QK 142
B171w
1902

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WEST AMERICAN PLANTS

Distributed by C. F. Baker

FALL OF 1902

The following report of progress is sent out with the fall issuance of West Coast plants and the first seasonal issuance of Nevada plants.

The work under the new plan has now been in active operation for nine months. During that time two thousand numbers, represented by about forty-six thousand specimens, have been brought together fresh from the field. The larger part of these were gathered by my own hand. The bulk of the material has been determined, and has been distributed already, or is being sent out now. Those already distributed from the West Coast gatherings are indicated in the list by a star. Printed labels, usually with full field-notes, are sent out with the West Coast series. The notes on the Nevada plants will appear in published reports.

From time to time there will be sent out free to regular subscribers material supplementary to all cases of numbers needing additional material.

Several hundred numbers yet remain undetermined in the West Coast, and the same in the Nevada series, and these include some of our most interesting things. They will be issued with the corresponding sets of next year. I suppose the collector is entirely competent to attach names to these by the "approximation-probability" method, from the manuals after the usual manner, in order to rush the material out. This would, however, defeat the whole purpose of these issuances, which it is hoped will have little in common with the usual issuance of this character.

This work is in continuation of eleven years of unremitting labor on the flora of Western America, having in view more especially additions to our knowledge of known species rather than the description of new ones. It is in no sense to be classed among the various local and sporadic distributions of plants so common in this country. The present plans were matured in the confident belief that the time was ripe for a comprehensive treatment of the flora of the Pacific Slope, in which each group for the whole region might receive the attention of an authoritative working specialist, and this conclusion seems entirely justified by the support the work is receiving. The past nine months has been more especially a period of organization, and cannot be considered any just index to the more perfect condition into which the work is rapidly coming. Its continuity and regularity will be equal to that of the N. A. F. (Fung. Columb.), Lich. Bor. Am., Fl. Suec. Exsicc., or any other standard regional or group issuance.

The subdivision into special groups for study will be continued as rapidly as practicable. Above twenty-five specialists have already signified a desire to coöperate. Most of the resident working botanists along the Coast have recognized the absolute indispensability of the results to all interested in this flora, with the consequence that nine are already engaged in active collecting for the distribution, and others will soon be doing so. Every region between Alaska and Lower California will be represented, and by resident botanists whose contributions will be of special value because of their long and intimate acquaintance with the plants of their own regions. At this time we may promise special contributions in Trifolium, Lupinus, Lotus, Ribes, Nemophila, Castilleia, Gilia, Linanthus, Arctostaphylos, Carex, Salix, the fleshy fungi, mosses, and other groups of special interest.

The entire edition of spring sets in the West Coast series was rapidly exhausted. Duplicates of some of the numbers of that issuance still remain on hand, and these we should be glad to furnish to any desiring them.

Correspondence relative to the distribution, or to the plants themselves, is solicited, and will receive cheerful attention.

C. F. BAKER,
Stanford University P. O., Cal.

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WEST COAST SERIES I AND II.

FUNGI.

Considerable collections made in the past few months will not appear until the spring of 1903.

*1567 Aecidium Euphorbiæ Gmel. S. Cal.
455 Aecidium roestelioides El.&Ev. M.W.Cal.
*123 Agaricus Californicus Pk. M. W. Cal.
130 Agaricus campestre L. var. M. W. Cal.
729 Arcyrea cinerea (Bull.) Pers. M.W.Cal.
*191 Armillaria mellea Vahl. M. W. Cal.
*161 Bolbitius radians Morg. M. W. Cal.
143 Boletus chrysenteron Fr. M. W. Cal.
*131 **Boletus flaviporus** Earle n. sp. M. W. Cal.
*91 Boletus granulatus L. M. W. Cal.
*132 **Boletus tomentopes** Earle n. sp. M. W. Cal.
162 Cantharellus muscigenus (Bull.) Fr. M. W. Cal.
*3 Cenangium Abietis (Pers.) Rehm. M.W. Cal.
*211 Chaetomium comatum (Tode) Fr. M.W. Cal.
*78 Chaetomium elatum Kze. M. W. Cal.
11 Chaetomium pannosum Wallr. M. W. Cal.
*31 Cladosporium punctulatum Sacc. & Ell. M. W. Cal.
*69 Collybia albopilata Pk. M. W. Cal.
*153 **Collybia fimicola** Earle n. sp. M.W.Cal.
151 Coprinus comatus Fr. M. W. Cal.
124 **Cortinarius nudipes** Earle n. sp. M.W. Cal.
*129 **Cortinarius radians** Earle n. sp. M. W. Cal.
141 Cortinarius speciosus Earle n. sp. M.W. Cal.
*732 Craterium leucocephalum (Pers.) Dib. M. W. Cal.
*205 Cyathia lentifera (L.). M. W. Cal.
*375 Darluca filum (Biv.) Cast. M. W. Cal.
*726 Diachea leucopoda (Bull.). M. W. Cal.
724 Diatrype asterostoma B. & C. M. W. Cal.
*182 **Diatrype Baccharidis** Earle n. sp. M. W. Cal.
*452 Diatrype disciformis (Hoffm.) Fr. M.W. Cal.
725 Diatrype prominens Cke. & Hark. M.W. Cal.
*2 Diatrypella quercina (Pers.) Nit. M.W. Cal.
728 Didymium melanospermum (Pers.). M. W. Cal.
731 Didymium minus Lister. M. W. Cal.
*36 Diplodia maculata Cke.& Hark. M.W.Cal.
*99 Diplodia Meliæ Tass. M. W. Cal.
*71 Dothidea Yuccæ (E. & E.) Earle. M. W. Cal.
*722 Endothia gyrosa (Schw.) Fckl. M.W.Cal.
378 **Entoloma plumbeum** Earle n. sp. M. W. Cal.
*225 Entyloma Escholtziæ Hark. M. W. Cal.
*167 **Flammula Californica** Earle n. sp. M. W. Cal.
*127 Galera tenera Schaeff. M. W. Cal.
*24 Gibberella Euonymi (Fckl.) Sacc. M.W. Cal.
*84 Gloeosporium coryli (Desm.) Sacc. M. W. Cal.
*76 **Gloniella Penstemonis** Earle n. sp. M. W. Cal.
*155 Gomphidius Oregonensis Pk. M.W.Cal.
147 **Hebeloma Bakeri** Earle n. sp. M.W.Cal.
184 **Hebeloma sericipes** Earle n. sp. M. W. Cal.
*256 Helvella lacunosa Afz. M. W. Cal.
*81 **Hypodermopsis Sequoiæ** Earle gen. et. sp. nov. M. W. Cal.
*210 Hypoxylon occidentale E. & E. M. W. Cal.
*216 Hysterographium prominens (Phil. & Hark.) on Garrya. M. W. Cal.
*222 Hysterographium prominens (Phil. & Hark.) on Arctostaphylos. M.W.Cal.
144 **Inocybe brunescens** Earle n. sp. M.W. Cal.

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140 Inocybe subochracea Pk. M. W. Cal.
*135 Lactarius insulsus Fr. M. W. Cal.
*133 Lepiota naucorioides Pk. M. W. Cal.
382 **Locellina Californica** Earle n. sp. M.W. Cal.
*21 Macrophoma Molleriana (Thum.) B. & C. M. W. Cal.
*178 Massariovalsa sudans (B. & C.) Sacc. M. W. Cal.
*435 Melampsora Tremulæ Tul. M. W. Cal.
*30 Metasphaeria papulosa viridarii Sacc. M. W. Cal.
*25 **Metasphaeria Washingtoniæ** Earle n. sp. M. W. Cal.
*17 **Metasphaeria Yuccæ** Earle n. sp. M.W. Cal.
*190 Microsphaera alni (Wallr.) Wint. M.W. Cal.
*1540 Microsphaera diffusa C. & P. M.W. Cal.
207 **Mollisia papillata** Earle n. sp. M. W. Cal.
*185 Mycena pura Pk. M. W. Cal.
*657 Mycosphaerella dendromeconis (Cke. & Hark.) Earle. M. W. Cal.
*383 Naucoria platysperma Pk. M. W. Cal.
380 **Naucoria pulchra** Earle n. sp. M.W.Cal.
*95 Nectria cinnabarina (Tode.) M. W. Cal.
*26 Nectria cinnabarina (Tode.) var. M.W. Cal.
*98 Nectria coccinea Pers. var. on Melia. M. W. Cal.
*68 Ophionectria scolecospora Bref. M. W. Cal.
*656 **Orbilia** n. sp. M. W. Cal.
139 Panaeolus intermedius Pk. M. W. Cal.
*163 Panaeolus retirugis Fr. M. W. Cal.
*179 Patellaria atrata (Hedw.) Fr. M.W.Cal.
*66 Patellea Suecica (Starb.) Rehm. M. W. Cal.
12 Peniophora cinerea Piceæ Karst. M. W. Cal.
*187 Peziza vesiculata Bull. M. W. Cal.
*212 **Phaeosphaerella scirpicola** Earle n. sp. M. W. Cal.
*122 **Pholiota ventricosa** Earle n. sp. M. W. Cal.
*100 Phoma abdita Sacc. M. W. Cal.
*183 Phoma complanata (Tode) Desm. M.W. Cal.
*198 Phyllosticta Heteromeles Cke. & Hark. M. W. Cal.
*730 Physarum nefroideum Rost. M. W. Cal.
*727 Physarum nefroideum Rost. form. M. W. Cal.
215 Pleospora herbarum (Pers.) Rab. M. W. Cal.
*224 **Pocosphaeria dendromeconis** Earle n. sp. M. W. Cal.
*227 Polyporus versicolor Fr. M. W. Cal.
*90 **Psathyrella fragilis** Earle n. sp. M.W. Cal.
*152 **Psilocybe Californica** Earle n. sp. M. W. Cal.
*1569 Puccinia Absinthii D. C. M. W. Cal.
*223 **Puccinia Adenostegiæ** Arthur n. sp. M. W. Cal.
*1568 Puccinia Cressæ D. C. S. Cal.
*34 Puccinia evadens Hark. M. W. Cal.
1795 Puccinia Hemizoniæ Tracy & Earle. M. W. Cal.
*230 Puccinia malvacearum Mont. M.W.Cal.
*286 Puccinia melanconoides Ell. & Hark. M. W. Cal.
614 Puccinia Pimpinellæ (Straus.) Lk. M.W. Cal.
*1571 Puccinia Polygoni-amphibii Pers. M.W. Cal.
*1513 Puccinia Xanthi Schw. M. W. Cal.
*137 **Russula cremoricolor** Earle n. sp. M.W. Cal.
*156 **Russula paxilloides** Earle n. sp. M.W. Cal.
*675 Septoria Megarrhizæ Ell. & Ev. M. W. Cal.
*674 Septoria Oenotheræ West. M. W. Cal.
*5 **Sphaeropsis stictioides** Earle n. sp. M. W. Cal.
*208 Stereum hirsutum (Willd.) Fr. M.W.Cal.
*83 Stictis radiata Pers. M. W. Cal.
*377 Stropharia stercoraria Fr. M. W. Cal.
*1 **Trematosphaeria cactorum** Earle n. sp. M. W. Cal.
*655 **Tryblidium Garryæ** Earle n. sp. M.W. Cal.
*157 **Tubaria Eucalypti** Earle n. sp. M. W. Cal.
170 Tubaria furfuracea Pers. M. W. Cal.
720 Tubercularia vulgaris Tode. M. W. Cal.
*188 Uncinula Salicis (D. C.) Wint. M.W.Cal.
*1539 Uredo sphacelicola Diet. & Holw. M.W. Cal.
*1566 Uromyces Eriogoni Ell. & Hark. S. Cal.
*1574 Uromyces Limonii (D. C.) Lev. M. W. Cal.
*1573 Uromyces Lupini Sacc. M. W. Cal.
*863 Uromyces Trifolii (Hedw.) Lev. M. W. Cal.
*673 Uromyces Zygadeni Pk. M. W. Cal.
*1565 Ustilago bromivora F. de W. S. Cal.
*79 Valsa Eucalypti Cke. & Hark. M.W.Cal.
*105 **Xylaria Californica** Earle n. sp. M.W. Cal.

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LICHENS.

1790 Acolium tigillare De Not. M. W. Cal.
*436 Acolium sp. M. W. Cal.
734 Cladonia cornucopiodes (L.) Fr. Brit. Col.
*117 Cladonia fimbriata Fr. M. W. Cal.
*115 Cladonia furcata Hoffm. subsp. racemosa Nyl. M. W. Cal.
733 Cladonia rangiferina (L.) Hoffm. Brit. Col.
*1555 Collema nigrescens (Huds.) Ach. M.W. Cal.
*394 Lecanora subfusca (L.) Ach. M. W. Cal.
*654 Lecanora subfusca Nyl. forma rugosa Nyl. M. W. Cal.
*626 Lecanora varia saepincola Fr. M. W. Cal.
*628 Lecidea enteroleuca Fr. M. W. Cal.
627 Lecidea enteroleuca achrista Somerf. M. W. Cal.
*326 Leptogium palmatum Mont. M.W. Cal.
*793 Parmelia perlata Ach. subsp. ciliata Nyl. M. W. Cal.
*792 Parmelia physodes (L.) Ach. d. vittata Ach. M. W. Cal.
1579 Parmelia saxatilis (L.) Fr. Brit. Col.
1600 Peltigera canina (L.) Hoffm. v. membranacea (Ach.) Nyl. Brit. Col.
*418 Peltigera polydactyla (Hoffm.) Brit.Col.
*1570 Physcia obscura (Ehrh.) Nyl. M.W.Cal.
*625 Placodium cerinum (Hedw.). M.W.Cal.
*189 Ramalina Menziesii Tuck. M. W. Cal.
560 Ramalina reticulata Kremp. Brit. Col.
1791 Rinodina sophodes confragosa Nyl. M. W. Cal.
*1577 Sphaerophorus globiferus D. C. Brit. Col.
*228 Sticta anthraspis Ach. M. W. Cal.
1576 Theloschistes lychneus (Nyl.). Brit.Col.
*719 Theloschistes lychneus (Nyl.) forma laciniosa Schaer. M. W. Cal.
63*b* Theloschistes polycarpus Ehrh. M. W. Cal.
63*a* Theloschistes ramulosus Tuck. M.W.Cal.
*226 Urceolaria scruposa Nyl. M. W. Cal.
1599 Usnea longissima Ach. Brit. Col.

BRYOPHYTES.

Many species collected during this period still remain in the hands of specialists for study.

*118 Alsia abietina Sulliv. M. W. Cal.
*293 Antitrichia Californica Sull. M. W. Cal.
*578 Aulacomnium androgynum Schr. Brit. Col.
*33 **Barbula Bakeri** Card. et Ther. n. sp. M. W. Cal. and S. Cal.
*351 **Barbula Bakeri** Card. et Ther. n. sp. form. M. W. Cal.
*352 **Barbula Bakeri** Card. et Ther. n. sp. form. M. W. Cal.
365 **Barbula longipila** Card. et Ther. n. sp. S. Cal.
*360 Barbula muralis L. forma stenocarpa. S. Cal.
*682 Barbula ruralis Hedw. M. W. Cal.
*788 Barbula subfallax C. M. M. W. Cal.
359 Barbula virescens Lesq. S. Cal.
*790 Brachythecium rivulare B. S. Brit. Col.
*569 Brachythecium rivulare B. S. form. Brit. Col.
*582 **Brachythecium subasperrimum** Card. et Ther. n. sp. Brit. Col.
*302 Bryum argenteum L. M. W. Cal.
*361 Bryum argenteum L. S. Cal.
*114 Bryum capillare L. form. M. W. Cal.
*292 Bryum sanguilentum R. C. M. W. Cal.
*38 Bryum torquescens B. S. M. W. Cal.
*397 Bryum torquescens B. S. form. M.W.Cal.
*374 Camptothecium Ameriæ R. C. forma. M. W. Cal.
*87 Camptothecium leucodontoides Kindb. M. W. Cal.
*573 Camptothecium leucodontoides Kindb. Brit. Col.
*288 Camptothecium Nuttallii B. S. form. M. W. Cal.
*349 Camptothecium Nuttallii B. S. form. M. W. Cal.
*771 Cephalozia bicuspidata (L.) Brit. Col.
*331 Cephalozia media Lindb. M. W. Cal.
*595 Ceratodon purpureus Brid. Brit. Col.
*395 Ceratodon purpureus Brid. var. xanthopus Sulliv. M. W. Cal.
*366 Desmatodon nervosus B. S. S. Cal.
*287*a* Dicranella varia Sch. M. W. Cal.
*581 Dicranoweisia cirrhata Lindb. form. Brit. Col.
*551 Dicranoweisia cirrhata Lindb. form. Brit. Col.
*739 Dicranum Bonjeani De Not. Brit. Col.
*587 Dicranum fuscescens Turn. Brit. Col.
*585 Dicranum fuscescens Turn. form. Brit. Col.
*584 Dicranum Howellii R. C. Brit. Col.

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*287*b* Didymodon luridus Hsh. M. W. Cal.
740 Eurhynchium semiasperum C. M. & K. Brit. Col.
*738 Eurhynchium Stokesii Sch. Brit. Col.
*109 Eurhynchium Stokesii B. S. form. M. W. Cal.
*353 Eurhynchium strigatum B. S. var. praecox (Hedw.) Husn. M. W. Cal.
*289 Fabronia pusilla Raddi. M. W. Cal.
*763 Fimbriaria Californica Hampe. M. W. Cal.
*629 Fimbriaria violacea Austin. M. W. Cal.
*373 Fissidens limbatus Sulliv. M. W. Cal.
*368 Fissidens pusillus Wils. var. **brevifolius** Card. et Ther. var. nov. S. Cal.
*453 Fossombronia hispidissima Sz. M.W.Cal.
*684 Frullania Bolanderi Austin. M.W. Cal.
735 Frullania nisquallensis Sull. Brit. Col.
357 Funaria calcarea Wahl. var. occidentalis R. C. S. Cal.
*252 Funaria convoluta Hpe. M. W. Cal.
*555 Funaria hygrometrica Sibth. Brit. Col.
*89 Funaria hygrometrica v. calvescens B. S. M. W. Cal.
*39 Grimmia Californica Sulliv. form. M. W. Cal.
*762 Grimmia Californica Sulliv. form. M. W. Cal.
*285 Grimmia leucophaea Grev. M. W. Cal.
*290 Grimmia pulvinata Sm. M. W. Cal.
*411 Hylocomium loreum B. S. Brit. Col.
*419 Hylocomium splendens B. S. Brit. Col.
*588 Hypnum circinale Hook. Brit. Col.
*576 Hypnum subimponens Lesq. form. Brit. Col.
*413 Hypnum subimponens Lesq. form. Brit. Col.
*554 Hypnum subimponens Lesq. form. Brit. Col.
*575 Hypnum subimponens Lesq. form. Brit. Col.
*112*a* Isothecium Brewerianum (Lesq.). M. W. Cal.
406 Isothecium myosuroides Brid. var. spiculiferum (Moll.) R. C. Brit. Col.
*553 Isothecium myosuroides Brid. form near var. stoloniferum (Hook.) Card. Brit. Col.
*420 Leucolepis acanthoneura Lindb. Brit. Col.
*602 Lepidozia reptans (L.) Dum. Brit. Col.
*572 Madotheca Bolanderi Austin. M.W.Cal.
*736 Madotheca navicularis (L.) form. Brit. Col.
*385 Madotheca navicularis (L.) form. M.W. Cal.
*120 Madotheca navicularis (L.) form. M.W. Cal.
*229 Madotheca navicularis (L.) form. M.W. Cal.
1595 Marchantia polymorpha L. Brit. Col.
*409 Metzgeria pubescens Raddi. Brit. Col.
*414 Mnium glabrescens Kindb. form. Brit. Col.
*596 Mnium glabrescens Kindb. form. Brit. Col.
*737 Mnium glabrescens Kindb. form. Brit. Col.
*412 Mnium insigne Mitt. Brit. Col.
*340 Orthotrichum cylindricarpum Lesq. M. W. Cal.
*354 Orthotrichum Lyellii H. & T. M. W. Cal.
*88 Orthotrichum papillosum Hpe. M. W. Cal.
*768 Plagiothecium denticulatum (L.) Brit. Col.
*767 Plagiothecium undulatum Sch. Brit. Col.
367 **Phascum hyalinotrichum** Card. et Ther. n. sp. S. Cal.
*592 Philonotis alpicola Jur. Brit. Col.
*766 Philonotis fontana Brid. Brit. Col.
*568 **Pleuridium Bakeri** Card. et Ther. n. sp. M. W. Cal.
*295 **Pleuridium Bakeri** Card. et Ther. n. sp. forma. M. W. Cal.
*593 Polytrichum commune L. Brit. Col.
*557 Polytrichum juniperinum Willd. Brit. Col.
*564 Polytrichum juniperinum Willd. near var. alpinum. M. W. Cal.
*556 Polytrichum piliferum Schreb. var. Hoppei Rabenh. Brit. Col.
*119 Pterogonium gracile (L.). M. W. Cal.
*559 Rhacomitrium canescens Brid. var. ericoides B. S. Brit. Col.
*589 Rhacomitrium varium Mitt. Brit. Col.
*1596 Scapania Bolanderi Aust. form. Brit. Col.
*591 Scapania Bolanderi Aust. form. Brit. Col.
*112*b* Scleropodium cespitosum B. S. M. W. Cal.
*108 Scleropodium colpophyllum (Sulliv.) Grout form. M. W. Cal.
*110 Scleropodium colpophyllum (Sulliv.) Grout form. M. W. Cal.
*577 Webera nutans Hedw. Brit. Col.
772 Webera nutans longiseta B. S. Brit. Col.
565 Webera Tozeri Sch. M. W. Cal.
*111 Weisia viridula Brid. M. W. Cal.

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SPERMAPHYTES AND FERNS.

*694 Abronia latifolia Esch. M. W. Cal.
*1741 Abronia latifolia Esch. form. M.W.Cal.
*1742 Abronia umbellata Lam. M. W. Cal.
*688 Acaena trifida Ruiz. & Pav. M. W. Cal.
*1611 Acanthomintha ilicifolia Gray. S. Cal.
*389 Acer macrophyllum Pursh. M. W. Cal.
*544 Achyrachaena mollis Schauer. M. W. Cal.
*1518 Adenostegia pilosa (Gray) Greene form. M. W. Cal.
*1714 Adenostegia pilosa (Gray) Greene form. M. W. Cal.
*1642 Adenostoma fasciculatum H. & A. form. S. Cal.
*314 Agoseris apargioides Greene. M. W. Cal.
*961 Agoseris heterophylla Greene form. M. W. Cal.
*807 Agoseris heterophylla Greene form. M. W. Cal.
*884 Agoseris intermedia Greene. M. W. Cal.
*840 Agoseris plebeia Greene. M. W. Cal.
*1839 Agropyron divergens Nees. Wash.
*1838 Agropyron divergens Nees var. inerme S. & S. Wash.
*809 Allium dichlamydeum Greene. M. W. Cal.
*539 Allium falcifolium H. & A. M. W. Cal.
*664 Allium serratum Wats. M. W. Cal.
*429 Allocarya Chorisiana Greene. M.W.Cal.
*401 Allocarya diffusa Greene. M. W. Cal.
*1658 Allocarya Greenei (Gray) Greene form. S. Cal.
*825 Allocarya Greenei (Gray) Greene form. S. Cal.
*492 Alsine media Camer. form. M. W. Cal.
*717 Alsine media Camer. form. M. W. Cal.
*1625 Amblyopappus pusillus H. & A. S. Cal.
*1819 Amelanchier florida Lindl. Wash.
*392 Amsinckia echinata Gray. M. W. Cal.
*485 Amsinckia intermedia F. & M. form. M. W. Cal.
*391 Amsinckia intermedia F. & M. form. M. W. Cal.
1684 Anaphalis margaritacea B. & H. Brit. Col.
*323 Anemone Grayi Behr. & Kell. M. W. Cal.
*800 Anisocarpus madioides Nutt. M.W.Cal.
*422 Aquilegia truncata F. & M. M. W. Cal.
*480 Arabis glabra Bernh. M. W. Cal.
*1644 Arabis Ludoviciana C. A. Mey. S. Cal.
*271 Arctostaphylos Andersonii Gray. M. W. Cal.
*817 Arctostaphylos manzanita Parry. M. W. Cal.
*328 Arctostaphylos tomentosa Dougl. M.W. Cal.
*327 Arctostaphylos viscida Parry. M.W.Cal.
*532 Arenaria Douglasii T. & G. form. M. W. Cal.
*835 Arenaria Douglasii T. & G. form. M. W. Cal.
*832 Aristida Californica Thurb. S. Cal.
1686 Aristida fasciculata Torr. Brit. Col.
*172 Artemisia biennis Willd. M. W. Cal.
*1563 Artemisia heterophylla Nutt. M.W.Cal.
*1547 Asclepias fascicularis Decaisne. M. W. Cal.
*320 Aspidium argutum Kaulf. M. W. Cal.
*321 Aspidium munitum Kaulf. M. W. Cal.
50 Aster Chilensis Nees form. M. W. Cal.
59 Aster Chilensis Nees form. M. W. Cal.
*1550 Aster Chilensis Nees form. M. W. Cal.
1829 Aster exilis Ell. M. W. Cal.
1828 Aster Sonomensis Greene. M. W. Cal.
*638 Astragalus Catalinensis Nutt. form. M. W. Cal.
*718 Astragalus Catalinensis Nutt. form.
1736 Astragalus crotalariæ Gray. M. W. Cal.
*1744 Astragalus pycnostachyus Gray. M. W. Cal.
*456 Athysanus pusillus Greene. M. W. Cal.
*1743 Atriplex Californica Moq. M. W. Cal.
*1841 Avena fatua L. var. glabrescens Cosson. Wash.
*60 Baccharis consanguinea D. C. form. M. W. Cal.
*1740 Baccharis consanguinea D. C. form. M. W. Cal.
*1564 Baccharis Douglasii D. C. M. W. Cal.
*527 Baeria chrysostoma F. & M. M. W. Cal.
*786 **Batrachium Bakeri** Greene n. sp. M. W. Cal.
1678 Beckmannia erucaeformis Host. Brit. Col.
*1697 Bidens Kelloggii Greene. M. W. Cal.
*782 **Blepharipappus Bakeri** Greene n. sp. M. W. Cal.
*742 Blepharipappus hieracioides Greene. M. W. Cal.
648 Blepharipappus nemorosus Greene. M. W. Cal.
*526 Blepharipappus platyglossus Greene form. M. W. Cal.
*707 Blepharipappus platyglossus Greene form. M. W. Cal.

