
Lamiaceae	<i>Scutellaria ovata</i> var. <i>versicolor</i>
Lentibulariaceae	<i>Pinguicula vulgaris</i>
Lentibulariaceae	<i>Utricularia geminiscapa</i>
Lentibulariaceae	<i>Utricularia gibba</i>
Lentibulariaceae	<i>Utricularia purpurea</i>
Lentibulariaceae	<i>Utricularia resupinata</i>
Liliaceae	<i>Allium cernuum</i>
Liliaceae	<i>Allium schoenoprasum</i> var. <i>sibiricum</i>
Liliaceae	<i>Erythronium propullans</i>
Liliaceae	<i>Prosartes trachycarpa</i>
Liliaceae	<i>Tofieldia pusilla</i>
Liliaceae	<i>Trillium nivale</i>
Limnanthaceae	<i>Floerkea proserpinacoides</i>
Lycopodiaceae	<i>Huperzia appalachiana</i>
Lycopodiaceae	<i>Huperzia porophila</i>
Lycopodiaceae	<i>Huperzia x bartleyi</i>
Lythraceae	<i>Didiplis diandra</i>
Lythraceae	<i>Rotala ramosior</i>
Malvaceae	<i>Napaea dioica</i>
Marsileaceae	<i>Marsilea vestita</i>
Moraceae	<i>Morus rubra</i>
Najadaceae	<i>Najas gracillima</i>
Najadaceae	<i>Najas guadalupensis</i> ssp. <i>olivacea</i>
Najadaceae	<i>Najas marina</i>
Nymphaeaceae	<i>Nymphaea leibergii</i>
Onagraceae	<i>Gaura biennis</i>
Onagraceae	<i>Oenothera laciniata</i>
Onagraceae	<i>Oenothera rhombipetala</i>
Ophioglossaceae	<i>Botrychium acuminatum</i>
Ophioglossaceae	<i>Botrychium ascendens</i>
Ophioglossaceae	<i>Botrychium campestre</i>
Ophioglossaceae	<i>Botrychium gallicomontanum</i>
Ophioglossaceae	<i>Botrychium lanceolatum</i> ssp. <i>angustisegmentum</i>
Ophioglossaceae	<i>Botrychium lineare</i>
Ophioglossaceae	<i>Botrychium lunaria</i>
Ophioglossaceae	<i>Botrychium matricariifolium</i>
Ophioglossaceae	<i>Botrychium michiganense</i>
Ophioglossaceae	<i>Botrychium minganense</i>
Ophioglossaceae	<i>Botrychium mormo</i>
Ophioglossaceae	<i>Botrychium oneidense</i>
Ophioglossaceae	<i>Botrychium pallidum</i>
Ophioglossaceae	<i>Botrychium rugulosum</i>

Ophioglossaceae	<i>Botrychium simplex</i>
Ophioglossaceae	<i>Botrychium spathulatum</i>
Orchidaceae	<i>Arethusa bulbosa</i>
Orchidaceae	<i>Calopogon oklahomensis</i>
Orchidaceae	<i>Cypripedium arietinum</i>
Orchidaceae	<i>Cypripedium candidum</i>
Orchidaceae	<i>Liparis liliifolia</i>
Orchidaceae	<i>Listera auriculata</i>
Orchidaceae	<i>Listera convallarioides</i>
Orchidaceae	<i>Malaxis monophyllos var. brachypoda</i>
Orchidaceae	<i>Malaxis paludosa</i>
Orchidaceae	<i>Platanthera clavellata</i>
Orchidaceae	<i>Platanthera flava var. herbiola</i>
Orchidaceae	<i>Platanthera praeclara</i>
Orchidaceae	<i>Spiranthes casei</i>
Orobanchaceae	<i>Orobanche fasciculata</i>
Orobanchaceae	<i>Orobanche ludoviciana var. ludoviciana</i>
Orobanchaceae	<i>Orobanche uniflora</i>
Pannariaceae	<i>Protopannaria pezizoides</i>
Pinaceae	<i>Tsuga canadensis</i>
Plantaginaceae	<i>Littorella americana</i>
Plantaginaceae	<i>Plantago elongata</i>
Poaceae	<i>Achnatherum hymenoides</i>
Poaceae	<i>Agrostis hyemalis</i>
Poaceae	<i>Agrostis scabra</i>
