

## Asters of Yesteryear (Updated April 2018)

### About this Update:

The document was originally posted in a shorter version, to accompany the brief article "Where Have all our *Asters* Gone?" in the Fall 2017 issue of *Sego Lily*. In that version it consisted simply of photos of a number of plants that had at some time been included in *Aster* but that no longer are, as per *Flora of North America*.

In this version I have added names to the photos to indicate how they have changed since their original publication:

Date and original name as published (Basionym)  
IF name used in *Intermountain Flora* (1994)  
UF name used in *A Utah Flora* (1983-2016)  
FNA name used in *Flora of North America* (2006)

I have also added tables to show the renaming of two groups of species in the Astereae tribe as organized in *Intermountain Flora*. Color coding shows how splitting of the major genera largely follows fault lines already in place

No color Renamed  
Bright Green Conserved  
Various Natural groupings  
\$ Plant not in Utah

It is noteworthy how few species retain the names used in 1994, but also how the renaming often follows patterns already observed.

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Here are larger photos (16 inches wide or tall at normal screen resolution of 72 dpi) of the plants shown in *Sego Lily* of Fall 2017, arranged by date of original publication. None of them (except *Aster amellus* on this page) are now regarded as true asters – but they all were at one stage in their history. Now all are in different genera, most of them using names that were published over 100 years ago. All but one occur in Utah and many of them are quite common and familiar plants in our area. However, not all the photos have enough detail to permit direct recognition of key characters.



Fig. 1. *Aster amellus* 'King George' cultivar, used with permission.

<http://www.oldcourtnurseries.co.uk>

How many can you place in the correct genus, choosing from the following (there is one of each):

*Almutaster*

*Dieteria*

*Erigeron*

*Eucephalus*

*Eurybia*

*Herrickia*

*Machaeranthera*

*Oreostemma*

*Symphyotrichum*

*Xylorhiza*

This is not an easy proposition, but you may enjoy a bit of sleuthing. Take the UFO Challenge!

Plants are now named: **yyyy** Original; **IF** (1994); **FNA** (2006); **UF** (2016)

An internet resource that could be of help and that is quite user friendly :

Intermountain Biota

<http://intermountainbiota.org/portal/sitemap.php>

The link to "Image Library" allows you to search by genus and see what photos are available.