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*1641 Bloomeria Clevelandi Wats. S. Cal.
*1620 Boisduvalia cleistogama Curran. S. Cal.
*1668 Bolelia pulchella Greene. S. Cal.
*510 Bowlesia lobata Ruiz & Pavon. M. W. Cal.
*1840 Bromus marginatus Nees var. latior Shear. Wash.
1746 Cakile edentula Hook. M. W. Cal.
*277 Calandrinia Menziesii T. & G. M.W.Cal.
622 Calochortus albus Dougl. M. W. Cal.
796 Calochortus Maweanus Leichtl. M. W. Cal.
*1666 Carduus Californicus (Gray) Greene. S. Cal.
*517 Cardamine oligosperma Nutt. M.W.Cal.
*886 Carex laciniata Boott. M. W. Cal.
*811 Carex Lemmonii Boott. form. M.W.Cal.
738 Carex Lemmonii Boott. form. M.W.Cal.
*464 Castilleia Douglasii Bth. form. M. W. Cal.
*479 Castilleia Douglasii Bth. form. M.W.Cal.
*631 Castilleia Douglasii Bth. form. M.W.Cal.
*777 Castilleia Douglasii Bth. form. M.W.Cal.
*781 Castilleia Douglasii Bth. form. M.W.Cal.
*478 Castilleia foliolosa H. & A. M. W. Cal.
*508 Castilleia latifolia H. & A. M. W. Cal.
*301 Ceanothus cuneatus Nutt. M. W. Cal.
*804 Ceanothus papillosus T. & G. form. M. W. Cal.
*803 Ceanothus papillosus T. & G. form. M. W. Cal.
*516 Ceanothus sorediatus H. & A. form. M. W. Cal.
*866 Ceanothus sorediatus H. & A. form. M. W. Cal.
*511 Ceanothus thyrsiflorus Esch. M.W.Cal.
*823 Ceanothus tomentosus Parry. S. Cal.
*819 Ceanothus verrucosus Nutt. S. Cal.
177 Centaurea melitensis L. M. W. Cal.
*175 **Centromadia Bakeri** Greene n. sp. M. W. Cal.
*402 Cerastium viscosum L. form. M.W.Cal.
*616 Cerastium viscosum L. form. M.W.Cal.
*691 Cerasus emarginata Dougl. M. W. Cal.
*1606 Chaenactis tenuifolia Nutt. S. Cal.
*1648 Chaenactis tenuifolia Nutt. var. Orcuttiana Greene. S. Cal.
645 Cheiranthus asper Nutt. M. W. Cal.
*342 Cheiranthus capitatus Dougl. M.W.Cal.
*716 Chenopodium Californicum Wats. M. W. Cal.
*1549 Chenopodium murale L. M. W. Cal.
*1631 Chorizanthe fimbriata Nutt. S. Cal.
*1638 Chorizanthe procumbens Nutt. S. Cal.
1635 Chrysaspis aurea (Pollich) Greene. Brit. Col.
56 **Chrysopsis neglecta** Greene n. sp. M. W. Cal.
*1832 Chrysopsis rudis Greene. M. W. Cal.
*1670 **Chrysopsis vestita** Greene n. sp. M. W. Cal.
*1677 **Chrysothamnus canescens** Greene n. sp. Brit. Col.
*486 Claytonia perfoliata Don. M. W. Cal.
*487 Claytonia perfoliata Don. var. augustifolia Greene. M. W. Cal.
*499 Clematis lasiantha Nutt. form. M. W. Cal.
*1683 Clematis ligusticifolia Nutt. Brit. Col.
*710 Collinsia bartsiaefolia Benth. M. W. Cal.
*481 Collinsia bicolor Benth. M. W. Cal.
*1709 Collinsia bicolor Bth. var. australis Brand. n. var. S. Cal.
*647 Collinsia Franciscana Bioletti. M. W. Cal.
1691 Collinsia parviflora Dougl. form. Brit. Col.
1818 Collinsia parviflora Dougl. form. Wash.
*444 Collinsia sparsiflora F. & M. form. M. W. Cal.
*641 Collinsia sparsiflora F. & M. form. M. W. Cal.
*869 Collomia heterophylla Hook. M. W. Cal.
*196 Conium maculatum L. M. W. Cal.
*1665 Convolvulus pentapetaloides L. S. Cal.
*848 Convolvulus subacaulis Greene. M. W. Cal.
*810 Corethrogyne caespitosa Greene. M. W. Cal.
*1551 Cornus Californicus C. A. Mey. form. M. W. Cal.
*861 Cornus Californicus C. A. Mey. form. M. W. Cal.
*1842 Crataegus Piperi Britt. Wash.
*1521 Croton setigerus Hook. M. W. Cal.
*468 Cryptanthe flaccida Greene. M. W. Cal.
*1646 Cryptanthe Jonesii Greene. S. Cal.
*1622 Cryptanthe micromeres Greene. S. Cal.
*1560 Cuscuta Californica Choisy var. longiloba Eng. S. Cal.
*41 Cuscuta salina Eng. M. W. Cal.
*57 Cuscuta subinclusa Dur. & Hilg.
*298 Cynoglossum grande Dougl. M. W. Cal.
*1831 Cyperus laevigatus L. M. W. Cal.
45 Cytisus scoparius Link. M. W. Cal.
*1613 Deinandra fasciculata (D. C.) Greene. S. Cal.
*1523 **Deinandra hispidula** Greene n. sp. M. W. Cal.

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*842 Delphinium Californicum H. & A. M. W. Cal.
*484 Delphinium decorum F. & M. M. W. Cal.
*795 Delphinium nudicaule Eng. M. W. Cal.
*458 Delphinium variegatum T. & G. M. W. Cal.
748 Delphinium variegatum T. & G. form. M. W. Cal.
*201 Dentaria Californica Greene. M. W. Cal.
*501 Dentaria sinuata Greene. M. W. Cal.
*344 Dicentra formosa O. K. M. W. Cal.
*761 Dichelostemma capitatum Wood. M. W. Cal.
*280 Diplacus glutinosus Nutt. M. W. Cal.
*1640 Diplacus puniceus Nutt. Cal.
*309 Dirca occidentalis Torr. M. W. Cal.
*650 Disporum Hookeri Britton. M. W. Cal.
489 Distegia Ledebourii (Esch.) Greene form. M. W. Cal.
815 Distegia Ledebourii (Esch.) Greene form. M. W. Cal.
*278 Dodecatheon Bernalinum Greene. M. W. Cal.
*827 Dodecatheon Clevelandi Greene. S. Cal.
*296 Dodecatheon cruciatum Greene. M. W. Cal.
*1639 Draba integrifolia (Wats.) Greene. S.Cal.
*1657 Encelia Californica Nutt. S. Cal.
*749 Epilobium minutum Lindl. M. W. Cal.
*46 Epilobium paniculatum Nutt. form. M. W. Cal.
1687 Epilobium paniculatum Nutt. form. Brit. Col.
1808 Epilobium paniculatum Nutt. form. Wash.
*852 Equisetum arvense L. var. boreale Bong. Brit. Col.
1705 Equisetum hiemale L. var. Californicum Milde. Brit. Col.
*855 Equisetum palustre L. var. fallax Milde. Brit. Col.
*324 Equisetum Telmateia Ehrh. var. Braunii Milde. M. W. Cal.
*854 Equisetum Telmateia Ehrh. var. breve form. Brit. Col.
*853 Equisetum Telmateia Ehrh. var. breve form. Brit. Col.
*1556 Equisetum variegatum Schleich. var. Alaskanum A. A. E. Brit. Col.
1814 Erigeron Canadensis L. Wash.
1738 Erigeron glaucus Ker. M. W. Cal.
*670 Eriodictyon Californicum Greene. M. W. Cal.
*1676 Eriogonum acetoselloides Torr. M. W. Cal.
1559 Eriogonum fasciculatum Bth. form. M. W. Cal.
*1664 Eriogonum fasciculatum Bth. form. S. Cal.
*1617 Eriogonum fasciculatum Bth. form. S. Cal.
*1629 Eriogonum gracile Benth. S. Cal.
1748 Eriogonum latifolium Smith. M.W.Cal.
*1675 Eriogonum leucocladon Bth. M. W. Cal.
*1519 Eriogonum nudum Dougl. M. W. Cal.
*1544 Eriogonum roseum Dur. & Hilg. M.W.Cal.
1681 Eriophorum russeolum Fr. Brit. Col.
797 Eriophyllum arachnoideum Greene. M. W. Cal.
*778 Eriophyllum confertiflorum Gray form. M. W. Cal.
*1660 Eriophyllum confertiflorum Gray form. S. Cal.
*1747 Eriophyllum staechadifolium Lag. M. W. Cal.
*1628 Eryngium articulatum Hook. S. Cal.
1827 Eryngium Vaseyi C. & R. M. W. Cal.
*877 Erythraea Muhlenbergii Griseb. M. W. Cal.
*174 Escholtzia ambigua Greene. M. W. Cal.
*700 Escholtzia Californica Cham. M.W.Cal.
*660 Escholtzia Douglasii Walp. M. W. Cal.
43 Escholtzia glauca Greene. M. W. Cal.
*1621 Eucrypta chrysanthemifolia (Bth.) Greene. S. Cal.
*1615 Euphorbia albomarginata T. & G. S.Cal.
*867 Euphorbia leptocera Eng. M. W. Cal.
*195 Euphorbia serpyllifolia Pers. M.W.Cal.
*1517 Euthamia occidentalis Nutt. M. W. Cal.
42 Foeniculum vulgare L. M. W. Cal.
*233 Fragaria Californica Ch. & Schl. M. W. Cal.
*315 Fragaria sericea Dougl. M. W. Cal.
*430 Fritillaria mutica Lindl. M. W. Cal.
1688 Fritillaria pudica Spreng. Brit. Col.
*1745 Gaertnera bipinnatifida Ktze. M.W.Cal.
*1607 Galium augustifolium Nutt. S. Cal.
*671 Galium aparine L. M. W. Cal.
*200 Garrya elliptica Dougl. M. W. Cal.
*860 Geranium dissectum L. M. W. Cal.
*469 Gilia inconspicua Sweet. M. W. Cal.
*643 Gilia multicaulis Bth. M. W. Cal.
*649 Gilia Nevinii Gray. M. W. Cal.
*865 **Gilia oreophila** Greene n. sp. M.W.Cal.
*634 Gilia tricolor Bth. M. W. Cal.
*1542 Gnaphalium microcephalum Nutt. M. W. Cal.
1816 Gnaphalium palustre Nutt. form. Wash.
*859 Godetia lepida Lindl. form. M. W. Cal.
*843 Godetia quadrivulnera Spach. form. M. W. Cal.

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*1701 Grindelia camporum Greene. M. W. Cal.
*47 Grindelia cuneifolia Nutt. M. W. Cal.
687 Grindelia patens Greene form. M. W. Cal.
*812 Grindelia patens Greene form. M. W. Cal.
*1557 Gutierrezia divergens Greene. S. Cal.
*876 Harpaecarpus exiguus Gray. M. W. Cal.
*824 Harpagonella Palmeri Gray. S. Cal.
*694 Helenium puberulum D. C. M. W. Cal.
*1673 Helianthus Californicus D. C. M. W. Cal.
*1695 Helianthus exilis Gray. M. W. Cal.
*1520 Heliotropium Curassavicum L. M. W. Cal.
*49 Hemizonia luzulaefolia D. C. M. W. Cal.
*780 Hesperevax sparsiflora Greene. M. W. Cal.
*667 Hesperocnide tenella Torr. M. W. Cal.
*880 Hesperoscordum lacteum Lindl. M. W. Cal.
*61 Heteromeles arbutifolia Roem. M. W. Cal.
*171 Hippocastanum Californicum Greene. M. W. Cal.
*1552 Holodiscus ariaefolius Greene. M. W. Cal.
*1652 Hookera minor Britten. S. Cal.
*1661 Hookera Orcuttii Greene. S. Cal.
*462 Hookera terrestris Greene. M. W. Cal.
*775 Hypochaeris glabra Linn. M. W. Cal.
*343 Iris Douglasiana Herb. M. W. Cal.
*348 Iris longipetala Herb. M. W. Cal.
*1633 Isocoma vernonioides Nutt. S. Cal.
*1707 Jaumea carnosa Gray. M. W. Cal.
*531 Juncus bufonius L. M. W. Cal.
*787 Juncus occidentalis (Coville) Wiegand. M. W. Cal.
*1554 Lagophylla congesta Greene form. M. W. Cal.
*831 Lamarckia aurea Moench. S. Cal.
*1623 Lastarriaea Chilensis Remy. S. Cal.
*1618 Lasthenia Coulteri (Gray) Greene. S. Cal.
*240 Lathyrus Bolanderi Wats. M. W. Cal.
*695 Lathyrus littoralis Endl. M. W. Cal.
813 Lathyrus puberulus White form? M. W. Cal.
*846 Lathyrus puberulus White form. M. W. Cal.
*152 Lathyrus puberulus White form. M. W. Cal.
*801 Lathyrus puberulus White form. M. W. Cal.
*849 Lathyrus Watsonii White. M. W. Cal.
*310 Lepidium nitidum Nutt. M. W. Cal.
1834 Lessingia hololeuca Greene. M. W. Cal.
*1548 Lessingia ramulosa Gray. M. W. Cal.
*1516 Limonium Californicum Greene. M. W. Cal.
*469 Linanthus androsaceus Greene form. M. W. Cal.
*522 Linanthus androsaceus Greene form. M. W. Cal.
*751 Linanthus Bolanderi Greene. M. W. Cal.
*1609 Linanthus dianthiflorus Greene form. S. Cal.
1612 Linanthus dianthiflorus Greene form. S. Cal.
*529 Linanthus dichotomus Bth. M. W. Cal.
*680 Linanthus filipes Greene form? M. W. Cal.
*760 Linanthus liniflorus (Bth.) Greene form. M. W. Cal.
*1663 Linanthus liniflorus (Bth.) Greene form. S. Cal.
*753 Linanthus millefoliata F. & M. M.W.Cal.
*1608 Linanthus parviflorus Greene form. S. Cal.
*528 Linanthus parviflorus Greene form. M. W. Cal.
*540 Linanthus rosaceus Greene form. M.W. Cal.
*706 Linanthus rosaceus Greene form. M.W. Cal.
*604 Linaria Canadensis Dumont. M.W.Cal.
443 Lithophragma affinis Gray. M. W. Cal.
668 Lithophragma Bolanderi Gray. M. W. Cal.
*651 Lithophragma heterophylla T. & G. M. W. Cal.
*426 Lomatium caruifolium (Bth.) C. & R. M. W. Cal.
*461 Lomatium tomentosum (Bth.) C. & R. M. W. Cal.
460 **Lomatium** n. sp. M. W. Cal.
*1553 Lonicera Californica T. & G. M. W. Cal.
*872 Lotus Americanus Bischof. form. M. W. Cal.
*1511 Lotus Americanus Bischof. form. M. W. Cal.
*689 Lotus formosissimus Greene. M.W.Cal.
*1619 Lotus hamatus Greene. S. Cal.
*750 Lotus humistratus Greene form. M. W. Cal.
*659 Lotus humistratus Greene form. M. W. Cal.

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*744 Lotus micranthus Benth. M. W. Cal.
*1604 Lotus Nuttallianus Greene. S. Cal.
*669 Lotus rubellus Greene. M. W. Cal.
*805 Lotus stipularis (Bth.) Greene. M. W. Cal.
*776 Lotus Wrangelianus F. & M. form. M. W. Cal.
*774 Lotus Wrangelianus F. & M. form. M. W. Cal.
*474 Lupinus affinis Agardh. form. M. W. Cal.
*858 Lupinus affinis Agardh. form. M. W. Cal.
*341 Lupinus albifrons Bth. M. W. Cal.
*610 **Lupinus apricus** Greene n. sp. M. W. Cal.
644 **Lupinus apricus** Greene n. sp. form. M. W. Cal.
*705 Lupinus arboreus Sims. M. W. Cal.
*473 Lupinus carnosulus Greene. M. W. Cal.
*702 Lupinus Chamissonis Esch. M. W. Cal.
1708 **Lupinus crassulus** Greene n. sp. M. W. Cal.
*847 Lupinus formosissimus Greene. M. W. Cal.
1541 Lupinus formosus Greene var. M. W. Cal.
1572 Lupinus formosus Greene var. M. W. Cal.
1809 Lupinus holosericeus Nutt. Wash.
*470 **Lupinus lasiotropis** Greene n. sp. M. W. Cal.
845 Lupinus micranthus Dougl. M. W. Cal.
*475 Lupinus microcarpus Sims. form. M.W. Cal.
*850 Lupinus microcarpus Sims. form. M.W. Cal.
*698 Lupinus nanus Dougl. form. M. W. Cal.
*507 Lupinus nanus Dougl. form. M. W. Cal.
*816 **Lupinus plebeius** Greene n. sp. M. W. Cal.
*1602 Lupinus truncatus Nutt. S. Cal.
*400 Luzula comosa Meyer. M. W. Cal.
*856 Lycopodium clavatum L. var. monostachyon. Brit. Col.
*173 Lythrum Californicum T. & G. M. W. Cal.
*888 Madia dissitiflora T. & G. S. Cal.
*1810 Madia glomerata Hook. Wash.
*1522 Madia sativa Mol. form. M. W. Cal.
*1558 Malvastrum splendidum Kell. S. Cal.
*1626 Malvastrum Thurberi Gray. S. Cal.
*868 Melica Torreyana Scribn. M. W. Cal.
*512 Micrampelis fabacea Greene. M.W.Cal.
*450 Micrampelis Marah Greene. M. W. Cal.
*878 Micropus amphibolus Gray. M. W. Cal.
*537 Micropus Californicus F. & M. form. M. W. Cal.
*639 Micropus Californicus F. & M. form. M. W. Cal.
*874 Micropus Californicus F. & M. form. M. W. Cal.
*1634 Microseris breviseta Greene. S. Cal.
*756 Microseris indivisa Greene. M. W. Cal.
*808 **Microseris leucocarpha** Greene n. sp. form. M. W. Cal.
538 **Microseris leucocarpha** Greene n. sp. form. M. W. Cal.
*820 **Microseris rufescens** Greene n. sp. S. Cal.
755 Microseris tenella Greene. M. W. Cal.
*520 Mimulus arvensis Greene. M. W. Cal.
*534 Mimulus arvensis Greene form. M. W. Cal.
*533 Mimulus arvensis Greene form. M. W. Cal.
887 Mimulus arvensis Greene var. minutiflora. M. W. Cal.
*759 Mimulus grandis Greene. M. W. Cal.
*826 Mirabilis Californica Gray. S. Cal.
*830 Muhlenbergia debilis Trin. S. Cal.
*423 Muilla maritima Wats. M. W. Cal.
1682 Naumburgia thyrsiflora (L.) Duby. Brit. Col.
*1653 Navarretia leptantha Greene. S. Cal.
*472 Negundo Californicum T. & G. M.W.Cal.
*1601 Nemacaulis denudata Nutt. S. Cal.
*399 Nemophila aurita Lindl. M. W. Cal.
*276 Nemophila insignis Dougl. M. W. Cal.
*500 Nemophila Menziesii H. & A. M. W. Cal.
*509 Nemophila micrantha Eastwood. M. W. Cal.
*334 Nemophila nemorensis Eastwood. M. W. Cal.
192 Nicotiana glauca Graham. M. W. Cal.
*297 Oenothera ovata Nutt. M. W. Cal.
*697 Oenothera spiralis Hook. M. W. Cal.
*887 Opulaster capitatus Greene. M. W. Cal.
*545 Orthocarpus attenuatus Gray. M. W. Cal.
*821 Orthocarpus densiflorus Bth. form. S. Cal.
*663 Orthocarpus densiflorus × lithospermoides. M. W. Cal.
*633 Orthocarpus erianthus Benth. M. W. Cal.
*346 Orthocarpus floribundus Bth. M.W.Cal.
*662 Orthocarpus lithospermoides Bth. M. W. Cal.

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*620 Orthocarpus purpurascens Benth. form. M. W. Cal.
*632 Orthocarpus purpurascens Benth. form. M. W. Cal.
*498 Orthocarpus pusillus Bth. M. W. Cal.
*1662 Osmadenia tenella Nutt. S. Cal.
*317 Osmaronia cerasiformis (T. & G.) Greene. S. Cal.
*325 Oxalis Oregana Nutt. M. W. Cal.
*1603 Oxytheca trilobata Gray. S. Cal.
1836 Paspalum distichum L. form. M.W.Cal.
1699 Paspalum distichum L. form. M.W.Cal.
*1636 Pectocarya linearis D. C. S. Cal.
*283 Pedicularis densiflora Benth. M.W.Cal.
*681 Pentachaeta alsinoides Greene. M. W. Cal.
*446 Pentachaeta exilis Greene. M. W. Cal.
*1616 Pentstemon cordifolius Benth. S. Cal.
*1654 Perezia microcephala Gray. S. Cal.
*371 Petasites palmata Gray. M. W. Cal.
*637 Phacelia Breweri Gray. M. W. Cal.
*488 Phacelia ciliata Bth. M. W. Cal.
*442 Phacelia distans Bth. form. M. W. Cal.
*704 Phacelia distans Benth. form. M. W. Cal.
*1656 Phacelia distans Benth. form. S. Cal.
*432 Phacelia divaricata Gray. M. W. Cal.
*203 Phoradendron villosum Nutt. M.W.Cal.
*403 Plagiobothrys nothofulvus Gray form. M. W. Cal.
*495 Plagiobothrys nothofulvus Gray form. M. W. Cal.
*1637 Plagiobothrys Pringlei Greene. S. Cal.
*709 Plantago erecta Morris form. M.W.Cal.
*1650 Plantago erecta Morris form. S. Cal.
*1632 Plantago erecta Morris form. S. Cal.
*1669 Plantago erecta Morris form. S. Cal.
*523 Plantago erecta Morris form. M. W. Cal.
*1659 Plantago scariosa Morris. S. Cal.
*433 Platystemon Californicus Bth. form. M. W. Cal.
*665 Platystemon Californicus Bth. form. M. W. Cal.
*829 Platystemon Californicus Bth. var. nutans Brandegee. S. Cal.
*457 Platystemon Torreyi Greene. M.W.Cal.
*1837 Poa laeviculmis Wms. Ms. Wash.
*1655 Pogogyne nudiuscula Gray. S. Cal.
*543 Pogogyne serpylloides Gray. M.W.Cal.
*1610 Polycarpon depressum Nutt. S. Cal.
*1672 Polygonum aviculare L. ? S. Cal.
*1514 Polygonum incarnatum Ell. M. W. Cal.
1835 Polygonum Muhlenbergii Wats. M. W. Cal.
1813 Polygonum Nuttallii Small. Wash.
*235 Polypodium Californicum Kaulf. M. W. Cal.
*562 Populus trichocarpa T. & G. M. W. Cal.
*1649 Psilocarphus globiferus Nutt. S. Cal.
*606 Psilocarphus tenellus Nutt. M. W. Cal.
*882 Psoralea physodes Dougl. M. W. Cal.
*615 Pterostegia drymarioides F. & M. M.W. Cal.
*1630 Ptilomeris anthemoides Nutt. S. Cal.
*1624 Ptilomeris aristata Nutt. S. Cal.
1703 Pyrrocoma elata Greene. M. W. Cal.
*476 Quercus agrifolia Nee form. M. W. Cal.
*1762 Quercus agrifolia Nee form. M. W. Cal.
*1759 Quercus densiflora H. & A. M. W. Cal.
*873 Quercus dumosa Nutt. var. bullata Eng. M. W. Cal.
*617 Quercus Kelloggii Newb. M. W. Cal.
*477 Quercus lobata Nee form. M. W. Cal.
*1763 Quercus Wislizenii A. D. C. M. W. Cal.
*335 Ranunculus Californicus Bth. M. W. Cal.
*504 Ranunculus Californicus Bth. form. M. W. Cal.
*491 Ranunculus hebecarpus H. & A. M. W. Cal.
618 Ranunculus hebecarpus H. & A. form. M. W. Cal.
*1706 Rhamnus Californica Esch. M. W. Cal.
*869 Rhamnus crocea Nutt. M. W. Cal.
*547 Rhus diversiloba T. & G. M. W. Cal.
*1643 Rhus laurina Nutt. S. Cal.
*816 Ribes Californicum H. & A. M. W. Cal.
*441 **Ribes deductum** Greene n. sp. M.W.Cal.
*563 Ribes divaricatum Dougl. form. M. W. Cal.
1811 Ribes divaricatum Dougl. form. Wash.
*241 Ribes glutinosum Benth. form. M. W. Cal.
387 Ribes glutinosum Benth. form. M. W. Cal.
*199 Ribes malvaceum Smith. M. W. Cal.
1817 Ribes niveum Lindl. Wash.
*279 Ribes subvestitum H. & A. M. W. Cal.
*754 Rigiopappus leptocladus Gray. M. W. Cal.
*463 **Romanzoffia Californica** Greene n. sp. M. W. Cal.
*798 Rosa gymnocarpa Nutt. M. W. Cal.
245 Rubus parviflorus Nutt. var. velutinus Greene. M. W. Cal.
*246 Rubus vitifolius Ch. & Schl. M. W. Cal.
*857 Rubus vitifolius Ch. & Schl. form. M. W. Cal.
*274 **Salix Bakeri** v. Seemen n. sp. M. W. Cal.
*390 Salix Coulteri Anders. M. W. Cal.