Poaceae	<i>Alopecurus carolinianus</i>
Poaceae	<i>Ammophila breviligulata ssp. breviligulata</i>
Poaceae	<i>Aristida longespica var. geniculata</i>
Poaceae	<i>Aristida purpurea var. longiseta</i>
Poaceae	<i>Aristida tuberculosa</i>
Poaceae	<i>Avenula hookeri</i>
Poaceae	<i>Buchloe dactyloides</i>
Poaceae	<i>Calamagrostis lacustris</i>
Poaceae	<i>Calamagrostis montanensis</i>
Poaceae	<i>Calamagrostis purpurascens</i>
Poaceae	<i>Deschampsia flexuosa</i>
Poaceae	<i>Diarrhena obovata</i>
Poaceae	<i>Echinochloa walteri</i>
Poaceae	<i>Hordeum pusillum</i>
Poaceae	<i>Leersia lenticularis</i>
Poaceae	<i>Melica nitens</i>
Poaceae	<i>Muhlenbergia uniflora</i>
Poaceae	<i>Piptatherum canadense</i>
Poaceae	<i>Poa alpina</i>
Poaceae	<i>Poa arida</i>
Poaceae	<i>Poa paludigena</i>

Poaceae	<i>Poa sylvestris</i>
Poaceae	<i>Poa wolfii</i>
Poaceae	<i>Puccinellia nuttalliana</i>
Poaceae	<i>Schedonnardus paniculatus</i>
Poaceae	<i>Spartina gracilis</i>
Poaceae	<i>Torreyochloa pallida</i>
Poaceae	<i>Triplasis purpurea</i> var. <i>purpurea</i>
Poaceae	<i>Trisetum spicatum</i>
Polemoniaceae	<i>Phlox maculata</i>
Polemoniaceae	<i>Polemonium occidentale</i> ssp. <i>lacustre</i>
Polygalaceae	<i>Polygala cruciata</i>
Polygonaceae	<i>Bistorta vivipara</i>
Polygonaceae	<i>Persicaria careyi</i>
Polygonaceae	<i>Polygonum arifolium</i>
Polygonaceae	<i>Polygonum hydropiperoides</i>
Polygonaceae	<i>Rumex occidentalis</i>
Pontederiaceae	<i>Heteranthera limosa</i>
Portulacaceae	<i>Claytonia caroliniana</i>
Portulacaceae	<i>Montia chamissoi</i>
Portulacaceae	<i>Talinum rugospermum</i>
Potamogetonaceae	<i>Potamogeton bicupulatus</i>
Potamogetonaceae	<i>Potamogeton confervoides</i>
Potamogetonaceae	<i>Potamogeton diversifolius</i>
Potamogetonaceae	<i>Potamogeton oakesianus</i>
Potamogetonaceae	<i>Potamogeton pulcher</i>
Potamogetonaceae	<i>Potamogeton vaseyi</i>
Potamogetonaceae	<i>Stuckenia vaginata</i>
Primulaceae	<i>Androsace septentrionalis</i>
Primulaceae	<i>Dodecatheon amethystinum</i>
Primulaceae	<i>Dodecatheon meadia</i>
Primulaceae	<i>Lysimachia maritima</i>
Primulaceae	<i>Lysimachia quadrifolia</i>
Pteridaceae	<i>Cheilanthes lanosa</i>
Pteridaceae	<i>Pellaea atropurpurea</i>
Pyrolaceae	<i>Pyrola minor</i>
Ranunculaceae	<i>Anemone multifida</i>
Ranunculaceae	<i>Caltha natans</i>
Ranunculaceae	<i>Hydrastis canadensis</i>
Ranunculaceae	<i>Myosurus minimus</i>
Ranunculaceae	<i>Ranunculus gmelinii</i>
Ranunculaceae	<i>Ranunculus lapponicus</i>
Ranunculaceae	<i>Thalictrum revolutum</i>
Rosaceae	<i>Chamaerhodos nuttallii</i>
Rosaceae	<i>Crataegus calpodendron</i>
Rosaceae	<i>Crataegus douglasii</i>
Rosaceae	<i>Crataegus scabrida</i>

Rosaceae	<i>Geum laciniatum</i>
Rosaceae	<i>Potentilla effusa</i>
Rosaceae	<i>Potentilla paradoxa</i>
Rosaceae	<i>Rubus chamaemorus</i>
Rosaceae	<i>Rubus fulleri</i>
Rosaceae	<i>Rubus missouricus</i>