**1804** *Aster canescens*; IF, UF *Machaeranthera canescens*; FNA *Dieteria canescens*



Salt Lake County, Albion Basin



**1814** *Aster peregrinus*; IF, UF *Erigeron peregrinus*; FNA *Erigeron peregrinus*



Salt Lake County, Brighton



**1818** *Aster pauciflorus*; IF, UF *Aster pauciflorus*; FNA *Almutaster pauciflorus*



Beaver County, Thermo Hot Springs



**1820** *Aster tanacetifolius*; IF, UF , FNA *Machaeranthera tanacetifolia*



Emery County, Highway 24



**1834** *Aster ascendens*; IF, UF *Aster ascendens*; FNA *Symphotrichum ascendens*



Millard County, Snake Valley



**1841a** *Aster integrifolius*; IF, UF *Aster integrifolius*; FNA *Eurybia integrifolia*



Near Teton NP, Wyoming



**1841b** *Eucephalus glaucus*; IF, UF *Aster glaucodes*; FNA *Herrickia glauca*



Salt Lake County, Albion Basin



**1841c** *Aplopappus alpigenus*; IF *Aster alpigenus*; FNA *Oreostemma alpigenus*



Near Teton NP, Wyoming



**1841d** *Eucephalus elegans*; IF, UF *Aster perelegans*; FNA *Eucephalus elegans*



Lamoille Canyon, Ruby Mountains, Nevada



1891 *Aster venustus*; IF *Machaeranthera venusta*; FNA, UF *Xylorhiza venusta*



Emery County, San Rafael Swell



## Renaming of "Aster Group" Part 1

<u>Scientific Name IF</u>	<u>No.</u>	<u>Page</u>	<u>Scientific Name UF</u>	<u>Scientific Name FNA</u>	<u>Original (Basionym)</u>	<u>Published</u>
Machaeranthera grindelioides	01	265	Machaeranthera grindelioides	Xanthisma grindelioides	Eriocarpum grindelioides	1841 Nutt.
Machaeranthera shastensis	02	265	\$	Dieteria canescens var. shastensis	Machaeranthera shastensis	1865 Gray
Machaeranthera canescens	03	265	Machaeranthera canescens	Dieteria canescens	Aster canescens	1804 Nutt.
Machaeranthera linearis	04	268	Machaeranthera canescens var. aristata	Dieteria canescens var. glabra	Machaeranthera canescens var. glabra	1852 Gray
Machaeranthera rigida	05	268	Machaeranthera canescens var. aristata	Dieteria canescens var. aristata	Aster canescens var. aristatus	1896 Eastwood
Machaeranthera commixta	06	268	Machaeranthera commixta	Dieteria bigelovii var. commixta	Machaeranthera commixta	1899 Greene
Machaeranthera tanacetifolia	09	268	Machaeranthera tanacetifolia	Machaeranthera tanacetifolia	Aster tanacetifolius	1820 Humboldt
Machaeranthera mucronata	07	270	\$	Dieteria bigelovii var. mucronata	Machaeranthera mucronata	1899 Greene
Machaeranthera asteroides	08	270	Machaeranthera asteroides	Dieteria asteroides	Dieteria asteroides	1848 Torrey
Machaeranthera parviflora	10	272	Machaeranthera parviflora	Arida parviflora	Machaeranthera parviflora	1852 Gray
Machaeranthera kingii	11	272	Aster kingii	Herrickia kingii	Aster kingii	1871 Eaton
Machaeranthera venusta	12	272	Xylorhiza venusta	Xylorhiza venusta	Aster venustus	1891 Jones
Machaeranthera glabriuscula	13	274	Xylorhiza glabriuscula	Xylorhiza glabriuscula	Xylorhiza glabriuscula	1841 Nuttall
Machaeranthera linearifolia	14	274	Xylorhiza glabriuscula var. linearifolia	Xylorhiza linearifolia	Xylorhiza linearifolia	1977 T.J. Watson
Machaeranthera confertifolia	15	274	Xylorhiza confertifolia	Xylorhiza confertifolia	Machaeranthera confertifolia	1963 Cronquist
Machaeranthera cronquistii	16	275	Xylorhiza cronquistii	Xylorhiza cronquistii	Xylorhiza cronquistii	1981 Welsh
Machaeranthera tortifolia	17	275	Xylorhiza tortifolia	Xylorhiza tortifolia	Aplopappus tortifolius	1845 Torrey & Gray
Lessingia lemmonii	01	276	\$	Lessingia glandulifera var. glandulifera	Lessingia lemmonii	1886 Gray
Townsendia condensata	01	279	Townsendia condensata	Townsendia condensata	Townsendia condensata	1874 Parry
Townsendia parryi	02	279	\$	Townsendia parryi	Townsendia parryi	1874 Eaton
Townsendia florifer	03	279	Townsendia florifer	Townsendia florifer	Erigeron florifer	1834 Hooker
Townsendia scapigera	04	280	Townsendia scapigera	Townsendia scapigera	Townsendia scapigera	1871 Eaton
Townsendia strigosa	05	280	Townsendia strigosa	Townsendia strigosa	Townsendia strigosa	1841 Nuttall
Townsendia annua	06	280	Townsendia annua	Townsendia annua	Townsendia annua	1957 Beaman
Townsendia incana	07	280	Townsendia incana	Townsendia incana	Townsendia incana	1841 Nuttall
Townsendia montana	08	282	Townsendia montana	Townsendia montana	Townsendia montana	1893 Jones
Townsendia minima	09	282	Townsendia montana var. minima	Townsendia minima	Townsendia minima	1936 Eastwood
Townsendia leptotes	10	282	Townsendia leptotes	Townsendia leptotes	Townsendia sericea var. leptotes	1880 Gray
Townsendia exscapa	11	284	Townsendia exscapa	Townsendia exscapa	Aster exscapus	1823 Richardson
Townsendia hookeri	12	284	Townsendia hookeri	Townsendia hookeri	Townsendia sericea	1834 Hooker
Townsendia mensana	13	284	Townsendia mensana	Townsendia mensana	Townsendia mensana	1910 Jones
Townsendia jonesii	14	284	Townsendia jonesii	Townsendia jonesii	Townsendia mensana var. jonesii	1957 Beaman
Townsendia aprica	15	286	Townsendia aprica	Townsendia aprica	Townsendia aprica	1968 Welsh
Monoptilon bellidiforme	01	286	Monoptilon bellidiforme	Monoptilon bellidiforme	Monoptilon bellidiformis	1845 Torrey
Bellis perennis	01	288	Bellis perennis	Bellis perennis	Bellis perennis	1753 Linnaeus
Chloracantha spinosa	01	288	Aster spinosus	Chloracantha spinosa	Aster spinosus	1836 Bentham