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*313 **Salix Franciscana** v. Seemen n. sp. M. W. Cal.
338 Salix laevigata Bebb. form. M. W. Cal.
*514 Salix laevigata Bebb. form. M. W. Cal.
*546 Salvia Columbariæ Bth. M. W. Cal.
*425 Sanicula arctopoides H. & A. M. W. Cal.
*496 Sanicula bipinnata H. & A. M. W. Cal.
*715 Sanicula bipinnatifida Dougl. M. W. Cal.
*783 Sanicula laciniata H. & A. M. W. Cal.
*714 Sanicula Menziesii H. & A. M. W. Cal.
*370 Saxifraga Californica Greene form. M. W. Cal.
834 Saxifraga Californica Greene form. M. W. Cal.
*247 Savastana macrophylla Beal. M.W.Cal.
*1830 Scirpus maritimus L. M. W. Cal.
*322 Scoliopus Bigelovii Torr. M. W. Cal.
—— Scrophularia Californica Cham. M. W. Cal.
*513 Scrophularia floribunda Greene. M. W. Cal.
*447 Scutellaria tuberosa Benth. M. W. Cal.
*746 Senecio aronicoides D C. M. W. C.
*1711 Senecio Breweri Davy. M. W. Cal.
*1647 Senecio Californicus D C. form. S. Cal.
*1702 Senecio Douglasii D C. form. M.W.Cal.
*1562 Senecio Douglasii D C. form. S. Cal.
*1715 Senecio hydrophilus Nutt var. Pacificus Greene. M. W. Cal.
*318 Senecio mikanioides Otto. M. W. Cal.
*311 Senecio vulgaris L. M. W. Cal.
*1627 Sedum variegatum Wats. S. Cal.
*319 Sequoia sempervirens Endl. M. W. Cal.
*611 Sidalcea humilis Gray form. M. W. Cal.
*275 Sidalcea humilis Gray form. M. W. Cal.
*550 Silene Gallica L. M. W. Cal.
*388 Sisyrhynchium bellum Wats. form. M. W. Cal.
*428 Sisyrhynchium bellum Wats. form. M. W. Cal.
*231 Solanum Douglasii Dunal. M. W. Cal.
*304 Solanum umbelliferarum Esch. form. M. W. Cal.
*48 Solanum umbelliferarum Esch. form. M. W. Cal.
*273 Solanum umbelliferarum Esch. form. M. W. Cal.
*234 Solanum umbelliferarum Esch. form. M. W. Cal.
282 Solanum umbelliferarum Esch. form. M. W. Cal.
*1667 Solanum Xanti Gray. S. Cal.
*1749 Solidago Californica Nutt. M. W. Cal.
1680 Solidago elongata Nutt. Brit. Col.
396 Spergula arvensis L. M. W. Cal.
*605 Sphacele calycina Bth. M. W. Cal.
*1645 Sphaerostigma micranthum Walp. S. Cal.
*642 Stachys bullata Bth. M. W. Cal.
*541 Stachys Californica Bth. form. M.W.Cal.
*542 Stachys Californica Bth. form. M.W.Cal.
*833 Stipa eminens Cav. S. Cal.
*818 Styphonia serratum Nutt. S. Cal.
*1605 Symatium junceum Vogel. S. Cal.
*238 Symphoricarpus racemosus Mx. M. W. Cal.
*692 Thalictrum polycarpum Wats. M. W. Cal.
*459 Thelypodium lasiophyllum Greene. M. W. Cal.
*685 Thermopsis Californica Wats. M. W. Cal.
*497 Thysanocarpus elegans F. & M. M. W. Cal.
*294 Thysanocarpus pulchellus F. & M. M. W. Cal.
*603 Tillaea minima Miers. M. W. Cal.
*666 **Tissa** n. sp. M. W. Cal.
*1812 Tonella floribunda Gray. Wash.
55 Trichostema lanceolata Gray. M.W.Cal.
*427 Trientalis latifolia Greene. M. W. Cal.
*862 Trifolium albopurpureum T. & G. form. M. W. Cal.
*636 Trifolium albopurpureum T. & G. form. M. W. Cal.
*548 Trifolium amplectens T. & G. M.W.Cal.
*828 **Trifolium anodon** Greene n. sp. S. Cal.
*784 Trifolium barbigerum Torr. M. W. Cal.
*743 Trifolium bifidum Gray form. M.W.Cal.
875 Trifolium bifidum Gray form. M.W.Cal.
*608 Trifolium ciliolatum Bth. form. M. W. Cal.
*871 Trifolium ciliolatum Bth. form. M. W. Cal.
*693 Trifolium flavulum Greene. M. W. Cal.
*494 Trifolium Franciscanum Greene. M.W. Cal.
*879 Trifolium geminiflorum Greene var. M. W. Cal.
*612 Trifolium gracilentum T. & G. form. M. W. Cal.
*672 Trifolium gracilentum T. & G. form. M. W. Cal.
*721 Trifolium gracilentum T. & G. form. M. W. Cal.
*525 Trifolium Macraei H. & A. var. M. W. Cal.
*482 Trifolium microcephalum Pursh. M. W. Cal.
*549 Trifolium oliganthum Steudel. M. W. Cal.

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*483 Trifolium segetum Greene. M. W. Cal.
*451 Trifolium tridentatum Lindl. M. W. Cal.
*493 Trifolium variegatum Nutt. var melananthum Greene. M. W. Cal.
*445 Trifolium Wormskjoldii Lehm. form. M. W. Cal.
*696 Trifolium Wormskjoldii Lehm. form. M. W. Cal.
*883 Triglochin palustris L. M. W. Cal.
*431 Trillium chloropetalum (Torr.) Greene. M. W. Cal.
*306 Trillium giganteum (H. & A.) Greene form. M. W. Cal.
307 Trillium giganteum (H. & A.) Greene form. M. W. Cal.
*329 Trillium ovatum Pursh. M. W. Cal.
*521 Triteleia laxa Bth. M. W. Cal.
*336 Tropidocarpum gracile Hark. M.W.Cal.
*193 Umbellularia Californica Nutt. M.W.Cal.
*1635 Uropappus Clevelandi Greene. S. Cal.
*841 Uropappus Lindleyi Greene. M. W. Cal.
*242 Vaccinium ovatum Pursh. S. Cal.
*398 Valerianella samolifolia Gray. M. W. Cal.
*1700 Veronica Americana Schwein. M. W. Cal.
1815 Veronica peregrina L. Wash.
741 Vicia exigua Nutt. M. W. Cal.
*506 Vicia gigantea Hook. form. M. W. Cal.
*864 Vicia gigantea Hook. form. M. W. Cal.
*678 Vicia truncata Nutt. S. Cal.
*1614 Viguiera laciniata Gray. S. Cal.
332 Viola glabella Nutt. form. M.W. Cal.
1692 Viola glabella Nutt. form. Brit. Col.
*635 Viola Douglasii Steud. M. W. Cal.
*333 Viola ocellata T. & G. M. W. Cal.
*347 Viola pedunculata T. & G. M. W. Cal.
*822 Viola pedunculata T. & G. form. S. Cal.
—— Viola praemorsa Dougl. Brit. Col.
*232 Viola sempervirens Greene. M. W. Cal.
1693 Viola sempervirens Greene form. Brit. Col.
*502 Whipplea modesta Torr. M. W. Cal.
*330 Woodwardia Chamissoi Brackenr. M. W. Cal.
*449 Wyethia angustifolia Nutt. M. W. Cal.
*646 Wyethia glabra Gray. M. W. Cal.
*640 Wyethia helenioides Nutt. M. W. Cal.
*1512 Xanthium Californicum Greene. M.W. Cal.
*52 Zauschneria Californica Presl. M.W.Cal.
*1739 Zonanthemis angustifolia Greene. M. W. Cal.
686 Zonanthemis corymbosa Greene form. M. W. Cal.
*839 Zonanthemis corymbosa Greene form. M. W. Cal.
345 Zygadenus minor Greene. M. W. Cal.
*284 Zygadenus speciosus Dougl. M. W. Cal.

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NEVADA SERIES I.

Full notes on all the species represented in these series will be published later.

FUNGI.

A number of fleshy fungi and critical species yet remain unreported on.

1076 Aecidium album Clint.
1327 Aecidium Giliæ Pk.
993 Aecidium monoicum Pk. var.
994 Aecidium Phlogis E. & E.
1290 Aecidium ranunculacearum D C.
1087 Albugo candida (Pers.) O. Ktze.
945 Cenangium ferrugineum Fr.
1331 **Didymella Delphini** Earle n. sp.
1308 **Diplodia Leptodactyli** Earle n. sp.
963 **Diplodia Veratri** Earle n. sp.
1210 Erysiphe cichoracearum D C.
1212 Erysiphe graminis D C.
1416 Erysiphe Polygoni D C.
1469 Erysiphe Polygoni D C.
1704 **Gibberidia Artemisiæ** Earle n. sp.
1388 Kellermannia alpina E. & E.
1350 Lasiosphaeria Coulteri Pk.
1215 Leptosphaeria Doliolum (Pers.) De Not.
1468 **Leptostromella Eriogoni** Earle n. sp.
1216 Macrosporium puccinioides Ell. & And.
941 Melampsora Lini (D C.) Tul.
1230 **Mycosphaerella Balsamorrhizæ** Earle n. sp.
1225 **Mycosphaerella Vagneræ** Earle n. sp.
1166 Ophiobolus Castilleiæ Tracy & Earle.
1351 Peridermium Harknessii Moore.
1498 Phragmidium Fragariastri (D C.) Schraet.
1313 Phragmidium speciosum Fr.
1208 Phyllosticta ferax E. & E.
1352 **Platystomum Amelanchieris** Tracy & Earle.
1330 Pleospora aurea Ell.
1214 Pleospora media Neissl. ?
1229 Pleospora megalotheca Tracy & Earle.
1213 Pleospora permunda Cke. & Hark.
1476 Pleospora permunda (Cke.) Sacc.
1255 **Pleospora Silenes** Earle n. sp.
1180 **Plowrightia** n. sp.
1126 Puccinia Epilobii (D C.) Wint.
1237 Puccinia Pimpinellæ Lk.
1268 Puccinia subnitens Diet.
942 Puccinia Tanaceti D C.
910 Pyrenophora ciliata (Ell.) Sacc.
1068 **Pyrenophora Tetraneuridis** Earle n. sp.
1167 **Rhabdospora Heraclei** Earle n. sp.
1319 Rosellinia ovalis (Ell.) Sacc.
1125 Schizonella melanogramma (D C.) Schraet.
1227 Sphaerotheca Humuli var. fuliginea (Schlecht.) Salmon.
1217 Strickeria insecura (Ell.) Tracy & Earle.
1226 Strickeria insecura (Ell.) Tracy & Earle.
1233 Teichosporella montanæ E. & E.
1165 **Thyridium Sambuci** Earle n. sp.
1077 Tuberculina persicina (Ditm.) Sacc.
957 Uromyces Eriogoni Ell. & Hark.
1065 Uromyces Eriogoni Ell. & Hark.

LICHENS.

1421 Buellia petraea C. Montagnaei Tuck.
1424 Evernia vulpina (L.) Ach.
1504 Lecanora chlorophana (Wahl.) Ach.
1419 Lecanora rubina (Vill.) Ach.
1414 Lecanora varia (Ehrh.) Nyl. d. symmicta Nyl.
1422 Lecidea fusco-atra (L.) Fr.
1420 Lecidea lapicida Fr.
1425 Lecidea polycarpa Fr.
1423 Placodium murorum (Hoffm.) D C. var. miniatum Auct.

BRYOPHYTES.

A goodly number were collected, including some very interesting things. The report on them is not yet in. They will be issued with the 1903 series.

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SPERMAPHYTES AND FERNS.

Several hundred numbers yet without names and requiring more critical study are now in the hands of specialists and will be held over for the 1903 series.

1054 Acer Torreyi Greene.
1131 Achilleia lanulosa Nutt.
1390 Aconitum Columbianum Nutt. form.
1393 Aconitum Columbianum Nutt. form.
1265 Adenostegia canescens Greene.
1499 Adenostegia ramosa (Nutt.) Greene.
1408 Adenostegia tenuis Greene.
1130 Agoseris glauca Dietr. form.
1088 Agoseris glauca Dietr. form.
1411 Agoseris heterophylla Greene.
935 Agoseris retrorsa Greene.
1448 Agrostis alba L. form.
1457 Agrostis alba L. form.
1305 Agrostis scabra Milld.
1271 Aira danthonioides Trin. form.
1129 Aira danthonioides Trin. form.
1361 Aira near danthonioides Trin.
1012 Allium bisceptrum Wats.
1391 Allium campanulatum Wats.
1266 Allocarya Cusickii Greene.
1235 Alnus tenuifolia Nutt.
1048 Alsine longipes Coville form.
1392 Alsine longipes Coville form.
1332 Alsinella saginoides Greene.
946 Amelanchier alnifolia Nutt. form?
1002 Amelanchier alnifolia Nutt. form.
952 Amelanchier pallida Greene.
1219 Amelanchier pallida Greene form.
1045 Amsinckia tessellata Gray.
1333 Anaphalis margaritacea B. & H.
1473 Angelica Breweri Gray.
1098 Antennaria argentea Bth. form.
1069 Antennaria argentea Bth. form.
1409 Antennaria Geyeri Gray.
1296 **Antennaria hygrophila** Greene n. sp.
1220 Apocynum androsaemifoliun L.
1508 **Apocynum oliganthum** Greene n. sp.
1122 Apocynum pumilum Greene form.
1252 Apocynum pumilum Greene form.
1461 Apocynum pumilum Greene form.
1205 Aquilegia formosa Fisch.
891 Arabis campyloloba Greene.
1157 **Arabis chionophila** Greene n. sp.
1117 Arabis glabra Bernh.
1240 Arabis platysperma Gray form.
1389 Arabis platysperma Gray form.
1149 **Arabis pratincola** Greene n. sp.
986 Arabis subpinnatifida Wats. var.
979 Arctostaphylos manzanita Parry form?
1005 Arctostaphylos Nevadensis Gray.
1001 Arctostaphylos patula Greene.
1276 Arenaria aculeata Wats.
1090 Argemone rotundata Rydb.
1089 Arnica foliosa Nutt.
1432 Arnica Nevadensis Gray.
1354 Arnica Sonnei Greene.
1458 Artemisia heterophylla Nutt.
1407 Artemisia Ludoviciana Nutt.
1099 Asclepias ecornuta Kell.
1444 Asplenium Filix-foemina Bernh. form.
1466 Asplenium Filix-foemina Bernh. form.
1474 Aster denudatus Nutt.
1399 Aster Douglasii Lindl.
1470 Aster integrifolius Nutt.
1275 Astragalus lentiginosus Dougl.
1451 Atriplex phyllostegia Wats.
1093 Barbarea vulgaris R. Br.
1105 Bromus maximus Desf.
1104 Bromus mollis L.
1263 Bromus Pumpellianus Scribn. form.
1245 Bromus Pumpellianus Scribn. form
1108 Calochortus Leichtlinii Hook form.
1298 Caltha Howellii Greene.
1027 Calyptridium roseum Wats.
1008 Calyptridium umbellatum Greene.
902 Capnorea Watsoniana Greene.
1015 Cardamine Breweri Wats.
1309 Carduus Andersonii Greene.
1343 Carduus Breweri Greene.
1207 Carduus candidissimus Greene.
1250 Carex Deweyana Schw.
1178 Carex Douglasii Boott.
1124 Carex Nebraskensis Dewey.
1364 Carex stellulata Good. var.
1132 Carex straminea Schk. var.
1238 Castanea chrysophylla Dougl.
982 Castilleia angustifolia (Nutt.) Don. form.
898 Castilleia angustifolia (Nutt.) Don. form.
889 **Castilleia Bakeri** Greene n. sp.
1317 Castilleia candens Dur. & Hilg.
1033 Castilleia Douglasii Bth. form.
1318 Castilleia linariaefolia Bth. form.
1339 Castilleia linariaefolia Bth. form.
1484 Castilleia miniata Dougl. var.?
950 **Ceanothus Bakeri** Greene n. sp.
1192 Ceanothus cordulatus Kell.
948 Ceanothus prostratus Bth.
954 Ceanothus velutinus Dougl.
1273 Centromadia pungens Greene.
1106 Cerastium viscosum L.
1059 Cerasus demissa Nutt.
997 Cerasus emarginata Dougl. form.

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917 Cerasus emarginata Dougl. form.
1306 Cercocarpus ledifolius Nutt.
1094 Chaenactis Douglasii H. & A.
1455 Chamaenerion angustifolium Scop.
1156 Chamaesaracha nana Gray.
1089 Cheiranthus asper Nutt.
1505 Chenopodium Botrys L.
1480 Chimaphila Menziesii Spreng.
1092 Chorizanthe Watsonii T. & G.
1433 Chrysopsis Breweri Gray.
1453 **Chrysothamnus aquilinus** Greene n.sp.
1495 Chrysothamnus Californicus Greene form.
1436 Chrysothamnus Californicus Greene form.
1503 Chrysothamnus Nevadensis Greene.
1501 Chrysothamnus tortifolius Greene form.
1440 Chrysothamnus tortifolius Greene form.
1342 Circaea Pacifica Asch. & Magn.
1138 Clarkia rhomboidea Dougl.
1016 **Claytonia deltoidea** Greene n. sp.
1013 **Claytonia rhomboidea** Greene n. sp.
1011 **Claytonia rubra** Greene n. sp.
1018 Cleomella parviflora Gray.
1452 Coldenia Nuttallii Hook.
939 Collinsia parviflora Dougl. form.
920 Collinsia parviflora Dougl. form.
1123 Collomia lanceolata Greene.
1025 Conanthus aretioides Wats.
1242 Cornus pubescens Nutt.
1062 Crepis Andersonii Gray.
1101 Crepis intermedia Gray.
1070 Crepis occidentalis Nutt.
1381 **Cryptanthe ammophila** Greene n. sp.
975 Cryptanthe pterocarya Greene.
1477 Cuscuta suaveolens Seringe.
1287 Dactylis glomerata L.
956 Delphinium Andersonii Gray.
1371 Delphinium glaucum Wats.
1295 Delphinium Sonnei Greene form.
903 Delphinium Sonnei Greene form.
1300 **Distegia intermedia** Greene n. sp.
1145 Dodecatheon alpinum Greene.
1386 Draba nemorosa L. form.
1297 Draba nemorosa L. form.
951 Drymocallis glandulosa Rydb.
1334 Elymus near Saundersii Vasey.
1253 Epilobium adenocaulon Hausskn.
1321 Epilobium alpinum L.?
1249 Epilobium glaberrimum Barbey.
1357 Epilobium Oregonense Hausskn.
1380 Epilobium perplexans (Trel.) Greene.
1304 Epipactis gigantea Dougl.
1056 Equisetum arvense L. var. boreale Bong.
1047 Equisetum laevigatum A. Br. var. variegatoides A. A. E.
1322 Erigeron angustifolius Rydb. form.
1384 Erigeron angustifolius Rydb. form.
1095 Erigeron aphanactis Greene.
1064 Erigeron Bloomeri Gray.
1368 Erigeron Breweri Gray.
1506 Erigeron Canadensis L.
905 Erigeron concinnus T. & G.
1085 Erigeron divergens T. & G. form.
1429 Erigeron divergens T. & G. form.
1100 Erigeron filifolius Nutt.
1356 Erigeron frondeus Greene.
1159 Erigeron Nevadensis Gray.
1402 **Eriogonum commixtum** Greene n. sp.
1239 **Eriogonum deductum** Greene n. sp.
1397 Eriogonum elatum Dougl.
984 Eriogonum marifolium T. & G. form.
1467 Eriogonum marifolium T. & G. form.
1372 Eriogonum marifolium T. & G. form.
1143 Eriogonum ovalifolium Nutt.
1026 Eriogonum reclinatum Greene form.
1291 Eriogonum reclinatum Greene form.
1494 Eriogonum trachygonum Torr.
1366 Eulophus Bolanderi C. & R.
1375 **Eunanus Bakeri** Greene n. sp.
1510 **Eunanus modestus** Greene n. sp.
1024 Eunanus Tolmiei Benth.
1010 Eunanus Tolmiei Benth. var.?
1254 **Eunanus villosus** Greene n. sp.
1274 Euphorbia serpyllifolia Pers.
1472 Festuca ovina L.
913 Fritillaria atropurpurea Nutt.
911 Galium bifolium Wats.
1412 **Galium limosellum** Greene n. sp.
1406 Gayophytum diffusum T. & G.
1373 **Gayophytum hirtellum** Greene n. sp.
1042 Gayophytum racemosum T. & G.
966 Gayophytum ramosissimum T. & G.
1284 Geum macrophyllum Willd. form.
1387 Geum macrophyllum Willd. form.
1247 Gilia aggregata Spreng.
1355 Gilia capillaris Kell. form.
1358 Gilia capillaris Kell. form.
1403 Gilia floccosa Gray form.
1234 Gilia floccosa Gray form.
1410 Gilia gilioides Greene.
1053 Gilia Nuttallii Gray.
1140 Gilia parviflora Spreng.
897 Gilia sinuata Dougl.
1268 Glyceria airoides Thurb.
1465 Glyceria pauciflora Presl.
1176 Gnaphalium palustre Nutt.
980 Godetia viminea Spach.
1017 Halerpestes Cymbalaria (Pursh) Greene.
1067 Harpaecarpus minimus Greene.
1428 Helianthus lenticularis Dougl.
1439 Heracleum lanatum Mx.

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1175 Heterocodon rariflorum Nutt.
1370 Hieracium albiflorum Hook.
1141 Hieracium relicinum Fries.
1431 Holodiscus dumosus Heller.
1315 Hordeum jubatum L.
1413 Horkelia fusca Lindl.
1030 Hypericum anagalloides Ch. & Schl.
1261 Hypericum Scouleri Hook.
1081 Iris Missouriensis Nutt.
1310 **Iva obovata** Greene n. sp.
1270 Juncus Balticus Deth. var. montanus Eng.
1341 Juncus bufonius L.
947 Kunzia glandulosa Greene.
1260 Lactuca pulchella D C.
1096 Lagophylla ramosissima Nutt.
1293 **Lappula macilenta** Greene n. sp.
1044 Lappula occidentalis Greene.
1086 Lepidium medium Greene.
1190 Lepidium montanum Nutt. form.
1264 Lepidium montanum Nutt. form.
1307 **Leptodactylon lilacinum** Greene n. sp.
1115 Leptodactylon squarrosum (Gray) Greene.
1199 Leptotaenia multifida Nutt. form.
1172 Leptotaenia multifida Nutt. form.
985 Lewisia rediviva Pursh.
1490 Ligusticum filicinum Wats.
1251 Lilium parvum Kell.
1111 Limnorchis leucostachys (Lindl.) Rydb.
1360 Linanthus Harknessii Greene.
1066 Linanthus neglectus Greene.
1329 Linum Lewisii Pursh.
1034 Lithophragma tenella Nutt.
1039 Lithospermum pilosum Nutt.
1041 Lomatium Nevadense C. & R.
1427 Lotus Americanus Bischof.
1377 Lupinus Andersonii Wats.
1303 Lupinus Breweri Gray.
923 Lupinus calcaratus Kell. form.
918 Lupinus calcaratus Kell. form.
1188 Lupinus caudatus Kell. form.
1134 Lupinus caudatus Kell. form.
1374 **Lupinus chionophilus** Greene n. sp.
1110 Lupinus confertus Kell. form.
1171 Lupinus confertus Kell. form.
1135 **Lupinus elongatus** Greene n. sp.
916 Lupinus holosericeus Nutt.
1325 Lupinus meionanthus Gray.
1349 **Lupinus procerus** Greene n. sp. form.
1376 **Lupinus procerus** Greene n. sp. form.
1348 Lupinus silvestris Drew.
1500 Machaeranthera leucanthemifolia Greene.
1438 Machaeranthera montana Greene form.
1498 Macronema suffrutescens Greene.
1118 Madaria corymbosa D C.
1137 Madia dissitiflora T. & G. form.
1442 Madia dissitiflora T. & G. form.
1471 Madia glomerata Hook.
1114 Malacothrix obtusa Bth.
1292 Melica stricta Boland.
1400 **Mentha Carsoniana** Greene n. sp.
968 Mentzelia congesta T. & G.
1345 Mentzelia dispersa Wats.
974 Mentzelia gracilenta T. & G.
1302 Mertensia stomatechioides Kell.
912 Microsteris micrantha Greene form.
1032 Microsteris micrantha Greene form.
1336 Mimulus cardinalis Dougl.
1058 **Mimulus collinus** Greene n. sp.
1174 Mimulus floribundus Dougl.
1248 Mimulus Lewisii Pursh.
1060 Mimulus Llangsdorffii Fisch.
1023 Mimulus montioides Gray.
1277 Mimulus primuloides Bth.
1029 Mimulus rubellus Gray.
1113 Monardella glauca Greene.
1347 Monardella venosa Greene.
901 Montia Chamissonis Greene.
1084 Montia linearis Greene.
896 Muilla transmontana Greene.
1057 Nasturtium officinale R. Br.
1022 Nemacladus rubescens Greene?
914 Nemophila pedunculata Bth.
1184 Nicotiana attenuata Torr.
1479 Nymphaea polysepala (Eng.) Greene.
971 Oenothera strigulosa T. & G.
1258 Onagra Hookeri (T. & G.) Smallt
1128 Orthocarpus hispidus Bth.
1430 Orthocarpus luteus Nutt.
1083 Orthocarpus pilosus Wats.
1136 Oxytheca spergulina Greene.
899 Paeonia Brownii Dougl.
991 Parrya Menziesii Greene.
1337 Pastinaca sativa L.
1148 Pedicularis attolens Gray.
1158 Pedicularis semibarbata Gray.
1028 Pectocarya penicillata A. D C.
1257 Pentstemon breviflorus Lindl.
1278 **Pentstemon chionophilus** Greene n. sp.
1144 **Pentstemon cinerascens** Greene n. sp.
1079 Pentstemon confertus Dougl.
1256 Pentstemon Newberryi Gray.
1394 Pentstemon procerus Dougl. var.
976 Pentstemon speciosus Dougl.
1187 Peritoma luteum Raf.
1142 **Phacelia compacta** Greene n. sp.
936 Phlox caespitosa Nutt.
969 Phlox Stansburyi Heller.
1446 Pinus aristata Eng.
1107 Pinus Jeffreyi Murray.
973 Piptocalyx circumscissus Torr.
894 Plagiobothrys asper Greene.