Rosaceae	<i>Rubus multiflorus</i>
Rosaceae	<i>Rubus quaesitus</i>
Rosaceae	<i>Rubus semisetosus</i>
Rosaceae	<i>Rubus stipulatus</i>
Rosaceae	<i>Rubus vermontanus</i>
Rosaceae	<i>Waldsteinia fragarioides</i> var. <i>fragarioides</i>
Rubiaceae	<i>Cephalanthus occidentalis</i>
Rubiaceae	<i>Galium circaezans</i> var. <i>hypomalacum</i>
Ruppiaceae	<i>Ruppia cirrhosa</i>
Salicaceae	<i>Salix maccalliana</i>
Salicaceae	<i>Salix pellita</i>
Salicaceae	<i>Salix pseudomonticola</i>
Santalaceae	<i>Geocaulon lividum</i>
Saxifragaceae	<i>Chrysosplenium iowense</i>
Saxifragaceae	<i>Saxifraga cernua</i>
Saxifragaceae	<i>Saxifraga paniculata</i>
Saxifragaceae	<i>Sullivantia sullivantii</i>
Scrophulariaceae	<i>Agalinis auriculata</i>
Scrophulariaceae	<i>Agalinis gattingeri</i>
Scrophulariaceae	<i>Agalinis purpurea</i>
Scrophulariaceae	<i>Aureolaria grandiflora</i> var. <i>pulchra</i>
Scrophulariaceae	<i>Aureolaria pedicularia</i>
Scrophulariaceae	<i>Bacopa rotundifolia</i>
Scrophulariaceae	<i>Besseyia bullii</i>
Scrophulariaceae	<i>Castilleja septentrionalis</i>
Scrophulariaceae	<i>Euphrasia hudsoniana</i> var. <i>ramosior</i>
Scrophulariaceae	<i>Limosella aquatica</i>
Scrophulariaceae	<i>Linaria canadensis</i>
Scrophulariaceae	<i>Nuttallanthus canadensis</i>
Scrophulariaceae	<i>Penstemon digitalis</i>
Selaginellaceae	<i>Selaginella selaginoides</i>
Sparganiaceae	<i>Sparganium glomeratum</i>
Thelypteridaceae	<i>Phegopteris hexagonoptera</i>
Valerianaceae	<i>Valeriana edulis</i> var. <i>ciliata</i>
Verbenaceae	<i>Verbena simplex</i>
Violaceae	<i>Hybanthus concolor</i>
Violaceae	<i>Viola lanceolata</i> var. <i>lanceolata</i>
Violaceae	<i>Viola nuttallii</i>
Vitaceae	<i>Vitis aestivalis</i>
Vitaceae	<i>Vitis riparia</i>

Xyridaceae	<i>Xyris montana</i>
Xyridaceae	<i>Xyris torta</i>

Appendix 2: List of species of plants with vouchers present in the CSB/SJU from the list on Appendix 1.

Family	Genus/specific epithet	Number of Records
Alismataceae	<i>Sagittaria calycina</i> var. <i>calycina</i>	1
Apiaceae	<i>Eryngium yuccifolium</i>	2
Apiaceae	<i>Oxypolis rigidior</i>	1
Apiaceae	<i>Sanicula trifoliata</i>	2
Apiaceae	<i>Taenidia integerrima</i>	1
Apiaceae	<i>Thaspium barbinode</i>	1
Araliaceae	<i>Panax quinquefolius</i>	5
Asclepiadaceae	<i>Asclepias purpurascens</i>	1
Asteraceae	<i>Artemisia campestris</i>	2
Asteraceae	<i>Erigeron acris</i> var. <i>kamtschaticus sensu lato</i>	1
Asteraceae	<i>Erigeron pulchellus</i> var. <i>tolsteadii</i>	4
Asteraceae	<i>Gaillardia aristata</i>	1
Asteraceae	<i>Lactuca floridana</i>	1
Asteraceae	<i>Shinnersoseris rostrata</i>	1
Asteraceae	<i>Solidago mollis</i>	1
Brassicaceae	<i>Arabis laevigata</i>	3
Callitrichaceae	<i>Callitriche heterophylla</i>	1
Caprifoliaceae	<i>Symphoricarpos orbiculatus</i>	1
Caryophyllaceae	<i>Minuartia dawsonensis</i>	1