## Renaming of "Aster Group" Part 2

<u>Scientific Name IF</u>	<u>No.</u>	<u>Page</u>	<u>Scientific Name UF</u>	<u>Scientific Name FNA</u>	<u>Original (Basionym)</u>	<u>Published</u>
Aster laevis	01	291	Aster laevis	Symphyotrichum laeve	Aster laevis	1753 Linnaeus
Aster hesperius	02	291	Aster hesperius	Symphyotrichum lanceolatum var. hesperiu	Aster hesperius	1884 Gray
Aster welshii	03	291	Aster welshii	Symphyotrichum welshii	Aster welshii	1994 Cronquist
Aster eatonii	04	292	Aster eatonii	Symphyotrichum eatonii	Aster bracteolatus	1841 Nuttall
Aster foliaceus	05	292	Aster foliaceus	Symphyotrichum foliaceum	Aster foliaceus	1836 Lindley
Aster spathulatus	06	292	Aster spathulatus	Symphyotrichum spathulatum	Aster spathulatus	1834 Lindley
Aster ascendens	07	294	Aster ascendens	Symphyotrichum ascendens	Aster ascendens	1834 Lindley
Aster falcatus	08	296	Aster falcatus	Symphyotrichum falcatum	Aster falcatus	1834 Lindley
Aster pansus	09	298	Aster pansus	Symphyotrichum ericoides var. pansum	Aster multiflorus var. pansus	1928 Blake
Aster campestris	10	298	Aster campestris	Symphyotrichum campestre	Aster campestris	1841 Nuttall
Aster pauciflorus	11	298	Aster pauciflorus	Almutaster pauciflorus	Aster pauciflorus	1818 Nuttall
Aster integrifolius	12	298	Aster integrifolius	Eurybia integrifolia	Aster integrifolius	1841 Nuttall
Aster wasatchensis	13	300	Aster wasatchensis	Herrickia wasatchensis	Aster glaucus var. wasatchensis	1895 Jones
Aster glaucodes	14	300	Aster glaucodes	Herrickia glauca	Eucephalus glaucus	1841 Blake
Aster engelmannii	15	300	Aster engelmannii	Eucephalus engelmannii	Aster elegans var. engelmannii	1871 Eaton
Aster perelegans	16	300	Aster perelegans	Eucephalus elegans	Eucephalus elegans	1841 Nuttall
Aster sibiricus	17	302	Aster sibiricus	Eurybia merita	Aster sibiricus	1753 Linnaeus
Aster alpigenus	18	302	\$	Oreostemma alpigenum	Aplopappus alpigenus	1841 Torrey
Aster scopulorum	19	302	Aster scopulorum	Ionactis alpina	Chrysopsis alpina	1834 Nuttall
Aster frondosus	20	304	Aster frondosus	Symphyotrichum frondosum	Tripolium frondosum	1841 Nuttall
Aster brachyactis	21	304	Aster brachyactis	Symphyotrichum ciliatum	Tripolium angustum	1834 Lindley