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1007 Poa longiligula Scrib. & Wms. form.
958 Poa longiligula Scrib. & Wms. form.
992 Poa longiligula Scrib. & Wms. form.
1272 Poa Nevadensis Vasey form.
1267 Poa Nevadensis Vasey form.
934 Poa tenuifolia Nutt. form.
1311 Poa tenuifolia Nutt. form.
1314 Poa tenuifolia Nutt. form.
1396 Polemonium occidentale Greene form.
1112 Polemonium occidentale Greene form.
1367 Polygonum Douglasii Greene.
1398 Polygonum Persicaria L.?
1379 Polygonum polymorphum Ledeb.
1359 Polygonum Watsonii Small.
1197 Populus tremuloides Mx.
978 Populus trichocarpa T. & G.
1170 Potentilla gracilis Dougl. form.
1169 Potentilla gracilis Dougl. form.
1383 Potentilla Nuttallii Lehm.
1369 Pseudocymopterus anisatus C. & R.
1469 Pteris aquilina L.
1478 Pterospora andromeda Nutt.
1362 Ptilocalais nutans Greene.
1244 **Ptiloria divergens** Greene n. sp.
1401 Ptiloria exigua Greene.
1340 Puccinellia Lemmonii (Vasey) Scribn. var.?
1288 Pyrola pallida Greene.
1365 Pyrola rotundifolia L.
1485 Pyrola secunda L.
1450 Pyrrocoma paniculata T. & G.
1280 Ranunculus Hartwegi Greene form.
1000 Ranunculus ultramontanus Greene form.
1080 Ranunculus ultramontanus Greene form.
1006 Razoumofskya occidentalis O. Ktze.
1196 Rhamnus rubra Greene.
996 Ribes cereum Dougl. form.
1003 Ribes cereum Dougl. form.
1301 Ribes irriguum Dougl.
1004 Ribes irriguum Dougl. form?
1150 Ribes lentum Jones.
977 Ribes Nevadense Kell.
892 Ribes velutinum Greene.
1055 Ribes viscosissimum Pursh.
1221 Rosa ultramontana (Wats.) Greene.
1097 Rubus Nutkanus Moc.
1201 Rumex crispus L.
1483 Rumex salicifolius Wienm.
919 Salix arguta Anders. var. lasiandra (Bth.) Anders. form.
1151 Salix arguta Anders. var. lasiandra (Bth.) Anders. form.
925 Salix Bigelovii T. & G.
1299 Salix Californica Bebb.
1162 Salix Lemmonii Bebb. form.
1153 Salix near Lemmonii Bebb.
1036 Salix longifolia Muhl. form.
1037 Salix longifolia Muhl. form.
924 **Salix Ormsbyensis** v. Seemen n. sp.
1155 Sambucus callicarpa Greene.
1031 Sarcodes sanguinea Torr.
1395 **Saxifraga arnoglossa** Greene n. sp.
1147 Saxifraga Sierræ Coville.
1071 Scrophularia occidentalis Bicknell.
1338 Selinum capitellatum Wats.
1491 Senecio Andinus Nutt.
1385 Senecio scorzonella Greene form.
1259 Senecio triangularis Hook.
1324 Senecio trigonophyllus Greene.
1168 Sidalcea spicata Greene.
1109 Silene Douglasii Hook.
1241 Silene montana Wats.
1061 Sisyrhynchium Idahoense Bicknell.
1243 Sitanion Californicum J. G. Sm.
1426 Solanum villosum Lam.
1405 Solidago elongata Nutt. form.
1441 Solidago elongata Nutt. form.
1456 Solidago spectabilis Gray form.
1502 Solidago spectabilis Gray form.
1046 Sonnea hispida Greene.
970 Sophia Hartwegiana Greene.
1344 Sophia Sonnei Greene.
1281 Sorbus Californica Greene.
1445 Sporobolus asperifolius Thurb.
1116 Stipa comata Trin.
1285 Stipa occidentalis Thurb.
1173 Symatium Nevadense Greene.
1496 Symphoricarpus oreophilus Gray form.
1283 Symphoricarpus oreophilus Gray form.
1049 Tanacetum potentilloides Gray.
1507 Tanacetum vulgare L.
1074 Taraxia longiflora Nutt.
1447 Tetradymia canescens D C. form.
1404 Tetradymia canescens D C. form.
1323 Thalictrum Fendleri Eng.
1191 **Thelypodium crispum** Greene n. sp.
1020 Thelypodium laciniatum Endl.
1218 **Thelypodium leptostachyum** Greene n. sp.
928 Thysanocarpus curvipes Hook.
1326 Trifolium microcephalum Pursh.
1282 Trifolium monanthum Gray.
1449 Trifolium subsalinum Greene form.
1177 Trifolium subsalinum Greene form.
1050 Triglochin maritimum L.
1286 Triticum caninum L.
1262 Triticum repens L. form.
1312 Triticum repens L. form.
1316 Triticum repens L. form.
1437 Tsuga Pattoniana Eng.
1038 **Vagnera valida** Greene n. sp.
1146 Valeriana sylvatica Rich.

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930 Valerianella congesta Lindl.
1078 Veronica Americana Schweinitz.
1160 Veronica serpyllifolia L.
940 Viola atriplicifolia Greene form.
962 Viola Austinæ Greene.
1289 Viola Macloskeyi Lloyd.
943 Viola pinetorum Greene form.
1363 Washingtonia divaricata Britt.
1200 Washingtonia occidentalis C. & B.
990 Zygadenus paniculatus Wats.

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II

WEST AMERICAN PLANTS

DISTRIBUTED BY C. F. BAKER

1903

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WEST AMERICAN PLANTS

Distributed by C. F. Baker

FALL OF 1903

The operations of the past year have been somewhat interfered with by a change of base—to Southern California. Except for this the work has moved steadily along and will continue to do so now, under more favorable conditions, in some respects, than at any previous time.

The sets of West Coast Plants as issued to regular subscribers are supposed to be entirely uniform. I do not issue any short lots in these sets. The numbers issued have been as follows:

	Fungi	Lichens	Bryophytes	Sperm. and Ferns
Spring '02	80	15	18	168
Fall '02	21	4	68	173
Spring '03	30	4	22	435
Fall '03	73	0	0	318

Total issued in the two years 1429.

This summary refers *only* to the West Coast Series and does not include the Nevadan or Nicaraguan plants, or the supplementary sets. If by accident any were omitted from any set, comparison should be made with the starred names in the list and a memorandum of the desiderata sent to me. The Fall '03 Lichens and Bryophytes and a portion of the Fungi are reserved for issuance in the Spring of '04.

Attention is called to the fact that the field notes printed on the labels are strictly local notes, referring merely to conditions existing in the immediate locality where the specimens were collected.

It is expected that the issuance of the supplementary sets now in operation will be continued according to the original plan, until every species shall be thoroughly well represented.

As will be noted, several nomenclatorial schools are represented among the names in the list. No attempt has been made to secure uniformity. The names are used as applied by the various specialists who have been working on this material. Nor does this condition worry me or impede my operations. Most systematists who are really in active work will waste but little time over these discrepancies. I cannot but view the condition as entirely normal—a stage in an evolution which is bound to result eventually in perfect uniformity. The world does not move by "proclamation," as some of our botanist apparently think it should.

The sets of this year contain many interesting new forms, perhaps to be called by the indefinable term "species," though who shall decide their taxonomic status until they have been studied throughout their entire ranges and grown under observation? Thirteen years of constant and active field work in all parts of the country have bred in me a great disrespect for the dicta of closet botanists and manual compilers, as to the exact definition and limitation of species and varieties. Many of the "perfectly good species" of the older botanists are absolutely confined to certain mountain peaks or valleys, or other isolated localities. There are still mountain peaks and valleys to be explored and there are still many which have not been half "explored" in the past. I make these incomplete remarks on the score of objections to some of my "new species" (which I have never yet called such) which have come to me from certain botanists. I note that these gentlemen are usually not field workers, though, curiously enough, some are "ecologists"—evidently cases of "trained observers" who were trained "to see certain things and *no more*." Until all plant forms—even to obscure races in the very variable species—shall have been recognized by name or number or what-not, the more and more elaborate and minutely [illegible] classification of ecological conditions will represent very largely an abstract idea, wanting the logical, concrete botanical complement of the equation—impossible of perfect illumination except by reference to definite plant forms. It is too bad for some "botanists" that there is such a marvelous profusion of plant forms in the world. They should start a "Society for the Extermination of all Plants not Referrable to the Typical Forms described by the Older Botanists." At this time I can only say that I believe the new forms recorded herein to be just as "good" species as the majority of forms recorded for any flora.

As a by-product of the work of the past year there have been incorporated in my permanent herbarium over twenty-five thousand sheets of plants, thus carrying the total to above ninety thousand specimens. Under favorable conditions much more might easily have been done. As in the past this herbarium is always at the service of botanical workers, especially those who have not the advantages of access to public herbaria, and those younger men not in the universities who are laboring under the discouraging conditions that usually surround the worker without a university pedigree. All botanists are cordially invited to visit this herbarium, to examine it, and to make any possible use of it. It is in perfect order and readily accessible.

C. F. BAKER,
Pomona College, Claremont, Cal.

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WEST COAST SERIES III AND IV.

ALGAE.

All the species listed at this time were taken along the Coast of Middle Western California.

3632 Callophyllis variegata (Bory) Kuetz.
3494 Chara foetida Al. Br. form.
3203 Chara intermedia Al. Br. forma americana.
3626 Cladophora sp.
3622 Cladophora sp.
3618 Farlowia compressa J. Ag.
1729 Fucus evanescens Ag. form.
3629 Gigartina canaliculata Harv.
3636 Gigartina papillata (Ag.) J. Ag.
3634 Gigartina Radula (Esper.) J. Ag.
1732 Gigartina sp.
1731 Iridaea laminarioides Bory.
3623 Laurencia pinnatifida (Gmel.) Lamx.
3625 Microcladia borealis Ruprecht.
1726 Microcladia Coulteri Harv.
1728 Nitophyllum Ruprechtianum J. Ag.
3621 Nitophyllum violaceum J. Ag.
3624 Odonthalia floccosa (Esper.) Falkenberg.
3635 Porphyra laciniata (Lightf.) Ag.
1734 Ptilota densa Ag.
3630 Ulva Lactuca (L.) LeJolis.

FUNGI.

*3563 Actinonema Rosae (Lib.) Fr. N. Cal.
*3711 Aecidium Aquilegiae Pers. Oreg.
*3707 Aecidium Clematidis Pers. N. Cal.
*455 Aecidium roestelioides E. & E. M. W. Cal.
*3603 Albugo candida (Pers.) O. Ktze. M. W. Cal.
*3737 Anthostomella pholidigena (Ell.) N. Cal.
2714 Ascobolus stercorarius (Bull.) Schroet. M. W. Cal.
3730 Brachysporium pedunculatum E. & E. S. Cal.
*3719 Calyptospora Goeppertiana Kuhn. N. Cal.
*3605 Camarosporium compositarum (Cke. & Hark.) Sacc. M. W. Cal.
*3744 Clitocybe laccata (Scop.) Fr. M. W. Cal.
*1780 Coleosporium Madiae Cke. M. W. Cal.
*1713 Coleosporium Solidaginis (Schw.) Farl. M. W. Cal.
3576 Corticium corrugae Burt. N. Cal.
*3761 Cryptomyces Pteridis (Rab.) Rehm. N. Cal.
*2771 **Cylindrosporium Californicum** Earle n. sp. S. Cal.
*3753 Cylindrosporium Crataegi E. & E. N. Cal.
*1793 Cylindrosporium Glycyrrhizae Hark. M. W. Cal.
*2683 Diatrype albopruinosa (Schw.) Cke. ? M. W. Cal.
1802 Diatrype asterostoma B. &. C. ? M. W. Cal.
1935 Diatrype asterostoma B. & C. ? M. W. Cal.
*1826 Erysiphe cichoracearum DC. M. W. Cal.
*3771 Erysiphe communis Wallr. N. Cal.
*3774 Erysiphe communis Wallr. N. Cal.
3775 Erysiphe communis Wallr. N. Cal.
*3735 Excipulina conglutinata E. &. E. N. Cal.
*2694 Exidia glandulosa (Bull.) Fr. M. W. Cal.
3585 Gloeosporium Equiseti E. & E. N. Cal.
*3758 Gloeosporium Equiseti E. & E. N. Cal.

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*3757 **Gloeosporium obtegens** Sydow n. sp. N. Cal.
4018 Glonium lineare (Fr.) ? S. Cal.
*1848 Gnomonia Alni Plowr. M. W. Cal.
*3936 Gymnoconia Peckii (Howe.) M. W. Cal.
*3716 **Gymnosporangium aurantiacum** Sydow n. sp. N. Cal.
*2723 Harknessia Eucalypti Cke. M. W. Cal.
*3948 **Harknessia rhoina** E. & E. n. sp. S. Cal.
*2699 Helotium citrinum (Hedw.) Fr. M. W. Cal.
*2660 Helotium sphaerophorioides Phil. & Hark. M. W. Cal.
*3567 Herpotricha nigra Hartig. N. Cal.
*1800 Hymenochaete avellana (Fr.) M. W. Cal.
2656 Hysterographium prominens (Phil & Hark.) Berl & Vogl. M. W. Cal.
2724 **Lachnum atropurpureum** Durand. n. sp. M. W. Cal.
*1820 Lasiobotrys Lonicerae Kze. M. W. Cal.
3952 Lecanidion atratum (Hedw.) Rab. S. Cal.
*1934 Leptosphaeria doliolum (Pers.) DeNot. M. W. Cal.
*1788 Leptosphaeria typharum (Desm.) Karst. M. W. Cal.
*382 **Locellina Californica** Earle n. sp. M. W. Cal.
*3583 Lophodermium pinastri (Schrad.) Chev. N. Cal.
*2650 Melampsora epitea (Kze. & Schw.) Phun. M. W. Cal.
3762 Melampsora Lini (Pers.) Tul. N. Cal.
*3584 **Melomastia Shastensis** Earle n. sp. N. Cal.
2737 Mycosphaerella Umbellulariae (Cke. & Hark.) M. W. Cal.
*2742 **Nectria** n. sp. M. W. Cal.
*3571 Neopeckia Coulteri (Peck) Sacc. N. Cal.
1786 Ophiobolus acuminatus (Sow.) Duby. ? M. W. Cal.
*2644 Periconia byssoides Pers. M. W. Cal.
*2707 Peronospora Claytoniae Farlow. M. W. Cal.
3971 **Phragmidium affine** Sydow n. sp. N. Cal.
*3702 Phragmidium occidentale Arth. Oreg.
*3969 Phragmidium occidentale Arth. Oreg.
*1725 Phragmidium subcorticium (DC.) M. W. Cal.
3710 Phragmidium subcorticium (DC.) N. Cal.
*3761 Phyllachora Pteridis (Cab.) N. Cal.
*3564 Phyllosticta Castanicola E. & E. N. Cal.
*2669 Pitya Cupressi (Batsch.) Fckl. M. W. Cal.
*3013 Pleospora compositarum Earle. M. W. Cal.
2647 Pleospora herbarum (Pers.) Rabh. ? M. W. Cal.
2637 Puccinia Absinthii DC. M. W. Cal.
*3964 Puccinia angustata Pk. N. Cal.
*1735 **Puccinia Bakeri** Arthur n. sp. M. W. Cal.
*3717 Puccinia Bistortae (Spr.) DC. N. Cal.
*1754 Puccinia Boisduvaliae Pk. M. W. Cal.
*3233 Puccinia Californica Diet. & Holw. S. Cal.
*3715 Puccinia Circeae Pers. N. Cal.
1919 Puccinia Cirsii Lasch. M. W. Cal.
*3712 Puccinia Clarkiae Peck. M. W. Cal.
*1716 Puccinia conglomerata Sch. & Kze. M. W. Cal.
*3963 Puccinia crepidicola Sydow. N. Cal.
*1779 Puccinia Epilobii-tetragoni (DC.) Wint. M. W. Cal.
*3965 Puccinia gemella Diet. N. Cal.
*3967 Puccinia Giliae E. & H. N. Cal.
3720 Puccinia graminis Pers. M. W. Cal.
*1795 Puccinia Hemizoniae Ell. & Tracy. M. W. Cal.
*3973 Puccinia inclusa Syd. N. Cal.
3756 Puccinia Menthae Pers. N. Cal.
*4005 Puccinia mesometala B. & C. Oreg.
3703 Puccinia Millefolii Fink. M. W. Cal.
*1825 Puccinia obtecta Pk. M. W. Cal.
*3751 Puccinia Osmorrhizae (Pk.) Cooke & Pk. Oreg.
3232 Puccinia poculiformis (Jacq.) Wetts. M. W. Cal.
*1824 Puccinia Polygoni-amphibii Pers. M. W. Cal.
*1515 Puccinia procera D. & H. M. W. Cal.
*3974 Puccinia punctata Link. N. Cal.
2722 Puccinia rubigo-vera DC. M. W. Cal.
*3778 Puccinia sessilis Schneid. M. W. Cal.
*3289 Puccinia Sherardiana Koern. M. W. Cal.
3713 Puccinia Sphaeralceae E. & E. ? M. W. Cal.
1716 Puccinia subcircinata E. &. E. M. W. Cal.

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*3763 Puccinia Taraxaci Plowr. N. Cal.
*393 Puccinia Troximontis Pk. M. W. Cal.
*3966 Puccinia Veratri Niessl. N. Cal.
*3975 Puccinia Violae (Schum.) DC. N. Cal.
*3976 Puccinia Violae (Schum.) DC. N. Cal.
2769 Puccinia Wyethiae (Pk.) E. & E. M. W. Cal.
*3977 Pucciniastrum Epilobii (Chaill) Otth. N. Cal.
*3803 Pucciniastrum Pirolae (Gmel.) Diet. N. Cal.
*3738 **Ramularia glauca** E. & E. n. sp. M. W. Cal.
*1722 Ramularia sambucina Sacc. M. W. Cal.
*1753 Ramularia silvestris Sacc. M. W. Cal.
*2648 **Rhabdospora Datiscae** Earle n. sp. M. W. Cal.
*3766 Rhytisma lineare Pk. N. Cal.
*2716 Rhytisma punctatum. M. W. Cal.
4019 Rosellinia ovalis (Ell.) S. Cal.
*3745 Schizophyllum commune R. M. W. Cal.
2673 Sepedonium chrysospermum (Bull.) Fr. M. W. Cal.
*1849 Septoria alnifolia E. & E. M. W. Cal.
*3749 **Septoria Chrysamphorae** E. & E. n. sp.
*1752 Septoria Epilobii West. ? M. W. Cal.
*2711 **Septoria** n. sp. M. W. Cal.
*1723 Septoria Populi Desm. M. W. Cal.
*2713 Septoria Rubi West. M. W. Cal.
3750 Septoria Smilacinae E. & M. N. Cal.
*2721 Sphaeropsis rubicola C. & E. M. W. Cal.
*2705 **Sporonema** n. sp. M. W. Cal.
*3956 Stigmina Platani (Fckl.) Sacc. S. Cal.
*2709 **Stysanus** n. sp. M. W. Cal.
*3743 Thelephora radiata (Holmsk.) Fr. M. W. Cal.
3962 Tilletia Elymi Diet. & Holw. N. Cal.
3537 Tryblidiopsis occidentalis Earle. M. W. Cal.
*2718 **Typhula** n. sp. M. W. Cal.
*720 Tuberculariа vulgaris Tode. ? M. W. Cal.
3760 **Uredinopsis Copelandi** Sydow n. sp. N. Cal.
*3714 Uredo Chimaphilae Pk. Oreg.
*3968 **Uredo Copelandi** Sydow n. sp. N. Cal.
*3970 **Uredo Copelandi** Sydow n. sp. N. Cal.
4017 Uromyces Aconiti-Lycoctoni (DC.) Wint. N. Cal.
*1737 Uromyces Astragali Sacc. M. W. Cal.
*3706 Uromyces Astragali Sacc. N. Cal.
*1932 Uromyces Betae (Pers.) Kuhn. M. W. Cal.
*3718 Uromyces brevipes B. & R. N. Cal.
*3014 Uromyces Chlorogali Diet. & Holw. M. W. Cal.
*1807 Uromyces Eriogoni Ell. &. Hark. M. W. Cal.
*3704 Uromyces Eriogoni Ell. & Hark. N. Cal.
*3972 Uromyces Holwayi Lagh. N. Cal.
*3777 Uromyces Hordei Tracy. N. Cal.
*1758 Uromyces Junci (Desm.) Tul. M. W. Cal.
863 Uromyces minor Schrot. M. W. Cal.
*3709 Uromyces Orobi (Pers.) Wint. Oreg.
*1671 Uromyces Peckianus Farl. M. W. Cal.
*3767 Uromyces Polygoni (Pers.) Fckl. M. W. Cal.
*3705 Uromyces Rumicis (Schum.) Wint. M. W. Cal.
1940 Uromyces Trifolii (Hedw.) Lev. M. W. Cal.
*3708 Uropyxis mirabilissima (Pk.) Magn. Oreg.
*3752 Ustilago bromivora (Tul.) F. de W. N. Cal. (or U. bromina Erikss.)
*3776 Ustilago Holwayi Diet. N. Cal.

LICHENS.

*3940 Acolium Bolanderi Tuck. S. Cal.
*3594 Alectoria Fremonti Tuck. N. Cal.
1933 pt. Buellia myriocarpa (DC) Mudd. forma quercicola Rabh. M. W. Cal.
*3595 Cetraria saepincola (Ehrh.) Ach. N. Cal.
*2761 Cladonia bellidiflora (Ach.) Schaer. M. W. Cal.
2762 Cladonia fimbriata (L.) Fr. M. W. Cal.
*2764 Cladonia furcata (Huds.) Fr. a crispa Fl. M. W. Cal.
*2757 Cladonia gracilis (L.) Fr. M. W. Cal.

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*3941 Cladonia pydidata (L.) Fr. S. Cal.
2760 Collema nigrescens (Huds.) Ach. M. W. Cal.
*3943 Endocarpon rufescens Ach. S. Cal.
3591 Evernia vulpina (L.) Ach. N. Cal.
*3957 Lecanora calcarea (L.) S. Cal.
*3593 Lecanora calcarea (L.) Somm. var. contorta Nyl. form monstrosa Cromb. N. Cal.
1913 pt. Lecanora cinerea Somm. M. W. Cal.
*3946 Lecanora muralis (Schreb.) Schaer. S. Cal.
3592 Lecanora muralis (Schreb.) Schaer. a. saxicola Schaer. N. Cal.
*3960 Lecanora rugosa Nyl. S. Cal.
*3945 Lecanora Schleicheri (Ach.) Nyl. S. Cal.
1913 pt. Lecanora sordida (Pers.) Fr. M. W. Cal.
*3959 Lecanora varia (Ehrh.) Nyl. S. Cal.
*3950 Lecidea auriculata Th. Fr. var. paupera Nyl. S. Cal.
*3958 Lecidea sarcogyniza Nyl. S. Cal.
*2759 Pannaria lepidiota Fr. b. coralliphora Tuck. M. W. Cal.
*3944 Parmelia conspersa (Ehrh.) Ach. S. Cal.
3599 Physcia stellaris (L.) var. aipolia Nyl. N. Cal.
*3597 Placodium elegans (Link.) DC. var. tenuis Ach. N. Cal.
1933 pt. Rinodina sophodes (Ach.) Nyl. var. exigua Fr. M. W. Cal.
2758 Sticta anthraspis Ach. M. W. Cal.
*3947 Theloschistes chrysophthalmus (L.) Norm. S. Cal.
3596 Umbilicaria angulata Tuck. N. Cal.
3598 Urceolaria scruposa (L.) Nyl. S. Cal.
*3942 Urceolaria scruposa (L.) Nyl. S. Cal.
2763 Usnea barbata (L.) Fr. c. dasypoga Fr. M. W. Cal.

BRYOPHYTES.

1905 Aneura multifida Dum. M. W. Cal.
3157 Anthoceros fusiformis Austin. M. W. Cal.
1589 Aulacomnium androgynum Schw. B. C.
*1593 Bryum bimum Schreb. B. C.
*1587 Bryum cuspidatum Sch. B. C.
1594 Bryum pseudotriquetrum Schw. ? B. C.
355 **Bryum subdrepanocarpum** Card. & Ther. sp. nov. S. Cal.
*1585 Camptothecium nitens Br. Eur. B. C.
3157b Cephalozia Turneri (Hooker) M. W. Cal.
558 Ceratodon purpureus Brid. forma B. C.
1533 Ceratodon purpureus Brid. B. C.
566 pt. Claopodium leuconeuron R. C. B. C.
598 Climacium dendroides F. & M. B. C.
1535 Dicranum Howellii R. C. B. C.
583 Eurhynchium oreganum (Sulliv.) B. C.
1531 Eurhynchium Stokesii Br. Eur. B. C.
566 pt. Fissidens limbatus Sulliv. B. C.
*789 Fontinalis antipyretica L. form near var. rigens Card. B. C.
2755 Frullania Bolanderi Austin. M. W. Cal.
1986 Frullania Californica Evans. M. W. Cal.
1580 Funaria hygrometrica Hedw. B. C.
*519 Grimmia pachyneurula C. M. forma B. C.
*410 Hylocomium triquetrum Br. Eur. B. C.
1582 Hylocomium triquetrum Br. Eur. B. C.
*1592 Hypnum falcatum Brid. B. C.
1530 Hypnum subimponens Lesq. B. C.
571 Isothecium Brewerianum (Lesq.) B. C.
*791 Isothecium myosuroides Brid. var. spiculiferum (L. & J.) B. C.
*1584 Leptobryum pyriforme Br. Eur. B. C.
1975 Madotheca navicularis L. M. W. Cal.
*1537 Mnium venustum Mitt. B. C.
*1586 Philonotis fontana Brid. forma B. C.
580 **Polytrichum** commune L. B. C.
1532 Polytrichum juniperinum Willd. B. C.
*570 Pterogonium gracile Sw. form near var. Californicum RC. M. W. Cal.
350 Scleropodium cespitosum Br. Eur. M. W. Cal.
569 Scleropodium colpophyllum (Sulliv.) Grout. B. C.
*574 Sphagnum recurvum PB. var. parviflorum Warnst. B. C.
600 Tetarphis geniculata Girg. B. C.

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SPERMAPHYTES and FERNS.

A small *s* before a number denotes its issuance in the supplementary series.