Caryophyllaceae	<i>Paronychia fastigiata</i> var. <i>fastigiata</i>	1
Caryophyllaceae	<i>Silene nivea</i>	1
Caryophyllaceae	<i>Stellaria longipes</i> ssp. <i>longipes</i>	1
Cistaceae	<i>Lechea tenuifolia</i> var. <i>tenuifolia</i>	1
Commelinaceae	<i>Commelina erecta</i>	1
Cupressaceae	<i>Juniperus horizontalis</i>	2
Cyperaceae	<i>Carex conoidea</i>	3
Cyperaceae	<i>Carex festucacea</i>	3
Cyperaceae	<i>Carex formosa</i>	1
Cyperaceae	<i>Carex grayi</i>	1
Cyperaceae	<i>Carex lurida</i>	1
Cyperaceae	<i>Carex media</i>	1
Cyperaceae	<i>Carex squarrosa</i>	3
Cyperaceae	<i>Carex sterilis</i>	3
Cyperaceae	<i>Carex xerantica</i>	1
Cyperaceae	<i>Cladium mariscoides</i>	1
Cyperaceae	<i>Fimbristylis autumnalis</i>	1
Cyperaceae	<i>Rhynchospora capillacea</i>	2
Droseraceae	<i>Drosera anglica</i>	1

Droseraceae	<i>Drosera linearis</i>	1
Dryopteridaceae	<i>Gymnocarpium robertianum</i>	1
Elaeagnaceae	<i>Shepherdia canadensis</i>	1
Fabaceae	<i>Astragalus neglectus</i>	1
Fabaceae	<i>Desmodium nudiflorum</i>	2
Fabaceae	<i>Gleditsia triacanthos</i>	2
Fabaceae	<i>Lespedeza leptostachya</i>	2
Fabaceae	<i>Quercus bicolor</i>	2
Gentianaceae	<i>Gentianopsis procera</i>	2
Haloragaceae	<i>Myriophyllum tenellum</i>	1
Hamamelidaceae	<i>Hamamelis virginiana</i>	1
Juncaceae	<i>Juncus articulatus</i>	1
Lamiaceae	<i>Agastache nepetoides</i>	1
Lamiaceae	<i>Hedeoma pulegioides</i>	2
Lamiaceae	<i>Lycopus virginicus</i>	1
Lentibulariaceae	<i>Utricularia gibba</i>	6
Liliaceae	<i>Erythronium propullans</i>	2
Liliaceae	<i>Trillium nivale</i>	3
Limnanthaceae	<i>Floerkea proserpinacoides</i>	1
Ophioglossaceae	<i>Botrychium lunaria</i>	2
Ophioglossaceae	<i>Botrychium matricariifolium</i>	2
Orchidaceae	<i>Cypripedium arietinum</i>	9
Orchidaceae	<i>Platanthera flava</i> var. <i>herbiola</i>	2
Plantaginaceae	<i>Plantago elongata</i>	1
Poaceae	<i>Agrostis hyemalis</i>	4
Poaceae	<i>Agrostis scabra</i>	1
Poaceae	<i>Diarrhena obovata</i>	1
Poaceae	<i>Echinochloa walteri</i>	1
Poaceae	<i>Hordeum pusillum</i>	1
Poaceae	<i>Triplasis purpurea</i> var. <i>purpurea</i>	1
Polemoniaceae	<i>Phlox maculata</i>	1
Polygonaceae	<i>Polygonum arifolium</i>	1
Portulacaceae	<i>Claytonia caroliniana</i>	1
Potamogetonaceae	<i>Potamogeton vaseyi</i>	1
Primulaceae	<i>Androsace septentrionalis</i>	4
Primulaceae	<i>Lysimachia quadrifolia</i>	2
Ranunculaceae	<i>Hydrastis canadensis</i>	2
Ranunculaceae	<i>Ranunculus gmelinii</i>	1
Ranunculaceae	<i>Thalictrum revolutum</i>	2
Rosaceae	<i>Crataegus douglasii</i>	2
Rosaceae	<i>Rubus semisetosus</i>	4
Scrophulariaceae	<i>Castilleja septentrionalis</i>	1
Scrophulariaceae	<i>Linaria canadensis</i>	1
Scrophulariaceae	<i>Penstemon digitalis</i>	2
Sparganiaceae	<i>Sparganium glomeratum</i>	2
Vitaceae	<i>Vitis riparia</i>	15

Appendix 3: Compilation of data collected from the CSB/SJU Bailey Herbarium in the Spring of 2013.