## Renaming of Haplopappus and Chrysothamnus

<u>SciName IF</u>	<u>No.</u>	<u>Page</u>	<u>SciName UF</u>	<u>SciName FNA</u>	<u>Original (Basionym)</u>	<u>Published</u>
Haplopappus spinulosus	1	199	Haplopappus spinulosus	Xanthisma spinulosum	Amellus spinosus	1814 Pursh
Haplopappus gracilis	2	200	Haplopappus gracilis	Xanthisma gracile	Dieteria gracilis	1848 Nuttall
Haplopappus lyallii	3	200	\$	Tonestus lyallii	Aplopappus lyallii	1864 Kuntze
Haplopappus peirsonii	4	202	\$	Lorandersonia peirsonii	Haplopappus eximius var. peirsonii	1940 Keck
Haplopappus alpinus	5	202	\$	Toiyabea alpina	Haplopappus alpinus	1980 Anderson
Haplopappus graniticus	6	202	\$	Tonestus graniticus	Haplopappus graniticus	1985 Tiehm
Haplopappus lanuginosus	7	202	\$	Stenotus lanuginosus	Aplopappus lanuginosus	1874 Gray
Haplopappus stenophyllus	8	204	\$	Nestotus stenophyllus	Aplopappus stenophyllus	1874 Gray
Haplopappus acaulis	9	204	Haplopappus acaulis	Stenotus acaulis	Chrysopsis acaulis	1834 Nuttall
Haplopappus armerioides	10	204	Haplopappus armerioides	Stenotus armerioides	Stenotus armerioides	1841 Nuttall
Haplopappus carthamoides	11	205	\$	Pyrrocoma carthamoides	Pyrrocoma carthamoides	1833 Hooker
Haplopappus radiatus	12	205	\$	Pyrrocoma radiata	Pyrrocoma radiata	1841 Nuttall
Haplopappus croceus	13	205	Haplopappus croceus	Pyrrocoma crocea	Aplopappus croceus	1864 Gray
Haplopappus insecticruris	14	205	\$	Pyrrocoma insecticruris	Aplopappus insecticruris	1900 Henderson
Haplopappus apargioides	15	206	\$	Pyrrocoma apargioides	Aplopappus apargioides	1868 Gray
Haplopappus clementis	16	206	Haplopappus clementis	Pyrrocoma clementis	Pyrrocoma clementis	1900 Rydberg
Haplopappus uniflorus	17	206	Haplopappus lanceolatus	Pyrrocoma uniflora	Donia uniflorus	1834 Hooker
Haplopappus lanceolatus	18	208	Haplopappus lanceolatus	Pyrrocoma lanceolata	Donia lanceolata	1834 Hooker
Haplopappus hirtus	19	210	Haplopappus hirtus	Pyrrocoma hirta	Asplopappus hirtus	1884 Gray
Haplopappus racemosus	20	210	Haplopappus racemosus	Pyrrocoma racemosa	Homopappus racemosus	1841 Nuttall
Haplopappus rusbyi	21	212	Haplopappus rusbyi	Isocoma rusbyi	Isocoma rusbyi	1906 Greene
Haplopappus leverichii	22	212	Haplopappus leverichii	Isocoma humilis	Isocoma humilis	1991 Nesom
Haplopappus scopulorum	23	214	Haplopappus scopulorum	Chrysothamnus scopulorum	Bigelovia menziesii var. scopulorum	1895 Jones
Haplopappus linearifolius	24	214	Haplopappus linearifolius	Ericameria linearifolia	Aplopappus linearifolius	1836 de Candolle
Haplopappus cooperi	25	214	\$	Ericameria cooperi	Bigelovia cooperi	1873 Gray
Haplopappus laricifolius	26	216	Haplopappus laricifolius	Ericameria laricifolia	Aplopappus laricifolius	1853 Gray
Haplopappus cuneatus	27	216	\$	Ericameria cuneata	Aplopappus cuneatus	1873 Gray
Haplopappus watsonii	28	216	Haplopappus watsonii	Ericameria watsonii	Aplopappus watsonii	1880 Gray
Haplopappus cervinus	29	216	Haplopappus cervinus	Ericameria cervina	Haplopappus cervinus	1873 Watson
Haplopappus nanus	30	218	Haplopappus nanus	Ericameria nana	Ericameria nana	1841 Nuttall
Haplopappus macronema	31	218	Haplopappus macronema	Ericameria discoidea	Macronema discoidea	1841 Nuttall
Haplopappus suffruticosus	32	218	\$	Ericameria suffruticosa	Macronema suffruticoas	1841 Nuttall
Haplopappus bloomeri	33	220	\$	Ericameria bloomeri	Aplopappus bloomeri	1865 Gray
Haplopappus crispus	34	220	Haplopappus crispus	Ericameria crispa	Haplopappus crispus	1983 Anderson
Haplopappus zionis	35	220	Haplopappus zionis	Ericameria zionis	Haplopappus zionis	1983 Anderson
Chrysothamnus parryi	1	36	Chrysothamnus parryi	Ericameria parryi	Linosyris parryi	1863 Gray
Chrysothamnus nauseosus	2	37	Chrysothamnus nauseosus	Ericameria nauseosa	Chrysocoma nauseosa	1814 Pallas
Chrysothamnus paniculatus	3	38	Chrysothamnus paniculatus	Ericameria paniculata	Bigelovia paniculata	1873 Gray
Chrysothamnus teretifolius	4	39	\$	Ericameria teretifolia	Linosyris teretifolia	1857 Durand
Chrysothamnus albidus	5	40	Chrysothamnus albidus	Ericameria albida	Bigelovia albida	1882 Jones
Chrysothamnus greenei	6	41	Chrysothamnus greenei	Chrysothamnus greenei	Bigelovia greenei	1876 Gray
Chrysothamnus humilis	7	42	\$	Chrysothamnus humilis	Chrysothamnus humilis	1896 Greene
Chrysothamnus viscidiflorus	8	43	Chrysothamnus viscidiflorus	Chrysothamnus viscidiflorus	Chrysothamnus viscidiflorus	1834 Hooker
Chrysothamnus linifolius	9	44	Chrysothamnus linifolius	Lorandersonia linifolia	Chrysothamnus linifolius	1896 Greene
Chrysothamnus vaseyi	10	45	Chrysothamnus vaseyi	Chrysothamnus vaseyi	Bigelovia vaseyi	1876 Gray
Chrysothamnus depressus	11	46	Chrysothamnus depressus	Chrysothamnus depressus	Chrysothamnus depressus	1848 Nuttall
Chrysothamnus pulchellus	12	47	Chrysothamnus pulchellus	Lorandersonia pulchella	Linosyris pulchella	1852 Gray
Chrysothamnus gramineus	13	48	\$	Cuniculotinus gramineus	Chrysothamnus gramineus	1916 Hall
Chrysothamnus eremobius	14	49	\$	Chrysothamnus eremobius	Chrysothamnus eremobius	1983 Anderson