*2981 Acer macrophyllum Pursh form. M. W. Cal.
*s3675 Acer macrophyllum Pursh form. S. Cal.
*3546 Achillaea lanulosa Nutt. N. Cal.
*s2795 Achyrachaena mollis Schauer. M. W. Cal.
*s3384 Achyrachaena mollis Schauer. M. W. Cal.
*3528 Achyrachaena mollis Schauer. form. N. Cal.
*3925 Adenocaulon bicolor Hook. N. Cal.
*3357 Adenostegia maritima (Nutt.) Greene. M. W. Cal.
3245 Adenostegia mollis (Gray) Greene· M. W. Cal.
*3655 Adenostegia rigida Bth. S. Cal.
3194 Adenostoma fasciculatum H. & A. M. W. Cal.
*3859 Adiantum pedatum L.
var. **praeflexum** Copeland n. var. N. Cal.
2834 Agoseris apargioides (Less.) Greene M. W. Cal.
3212 Agoseris grandiflora (Nutt.) Greene. M. W. Cal.
2831 Agoseris heterophylla (Nutt.) Greene. M. W. Cal.
*s3068 Agoseris heterophylla (Nutt.) Greene M. W. Cal.
3296 Agoseris heterophylla (Nutt.) Greene. M. W. Cal.
*2880 Agoseris major Jepson. M. W. Cal.
*3542 Agropyrum spicatum S. & S.
var. tenuispicum Rydb. Oreg.
*3903 Agrostis elata Trin. N. Cal.
3333 Agrostis exarata Trin. M. W. Cal.
*3308 Agrostis microphylla Steud. M. W. Cal.
*3342 Alisma Plantago-aquatica L. M. W. Cal.
3021 Allium attenuifolium Kell. M. W. Cal.
*3380 Allocarya Californica (DC) Greene. S. Cal.
*3046 Allocarya Californica (F. & M.
var. **debilis** Greene n. var. M. W. Cal.
3322 Allocarya Chorisiana (Cham.) Greene. M. W. Cal.
3207 **Allocarya propinqua** Greene n. sp. M. W. Cal.
*2788 Allocarya stipitata Greene form. M. W. Cal.
*2799 Allocarya stipitata Greene form. M. W. Cal.
2894 Allocarya stipitata Greene form. M. W. Cal.
*3667 Alnus oblongifolia Torr. S. Cal.
*3677 Alopecurus Californicus Vascy. S. Cal.
*1855 Amarantus Californicus (Moq.) Wats. M. W. Cal.
*2964 **Amelanchier subintegra** Greene n. sp. M. W. Cal.
3500 Ammannia coccinea Rottb. N. Cal.
*1952 Amsinckia lycopsoides Lehm. form. M. W. Cal.
*3424 Amsinckia lycopsoides Lehm. form. S. Cal.
*2779 **Amsinckia obvallata** Greene n. sp. M. W. Cal.
*2888 Ancistrocarphus filagineus Gray. M. W. Cal.
*3406 Andropogon saccharoides
var. Torreyanus Hack. S. Cal.
3266 Anemopsis Californica H. & A. M. W. Cal.
*3354 Angelica tomentosa Wats. M. W. Cal.
*3882 Anisocarpus Bolanderi Gray. N. Cal.
*3079 **Anisocarpus pumilus** Greene n. sp. M. W. Cal.
*2873 Anogra Californica (Wats.) Small. M. W. Cal.
3330 Aphyllon comosum Gray. M. W. Cal.
*3428 Apiastrum angustifolium Nutt. S. Cal.
*3247 **Apocynum palustre** Greene n. sp. M. W. Cal.
*3544 Apocynum pumilum Greene N. Cal.
*s 3673 Aquilegia truncata F. & M. S. Cal.
*1881 Arabis blepharophylla H. & A. M. W. Cal.
*3914 Arabis platysperma Gray N. Cal.
*1957 Arbutus Menziesii Pursh. M. W. Cal.
*3161 Arctostaphylos auriculata Eastwood. M. W. Cal.
*3160 Arctostaphylos canescens Eastwood. M. W. Cal.
*s3994 Arctostaphylos canescens East. M. W. Cal.
*3997 **Arctostaphylos Cushingiana** Eastw. n. sp. M. W. Cal.

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*3167 Arctostaphylos glandulosa Eastw. M. W. Cal.
*s3995 Arctostaphylos glandulosa Eastw. M. W. Cal.
*3172 Arctostaphylos Hookeri Don. M. W. Cal.
*3170 Arctostaphylos manzanita Parry form. M. W. Cal.
*3165 Arctostaphylos montana Eastw. M. W. Cal.
*s3996 Arctostaphylos montana Eastw. M. W. Cal.
*3520 Arctostaphylos Nevadensis Gray. N. Cal.
*3241 Arctostaphylos nummularia Gray. M. W. Cal.
*3173 Arctostaphylos pumila Nutt. M. W. Cal.
*1966 Arctostaphylos tomentosa Dougl. M. W. Cal.
*4000 Arctostaphylos vestita Eastw. M. W. Cal.
*3158 **Arctostaphylos virgata** Eastw. M. W. Cal.
*s3999 Arctostaphylos virgata Eastw. M. W. Cal.
*3519 Arctostaphylos viscida Parry. N. Cal.
*3171 Arctostaphylos viscida Parry. M. W. Cal.
*2957 Arenaria Californica Brewer. M. W. Cal.
*3908 Arenaria congesta Nutt. form. N. Cal.
3364 Arenaria Douglasii T. & G. S. Cal.
*3907 Arenaria Nuttallii Pax. N. Cal.
*3870 Arenaria pungens Nutt. N. Cal
*3217 Argentina Anserina (L.) Rydb. M. W. Cal.
*3488 Aristida oligantha Mx. M. W. Cal.
*3044 Aristolochia Californica Torr. M. W. Cal.
3007 Arnica discoidea Bth. M. W. Cal.
*3909 Arnica discoidea Bth. N. Cal.
*3476 Arnica Parryi Gray. Oreg.
*3250 Asarum caudatum Lindl. M. W. Cal.
*3509 Asarum Hartwegi Wats. N. Cal.
*2871 Asclepias Californica Greene. M. W. Cal.
2086 Asclepias ecornuta Kell. M. W. Cal.
*s3558 Asclepias fasicularis Decaisne. N. Cal.
*1967 Aster Chilensis Nees. var. M. W. Cal.
*3867 **Aster Copelandi** Greene n. sp.
*3869 Aster Torreyi Porter. N. Cal.
*3821 Aster Yosemitanus Greene form. N. Cal.
*3164 Astragalus Breweri Gray. M. W. Cal.
*2782 Astragalus didymocarpus H. &. A. M. W. Cal.
3358 Astragalus Douglasii Gray. M. W. Cal.
*3842 Astragalus Hookerianus (T. & G.) Gray. N. Cal.
*2818 Astragalus leucophyllus (T. & G.) M. W. Cal.
3027 Athysanus pusillus (Hook.) Greene M. W. Cal.
*3321 Atriplex leucophyllus (Moq.) Dietr. M. W. Cal.
*1850 Atriplex patula L. M. W. Cal.
*1833 Azolla Caroliniana Willd. M. W. Cal.
*1939 Baccharis glutinosa Pers. M. W. Cal.
*s2829 Baeria chrysostoma F. & M. M. W. Cal.
*2867 Baeria Fremontii (Bth.) Gray form. M. W. Cal.
*s2896 Baeria Fremontii (Bth.) Gray. M. W. Cal.
*2898 Baeria Fremontii (Bth.) Gray form. M. W. Cal.
*3038 Baeria gracilis Gray. M. W. Cal.
3338 Baeria macrantha Gray var. M. W. Cal.
*2962 **Baeria punctata** Greene n. sp. M. W. Cal.
1890 Baeria sp. M. W. Cal.
1941 Baeria sp. M. W. Cal.
*2857 **Baeria subciliata** Greene n. sp. M. W. Cal.
*2789 Baeria tenella (Nutt.) Greene. M. W. Cal.
*s1997 Batrachium Lobbii (Hiern.) Howell. M. W. Cal.
*3163 Batrachium Lobbii (Hiern.) Howell. M. W. Cal.
*3062 **Batrachium pedunculare** Greene n. sp. M. W. Cal.
3276 Batrachium trichophyllum (Chaix.) Bossch. M. W. Cal.
*3810 Berberis repens Lindl. N. Cal.
*3502 Bergia Texana Seabert. N. Cal.
*3459 Bicuculla chrysantha Coville. S. Cal.
*3727 Bidens expansa Greene. S. Cal.
3729 Bidens pilosa L. S. Cal.
*1987 Blepharipappus Douglasii (H. & A.) Greene. M. W. Cal.
*2900 Blepharipappus Douglasii (H. & A.) Greene. M. W. Cal.
*2903 Blepharipappus Douglasii (H. & A.) Greene form. M. W. Cal.

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1894 Blepharipappus Douglasii (H. & A.) Greene
var. oligochaeta Greene. M. W. Cal.
*2878 Blepharipappus Fremontii (T. & G.) Greene M. W. Cal.
*s3039 Blepharipappus Fremontii (T. & G.) Greene M. W. Cal.
*2939 Blepharipappus heterotrichus (DC) Greene M. W. Cal.
*s1876 Blepharipappus hieracioides (H. & A.) Greene M. W. Cal.
2836 Blepharipappus platyglossus (F. & M.) Greene. M. W. Cal.
*s2874 Blepharipappus platyglossus (F. & M.) Greene M. W. Cal.
3418 Blepharipappus platyglossus (F. & M.) Greene S. Cal.
3213 Boisduvalia cleistogama Curran M. W. Cal.
*3543 Boisduvalia densiflora (Lindl.) Wats. N. Cal.
3206 Boisduvalia stricta (Gray) Greene M. W. Cal.
*3176 Bolelia bicornuta (Gray) Greene M. W. Cal.
3284 Bolelia bicornuta (Gray) Greene M. W. Cal.
*2895 Bolelia concolor Greene. M. W. Cal.
*3057 Bolelia concolor Greene form. M. W. Cal
*3285 Bolelia insignis Greene M. W. Cal.
*3471 Bolelia insignis Greene ? Oreg.
*s2901 Bolelia ornatissima Greene M. W. Cal.
*2917 Bolelia ornatissima Greene form. M. W. Cal.
3425 Bolelia pulchella (Torr.) Greene. S. Cal.
*3049 Briza media L. M. W. Cal.
3790 Bromus marginatus Nees. N Cal.
*s3303 Bromus marginatus Nees.
var. latior Shear M. W. Cal.
*3680 Bromus maximus Desf.
var. Gussoni (Parlat.) S. Cal.
*3201 Cacaliopsis Nardosmia Gray. M. W. Cal
*3191 Calliprora ixioides (Ait.) Greene M. W. Cal.
*s1998 Callitriche palustris L. M. W. Cal.
*2772 Callitriche palustris L M. W. Cal.
*3123 Calochortus caeruleus Wats. M. W. Cal.
2929 Calochortus luteus Dougl. M. W. Cal.
*3187 Calochortus luteus Dougl. M. W. Cal.
*2622 Calochortus pulchellus Dougl. M. W. Cal.
*3420 Calochortus splendidus Dougl. S. Cal.
*1979 Calochortus uniflorus H. & A. M. W. Cal.
*3547 Calycadenia scabrella Greene N. Cal.
*3007 Calyptridium umbellatum (Torr.) Greene form. N. Cal.
*3844 Campanula scabrella Eng. N. Cal.
*3911 Campanula Scouleri Hook. N. Cal.
*3492 Caprifolium interruptum (Bth.) Greene N. Cal.
*3934 Carduus Breweri (Gray) Greene N. Cal.
*2840 Carduus occidentalis Nutt. M. W.
2860 Carduus quercetorum (Gray) Greene. M. W. Cal.
*3316 Carduus quercetorum (Gray) Greene. M. W. Cal.
*3866 Carex arthrostachya Olney. N. Cal.
*3517 Carex Breweri Boott. N. Cal.
*3483 Carex monile Tuckm. Oreg.
*3780 Carex multicaulis Bail. N. Cal.
*3893 Carex straminiformis Bail. N. Cal.
*3898 Cassiope Mertensiana (Bong.) Don. N. Cal.
*3835 Castanopsis sempervirens Dudley. N. Cal.
3189 Castilleia candens Durand. M. W. Cal.
*1879 Castilleia Douglasii Bth form M. W. Cal.
*s2630 Castilleia foliolosa H. & A. M. W. Cal.
*3697 Castilleia stenantha Gray. S. Cal.
*3018 Caucalis nodosa Huds. M. W. Cal.
*s2975 Ceanothus cuneatus Nutt. M W. Cal.
*3162 Ceanothus cuneatus Nutt
var. ramulosus Greene. M. W. Cal.
*s3998 Ceanothus cuneatus Nutt.
var. ramulosus Greene. M. W. Cal.
*s3002 Ceanothus foliosus Parry form. M. W. Cal.
*3159 Ceanothus foliosus Parry. M. W. Cal.
*4001 Ceanothus Jepsoni Greene. M. W. Cal.
*3004 Ceanothus Nevadensis Kell. M. W. Cal.
*s3174 Ceanothus sorediatus H. & A. M. W. Cal.
*s1961 Ceanothus thyrsiflorus Esch. M. W. Cal.
*2875 Centromadia pungens (H. & A.) Greene M. W. Cal.

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3419 Centunculus minimus L. S. Cal.
*2849 Cerastium patulum Greene. M. W. Cal.
3195 Cerasus ilicifolia Nutt. M. W. Cal.
3670 Cerasus ilicifolia Nutt. S. Cal.
*2935 Cercis occidentalis Torr. M. W. Cal.
*3045 Cercis occidentalis Torr. M. W. Cal.
*s3504 Cercocarpus betulaefolius Nutt. N. Cal.
*3446 Cercocarpus betulaefolius Nutt. S. Cal.
*3562 Cercocarpus ledifolius Nutt. N. Cal.
*2967 Chaenactis gracilenta Greene form M. W. Cal.
*2940 Chaenactis lanosa DC. M. W. Cal.
*3006 Chaenactis tanacetifolia Gray M. W. Cal.
2893 Cheiranthus asper Nutt. M. W. Cal.
*3237 Cheiranthus capitatus Dougl. M. W. Cal.
*3828 Chimaphila umbel'ata Nutt. N. Cal.
2992 Chorizanthe membranacea Bth. M. W. Cal.
*2842 Chorizanthe pungens Bth. M. W. Cal.
*3912 Chrysamphora Californica Greene. N. Cal.
*3669 Chrysopsis fastigiata Greene. S. Cal.
*3922 Chrysothamnus Bloomeri (Gray) Greene N. Cal.
3668 Chrysothamnus Mohavensis Greene. S. Cal.
*2982 Clarkia concinna (F. & M.) Greene. M. W. Cal.
*3891 Claytonia alsinoides Sims N. Cal.
*2611 Claytonia gypsophiloides F. & M. form M. W. Cal.
*2817 Claytonia gypsophiloides F. & M. form M. W. Cal.
*s3397 Claytonia perfoliata Don. S Cal.
1884 Claytonia spathulata Dougl. M. W. Cal.
*2816 Claytonia spathulata Dougl. M. W. Cal.
*2946 Clematis lasiantha Nutt. M. W. Cal.
*3458 Clematis ligusticifoli« Nutt. S. Cal.
*3839 Clintonia uniflora Kunth. N. Cal.
3672 Coleosanthus Californicus Ktze. S. Cal.
*3696 Coleosanthus Californicus Ktze. S. Cal.
*3731 Coleosanthus Nevinii (Gray) Heller S. Cal.
*1984 Collinsia arvensis Greene M. W. Cal.
*2783 Collinsia corymbosa Herd. M. W. Cal.
*3932 Collomia grandiflora Dougl. N. Cal.
*2968 Convolvulus collinus Greene.
*3926 Corallorhiza Bigelovii Wats. N. Cal.
*3850 Cornus Nuttallii Audobon. N. Cal.
3326 Coronopus didymus (L.) Smith. M. W. Cal.
*3225 Cotula coronopifolia L. M. W. Cal.
*3755 Crepis intermedia Gray var. pleurocarpa Gray. N. Cal.
*2825 Croton Californicus Muell. Arg. M. W. Cal.
*3700 Croton Californicus Muell. Arg. S. Cal.
*s3445 Croton setigerus Hook. form. S. Cal. (see Eremocarya)
*2886 **Cryptanthe abortiva** Greene n. sp. M. W. Cal.
*3003 Cryptanthe flaccida (Dougl.) Greene. M. W. Cal.
3253 Cryptanthe flaccida (Dougl.) Greene. M. W. Cal.
*2966 **Cryptanthe hispidula** Greene n. sp. M. W. Cal.
*3416 Cryptanthe intermedia (Gray) Greene. S. Cal.
2835 Cryptanthe leiocarpa (F. & M.) Greene. M W. Cal.
3698 **Cryptanthe membranacea** Greene n. sp. S. Cal.
*2810 Cryptanthe micromeres (Gray) Greene. M. W Cal.
2787 Cryptanthe muriculata (A. DC.) Greene. M. W. Cal.
*1761 Cuscuta arvensis Beyrich. M. W. Cal.
*3489 Cyperus aristatus Rottb. M. W. Cal.
*3490 Cyperus virens Mx. M. W. Cal.
*3209 Dactylis glomerata L. M. W. Cal.
*3282 Damasonium Californicum Torr. M. W. Cal.
3292 Datura meteloides DC. M. W. Cal.
*2843 Daucus pusillus Mx. M. W. Cal.
3054 Daucus pusillus Mx. M. W. Cal.
3251 Delphinium Emiliae Greene. M. W. Cal.
*3413 Delphinium Parryi Greene. M. W. Cal.
*s2617 Dentaria sinuata Greene. M. W. Cal.
*3681 Deschampsia calycina Presl. S. Cal.
3468 Deschampsia elongata Munro. Oreg.
*3912 Deschampsia elongata Munro. N. Cal.
*3305 Deschampsia holciformis Presl. M. W. Cal.
*s2612 Dichelostemma capitatum (Bth.) Wood. M. W. Cal.
3181 Dichelostemma congestum (Smith) Kunth. M. W. Cal.

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623 Dichelostemma pulchellum (Salisb.) Greene. M. W. Cal.
*s1918 Distegia Ledebourii (Esch.) Greene. M. W. Cal.
*s2616 Dodecatheon cruciatum Greene. M. W. Cal.
*1945 **Dodecatheon laetiflorum** Greene n. sp. M. W. Cal.
3825 Eleocharis acicularis L. N. Cal.
3280 Eleocharis arenicola Torr. M. W. Cal.
*3556 Eleocharis arenicola Torr. N. Cal.
*s3182 Eleocharis palustris R. Br. M. W. Cal.
*3493 Elymus Caput-medusae L. N. Cal.
*3540 Elymus Macounii Vasey form. N. Cal.
*3290 Epilobium Californicum Hausskn. M. W. Cal.
3328 Epilobium Franciscanum Barbey. M. W. Cal.
*3857 Epilobium obcordatum Gray. N. Cal.
3723 Epilobium occidentale. N. Cal.
*1965 Equisetum hiemale L.
var. Californicum Milde form. M. W. Cal.
*3451 **Erigeron Antoninus** Greene n. sp. S. Cal
*3234 Erigeron Californicus Jepson. M. W. Cal.
*3658 Erigeron foliosus Nutt. S. Cal.
2848 Erigeron glaucus Ker. M. W. Cal.
*3531 Erigeron inornatus Gray. N. Cal.
*s2930 Eriodictyon Californicum (H. & A.) Greene. M. W. Cal.
*3813 **Eriogonum Copelandi** Greene n. sp. N. Cal.
*3525 Eriogonum elatum Dougl. N. Cal.
*s1561 Eriogonum gracile Bth. S. Cal.
*3359 Eriogonum latifolium Smith. M. W. Cal.
*3916 Eriogonum marifolium T. & G. N. Cal.
*3484 Eriogonum polifolium Bth. S. Cal.
*3807 Eriogonum pyrolaefolium Hook. N. Cal.
*3496 Eriogonum speciosum Drew. N. Cal.
*3526 Eriogonum sulphureum Greene form. N. Cal.
*2833 Eriogonum truncatum T. &. G. M. W. Cal.
*3528 Eriogonum vimineum Dougl. N. Cal.
2934 Eriophyllum achillaeoides Greene M. W. Cal.
3190 Eriophyllum achillaeoides Greene. M. W. Cal.
3461 Eriophyllum confertiflorum Gray. S. Cal.
3275 Eriophyllum lanatum Forbes. M. W. Cal.
*3819 Eryngium Harknessii Curran. N. Cal.
*3197 Erythraea Douglasii Gray. M. W. Cal.
*3398 Erythraea venusta Gray. S. Cal.
*3202 Erythronium giganteum Lindl. M. W. Cal.
*3088 **Eschscholtzia apiculata** Greene n. sp. M. W. Cal.
*2906 **Eschscholtzia arvensis** Greene n. sp. M. W. Cal.
*3094 Eschscholtzia caespitosa Bth. M. W. Cal.
3188 Eschscholtzia caespitosa Bth. M. W. Cal.
*2999 Eschscholtzia Californica Cham. M. W. Cal.
*3387 Eschscholtzia Clevelandi Greene. S. Cal.
*3532 **Eschscholtzia confinis** Greene n. sp. N. Cal.
*2969 Eschscholtzia Douglasii (H. & A.) Walp. M. W. Cal.
*2995 **Eschscholtzia dumetorum** Greene n. sp. M. W. Cal.
*2614 **Eschscholtzia formosa** Greene n. sp. M. W. Cal.
3055 Eschscholtzia pulchella Greene. M. W. Cal.
*3826 Eulophus Bolanderi C. & R. N. Cal.
3664 Eunanus brevipes (Bth.) Greene. S. Cal.
*2923 Eunanus tricolor (Lindl.) Greene. M. W. Cal.
*2615 Euphorbia leptocera Eng. form. M. W. Cal.
*2845 Euphorbia leptocera Eng. form. M. W. Cal.
1920 Festuca occidentalis Hooker. M. W. Cal.
*2626 Filago Californica Nutt. M. W. Cal.
3404 Filago Californica Nutt. S. Cal.
*1916 Floerkea Douglasii (R. Br.) Baillon. M. W. Cal.
*s1991 Floerkea Douglasii (R. Br.) Baillon. M. W. Cal.
*s1959 Fragaria Californica Ch & Schl. M. W. Cal.
2839 Fragaria sericea Dougl. M. W. Cal.
*3313 Frankenia grandiflora Ch & Schl.
3355 Fraxinus Oregana Nutt. M. W. Cal.

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*3559 Fraxinus Oregana Nutt. N. Cal.
*2972 Fremontodendron Californicum(Torr.) Coville. M. W. Cal.
2618 Fritillaria mutica Lindl. M. W. Cal.
3455 Galium angustifolium Nutt. S. Cal.
*3779 Galium Bolanderi Gray. N. Cal.
*3475 Galium triflorum Mx. Oreg.
*s3651 Garrya elliptica Dougl. S. Cal.
*s3169 Garrya elliptica Dougl. S. Cal.
*3168 Garrya rigida Eastwood. M. W. Cal.
*3829 Gentiana calycosa Griseb. N. Cal.
*2919 Gilia aggregata Spreng. N. Cal.
*3560 Gilia capillaris Kell. N. Cal.
*2959 Gilia capitata Dougl. M. W. Cal.
*2846 Gilia Chamissonis Greene. M. W. Cal.
*3345 Gilia filifolia Nutt. S. Cal.
*s885 Gilia inconspicua Dougl. M. W. Cal.
*s1899 Gilia inconspicua Dougl. M. W. Cal.
*2951 Gilia inconspicua Dougl. form. M. W. Cal.
*3400 Gilia multicaulis Bth. ? S. Cal.
*2805 Gilia staminea Greene. M. W. Cal.
*s1942 Gilia tricolor Bth. M. W. Cal.
2956 Githopsis specularioides Nutt. M. W. Cal.
*3244 Glaux maritima L. M. W. Cal.
*3311 Gnaphalium Chilense var. confertifolium Greene. M. W. Cal.
*1860 Gnaphalium palustre Nutt. form M. W. Cal.
*s3533 Gnaphalium palustre Nutt. N. Cal.
*s3312 Gnaphalium purpureum L. M. W. Cal
*2902 Godetia Arnottii Walp. M. W. Cal.
3665 Godetia Bottae Spach. S. Cal.
*2884 Godetia lepida Lindl. M. W. Cal.
*2891 Godetia tenella (Cav.) Wats. form. M. W. Cal.
*3060 Godetia tenella (Cav) Wats. form. M. W. Cal.
*3332 Godetia viminea (Dougl) Spach. M. W. Cal.
*3781 Gormania retusa Britton. N. Cal.
*3216 Grindelia paludosa Greene. M. W. Cal.
*2916 Grindelia patens Greene. M. W. Cal.
*3927 Gyrostachys Romanzoffiana McM. N. Cal.
3191 Harpaecarpus exiguus (Smith) Gray. M. W. Cal.
*3864 Hastingsia alba Wats. N. Cal.
*3732 Hazardia squarrosa (H. & A.) Greene S. Cal.
2973 Helianthemum scoparium Nutt. M. W. Cal.
*3193 Helianthemum scoparium Nutt. M. W. Cal.
3386 Helianthemum scoparium Nutt. S. Cal.
*3350 Hemizonia grandiflora Abrams. M. W. Cal.
*2802 Hesperomecon angustum Greene. M. W. Cal.
*2926 Hesperoscordum lacteum Lindl. M. W. Cal.
*3847 Heterocodon rariflorum Nutt. N. Cal.
3184 Hookera Californica (Lindl) Greene M. W. Cal.
3179 Hookera coronaria Salisb. M. W. Cal.
*3220 Hookera coronaria Salisb M. W. Cal.
3297 Hookera minor (Wats.) Britten. M. W. Cal.
3334 Hordeum murorum L. M. W. Cal.
*3304 Hordeum nodosum L. M. W. Cal.
*3682 Hordeum pusillum Nutt S. Cal.
*3865 Horkelia tridentata Torr. N. Cal.
*3083 Hydrophyllum occidentale Gray. M. W. Cal.
*3401 Hymenoclea monogyna T. & G. S. Cal.
2974 Hypericum concinnum Bth. M. W. Cal.
*3832 Hulsea nana Gray N. Colo.
*3052 Iris Hartwegi Baker form. M. W. Cal.
*3095 Iris Hartwegi Baker form. M. W. Cal.
*1947 Iris macrosiphon Torr. M. W. Cal.
*3405 **Isocoma decumbens** (Brand) Greene n. sp. S. Cal.
*s3426 Isocoma vernonioides Nutt. S. Cal.
*3281 Isoetes melanopoda J. Gay. M. W. Cal.
*3427 Isomeris arborea Nutt. S. Cal.
*3539 Iva axillaris Pursh N. Cal.
*3248 Iva axillaris Pursh. var. pubescens Gray. M. W. Cal.
*3910 Ivesia Gordoni T. & G. N. Cal.
*s3279 Juncus bufonius L. M. W. Cal.
*s3556 Juncus bufonius L. N Cal.
*3287 Juncus dubius Eng M. W. Cal.
3270 Juncus Leseurii Boland. M. W. Cal.
3211 Juncus oxymeris Eng. M. W. Cal.
*3437 Juncus patens Meyer. M. W. Cal.
*3341 Juncus sp. near longistylis. M. W. Cal.
*3375 Juncus triformis Eng. S. Cal.
*3782 Juniperus Sibirica Burgsdorff. N. Cal.
*3516 Kelloggia galioides Torr. N. Cal.
*3678 Koeleria cristata (L) Pers. S. Cal.
*3449 Koellia Torreyi (Bth.) Ktze. S. Cal.