Family	Genus/specific epithet	Collector Name	Collection Year	County
Alismataceae	<i>Sagittaria calycina</i> var. <i>calycina</i>	Miller, Donald A.	1973	Morrison
Apiaceae	<i>Eryngium yuccifolium</i>	Recker, K.M., K.A. Deutsch, E.M. Anderson	1999	Stearns
Apiaceae	<i>Eryngium yuccifolium</i>	Healy, Luke.	2002	Stearns
Apiaceae	<i>Oxypolis rigidior</i>	Westkaemper, Sister M. Remberta	1926	Stearns
Apiaceae	<i>Sanicula trifoliata</i>	Smith, Welby R.	1991	Olmsted
Apiaceae	<i>Sanicula trifoliata</i>	Lee, Michael D.	1998	Stearns
Apiaceae	<i>Taenidia integerrima</i>	Smith, Welby R.	1985	Ramsey
Apiaceae	<i>Thaspium barbinode</i>	Westkaemper, Sister M. Remberta	1924	Stearns
Araliaceae	<i>Panax quinquefolius</i>		1908	Stearns
Araliaceae	<i>Panax quinquefolius</i>	Jas Hansen	1909	Stearns
Araliaceae	<i>Panax quinquefolius</i>	Rev. Joe	1913	Stearns
Araliaceae	<i>Panax quinquefolius</i>	Lee, Michael D.	1998	Stearns
Araliaceae	<i>Panax quinquefolius</i>	Lee, Michael D.	1998	Stearns
Asclepiadaceae	<i>Asclepias purpurascens</i>	Weber, Mary.	1974	Wadena
Asteraceae	<i>Artemisia campestris</i>	n/a	1977	n/a
Asteraceae	<i>Artemisia campestris</i>	Siemers, Ross.	1977	Morrison
Asteraceae	<i>Erigeron acris</i> var. <i>kamtschaticus sensu lato</i>	A.W.T	1949	Stearns
Asteraceae	<i>Erigeron pulchellus</i> var. <i>tolsteadii</i>	A.W.T.	1949	Stearns
Asteraceae	<i>Erigeron pulchellus</i> var. <i>tolsteadii</i>	A.W.T.	1949	Stearns
Asteraceae	<i>Erigeron pulchellus</i> var. <i>tolsteadii</i>	Westkaemper, Sister Remberta	1972	Stearns
Asteraceae	<i>Erigeron pulchellus</i> var. <i>tolsteadii</i>	Weber, Mary E.	1974	Cass
Asteraceae	<i>Gaillardia aristata</i>	McNeilus, V.E.	1992	Norman
Asteraceae	<i>Lactuca floridana</i>	Smith, Welby R.	1992	Nicollet
Asteraceae	<i>Shinnersoseris rostrata</i>	Smith, Welby R.	1986	Sherburne
Asteraceae	<i>Solidago mollis</i>	Moschetz, Jeff L.	1970	
Brassicaceae	<i>Arabis laevigata</i>	SR	1922	Ramsey
Brassicaceae	<i>Arabis laevigata</i>	Pettit, Jeffery A.	1967	Wadena
Brassicaceae	<i>Arabis laevigata</i>	Meyer, MaryLynn	1977	Stearns
Callitrichaceae	<i>Callitriche heterophylla</i>	Chandonet	1899	Mahnomen
Caprifoliaceae	<i>Symphoricarpos orbiculatus</i>	Leiner, Rosalie	2007	Stearns
Caryophyllaceae	<i>Minuartia dawsonensis</i>	Lee, Michael D., Erika Rowe	2005	Becker
Caryophyllaceae	<i>Paronychia fastigiata</i> var. <i>fastigiata</i>	Westkaemper, Sister Remberta	1967	Stearns
Caryophyllaceae	<i>Silene nivea</i>	Smith, Welby R.	1990	Fillmore
Caryophyllaceae	<i>Stellaria longipes</i> ssp. <i>longipes</i>	Westkaemper, Sister Remberta	1966	Stearns

Cistaceae	<i>Lechea tenuifolia</i> var. <i>tenuifolia</i>	Barghusen, Jessica	2005	Stearns
Commelinaceae	<i>Commelina erecta</i>	Oswald, Zack	2003	Stearns