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*2892 Lagophylla dichotoma Bth. N. W. Cal.
*1950 Lasthenia Californica Lindl. form. M. W. Cal.
*1956 Lasthenia Californica Lindl. form. M. W. Cal.
*2918 Lasthenia Californica Lindl. form. M. W. Cal.
3271 Lasthenia Californica Lindl. form.
*2768 Lasthenia uliginosa (Nutt.) Greene. M. W. Cal.
*3226 Lathyrus Jepsonii Greene. M. W. Cal.
*s1893 Lathyrus puberulus White. M. W. Cal.
*s2607 Lathyrus puberulus White. M. W. Cal.
*s2922 Lathyrus puberulus White. M. W. Cal.
*s2944 Lathyrus puberulus White. N. W. Cal.
3431 **Lepidium** nitidum Nutt. S. Cal.
*3671 Lepidospartum squamatum Gray. S. Cal.
3652 Leptodactylon Californicum H. & A. S. Cal.
*3444 Lessingia glandulifera Gray. S. Cal.
3368 Leptosyne Douglasii DC. S. Cal.
*3913 Libocedrus decurrens Torr. N. Cal.
*3064 **Linanthus asprellus** Greene n. sp. M. W. Cal.
3066 Linanthus ciliatus (Bth.) Greene. M. W. Cal.
*3260 **Linanthus croceus** Eastwood n. sp. M. W. Cal.
*s3030 Linanthus dichotomus Bth. M. W. Cal.
*2883 Linanthus filipes (Bth.) Greene. M. W. Cal.
*s2864 Linanthus liniflorus (Bth.) Greene. M. W. Cal.
*2958 Linanthus parviflorus (Bth.) Greene. M. W.
*3452 Linanthus pharnaceoides (Bth.) Greene S. Cal.
*3300 Linanthus rosaceus Greene var. M. W. Cal.
679 Linanthus tenellus (Bth.) Greene. M. W. Cal.
3889 Linnaea longiflora (Torr.) Howell N. Cal.
*3472 Linum digynum Grey. Oreg.
3307 Linum Lewisii Pursh. M. W. Cal.
*3561 Linum micranthum Gray. N. Cal.
3928 Listera convallarioides (Sw.) Torr. N. Cal.
*2811 Lithophragma Bolanderi Gray. M. W. Cal.
*3699 Lobelia Rothrockii Greene. S. Cal.
*2961 Lomatium macrocarpum (Nutt.) C. & R. M. W. Cal.
2971 **Lomatium n. sp.** M. W. Cal.
*2621 Lomatium utriculatum (Nutt.) C. & R. M. W. Cal.
3252 Lomatium utriculatum (Nutt.) C. & R. M. W. Cal.
*3063 Lomatium utriculatum (Nutt.) C. & R. M. W. Cal.
3495 Lotus Americanus Bisch. N. Cal.
*3001 Lotus crassifolius (Bth.) Greene. M. W. Cal.
*2997 Lotus glaber (Vogel) Greene form. M. W. Cal.
*3196 Lotus glaber (Vogel) Greene form. M. W. Cal.
3433 Lotus hamatus Greene. S. Cal.
*s2605 Lotus humistratus Greene. M. W. Cal.
*s2947 Lotus humistratus Greene. M W. Cal.
*2993 Lotus leucophyllus Greene. M. W. Cal.
*s2855 Lotus rubellus (Nutt. Greene M. W. Cal.
*s2777 Lotus Wrangelianus F. & M. M. W. Cal.
*s2821 Lupinus affinis Agh. M. W. Cal.
*s1937 Lupinus albifrons Bth. M. W. Cal.
*s2823 Lupinus albifrons Bth. M. W. Cal.
*3527 Lupinus albifrons Bth. N. Cal.
*1889 Lupinus albifrons Bth. var. collinus Greene. M. W. Cal.
*s1969 Lupinus apricus Greene. M. W. Cal.
*s2960 Lupinus apricus Greene. M. W. Cal.
*2837 Lupinus bicolor Lindl. M. W. Cal.
*2920 Lupinus Bridgesii (Wats.) Greene. M. W. Cal.
*3229 Lupinus Bridgesii (Wats.) Greene. M. W. Cal.
3230 Lupinus Bridgesii (Wats.) Greene. var. M. W. Cal.
1928 **Lupinus carnosulus** Greene n. sp. M. W. Cal.
*2623 Lupinus catarius Greene. form. M. W. Cal.
*2928 Lupinus catarius Greene. form. M. W. Cal.
2983 **Lupinus debilis** Greene n. sp. M. W. Cal.
*3240 Lupinus fallax Greene. M. W. Cal.
*3005 Lupinus formosus Greene. form. M. W. Cal.

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*3411 Lupinus gracilis Agardh. S. Cal.
*2910 **Lupinus inamoenus** Greene n. sp. form. M. W. Cal.
2909 **Lupinus inamoenus** Greene n. sp. form. M. W. Cal.
*2603 Lupinus jucundus Greene. M. W. Cal.
*3518 Lupinus leucophyllus Dougl. N. Cal.
*3535 Lupinus luteolus Kell. N. Cal.
*3070 Lupinus Menziesii Agardh. M. W. Cal.
*s1921 Lupinus micranthus Dougl. M. W. Cal.
*s2822 Lupinus micranthus Dougl. M. W. Cal.
*s3032 Lupinus micranthus Dougl. M. W. Cal.
*3009 Lupinus microcarpus Sims. form. M. W. Cal.
*3537 Lupinus microcarpus Sims. form. M. Cal.
*s1964 Lupinus nanus Dougl. M. W. Cal.
*1990 Lupinus nanus Dougl. ? M. W. Cal.
*s2996 Lupinus nanus Dougl. M. W. Cal.
*1888 Lupinus pachylobus Greene. ? M. W. Cal.
*s3043 Lupinus pachylobus Greene. M. W. Cal
*3467 Lupinus parviflorus Nutt. Oreg.
*s1931 Lupinus polycarpus Greene. M. W. Cal.
*1982 Lupinus polycarpus Greene. form. M. W. Cal.
*s1988 Lupinus polycarpus Greene. M. W. Cal.
*3092 Lupinus rivularis Dougl. M. W. Cal.
*1963 Lupinus trifidus Torr. M. W. Cal.
*3363 Lupinus umbellatus Greene. var. S. Cal.
*3301 Lupinus variicolor Steud. form. M. Cal.
*3302 Lupinus variicolor Steud. M. W. Cal.
*3349 Lythrum Californicum T. & G. S. Cal.
*3210 Lythrum hyssopifolia L. M. W. Cal.
*s3274 Lythrum hyssopifolia L. M. W. Cal.
*s3486 Lythrum hyssopifolia L. M. W. Cal.
*3868 Macronema Greenei (Gray) Greene. N. Cal.
*3820 Madaria corymbosa DC. N. Cal.
*3666 Madaria elegans DC. S. Cal.
*2924 Madia capitata Nutt. M. W. Cal.
*s3474 Madia dissitiflora T. & G. Oreg.
*2948 Malacothrix obtusa Bth. M. W. Cal.
*2869 Malvastrum Parryi Greene. M. W. Cal.
*3438 Malveopsis arcuata Greene. M. W. Cal.
3254 Melica bulbosa Geyer. M. W. Cal.
1892 Melica sp. near Californica. M. W. Cal.
*s2815 Melica Torreyana Scribn. M. W. Cal.
*1851 Mentha piperita L. ? M. W. Cal.
*2781 Mentzelia affinis Greene. M. W. Cal.
*3452 Mentzelia laevicaulis T. & G. S. Cal.
*421 Mesembryanthemum aequilaterale How. M. W. Cal.
*3200 Micrampelis Marah (Wats.) Greene form. M. W. Cal.
*3042 Micrampelis Watsonii Greene. M. W. Cal.
*2853 Micromeria Chamissonis (Bth.) Greene. M. W. Cal.
*s2932 Micropus Californicus F. & M. M. W. Cal.
3379 Micropus Californicus F. & M S. Cal.
2889 Microseris cyclocarpha (Gray) Greene. M. W. Cal.
2919 Microseris indivisa Greene form. M. W. Cal.
*2861 Microseris intermedia Greene. M. W. Cal.
*3362 Microseris platycarpha Gray. S. Cal.
2830 Microseris stenocarpha Greene. M. W. Cal.
*1897 Microsteris Californica Greene. M. W. Cal.
*3529 Mimetanthe pilosa Greene. N. Cal.
*s3457 Mimulus cardinalis Dougl. S. Cal.
*3448 Mimulus floribundus Dougl. S. Cal.
*3177 Mimulus glaucescens Greene. M. W. Cal.
*2608 Mimulus nasutus Greene. M. W. Cal.
*3830 Mimulus primuloides Bth. N. Cal.
*1980 **Mimulus remotifolius** Greene n. sp. M. W. Cal.
*3017 Mimulus Tilingi Regel. M. W. Cal.
*3497 Monardella odoratissima Bth. N. Cal.
3286 Monardella villosa Bth. M. W. Cal.
*2790 Monolopia major DC. N. Cal.
*1911 Montia fontana L. M. W. Cal.
3382 Muilla maritima (Torr.) Wats. S. Cal.
*3407 Myosurus filiformis Greene. S. Cal.
*3470 Navarretia intertexta Hook. Oreg.
*2897 Navarretia leucocephala Bth. M. W. Cal.
3295 Navarretia pubescens H. & A. M. W. Cal.
3323 Navarretia squarrosa H. & A. ? M. W. Cal.

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*3360 Navarretia squarrosa H. & A. M. W. Cal.
3415 Nemophila aurita Lindl. S. Cal.
3294 Nemoseris Californica (Nutt.) Greene. M. W. Cal.
*3402 Nemoseris Californica (Nutt.) Greene. S. Cal.
*2610 Nemophila divaricata Eastw. M. W. Cal.
*1895 Nemophila insignis Dougl. form. M. W. Cal.
*2868 Nemophila insignis Dougl. form. M. W. Cal.
*1970 Nemophila liniflora F. & M. M. W. Cal.
*s2812 Nemophila nemorensis Eastw. M. W. Cal.
*1953 Nicotiana glauca Graham. M. W. Cal.
*3685 Onagra Hookeri (T. & G.) Small. S. Cal.
*s2913 Orthocarpus attenuatus Gray. M. W. Cal.
*s3040 Orthocarpus attenuatus Gray. M. W. Cal.
*3036 Orthocarpus Bidwelli e Gray. M. W. Cal.
*3477 Orthocarpus bracteosus Bth. Oreg.
3298 Orthocarpus castillcioides Bth. M. W. Cal.
*s2784 Orthocarpus densiflorus Bth. M. W. Cal.
*s2792 Orthocarpus erianthus Bth. M. W. Cal.
*1955 Orthocarpus faucibarbatus Gray. form. M. W. Cal
*s2632 Orthocarpus faucibarbatus Gray. form. M. W. Cal.
*1993 Orthocarpus gracilis Bth. M. W. Cal.
*2965 **Orthocarpus laetus** Greene n. sp. M. W. Cal.
*s3035 Orthocarpus purpurascens Bth. M. W. Cal.
*3432 Orthocarpus purpurascens Bth. S. Cal.
*1896 Orthocarpus versicolor (F. & M.) Greene. form. M. W. Cal.
*2858 Orthocarpus versicolor (F. & M.) Greene. form. M. W. Cal.
*1968 Oxalis stricta L. M. W. Cal.
*3880 Pachystima myrsinites Raf. N Cal.
*3372 Papaver Californicum Gray. S. Cal.
*2819 Papaver crassifolium (Bth.) Greene. M. W. Cal.
745 Papaver heterophyllum (Bth.) Greene. M. W. Cal.
*2820 Papaver heterophyllum (Bth.) Greene. M. W. Cal.
*2804 Pectocarya penicillata A. DC. M. W. Cal.
*3050 Pedicularis densiflora Bth. M. W. Cal.
*3904 Pedicularis racemosa Dougl. N. Cal.
*2750 Pellaea andromedaefolia Fee. M. W. Cal.
*3815 Pellaea densa Hook N. Cal.
*2613 Pellaea ornithopus Hook M W. Cal.
*2998 Pentacaena ramosissima H. & A. M. W. Cal.
*2826 Pentachaeta aphantochaeta Greene. M. W. Cal
*3417 Pentachaeta aurea Nutt. S. Cal.
*2938 Pentstemon centranthifolius Bth. M. W Cal.
*s3441 Pentstemon cordifolius Bth. S. Cal.
*3871 Pentstemon Davidsoni Greene. N. Cal.
*3508 Pentstemon gracilentus Gray. N. Cal.
*3185 Pentstemon heterophyllus Lindl. form. M. W. Cal
*s3089 Pentstemon heterophyllus Lindl. form. M W. Cal.
*s3091 Pentstemon heterophyllus Lindl. M W. Cal.
*3510 Pentstemon Newberryi Gray. N Cal.
*3348 Pentstemon spectabilis Thurb. S. Cal.
*3929 Peramium Menziesii (Lindl) Morong. N. Cal.
*2806 **Phacelia ammophila** Greene n. sp M. W. Cal.
*1901 Phacelia Californica Cham. M. W. Cal.
*s2841 Phacelia Californica Cham. M. W. Cal
*s2904 Phacelia ciliata Bth. M. W. Cal.
1898 Phacelia distans Bth. M. W. Cal.
*3238 Phacelia divaricata Gray. M. W. Cal.
*2601 Phacelia imbricata Greene. form. M. W. Cal.
*2604 Phacelia imbricata Greene. form. M. W. Cal.
*s2980 Phacelia imbricata Greene. form. M. W. Cal.
*3661 Phacelia suffrutescens Parry. S. Cal.
*2907 Phacelia tanacetifolia Bth. M. W. Cal.
*3679 Phalaris Lemmonii Vasey. S. Cal.
*3917 Phegopteris alpestris (Hoppe) Mett. N. Cal.
*3676 Phillibertella heterophylla (Eng.) Vail. S. Cal.
*3511 Phlox caespitosa Nutt. N. Cal.
*3501 Phyla cuneifolia (Torr.) Greene. N. Cal.

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*3899 Phyllodoce empetriformis Gray. N. Cal.
*3376 Pilularia Americana A. Br. S. Cal.
*3806 Pinus monticola Dougl. N. Cal.
*2786 Plagiobothrys canescens Bth. M. W. Cal.
*3065 **Plagiobothrys laxus** Greene n. sp. M. W. Cal.
*3421 Plagiobothrys laxus Greene. form. S. Cal.
2624 Plagiobothrys tenellus (Nutt.) Gray. M. W. Cal.
2866 Plantago Bigelovii Gray. M. W. Cal.
*s2803 Plantago erecta Morris. M. W. Cal.
3325 Plantago lanceolata L. M. W. Cal.
*3331 Plantago maritima L. M. W. Cal.
*1938 Platanus racemosa Nutt. M. W. Cal.
*3199 **Platystemon arvorum** Greene n. sp. M. W. Cal.
3255 Platystemon communis Greene. form. M. W. Cal.
*665 **Platystemon emarginatus** Greene n. sp. M. W. Cal.
*3058 **Platystemon glyptolobus** Greene n. sp. M. W. Cal.
*2780 **Platystemon tortuosus** Greene n. sp. M. W. Cal.
*3894 Poa argentea Howell. N. Cal.
*3306 Poa Douglasii Nees M. W. Cal.
*1920 Poa Nevadensis Vasey. form. M. W. Cal.
*2776 Poa Nevadensis Vasey. form. M. W. Cal.
3259 Poa unilateralis Scribn. M. W. Cal.
*2899 Pogogyne Douglasii Bth. M. W. Cal.
*3817 Polygala cornuta Kell. N. Cal.
*s1857 Polygonum acre HBK. M. W. Cal.
*1858 Polygonum acre HBK. M. W. Cal.
*2838 Pylygonum Paronychia Ch. & Schl. M. W. Cal.
*3469 Polygonum polygaloides Meisn. N. Cal.
*3906 Polygonum spergulariaeforme Meisn. form. N. Cal.
*3892 Polygonum Shastense Brewer. N.Cal.
*2749 Polypodium Californicum Kaulf. var. M. W. Cal.
*3814 Polystichum Lemmonii Underw. N. Cal.
*3272 Potamogeton gramineus L. M.W.Cal.
*3215 Potamogeton pectinatus L. M.W.Cal.
*3205 Psilocarphus brevissimus Nutt. M. W. Cal.
*3204 Psilocarphus tenellus Greene. M. W. Cal.
*2943 Ptelea crenulata Greene form. M. W. Cal.
*2985 Ptelea crenulata Greene form. M. W. Cal.
*1651 Ptilomeris mutica Nutt. S. Cal.
*3524 Ptilonella scabra Nutt. S. Cal.
*3656 Ptiloria cichoriacea (Gray) Greene. S. Cal.
*3921 Pyrola picta Smith. N. Cal.
*3924 Pyrola secunda L. N Cal.
*3688 Quercus crassipocula Torr. S. Cal.
3684 Quercus dumosa Nutt. S. Cal.
*3242 Quercus dumosa Nutt. var. revoluta Sargent. M. W. Cal.
*3827 Quercus echinoides R Br. N. Cal.
*3521 Quercus Kellogii Newb. N. Cal.
Quercus vaccinilifolia Kell. N. Cal.
*3175 Quercus Wizlizenii. var. frutescens Eng. M. W. Cal.
*2984 Ramona humilis (Bth.) Greene. M. W. Cal.
*3442 Ramona polystachya (Bth.) Greene. S. Cal.
*1995 Ranunculus Bloomeri Wats. M.W.Cal.
3267 Ranunculus occidentalis Nutt. M. W. Cal.
*3479 Ranunculus samolifolius Greene. N. Cal.
*3653 Rhamnus insularis Kell. S. Cal.
*3443 Rhamnus laurifolia Nutt. S. Cal
*3833 **Rhamnus obtusissima** Greene n. sp. N. Cal.
3834 Rhamnus rubra Greene. N. Cal.
*3863 Rhamnus rubra Greene. var. N. Cal.
*3071 Rhamnus tomentella Bth. M. W. Cal.
*3881 Rhododendron occidentale Gray. N. Cal.
*s1960 Ribes glutinosum Bth. M. W. Cal.
*2915 Ribes Victoris Greene. M. W. Cal.
*1856 Roripa palustris (L.) Bessey. M. W. Cal.
*3875 **Rosa Copelandi** Greene n. sp. N. Cal.
*3874 Rosa gymnocarpa Nutt. N. Cal.
*3862 Rudbeckia Californica Gray. N. Cal.
*3219 Rumex procerus Greene. M. W. Cal.
3208 Ruppia maritima L. M. W. Cal.
3329 Sagina crassicaulis Wats. M. W. Cal.
1676 Sagittaria variabilis Eng. M. W. Cal.
*2814 Salix laevigata Bebb. form. M.W.Cal.
*2912 Salix laevigata Bebb. form. M.W.Cal.
*3278 Salix longifolia Muhl. form. M.W.Cal.
*3491 Salix longifolia Muhl. form. M.W.Cal.
*2936 Salix nigra Marsh. M. W. Cal.
*2914 Salix sessilifolia Nutt form. M.W.Cal.
*5264 Salix sessilifolia Nutt form. M W.Cal.

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*1948 Salvia mellifera Greene. M. W. Cal.
3410 Salvia mellifera Greene. S. Cal.
*1878 Salvia spathacea Greene. M. W Cal.
*3885 Sanguisorba annua Nutt. N. Cal.
2631 Sanicula tuberosa Torr. M. W. Cal.
*3258 Scirpus carinatus Gray. M. W. Cal.
3902 Scirpus criniger Gray. N. Cal.
*1698 Scirpus lacustris (L.) var. occidentalis Wats. M. W. Cal.
*3263 Scirpus maritimus L. M. W. Cal.
3722 Scirpus microcarpus Presl. N. Cal.
*3243 Scirpus Olneyi Gray. M. W. Cal.
*3336 Scirpus pungens Vahl. M. W. Cal.
*3315 Scirpus riparius Spreng. M. W. Cal.
*3436 Scirpus silvaticus L. var. digynus Boeckl. M. W. Cal.
*3818 Scorzonella pratensis Greene. N. Cal.
*3530 Scutellaria angustifolia Pursh. N. Cal.
2970 Scutellaria angustifolia Pursh. M. W. Cal.
3478 Scutellaria galericulata L. N. Cal.
*1319 Sedum pumilum Bth. M. W. Cal.
*1627 Sedum variegatum Wats. S. Cal.
*3414 Senecio aphanactis Greene. S. Cal.
*1900 Senecio aronicoides DC. M. W. Cal.
*1854 Senecio Douglasii DC. M. W. Cal.
*3080 Senecio eurycephalus Gray. M.W.Cal.
3222 Senecio hydrophilus Nutt. var. Pacificus Greene. M. W. Cal.
*3811 Senecio trigonophyllus Greene. N.Cal.
*3223 Sida hederacea (Dougl.) Torr. M. W. Cal.
2798 Sidalcea diploscypha Gray. M.W.Cal.
*2877 Sidalcea Hartwegi Gray form. M. W. Cal.
*2963 Sidalcea Hartwegi Gray form. M. W. Cal.
3192 Sidalcea Hartwegi Gray form. M. W. Cal.
*3822 Sidalcea Oregana Gray. N. Cal.
*2931 Sidalcea secundiflora Greene. M. W. Cal.
3361 Silene antirrhina L. S. Cal.
*2978 Silene Californica Durand. M.W.Cal.
*s3352 Silene Californica Durand. M.W.Cal.
3365 Silene Gallica L. S. Cal.
*2844 Silene verecunda Wats. M. W. Cal.
*3012 Sisyrhynchium bellum Wats. form. M. W. Cal.
*s3385 Sisyrhynchium bellum Wats. S.Cal.
3786 Sitanion anomalum ? N. Cal.
*3536 Sitanion longifolium J. E. Smith. N. Cal.
3447 Solanum Douglasii Dunal. S. Cal.
*2890 Solanum Xanti Gray. var. glabrescens Parish. M. W. Cal.
*3090 Solidago Californica Nutt. S. Cal.
2847 Solidago spathulata DC. M. W.Cal.
3694 Solidago spectabilis Gray. S. Cal.
*2807 Sphaerostigma campestre (Greene) Small. M. W. Cal.
*2775 Sphaerostigma cruciatum Greene. M. W. Cal.
*2808 Sphaerostigma spirale (Lehm.) Walp. M. W. Cal.
*1951 Sphaerostigma strigulosum F. & M. M. W. Cal.
3395 Sphaerostigma Veitchianum (Hook.) Small. S. Cal.
*3836 Spiraea Douglasii Hook. N. Cal.
3788 Sporobolus filiformis Rydb. N. Cal.
*3291 Stachys ajugoides Bth. form. M. W. Cal.
*3246 Stachys albens Gray. M. W. Cal.
3396 Stachys Californica Bth. S. Cal.
*3343 Stachys pycnantha Bth. M. W. Cal.
*3663 Stachys velutina Greene form. S.Cal.
*2851 Statice armeria L. M. W. Cal.
*2942 Stenotus linearifolius T. & G. M. W. Cal.
*3896 Stipa occidentalis Thurb. N. Cal.
3053 Stipa sp. M. W. Cal.
2785 **Streptanthus Bakeri** Greene n. sp. M. W. Cal.
*2619 Streptanthus Biolettii Greene. M. W. Cal.
*3390 Streptanthus heterophyllus Nutt. S. Cal.
*3915 Streptanthus orbiculatus Greene. M. W. Cal.
*3239 Streptanthus secundus Greene. M. W. Cal.
*3059 **Streptanthus vimineus** Greene n. sp. M. W. Cal.
*3072 Stropholirion Californicum Torr. M. W. Cal.
3423 Stylocline gnaphalioides Nutt. S. Cal.
*s2629 Thelypodium lasiophyllum Greene. M. W. Cal.
*2791 Thelypodium rigidum Greene. M. W. Cal.
*3081 Thermopsis Californicum Wats. M. W. Cal.
*3905 Thlaspi Californicum Wats. N. Cal.
*3029 Thysanocarpus curvipes Hook. M. W. Cal.
*3008 Thysanocarpus elegans F. & M. form. M. W. Cal.
3090 Thysanocarpus elegans F. & M. form. M. W. Cal.
*2809 Thysanocarpus laciniatus Nutt. M. W. Cal.
2879 Tillaea minima Miers. M. W. Cal.
3377 Tillaea minima Miers. S. Cal.
3378 Tillaea n. sp. ? S. Cal.