Cupressaceae	<i>Juniperus horizontalis</i>	Zaczkowski, Nick	1967	
Cupressaceae	<i>Juniperus horizontalis</i>	Axtmann, Marie	1995	Stearns
Cyperaceae	<i>Carex conoidea</i>	Lee, Michael D.	1998	Stearns
Cyperaceae	<i>Carex conoidea</i>	Lee, Michael D.	1998	Stearns
Cyperaceae	<i>Carex conoidea</i>	Lee, Michael D.	1998	Stearns
Cyperaceae	<i>Carex festucacea</i>	Westkaemper, Sister Rembera	1968	Stearns
Cyperaceae	<i>Carex festucacea</i>	Westkaemper, Sister Rembera	1970	Stearns
Cyperaceae	<i>Carex festucacea</i>	Foede, Mack	1993	Stearns
Cyperaceae	<i>Carex formosa</i>	Westkaemper, Sister Rembera	1970	Stearns
Cyperaceae	<i>Carex grayi</i>	Pyatt, Jill C.	2008	Hennepin
Cyperaceae	<i>Carex lurida</i>	Westkaemper, Sister Rembera	1965	Stearns
Cyperaceae	<i>Carex media</i>	Lee, Michael D.	1997	Stearns
Cyperaceae	<i>Carex squarrosa</i>	Chandonnet, Z.	1908	
Cyperaceae	<i>Carex squarrosa</i>	Galkins, W. W.	1908	
Cyperaceae	<i>Carex squarrosa</i>	Lee, Michael D.	1997	Stearns
Cyperaceae	<i>Carex sterilis</i>	Lee, Michael D.	1998	Stearns
Cyperaceae	<i>Carex sterilis</i>	Lee, Michael D.	1998	Stearns
Cyperaceae	<i>Carex sterilis</i>	Lee, Michael D.	1998	Stearns
Cyperaceae	<i>Carex xerantica</i>	Westkaemper, Sister Rembera	1965	Stearns
Cyperaceae	<i>Cladium mariscoides</i>	Smith, Welby R.	2011	Beltrami
Cyperaceae	<i>Fimbristylis autumnalis</i>			
Cyperaceae	<i>Rhynchospora capillacea</i>	Smith, Welby R.	1990	Roseau
Cyperaceae	<i>Rhynchospora capillacea</i>	Lee, Michael D.	1998	Stearns
Droseraceae	<i>Drosera anglica</i>	Smith, Welby R.	1984	Koochiching
Dryopteridaceae	<i>Gymnocarpium robertianum</i>	Lee, Michael D.	2005	Becker
Elaeagnaceae	<i>Shepherdia canadensis</i>		1913	
Fabaceae	<i>Astragalus neglectus</i>			
Fabaceae	<i>Desmodium nudiflorum</i>	Ramberta, Sr.	1962	Stearns
Fabaceae	<i>Desmodium nudiflorum</i>	Barb, Ann, Loriene, Jim	1972	Stearns
Fabaceae	<i>Gleditsia triacanthos</i>	Westkaemper, Sister Rembera	1967	Stearns
Fabaceae	<i>Gleditsia triacanthos</i>	Westkaemper, Sister Rembera	1967	Stearns
Fabaceae	<i>Lepedeza leptostachya</i>	Smith, Welby R.	1986	Stearns
Fabaceae	<i>Lepedeza leptostachya</i>	Smith, Welby R.	1986	Stearns
Fabaceae	<i>Quercus bicolor</i>	Westkaemper, Sister Rembera	1970	Stearns
Fagaceae	<i>Quercus bicolor</i>	Philp, Dan	2005	Stearns
Gentianaceae	<i>Gentianopsis procera</i>	Lee, Michael D.	1998	Stearns
Gentianaceae	<i>Gentianopsis procera</i>	Lee, Michael D.	2004	Todd
Haloragaceae	<i>Myriophyllum tenellum</i>	Lee, Michael D.	2005	Becker
Hamamelidaceae	<i>Hamamelis virginiana</i>	Cofell, Laoraineie	1974	Stearns
Juncaceae	<i>Juncus articulatus</i>	Westkaemper, Sister Rembera	1973	Stearns
Lamiaceae	<i>Agastache nepetoides</i>	Barnd, Joshua	1998	Scott
Lamiaceae	<i>Hedeoma pulegioides</i>	Weitzel, Thomas	1992	Stearns
Lamiaceae	<i>Hedeoma pulegioides</i>	Wentworth, Todd	1992	Stearns

Lamiaceae	<i>Lycopus virginicus</i>	Hansen, J.	1908	
Lentibulariaceae	<i>Utricularia gibba</i>	Myhre, Karen M.	1992	Cass
Lentibulariaceae	<i>Utricularia gibba</i>	Myhre, Karen M.	1992	Cass
Lentibulariaceae	<i>Utricularia gibba</i>	Myhre, Karen M.	1997	Stearns
Lentibulariaceae	<i>Utricularia gibba</i>	Lee, Michael D.	1998	Morrison
Lentibulariaceae	<i>Utricularia gibba</i>	Lee, Michael D.	1998	Stearns
Lentibulariaceae	<i>Utricularia gibba</i>	Lee, Michael D.	2004	Todd
Liliaceae	<i>Erythronium propullans</i>	Smith, Welby R.	1989	Rice
Liliaceae	<i>Erythronium propullans</i>	Smith, Welby R.	1989	Rice
Liliaceae	<i>Trillium nivale</i>	Tempel, Jerry	1971	
Liliaceae	<i>Trillium nivale</i>	Franta, Peter	1981	Faribault
Liliaceae	<i>Trillium nivale</i>	Snee, Frank	1983	Scott
Limnanthaceae	<i>Floerkea proserpinacoides</i>	Lee, Michael D.	1999	Winona
Ophioglossaceae	<i>Botrychium lunaria</i>	Hansen, J.	1909	Stearns
Ophioglossaceae	<i>Botrychium lunaria</i>	Saupe, S.G.	2001	Clearwater
Ophioglossaceae	<i>Botrychium matricariifolium</i>	Sr. Jeamette. OSB.	1919	Stearns
Ophioglossaceae	<i>Botrychium matricariifolium</i>	Lee, Michael D.	1997	Stearns
Orchidaceae	<i>Cypripedium arietinum</i>		1902	Stearns
Orchidaceae	<i>Cypripedium arietinum</i>		1903	Stearns
Orchidaceae	<i>Cypripedium candidum</i>		1903	
Orchidaceae	<i>Cypripedium candidum</i>	Chandonnet, Z.L.	1915	Mahnomen
Orchidaceae	<i>Cypripedium candidum</i>	Westkaemper, Sister Remberta	1965	Stearns
Orchidaceae	<i>Cypripedium candidum</i>	Westkaemper, Sister Remberta	1965	Stearns
Orchidaceae	<i>Cypripedium candidum</i>	Fr. Gunther & Mr. Miller	1969	Stearns
Orchidaceae	<i>Cypripedium candidum</i>	Siemers, Ross	1977	Stearns
Orchidaceae	<i>Cypripedium candidum</i>	Lee, Michael D.	1997	Stearns
Orchidaceae	<i>Platanthera flava</i> var. <i>herbiola</i>	Lee, Michael D.	1997	Stearns
Orchidaceae	<i>Platanthera flava</i> var. <i>herbiola</i>	Lee, Michael D.	1997	Stearns
Plantaginaceae	<i>Plantago elongata</i>			
Poaceae	<i>Agrostis hyemalis</i>	Zaczkowski, Mack, Foede	1993	Stearns
Poaceae	<i>Agrostis hyemalis</i>	Zaczkowski, Mack, Foede	1993	Stearns
Poaceae	<i>Agrostis hyemalis</i>	Zaczkowski, Mack, Foede	1993	Stearns
Poaceae	<i>Agrostis hyemalis</i>	Lee, Michael D.	1997	Stearns
Poaceae	<i>Agrostis scabra</i>	Axtmann, Marie	1994	Redwood
Poaceae	<i>Diarrhena obovata</i>	Lee, Michael D.	1999	Fillmore
Poaceae	<i>Echinochloa walteri</i>	Smith, Welby R.	1988	Washington
Poaceae	<i>Hordeum pusillum</i>	Westkaemper, Sister Remberta	1965	Stearns
Poaceae	<i>Triplasis purpurea</i> var. <i>purpurea</i>	Smith, Welby R.	1987	Washington
Polemoniaceae	<i>Phlox maculata</i>	Toussaint, Joe. Chris Rose	1973	Stearns