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*3381 Tillaea n. sp. ? S. Cal.
*2752 **Tissa alsinella** Greene n. sp. M.W.Cal.
*666 **Tissa argillosa** Greene n. sp. M. W. Cal.
3374 Tissa Clevelandi Greene. S. Cal.
*3373 Tissa Clevelandi Greene. form. S. Cal.
3273 Tissa leucantha Greene. M. W. Cal.
*3317 Tissa pallida Greene. M. W. Cal.
*2865 Tissa Sanfordii Greene. M. W. Cal.
*1859 Tissa sordida Greene. M. W. Cal.
*3877 Tofieldia occidentalis Wats. N. Cal.
*3503 **Trichocoronis** Wrightii Gray. N. Cal.
*3534 **Trichostema laetum** Greene n. sp. N. Cal.
*3728 Trichostema lanceolatum Bth. S. Cal.
*3473 Trichostema oblongum Bth. Oreg.
*3383 Trifolium aciculare Nutt. S. Cal.
1983 Trifolium albopurpureum T. & G. M. W. Cal.
*2901 Trifolium amoenum Greene. M. W. Cal.
*3422 Trifolium anodon Greene. S. Cal.
*s3061 Trifolium bifidum Gray. M. W. Cal.
*s1949 Trifolium ciliolatum Bth. M. W. Cal.
3388 Trifolium ciliolatum Bth. S. Cal.
3371 **Trifolium decodon** Greene n. sp. S. Cal.
*2797 Trifolium dichotomum H. & A. M. W. Cal.
*s2870 Trifolium dichotomum H. & A. M. W. Cal.
*3554 Trifolium geminiflorum Greene. N. Cal.
*s1943 Trifolium gracilentum T. & G. M. W. Cal.
*s1985 Trifolium gracilentum T. & G. M. W. Cal.
3408 Trifolium gracilentum T. & G. S. Cal.
3389 Trifolium gracilentum T. & G. var. S. Cal.
*1999 Trifolium Macraei H. & A. form. M. W. Cal.
3025 Trifolium Macraei H. & A. form. M. W. Cal.
*s1994 Trifolium microcephalum Pursh. M. W. Cal.
*s3026 Trifolium microcephalum Pursh. M. W. Cal.
3370 Trifolium microcephalum Pursh. M. W. Cal.
3335 Trifolium microdon H. & A. M. W. Cal.
*3393 Trifolium neolagopus Loja. S. Cal.
*1992 Trifolium obtusiflorum Hook. M. W. Cal.
*2625 **Trifolium petrophilum** Greene n. sp. M. W. Cal.
*2773 Trifolium segetum Greene form. M. W. Cal.
*s1907 Trifolium Sonomense Greene form. M. W. Cal.
*2606 Trifolium Sonomense Greene form. M. W. Cal.
3269 Trifolium spinulosum Dougl. ? M. W. Cal.
*1989 Trifolium tridentatum Lindl. M. W. Cal.
*3024 Trifolium tridentatum Lindl. M. W. Cal.
*3011 Trifolium trimorphum Greene form. M. W. Cal.
*2863 Trifolium truncatum Greene form. M. W. Cal.
*1925 Trifolium variegatum Nutt. M. W. Cal.
*1923 Trifolium variegatum Nutt. var. majus Loja. M. W. Cal.
*1871 Trifolium variegatum Nutt. var. melananthum Greene form. M. W. Cal.
*1981 Trifolium virescens Greene. M. W. Cal.
*3224 Trifolium Wormskjoldii Lehm. form. M. W. Cal.
*3221 Triglochin maritima L. M. W. Cal.
*s3010 Trillium ovatum Pursh. M. W. Cal.
*3895 Trisetum subspicatum Beauv. N. Cal.
*3366 Tropidocarpum gracile Hook. S. Cal.
*s2609 Uropappus linearifolius Nutt. M. W. Cal.
*2856 Uropappus linearifolius (DC.) Nutt. form. M. W. Cal.
*2887 Uropappus linearifolius (DC.) Nutt. form. M. W. Cal.
*3480 Utricularia vulgaris L. N. Cal.
*3249 Vaccinium ovalifolium Sm. M.W. Cal.
*1917 Vagnera amplexicaulis (Nutt.) Greene. M. W. Cal.
*1915 Vagnera sessilifolia (Nutt.) Greene. M. W. Cal.
*4002 Valerianella congesta Lindl. M. W. Cal.
*2813 Valerianella macrocera Gray. M. W. Cal.
*3051 Vancouveria parviflora Greene. M. W. Cal.
3293 Velaea Hartwegi (Gray) C. & R. M. W. Cal.
2925 Veronica peregrina L. M. W. Cal.
*1962 Vicia Americana Muhl. var. linearis Wats. M. W. Cal.
*2600 Vicia sativa L. form. M. W. Cal.
*1988 Vicia sativa L. M. W. Cal.
*3692 **Viguiera Bakeri** Greene n. sp. S. Cal.
*3506 Viola atriplicifolia Greene. form. N. Cal.
*1880 Viola adunca Smith. M. W. Cal.
*s946 Viola ocellata T. & G. M. W. Cal.
*3082 Viola purpurea Kell. M. W. Cal.
*3166 Wulfenia cordata Greene. M. W. Cal.
*s1944 Wyethia helenioides Nutt. M. W.Cal.
*s1760 Xanthium Californicum Greene. M. W. Cal.
*3872 Xerophyllum tenax Nutt. N. Cal.
2977 Xylothermia montana (Nutt.) Greene. M. W. Cal.
*3657 Zauschneria Californica Presl. S.Cal.

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NEVADA SERIES II.

FUNGI.

1488 Polyporus leucospongia Cke. & Hark.
1075 Puccinia heterantha E. & E.
1211 Puccinia Crepidis-acuminatae Syd.
993 Aecidium auriellum Pk.
1182 **Melanomma Sambuci** Earle n. sp.
3726 **Coniothyrium Sambuci** Earle n. sp.

BRYOPHYTES

1183 Amblystegium radicale Mitt.
1163 Amblystegium radicale Mitt. form.
960 Amblystegium serpens. Br.
1120 Barbula sp. near pseudaciphylla and ruralis var subintermedia.
949 Brachythecium laetum Br.
953 Bryum pendulum Br.
var. **Nevadense** Card. & Ther. var. nov.
1464 Fontinalis sp.
961 Funaria hygrometrica Hedw.
944 Grimmia alpestris Schleich.
1119 Orthotrichum laevigatum Zett.
915 Philonotis acutiflora Kindb.
1463 Philonotis sp.
908 Physcomitrium pygmaeum James.
1492 Polytrichum sp.
959 **Pottia Nevadensis** Card. & Ther. n. sp.
1415 **Webera chlorocarpa** Card. & Ther. n. sp.

SPERMAPHYTES and FERNS.

1203 Agastache urticifolia (Bth.) Rydb.
931 Agoseris heterophylla Greene form.
1861 Agoseris heterophylla Greene form.
904 Agoseris runcinata (Kell.) Greene.
907 Amygdalus Andersonii (Gray) Greene.
965 Anisocoma acaule T. & G.
1073 Anogra trichocalyx (Nutt.) Small.
932 Antennaria dimorpha T. & G.
1328 Antennaria polyphylla Greene form.
1378 **Antennaria polyphylla** Greene n. sp. form.
1209 Apocynum molle Greene.
906 Astragalus Andersonii Gray.
1072 Astragalus Gibbsii Kell.
1063 Astragalus Mortoni Nutt.
927 Astragalus Purshii Dougl.
926 Balsamorrhiza sagittata Nutt.
1052 Batrachium trichophyllum Bossch.
929 Blepharipappus glandulosus Hook.
1057 Bolelia brachyantha Rydb.
981 Chaenactis integrifolia (Gray) Greene.
489 Cheiranthus asper Nutt.
1862 Collomia grandiflora Dougl.
1194 Cryptanthe simulans Greene.
—— Eatonella nivea (Eaton) Gray.
1863 Eriogonum ovalifolium Nutt.
938 Eriophyllum integrifolium (Hook.) Greene.
1204 Galium aparine L.
1246 Gayophytum diffusum T. & G.
1179 Gilia gilioides Greene.
998 Hydrophyllum alpinum (Wats.) Greene.
967 Lathyrus Oregonensis White.
936 Lathyrus polyphyllus Nutt.
983 **Lupinus indutus** Greene sp.
1082 Lupinus longipes Greene.
1102 Madia sp.
1154 Mertensia stomatechioides Kell.
1161 Mitella Breweri Gray.
1193 **Monardella acuta** Greene n. sp.
1326 Pentstemon gracilentus Gray.
1021 Phacelia bicolor Torr.
1198 Phacelia eremophila Greene.
893 Phacelia humilis T. & G.
895 Phacelia Menziesii Torr.
1091 Phacelia ramosissima Dougl.
1040 Phacelia virgata Greene.
1481 Pyrola picta Smith.
1202 Rumex Acetosella L.
1185 Sambucus caerulea Raf.
1434 Saxifraga aestivalis Fisch.
922 Senecio integerrimus Nutt.
890 Senecio integerrimus Nutt. var. ?
999 **Senecio lanulosa** Greene n. sp.
1103 Silene incompta Gray.
987 Stenotus acaulis Nutt.
1189 Tetradymia glabrata T. & G.
964 Trifolium Andersonii Gray.
1127 Trifolium cyathiferum Lindl.
900 Trifolium Rusbyi Greene.
1195 Trifolium spinulosum Dougl.
1206 Urtica occidentalis (Wats.) Greene.
1864 Veratrum Californicum Durand.
937 Wyethia mollis Gray.

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PLANTS OF PACIFIC CENTRAL AMERICA. SERIES I.—NICARAGUA.

The first Central American trip consumed three months. It resulted in the collection of about twenty thousand specimens. Only a portion of these have been determined, though they are now largely in the hands of specialists. Western Nicaragua proved not unlike some of our southwestern country in the winter time. It was dry, the under vegetation withered and dead, and almost constant winds kept everything loaded with dust. No rain fell while we were there. It was not an encouraging outlook for the botanist, but patient searching along streams and in ravines, especially those on the slopes of the higher mountains, gave the results noted. The next Central American trip will be made in the wet season.

FUNGI

2410 Aecidium Euphorbiae Gmel.
2507 Auricularia lobata Sommf.
2510 Auricularia nigra (Swartz).
2259 Fomes linteus B. & C.
2498 Hydnum sp.
2511 Lenzites repanda (Mont.) Fr.
2218 Lenzites striata (Sw.) Fr. form.
2530 Polyporus similis Berk.
2483 Polystictus albo-incarnatus Pat. & Guill.
2486 Polystictus caperatus Berk.
2531 Stemonitis maxima Schw.
2249 Trametes hydnoides (Sw.) Fr.
2265 Tryblidiella rufula (Spreng.) Sacc.

BRYOPHYTES

2523 Bryopteris diffusa Nees.
2506 Bryopteris tenuicaulis Taylor.
2048 Cheilolejeunea xanthophylla Ldbg.
2180 **Ectropothecium Bakeri** Broth. n. sp.
2368 Ectropothecium globitheca (C. Mull.).
2366 Ectropothecium pseudo-rutilans (C. Mull.).
2504 Entodon complicatus (C. Mull.).
2524 Frullania atrata Nees.
2503 **Hookeria Nicaraguensis** Broth. n. sp.
2517 **Lepidopilum Bakeri** Broth. n. sp.
2179 Marchantia sp.
2502 **Microthamnium Nicaraguensis** Broth n. sp.
2525 Papillaria Warzewiczii (C. Mull.).
2522 Peltolejeunea Jackii Sz.
2529 Phyllogonium viscosum (Palis).
2521 Pilotrichella quinquefaria (C. Mull.)
2516 Plagiochila dubia L. & G.
2509 Plagiochila Zacuapana G.
2471 Radula pallens Nees.
2496 Rhacopilum tomentosum (Hedw.).
2505 Taxilejeunea debilis (LaL.).
2497 Trichosteleum microcarpum (Sw.)

SPERMAPHYTES and FERNS

2185 Acrostichum alienum Sw. var. flagellum Jenm.
2541 Adiantum cayennense Willd.
2457 Adiantum macrophyllum Sw.
2190 Adiantum tenerum Sw.
2184 Adiantum tetraphyllum Willd.
2289 Adiantum trapeziforme Sw.
2021 Ageratum conyzoides L.
2220 Ageratum scabriusculum Helmsl.
2031 Alvaradoa amorphoides Liebm.
2115 Anacardium occidentale L.
2057 Aphelandra Deppeana Schlecht.
2309 Aristida scabra Kth.
2467 Aspidium trifoliatum (L.) Sw.
2352 Asplenium cicutarium Sw.
2465 Asplenium cultrifolium L.

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2463 Asplenium plantagineum L.
2451 Asplenium striatum L.
2285 Averrhoa Carambola L.
2405 Baccharis rhexoides HBK.
2169 Barleria micans Nees.
2234 Bassovia fasciculata Dub.
2175 Begonia plebeia Liebm.
2333 Begonia pruinata A. DC.
2336 Begonia near scandens Sw.
2204 Bidens pilosa L.
2121 Bidens tereticaulis DC.
2214 Bidens tereticaulis DC.
var. **indivisa** Rob. n. var.
2000 Bixa orellana L.
2473 Blechnum occidentale L.
2238 Blechnum occidentale L.
var. minor Hook.
2558 Bombax Cumanense HBK.
2144 Bombax Fendleri (Seeman) Baker. ?
2319 Bouteloua bromoides Lag.
2363 Bravaisia floribunda DC.
2167 Brickellia diffusa Gray.
2202 Brickellia Hartwegi Gray.
2163 Brickellia Pacayensis Coult.
2412 Buddleia floccosa Kth.
2324 Buettneria acuminata Jacq.
2023 Buettneria catalpifolia Jacq.
2552 Byrsonima variabilis Juss.
2181 Calathea discolor G. F. Meyer.
2199 Calea axillaris DC.
var. urticaefolia Rob. & Greene.
2089 Calycophyllum aff. multiflorum.
2455 Campelia Zanonia HBK.
2114 Capraria biflora L.
2315 Casearia silvestris Sw.
2460 **Catopsis Bakerii** Mez. n. sp.
2071 Cenchrus tribuloides L.
2450 Centradenia inaequilateralis (Seh & Schl.) Don.
2475 Cephaelis sp.
2147 Chrysobalanus Icaco L.
2288 Chrysophyllum sp.
2005 Cissampelos Pareira L.
2272 Coccoloba Caracasana Meissn.
2088 Combretum sp. ? Leprosae Engl. & Diels.
2226 Commelina Virginica L.
2273 Commelina Virginica L.
2083 Conocarpus erecta Jacq.
2223 Conostegia subcrustulata (Beurl.) Triana.
2269 Cordia sp. ? Gerasacanthus.
2156 Cordia rotundifolia R. & P.
2055 **Croton sp. nov.**
2466 Dicksonia adiantoides HBK.
2468 Dicksonia cicutaria Sw.
2469 Dicksonia rubiginosa Kaulf.
2464 Didymochlaena lunulata Desv.
2561 Egletes viscosa Less.
2489 Encelia grandiflora Helms.
2068 Eragrostis ciliaris Link.
2146 Eragrostis ciliaris Link.
2346 Erechtites praealta Raf.
2347 Erechtites valerianaefolia DC.
2483 Erigeron bonariensis L.
2027 Eupatorium collinum DC. form.
2173 Eupatorium collinum DC. form.
2198 Eupatorium collinum DC. form.
2320 Eupatorium collinum DC. form.
2334 Eupatorium macrophyllum L.
2094 Eupatorium odoratum L. form.
2110 Eupatorium odoratum L. form.
2128 Eupatorium odoratum L. form.
2415 Eupatorium odoratum L. form.
2274 Eupatorium populifolium HBK.
2338 Eupatorium pycnocephalum Less.
2302 Eupatorium quadrangulare DC.
2306 Euphorbia adenoptera Bertol. form.
2101 Euphorbia Astroites.
2395 Euphorbia Brasiliensis Lam.
2221 Euphorbia heterophylla L. form. ?
2432 Euphorbia hypericifolia L. form.
2049 Euphorbia lasiocarpa Klotsch.
2562 Euphorbia plicata Wats. ?
2191 Geophila sp.
2206 Gnaphalium attenuatum DC.
2047 Guazuma ulmifolia Lam.
var. tomentosa.
2472 Guzmania lingulata (L.) Mez.
2477 **Guzmania Nicaraguensis** Mez. & C. F. Bak. n. sp.
2345 **Guzmania platysepala** Mez. & C. F. Bak. n. sp.
2099 Gymnogramma calomelanos (L.) Kaulf. form.
2208 Gymnogramma calomelanos (L.) Kaulf. form.
2018 Gymnolomia subflexuosa B. & H.
2002 Hamelia patens Jacq. form.
2478 Hamelia patens Jacq. form.
2480 Hasseltia Guatemalensis Warb. form.
2016 Heliconia latispatha Bth.
2490 Heliocarpus Americanus L.
2174 Hyptis spicata Poit.
2555 Indigofera sp.
2098 **Isocarpha amplexicaulis** Robinson n.sp.
2279 Jatropha gossypiifolia L.
2376 Jatropha urens L.
2210 Loeselia ciliata L.
2316 Lycoseris squarrosa Bth.

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2003 Lygodium venustum Sw.
2365 Mapouria sp.
2281 Marsilia subangulata A. Br.
2143 Maximilliana hibiscoides Ktze.
2482 Melampodium paludosum HBK.
2239 Melanthera hastata Mx.
2488 Miconia sp.
2020 Mikania scandens Willd.
2246 Mikania scandens Willd. form.
2022 Milleria quinqueflora L.
2481 Monstera acuminata C. Koch. or n. sp.
2335 Monstera n. sp. ?
2108 Moringa oleifera Lam.
2241 Muntingia calabura L.
2015 Nectandra sp. ♂ Pomatium Nees.
2476 Nephrodium apiifolium Schk.
2256 Nephrodium cicutarium Sw.
2532 Nephrodium macrophyllum (Sw.) Bak.
2453 Neurolena lobata R. Br.
2149 Ochroma lagopus L.
2105 Olyra latifolia L.
2540 Pachira aquatica Aubl.
2053 Panicum barbinode Trin.
2454 Panicum divaricatum L.
2416 Panicum leucophaeum H. B. K.
2105 Panicum Sloanei Gris.
2012 Paspalum conjugatum Berg.
2137 Pectis Berlandieri DC.
2556 **Pectis erecta** Fernald n. sp.
2082 Pectis latisquama Sch. Bip.
2133 Pectis multiflosculosa Sch. Bip.
2273b Phaeospherion persicariifolium C. B. Clarke.
2449 Phegopteris rudis Kze.
2188 Phegopteris tetragona (Sw.) Mett.
2439 Phragmites communis Trin.
2286 Phyllanthus sp.
2366 Picramnia sp.
2305 Poinsettia pulcherrima L.
2053 Polystichum semicordatum Sw.
2046 Psidium guajava.
2479 Pteris Kunzeana Ag.
2539 Quassia amara L.
2170 Ruellia Haenkii (Nees) Lindau.
2093 Ruellia paniculata L.
2284 Salvinia auriculata Aubl.
2339 Schistocarpha paniculata Klatt.
2296 Sclerocarpus divaricatus B. & H. form.
2207 Sclerocarpus divaricatus B. & H. form.
2192 Selaginella puberula Spreng. ?
2172 Senecio Hoffmanii Klatt.
2266 Simaruba sp.
2065 Stegonocarpa halimifolia Bth.
2270 Stemmadenia obovata Schum.
2303 Stenolobium stans (L.) Seem.
2441 Sterculia aff. Cartaginensis.
2026 Stigmatophyllum near Martianum.
2443 Stylogyne ramiflora Mez.
2129 Synedrella nodiflora Gaertn.
2084 Terminalia catappa L.
2103 Tetracera volubilis L.
2102 Theobroma angustifolium Moc. & Sesse.
2228 Tibouchina Bourgaeana Cogn.
2341 Tibouchina longifolia (Vahl.) Baill.
2158 Tillandsia cryptantha Bak.
2140 Tillandsia fasciculata Sw.
2087 Tillandsia ionantha Planch.
2092 **Tillandsia orthorhachis** Mez. & C. F. Bak. n. sp.
2138 Tillandsia polystachya L.
2086 Tillandsia vestita Ch. & Schl.
2492 Tillandsia vestita Ch. & Schl.
2414 Trichilia Havannensis.
2440 Trichilia sp.
2130 Tridax procumbens L.
2554 Trigonia sp. near crotonoides.
2434 Triplaris Caracasana Cham.
2247 Triumfetta heterophylla Lam.
2403 Verbesina pallens Bth.
2257 Vernonia lanceolaris DC.
2252 Vernonia patens HBK.
2164 Vittaria lineata (L.) Sw.

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III

WEST AMERICAN PLANTS

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1904

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WEST AMERICAN PLANTS

Distributed by C. F. Baker

FALL OF 1904

Although the writer left California early in the year, for Cuba, still the series of this year's issuance will be very rich. It seems probable that the western work under this direction will continue unabated for some time yet. A former student, Mr. James D. Culbertson, took the field in the very interesting King's River and Kern River Regions, and brought out what are probably the most extensive collections ever made there. He proved to be a thorough, conscientious, and indefatigable worker. As I have always contended, so I still believe, that the greatest success in the field is insured only by a thorough working knowledge of how to "rough it" — how to live in the open comfortably and well, with the camp work so arranged that there will be no delaying or hampering of the main object in view. Only men inured to hardship, "tough as iron", and with indomitable courage, should ever attempt the wilderness with any hope of justifiable results. Mr. Culbertson's results speak for themselves. I have never handled a more interesting or valuable series of plants.

Mr. Culbertson will visit during the coming year some of the regions of the far northwest from which plants have not yet appeared in our issuances. If his efforts are crowned with success as we have every reason to believe they will be, the future series promise to be of even greater interest and value than those of the past. Though in future the sets will be distributed from Cuba.

In this list also appear some more of the collections of Dr. Copeland made in Northern California, and species of my own collecting in California and Nicaragua.

C. F. BAKER,
Estación Agronómica
Santiago de las Vegas
Cuba.

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FUNGI.

Large collections made during 1904 still await determination.

4165 Aecidium Lupini Pk.
4195 Aecidium Peckii DeT.
4038 **Briardia nigerrima** E. & E. n. sp.
4043 Calicium subtile Pers. ?
4041 **Didymosphaeria Catalinae** E. & E. n. sp.
4048 Geaster hygrometricus Pers.
4157 Hypoxylon occidentale E. & E.
4047 Lycoperdon gemmatum Batsch.
4039 **Phaenangium sphaeroides** E. & E. n. sp.
4044 Phoma Opuntiae Sacc. ?
4085 Pileolaria brevipes B. & Rav.
4072 Puccinia coronata Cda.
4160 Puccinia heterantha E. & E.
4197 Puccinia Sherardiana Korn.
4037 Thyridium lividum (Pers.)
4295 Uromyces Spragueae Hark.
4083 Ustilago Avenae (Pers.) Jens.

LICHENS.

4800 Cladonia fimbriata Jr.
4799 Cladonia pyxidata (L.) Jr. var. chlorophaea Flk.
4816 Lecanora atra (Huds.) Nyl.
4820 Lecanora subfusca (L.) Ach.
4817 Rinodina succedens Nyl.
4818 Thelochistes polycarpa (Ehrh.)

SPERMAPHYTES and FERNS.

4812 Abies concolor (Gord.) Parry.
4804 Abronia alpina Brandegee.
4125 Abronia maritima Nutt.
4554 Acer diffusum Greene.
4678 **Acer minusculum** Greene n. sp.
4288 Acer Torreyi Greene.
4643 Achillaea lanulosa Nutt.
4500 Achillaea lanulosa Nutt.
4257 Actaea arguta Nutt.
4314 Agastache glaucifolia Heller.
4421 Agoseris alpestris (Gray) Greene.
4422 Agoseris monticola Greene form.
4545 Agoseris monticola Greene form.
4697 Agrostis microphylla Steud.
4700 Agrostis scabra Willd.
3403 Allium haematochiton Wats.
3391 Allium peninsulare Lemmon.
4363 Allium validum Wats. form.
4368 Allium validum Wats. form.
4241 Amarella Californica Greene.
4647 Amelanchier glabra Greene.
3816 Anaphalis margaritacea B. & H. form.
4335 Anaphalis margaritacea B. & H. form.
4494 Anaphalis margaritacea B. & H. form.
4276 Angelica lineariloba Gray form.
4279 Angelica lineariloba Gray form.
4505 Antennaria media Greene.
3424 Antennaria rosea Greene form.
4465 Antennaria rosea Greene form.
4650 Anthemis cotula L.

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4854 Antirrhinum Coulteranum Bth.
1543 Antirrhinum vagans Gray.
3369 Apiastrum angustifolium Nutt form.
4771 Apiastrum angustifolium Nutt form.
4472 **Apocynum cardiophyllum** Greene n. sp.
4460 **Aquilegia pauciflora** Greene n. sp.
4378 Aquilegia pubescens Coville.
4522 Arabis Drummondii Watts.
4266 Arabis perfoliata Lam.
4347 Arabis retrofracta Graham.
4013 Arctostaphylos glauca Lindl.
4476 Arenaria capillaris Poir form.
4497 Arenaria capillaris Poir form.
4556 Argemone munita Dur. & Hil.
4521 Arnica subplumosa Greene.
4341 Artemisia discolor Dougl.
4249 Artemisia incompta Nutt.
4312 Artemisia Novergica Fries.
4809 Artemisia tridentata Nutt.
4852 Asclepias eriocarpa Bth.
4689 Asclepias fascicularis Decaisne.
4487 Asclepias Mexicana Cav.
4549 Aster integrifolius Nutt.
3512 Astragalus arrectus Gray.
4374 Astragalus Bolanderi Gray.
4131 Astragalus Parishii Dougl.
3557 Astragalus Purshii Dougl.
4134 Athysanus pusillus (Hook.) Greene.
4693 Azalea occidentalis T. & G.
2801 Baeria gracilis (DC) Gray form.
4086 Baeria gracilis (DC) Gray form.
4087 Baeria gracilis (DC) Gray form.
4088 Baeria gracilis (DC) Gray form.
4089 Baeria gracilis (DC) Gray form.
4159 Baeria gracilis (DC) Gray form.
4160 Baeria gracilis (DC) Gray form.
4091 Baeria mutica Gray.
4413 Balsamorrhiza invenusta Coville.
4651 Bidens frondosa L.
4384 **Bistorta scaberula** Greene n. sp.
4129 Blepharipappus platyglossus (F. & M.) Greene form.
4130 Blepharipappus platyglossus (F. & M.) Greene form.
4177 Blepharipappus platyglossus (F. & M.) Greene form.
3394 Bloomeria aurea Kellogg.
3048 Bolelia ornatissima Greene.
4061 Brodiaea capitata Bth. form.
4764 Brodiaea capitata Bth. form.
4767 Brodiaea capitata Bth. form.
4073 Bromus carinatus Hook.
4512 Bromus Orcuttianus Vasey.
4281 Brunella vulgaris L.
4429 Calliprora ixioides Greene.
4331 Calochortus invenustus Greene.
4219 Calochortus nudus Wats.
4331 Calochortus sp.
4379 Caltha Howellii Greene.
4297 Calycanthus occidentalis H. & A.
4805 Campanula prenanthoides Durand.
3852 Campanula rotundifolia L.
3844 Campanula scabrella wrongly so determined—should be Campanula Scouleri Hook form.
4697 Cardnus occidentalis Nutt.
4138 Carex atrata L. var. erecta Boott.
4386 Carex bifida Boott.
4440 Carex festiva Dew.
4450 Carum sp.
4503 Carum sp.
4284 Castanopsis sempervirens Dudley.
4057 Castilleia affinis H. & A.
4339 **Castilleia Culbertsonii** Greene n. sp.
1877 Castilleia Douglasii Bth. form.
4745 Castilleaia Douglassii Bth. form.
4745 Castilleia Douglasii Bth. form.
4300 **Castilleia exserta** Eastw. n. sp.
3883 **Castilleia fragilis** Eastw n. sp.
4424 Castilleia Lemmonii Grsy.
4478 Castilleia linariifolia Bth.
4207 Castilleia minor Gray.
3809 Castillaea montana Congdon.
3805 **Castilleia Shastense** Eastw. n. sp.
4588 Castilleia stenantha Gray.
4431 **Castilleia trisecta** Greene n. sp.
4770 Caucalis microcarpa H. & A.
4062 Ceanothus crassifolius Torr.
4010 Ceanothus cuneatus Nutt. form.
4055 Ceanothus cuneatus Nutt form.
4144 Ceanothus divaricatus Nutt.
4509 Ceanothus integerrimus H. & A.