Polygonaceae	<i>Polygonum arifolium</i>	Coyne, Mable	1973	Stearns
Portulacaceae	<i>Claytonia caroliniana</i>	Bach, Melissa J.	2008	Lake
Potamogetonaceae	<i>Potamogeton vaseyi</i>	Lee, Michael D.	2005	Todd
Primulaceae	<i>Androsace septentrionalis</i>	Broker, John	1977	Stearns

Primulaceae	<i>Androsace septentrionalis</i>	Twohy, James	1981	Stearns
Primulaceae	<i>Androsace septentrionalis</i>	Hynes, P.	1985	Stearns
Primulaceae	<i>Androsace septentrionalis</i>	Olsen, Mike	1985	Stearns
Primulaceae	<i>Lysimachia quadrifolia</i>	Westkaemper, Sister Remberta	1967	Stearns
Primulaceae	<i>Lysimachia quadrifolia</i>	Daninger, Scott	1981	Carlton
Ranunculaceae	<i>Hydrastis canadensis</i>	Smith, Welby R.	1990	Winona
Ranunculaceae	<i>Hydrastis canadensis</i>	Smith, Welby R.	1990	Winona
Ranunculaceae	<i>Ranunculus gmelinii</i>	Lee, Michael D.	1997	Stearns
Ranunculaceae	<i>Thalictrum revolutum</i>	Westkaemper, Sister Remberta	1962	Stearns
Ranunculaceae	<i>Thalictrum revolutum</i>	Fr. Gerard, Fr. Cletus, Fr. Gunther	1969	Stearns
Rosaceae	<i>Crataegus douglasii</i>	Lee, Michael D.	1999	Lake
Rosaceae	<i>Crataegus douglasii</i>	Lee, Michael D.	1999	Lake
Rosaceae	<i>Rubus semisetosus</i>	Lee, Michael D.	1998	Sherburne
Rosaceae	<i>Rubus semisetosus</i>	Lee, Michael D.	1998	Sherburne
Rosaceae	<i>Rubus semisetosus</i>	Lee, Michael D.	2003	Todd
Rosaceae	<i>Rubus semisetosus</i>	Lee, Michael D.	2003	Todd
Scrophulariaceae	<i>Castilleja septentrionalis</i>	Coyne, Mable	1968	
Scrophulariaceae	<i>Linaria canadensis</i>	Lee, Michael D.	1998	
Scrophulariaceae	<i>Penstemon digitalis</i>	Westkaemper, Sister Remberta	1970	Stearns
Scrophulariaceae	<i>Penstemon digitalis</i>	Smith, Welby R.	1990	Pine
Sparganiaceae	<i>Sparganium glomeratum</i>	Lee, Michael D.	2004	Todd
Sparganiaceae	<i>Sparganium glomeratum</i>	Lee, Michael D.	2005	Becker
Vitaceae	<i>Vitis riparia</i>	Westkaemper, Sister Remberta	1964	Stearns
Vitaceae	<i>Vitis riparia</i>	Westkaemper, Sister Remberta	1964	
Vitaceae	<i>Vitis riparia</i>	Zaczkowski, Dr. N.	1969	Stearns
Vitaceae	<i>Vitis riparia</i>	Siemers, Ross	1977	Morrison
Vitaceae	<i>Vitis riparia</i>	Ackerman, Dominic D.	1993	Stearns
Vitaceae	<i>Vitis riparia</i>	Mack, Foede	1993	
Vitaceae	<i>Vitis riparia</i>	Zaczkowski, Dr. N.	1994	Stearns
Vitaceae	<i>Vitis riparia</i>	Zaczkowski, Dr. N.	1994	Stearns
Vitaceae	<i>Vitis riparia</i>	Radabaugh D.K. & Price, M.M.	1995	Douglas
Vitaceae	<i>Vitis riparia</i>	Clark, Matthew	2001	Stearns
Vitaceae	<i>Vitis riparia</i>	Ploeger, Jon	2001	Stearns
Vitaceae	<i>Vitis riparia</i>	Philp, Dan	2005	Stearns
Vitaceae	<i>Vitis riparia</i>	Haas, M.W.	2008	Stearns
Vitaceae	<i>Vitis riparia</i>	Haqemeier, Brad. And Kelsey McKay	2008	Stearns
Vitaceae	<i>Vitis riparia</i>	Carr, Joseph T.	2009	Stearns