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4684 Ceanothus parvifolius Trelease.
4201 Cephalanthus occidentalis L.
4539 Cerasus emarginata Dougl.
4206 Cercis occidentalis Torr.
4153 Cercocarpus betulaefolius Nutt.
4792 Cercocarpus ledifolius Nutt.
4305 Cercocarpus parvifolius Nutt.
4857 Chaenactis artemisiaefolia Gray.
4418 Chaenactis Douglasii H. & A.
4784 Chaenactis lanosa DC.
4853 Chaenactis tenuifolia Gray.
4402 Chamaebatia foliolosa Bth.
4121 Cheiranthus angustatus Greene.
1885 Cheiranthus capitatus Dougl.
4582 Chenopodium album L.
4654 Chenopodium Botrys L.
4394 **Chlorogalum virgatum** Eastw. n. sp.
3412 Chorizanthe polygonoides T. & G.
4706 Chorizanthe Xanti Wats.
4865 Chrysoma cuneata Greene.
4076 Chrysoma pinifolia (Gray) Greene.
4517 Chrysopsis Breweri Gray form.
4548 Chrysopsis Breweri Gray form.
4663 Chrysopsis Breweri Gray form.
4520 Chrysothamnus occidentalis Greene.
4361 **Chrysothamnus vulcanicus** Greene n. sp.
4208 Clarkia rhomboidea Dougl.
4726 Claytonia perfoliata Don.
4547 Clematis ligusticifolia Nutt.
4568 Coleosanthus Californicus Ktze.
4587 Collinsia bicolor Bth.
4747 Collinsia bicolor Bth. form.
4213 Collinsia tinctoria Hartweg.
4220 Collinsia Wrightii Wats.
4479 **Comandra Californica** Eastw. n. sp.
4716 Convolvulus occidentalis Gray.
4585 Conyzella Canadensis Rupr.
3514 Corallorhiza multiflora Nutt.
4649 Corethrogyne filaginifolia Nutt.
4686 Cornus Nuttallii Audubon.
4279 Cornus sp.
4694 Corylus Californica Rose.
4560 Crepis acuminata Nutt.
4074 Crossosoma Californicum Nutt.
3481 Cryptanthe affinis (Gray) Greene.
4744 **Cryptanthe incana** Greene n. sp.
4769 Cryptanthe intermedia (Gray) Gr.
4773 Cryptanthe intermedia (Gray) Gr.
4779 Cryptanthe microstachys Gr. form.
4780 Cryptanthe microstachys Gr. form.
4327 Cryptanthe Torreyana Greene.
3550 **Cryptanthe trifurca** Eastw. n. sp.
3498 Cuscuta Californica Choisy.
3954 Cuscuta subinclusa D. & H.
4506 Cynoglossum viride Eastw.
3848 Cystopteris fragilis Bernh. form.
4352 Cystopteris fragilis Bernh. form.
4515 Cystopteris fragilis Bernh. form.
3733 Datisca glomerata (Presl.) B. & W.
4215 Datisca glomerata (Presl.) B. & W.
4203 Deinandra Heermani Greene.
4231 Deinandra Kelloggii Greene.
3347 Delphinium cardinale Hook.
4392 **Delphinium luporum** Greene n. sp.
2620 Delphinium nudicaule T. & G.
4150 Dendromecon rigida Bth.
4067 Dentaria Californica Nutt.
4369 Deschampsia caespitosa Beauv. form
4419 Deschampsia caespitosa Beauv. form.
4407 **Diplacus calycinus** Eastw. n. sp.
4152 Diplacus puniceus Nutt.
4330 Distegia intermedia Greene.
4350 Dodecatheon Clevelandi Greene.
4380 Dodecatheon Jeffreyi Moore.
4531 Dodecatheon Jeffeyi Moore.
var. redolens Hall.
4126 Draba cuneifolia
var. integrifolia Wats.
4467 Draba stenoloba Ledeb.
4353 **Drudeophytum stellatum** Eastw. n. sp.
4469 Drymocallis Hanseni Rydb.
3660 Dryopteris arguta Kaulf. form.
4290 Dryopteris arguta Kaulf. form.
4302 Dryopteris arguta Kaulf. form.
4859 Dudleya Brauntoni Rose.
4842 Dudleya lurida Rose.
4841 Dudleya sp.
4345 Edwinia Americana Heller.
4739 Ellisia chrysanthemifolia Bth.

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FUNGI.

Large collections made during 1904 still await determination.

4165 Aecidium Lupini Pk.
4195 Aecidium Peckii DeT.
4038 **Briardia nigerrima** E. & E. n. sp.
4043 Calicium subtile Pers. ?
4041 **Didymosphaeria Catalinae** E. & E. n. sp.
4048 Geaster hygrometricus Pers.
4157 Hypoxylon occidentale E. & E.
4047 Lycoperdon gemmatum Batsch.
4039 **Phaenangium sphaeroides** E. & E. n. sp.
4044 Phoma Opuntiae Sacc. ?
4085 Pileolaria brevipes B. & Rav.
4072 Puccinia coronata Cda.
4160 Puccinia heterantha E. & E.
4197 Puccinia Sherardiana Korn.
4037 Thyridium lividum (Pers.)
4295 Uromyces Spragueae Hark.
4083 Ustilago Avenae (Pers.) Jens.

LICHENS.

4800 Cladonia fimbriata Jr.
4799 Cladonia pyxidata (L.) Jr. var. chlorophaea Flk.
4816 Lecanora atra (Huds.) Nyl.
4820 Lecanora subfusca (L.) Ach.
4817 Rinodina succedens Nyl.
4818 Theloehistes polycarpa (Ehrh.)

SPERMAPHYTES and FERNS.

4812 Abies concolor (Gord.) Parry.
4804 Abronia alpina Brandegee.
4125 Abronia maritima Nutt.
4554 Acer diffusum Greene.
4678 **Acer minusculum** Greene n. sp.
4288 Acer Torreyi Greene.
4445 Achillaea lanulosa Nutt.
4500 Achillaea lanulosa Nutt.
4257 Actaea arguta Nutt.
4314 Agastache glaucifolia Heller.
4421 Agoseris alpestris (Gray) Greene.
4422 Agoseris monticola Greene form.
4545 Agoseris monticola Greene form.
4697 Agrostis microphylla Steud.
4700 Agrostis scabra Willd.
3403 Allium haematochiton Wats.
3391 Allium peninsulare Lemmon.
4363 Allium validum Wats. form.
4368 Allium validum Wats. form.
4241 Amarella Californica Greene.
4647 Amelanchier glabra Greene.
3816 Anaphalis margaritacea B. & H. form.
4335 Anaphalis margaritacea B. & H. form.
4494 Anaphalis margaritacea B. & H. form.
4276 Angelica lineariloba Gray form.
4279 Angelica lineariloba Gray form.
4505 Antennaria media Greene.
3424 Antennaria rosea Greene form.
4465 Antennaria rosea Greene form.
4650 Anthemis cotula L.

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4298 Gilia aggregata Spreng. var. Bridgesii Gray.
4113 Gilia floribunda Gray.
4777 Gilia gilioides (Bth.) Greene.
4326 Gilia gilioides (Bth.) Greene.
4111 Gilia millefoliata F. & M. form.
4112 Gilia millefoliata F. & M. form.
4184 Gilia millefoliata F. & M. form.
4185 Gilia millefoliata F. & M. form.
4536 Gilia Nuttallii Gray.
4518 Gilia virgata var. floribunda Gray.
4696 Glyceria pauciflora Presl.
4480 Gnaphalium Californicum DC. †
4846 Gnaphalium Californicum DC.
4656 Gnaphalium microcephalum Nutt.
4675 Gnaphalium palustre Nutt. form.
4698 Gnaphalium palustre Nutt. form.
4699 Gnaphalium palustre Nutt. form.
4495 **Godetia divaricata** Eastw. n. sp.
4714 Godetia Dudleyana Abrams.
4735 Godetia epilobioides Nutt.
4713 Godetia sp.
4507 Godetia Williamsoni Wats.
2884 Grindelia rubricaulis DC.
4245 Habenaria leucostachys Wats.
4843 Hasseanthus multicaulis Rose.
4584 Hazardia Whitneyi (Gray) Greene.
4484 Helenium Bigelovii Gray. †
4359 Helenium Hoopesii Gray. var.
4273 Helenium rivulare Greene.
4719 Helianthus gracilentus Gray.
4546 Helianthus exilis Gray.
4709 Helianthus Parishii Gray.
4447 Hemizonia Wheeleri Gray.
4175 Heterotheca grandiflora Nutt.
4253 Heuchera lithophila Heller.
4248 Heuchera micrantha Dougl.
4435 Hieracium albiflorum Hook. form.
4493 Hieracium albiflorum Hook. form
4311 Hieracium horridum Fries. var.
4332 Holodiscus dumosus Heller.
3484 Hookera minor Britten.
4760 Horkelia Clevelandi (Greene) Rydb.
4405 **Horkelia mollis** Eastw. n. sp.
4309 Horkelia pinetorum Rydb.
4543 Hulsea algida Gray.
4652 Hypericum anagalloides C. & S.
4218 Hypericum Scouleri Hook. form.
4271 Hypericum Scouleri Hook. form.
4579 Jamesia Americana T. & G.
4750 Juglans Californica Wats.
4701 Juncus effusus L.
4483 Juncus longistylis Torr.
4501 Juncus nevadensis Wats.
4377 Juncus Parryi Eng.
3545 Juniperus occidentalis Hook.
4334 Juniperus occidentalis Hook.
3837 Koellia Californica (Torr.) Ktze.
4393 Lappula nervosa (Keil.) Greene. form.
4471 Lappula nervosa (Keil.) Greene. form.
4762 Lathyrus laetiflorus Greene.
4426 Ledum glandulosum Nutt.
4783 Leptodactylon Californicum H. & A.
4451 Leptodactylon Hookeri Greene.
2602 Leptotaenia Californica Nutt.
4233 Lessingia glandulifera Gray.
4658 Lessingia ramulosa Gray.
4090 Leptosyne Douglasii DC.
2800 Lomatium caruifolium (H. & A.) C. & R.
4752 Lomatium dasycarpum (T. & G.) C. & R.
4743 Lomatium utriculatum (Nutt.) C. & R.
4313 Lonicera conjugialis Kell.
4251 Lonicera interrupta Bth.
4569 Lophanthus urticifolius Bth.
4202 Lotus americanus (Nutt.) Bisch. form.
4287 Lotus americanus (Nutt.) Bisch. form.
4293 Lotus crassifolius (Bth.) Greene.
4373 **Lotus cupreus** Greene n. sp.
3450 Lotus Heermanni. (D. & H.) Greene. form.
3456 Lotus Heermanni (D. & H.) Greene form.
4715 Lotus Heermanni (D. & H.) Greene. form.
4514 Lotus Nevadensis Greene.
4708 Lotus oblongifolius (Bth.) Greene.
4768 Lotus salsuginosus Greene.

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4006 Lotus strigosus (Nutt.) Greene form.
4173 Lotus strigosus (Nutt.) Greene form.
4216 Lotus Torreyi Greene form.
4473 Lotus Torreyi Green form.
4687 Lotus Torreyi Greene form.
4811 Libocedrus decurrens Torr.
4409 Ligusticum sp. ?
4296 Lilium Kelleyanum Lemmon.
4333 Lilium Kelleyanum Lemmon.
4060 Linanthus dianthiflorus (Bth.)
4414 Linanthus montanus Greene form.
4221 Linanthus oblanceolatus Eastw. n. sp.
4741 Linanthus parviflorus (Bth.) Greene.
4561 Linum Lewisii Pursh.
4589 Linus Lewisii Pursh.
4212 Lippia nodiflora Mx.
4754 Lithophragma affinis Gray.
3041 Lithophragma heterophylla T. & G.
4722 Lupinus affinis Agardh.
4008 Lupinus albifrons Bth. form.
4098 Lupinus albifrons Bth. form.
3918 Lupinus Andersonii Gray.
4401 Lupinus Breweri Gray.
4475 **Lupinus Culbertsonii** Greene n. sp.
4552 **Lupinus Culbertsonii** Greene n. sp.
4729 Lupinus cytisoides Agardh form.
4274 Lupinus cytisoides Agardh form.
4272 **Lupinus dasyphyllus** Greene n. sp.
4103 Lupinus gracilis Agardh.
4096 Lupinus hirsutissimus Bth. form.
4737 Lupinus hirsutissimus Bth. form.
4102 **Lupinus Hyacinthinus** Greene n. sp.
4416 **Lupinus hypoleucus** Greene n. sp.
4107 Lupinus laetiflorus Greene form.
4108 Lupinus laetiflorus Greene form.
4109 Lupinus laetiflorus Greene form.
4186 Lupinus laetiflorus Greene form.
4187 Lupinus laetiflorus Greene form.
4101 Lupinus mieranthus Dougl.
4740 Lupinus mieranthus Dougl. form.
3861 Lupinus minimus Dougl.
4100 Lupinus polycarpus Greene.
4099 Lupinus truncatus Nutt. form.
4190 Lupinus truncatus Nutt. form.
4191 Lupinus truncatus Nutt. form.
4191 Lupinus truncatus Nutt. form.
4007 Lupinus umbellatus Greene.
4425 Luzula campestris DC.
4388 Luzula spadicea DC.
4145 Lycium Parishii Gray.
4227 Lythrum Californicum T. & G.
4230 Lythrum hyssopifolia L.
4535 Macronema Bolanderi (Gray) Gr.
4680 Macronema discoideum Nutt.
4263 Madaria corymbosa DC. form.
4412 Madaria corymbosa DC. form.
4166 Meconella denticulata Greene form.
4755 Meconella denticulata Greene form.
4198 Melica imperfecta Kin.
4781 Melica longiligula Scrib. form.
4782 Melica longiligula Scrib. form.
4204 Mentha arvensis L.
4283 Mentha sativa L.
4229 Mentha spicata L.
4141 Mentzelia affinis Greene.
4681 Mentzelia laevicaulis (Dougl.) T. & G.
4306 Mentzelia Lindleyi T. & G
4705 Mentzelia mierantha T. & G.
4375 **Mertensia Californica** Eastw. n. sp.
3429 Mierampelis microcarpa Greene.
4058 Mierampelis microcarpa Greene.
4813 Mimetanthe pilosa (Bth.) Greene.
4291 Mimulus cardinalis Dougl.
4864 Mimulus floribundus Dougl. form.
4214 Mimulus floribundus Dougl. form.
4270 Mimulus grandis (Greene) Heller.
4544 Mimulus implexus Greene.
3808 Mimulus Llangsdorfii Sims form.
4142 Mimulus Llangsdorfii Sims form.
4259 **Mimulus tortuosus** Greene n. sp.
4292 **Mimulus vestitus** Greene n. sp.
4149 Mirabilis Californica Gray.
4385 Mitella Breweri Gray.
4489 Monardella sanguinea Greene.
4448 Monardella Sheltonii Torr. form.
4477 Monardella Sheltonii Torr. form.
4258 Montia Chamissonis Greene.

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4068 Montia perfoliata (Don) Howell.
4791 Montia perfoliata (Don) Howell var.
3382 Muilla serotina Greene.
4759 Muilla serotina Greene.
4682 Rothrockii Gray.
3553 Navarretia intertexta Hook.
3858 Nelllia capitata Greene.
4123 **Nemophila Bakeri** Eastw. n. sp.
4124 Nemophila insignis Dougl.
4182 Nemophila intermedia Bioletti form.
4183 Nemophila intermedia Bioletti form.
4417 Nicotiana attenuata Torr.
4733 Notholaena Newberryi Eaton.
4535 Oenothera Hookeri T. & G. form.
4801 Oenothera Hookeri T. & G. form.
4526 Oenothera xylocarpa Coville.
4356 Oreostemma Andersonii (Gray) Gr.
4406 Oreostemma Andersonii (Gray) Gr.
4265 Oreochaenactis thysanocarpa Coville
3897 Orthocarpus bracteosus Lth.
4270 Orthocarpus exsertus Heller form.
4132 Orthocarpus exsertus Heller form.
4395 **Osmaronia montana** Eastw. n. sp.
4175 Oxalis Wrightii Gray.
4443 Oxytheca spergulina Greene.
4570 Oxytheca spergulina Greene.
4120 Paeonia Californica Nutt.
3860 Parnassia Californica Greene form.
4563 Parnassia Californica Greene form.
4135 Pectocarya linearis (R. & P.) DC. form.
4139 Pectocarya linearis (R. & P.) DC. form.
4449 Pedicularis attolens Gray.
3901 **Pedicularis concinna** Eastw. n. sp.
4459 Pedicularis Groenlandica Retz.
4430 Pedicularis semibarbata Gray.
4802 Pellaea densa Hook.
4657 Pellaea ornithopus Hook.
4275 Pentstemon Bridgesii Gray.
4511 Pentstemon breviflorus Lindl.
4551 **Pentstemon cephalophorus** Greene n. sp.
4464 Pentstemon Davidsonii Greene.
4778 Pentstemon heterophyllus Lindl.
4516 Pentstemon Newberryi Gray.
4278 Pentstemon Palmeri Gray.
4462 Pentstemon procerus Dougl.
4704 **Pentstemon spathulatus** Eastw. n. sp.
4718 Pentstemon speetabilis Thurb.
4519 Pericome caudata Gray.
4540 Petrophytum caespitosum (Nutt.) Rydb.
4335 **Phacelia dasyphylla** Greene n. sp.
4104 Phacelia distans Bth. form.
4106 Phacelia distans Bth. form.
4724 Phacelia distans Bth. form.
4415 **Phacelia egena** Greene n. sp.
3831 Phacelia frigida Greene.
4749 Phacelia hispida Gray ferm.
4776 Phacelia hispida Gray form.
4456 Phacelia hydrophylloides Torr.
690 Phacelia imbricata Greene form.
3920 Phacelia Magellanica Coville.
4200 Phacelia virgata var. ampliata Greene.
4105 Phacelia Whitlavia Gray.
4170 Phacelia Whitlavia Gray.
4583 Phegopteris alpestris Nutt.
4481 Philadelphus Gordonianus Lindl.
4377 Phleum alpinum L.
4403 Phlox Douglasii Hook.
4354 Phyllodoce Breweri Heller.
4499 Phyllodoce Breweri Heller.
4814 Pinus albicaulis Eng.
4815 Pinus Balfouriana Murray.
4813 Pinus monophylla T. & G.
4863 Pinus Murrayana Oreg. Comm.
4862 Pinus Sabiniana Dougl.
4844 Pipera lanceifolia Rydb.
4243 **Piptocalyx hispida** Greene n. sp.
3392 Plantago Bigelovii Gray.
4726 Plantago erecta Morris form.
3409 Plantago Virginica L. var.
4148 Pluchea sericea (Nutt.) Coville.
4436 Poa Bolanderi Vasey.
4542 Polemonium eximium Greene.
4256 Polemonium occidentale Greene.
3515 **Polemonium Shastense** Eastw. n. sp.
4262 Polygonum Douglasii Greene form.

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4391 Polygonum Douglasii Greene form.
4533 Polygonum Douglasii Greene form.
4389 Polygonum Kelloggii Greene.
4167 Polypodium Californicum Kaulf.
3674 Polystichum munitum (Kaulf.) Underw.
3482 Potomogeton heterophyllus Schreb.
4458 Potentilla Breweri Wats.
4442 Potentilla Nuttallii Lehm.
4550 Potentilla Wheeleri Wats.
4524 Primula suffrutescens Gray.
4692 Pterospora andromeda Nutt. form.
4691 Pterospora andromeda Nutt. form.
4169 Pterostegia drymarioides F. & M.
4541 Ptiloria exigua (Nutt.) Greene.
4586 Ptiloria exigua (Nutt.) Greene.
3838 Ptiloria lactucina (Gray) Greene.
4664 Pyrola pallida Greene.
4366 Pyrola secunda L.
3522 Quercus Garryana Dougl.
4529 Raillardella scaposa Gray.
4751 Ramona stachyoides (Bth.) Briquet.
4351 Ranunculus alismellus Greene.
4470 Ranunculus alismellus Greene.
4564 Razoumofskya occidentalis Coville.
4299 Rhamnus cuspidata Greene.
4205 **Rhamnus denticulata** n. sp.
4217 Rhamnus ilicifolia Kellogg.
4491 Rhamnus insularis Kell.
4532 Rhodiola integrifolia Raf.
4156 Rhus integrifolia (Nutt.) B. & H.
4147 Rhus ovata Wats.
4734 Rhus trilobata Nutt. var.
4064 Ribes amarum McClatchie.
4277 Ribes amictum Greene.
4690 Ribes ascendens Eastw.
4525 Ribes cereum Dougl.
3981 Ribes hesperium McClatchie.
4063 Ribes hesperium McClatchie.
4530 Ribes lentum Coville & Rose form.
4571 Ribes lentum Coville & Rose form.
.... Ribes malvaceum Smith
var. viridifolium Abrams.
3983 Ribes indecorum Eastw. form.
4009 Ribes indecorum Eastw. form.
4011 Ribes indecorum Eastw. form.
4559 Ribes saxosum Hook.
4154 Ribes tenuiflorum Lindl.
4393 Ribes viscosissimum Pursh.
4573 Rosa gratissima Greene.
4684 Rubus parviflorus Nutt.
4289 Rudbeckia Californica Gray.
4371 Rumex paucifolius Nutt.
4492 Rumex salicifolius Weinm.
4807 Rumex salicifolius Weinm.
4583 Salix Californica Bebb.
4146 Salix nigra Marsh.
4143 Salvia Columbariae Bth.
3399 Sanicula arguta Greene.
4775 Sanicula bipinnata H. & A.
4761 Sanicula tuberosa Torr.
4311 Saxifraga aestivalis Fisch. form.
4437 Saxifraga aestivalis Fisch. form.
4683 Saxifraga ledifolia Greene.
3845 Saxifraga nidifica Greene.
4365 Saxifraga Oregana Howell form.
4428 Saxifraga Oregana Howell form.
4199 Scutellaria Bolanderi Gray.
4446 Scutellaria siphocampyloides Watke.
4756 Scutellaria tuberosa Bth.
4178 Senecio Californicus DC.
4268 **Senecio Millikeni** Eastw. n. sp.
4474 **Senecio Culbertsonii** Greene n. sp.
4444 Senecio Fremontii T. & G.
4317 Senecio trigonophyllus Greene form.
4 Senecio trigonophyllus Greene form.
4255 **Sidalcea ranunculacea** Greene n. sp.
4318 **Sidalcea ranunculacea** Green n. sp.
4498 **Silene aperta** Greene n. sp.
3853 Silene Gray Wats.
4742 Silene laciniata Cav. form.
4858 Silene laciniata Cav. form.
4247 Sisymbrium incisum Eng.
4267 Sisymbrium incisum Eng.
4766 Sisyrhynchium bellum Wats.
4269 Sisyrhynchium Greenei Bicknell.
4269 Sisyrhynchium sp.
4242 Sium cicutaefolium Gmelin.
4059 Solanum Xanti
var. intermedium Parish form.
4323 Solanum Xanti
var. intermedium Parish form.

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3823 Solidago elongata Nutt. form.
4455 Solidago elongata Nutt. form.
4453 Solidago elongata Nutt. form. ?
4468 Solidago multiradiata Ait.
4527 Sorbus Californica Greene form.
4674 Sorbus Californica Greene form.
4115 Sphaerostigma campestre (Greene) Small.
3033 Sphaerostigma contortum (Dougl.) Walp. form.
4116 Sphaerostigma contortum (Dougl.) Walp. form.
4119 Sphaerostigma Veitchianum (Hk.) Small, form.
4171 Sphaerostigma Veitchianum (Hk.) Small, form.
4181 Sphaerostigma Veitchianum (Hk.) Small, form.
4364 Sphenosciadum capitellatum Gray.
4294 Spraguea umbellata Torr.
4211 Stachys lanuginosa Greene form.
4399 Stachys lanuginosa Greene form.
4567 Stachys lanuginosa Greene form.
4408 Stellaria Jamesii Torr.
4370 Stellaria laeta Rich.
4315 Stellariopsis santolinoides Rydb.
4576 Streptanthus orbiculatus Greene.
4553 **Swertia Covillei** Greene n. sp.
4316 Symphoricarpos glaucus Eastw.
4557 Symphoricarpos mollis Nutt. form.
4307 Tetradymia canescens DC.
4381 Thalictrum Fendleri var. platycarpum Trelease.
4855 Therofon rotundifolium (Parry) Wheelock.
4228 Trichostema lanceolatum Gray.
4677 Trichostema oblongum Bth.
4176 Trifolium aciculare Nutt form.
4774 Trifolium aciculare Nutt. form.
4209 Trifolium majus Greene.
4772 Trifolium microcephaum Pursh.
4344 Trifolium monanthum Gray form.
4457 Trifolium monanthum Gray form.
4282 Trifolium spinulosum Dougl.
4246 Trifolium tenerum Eastw.
4439 Trisetum subspicatum Beauv.
4127 Tropidocarpum gracile Hook.
4128 Tropidocarpum gracile Hook.
4367 Tumion Californicum (Torr.) Gr.
4758 Uropappus linearifolius (DC) Nutt.
4360 Urtica Breweri Wats.
4252 Vagnera amplexicaulis (Nutt.) Greene.
4362 Vagnera stellata (L.) Morong.
4376 Valeriana occidentalis Heller.
3841 Valeriana sylvatica Banks.
4322 Veratrum Californicum Durand.
4210 Verbena prostrata R. Br.
4264 Veronica Americana Schwein.
3931 **Veronica Copelandi** Eastw. n. sp.
4319 Veronica serpyllifolia L.
4757 Vicia exigua Nutt.
1954 Vicia gigantea Hook.
4400 **Viola Culbertsonii** Greene n. sp.
3721 Viola longipes Nutt.
4566 Viola Macloskeyi Lloyd.
4765 Viola pedunculata T. & G.
4480 Viola pinetorum Greene.
4730 Washingtonia brachypoda (T. & G.) Heller.
4727 Washingtonia brevipes C. & R.
4502 **Zauschneria canescens** Eastw. n. sp.
4280 **Zauschneria elegans** Eastw. n. sp.

PLANTS OF PACIFIC CENTRAL AMERICA. SERIES II.—

NICARAGUA LICHENS.

2374 Buellia subdisciformis (Lghtf.) Wainio.
2116 Glyphis favulosa var. intermedia Muell. Arg.
2372 **Graphina Bakeri** A. Zahlb. n. sp.
2371 **Graphina bombacina** A. Zahlb. n. sp.
2251 **Graphina Chinandagensis** A. Zahlb. n. sp.
2262 **Graphis subanguilliformis** A. Zahlb. n. sp.
2079 Graphis tenella Ach.
2373 Graphis tenella Ach.
2080 Lecanactis myriadea (Fee) A. Zahlb.
2370 Lecanora subfusca var. glabrata Ach.

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SPERMAPHYTES.

2085 Melaspilea arthrosioides (Fee) *Nyl.*
2263 Physcia picta (Sw.) Nyl.
2081 Physcia picta var. aegiliata (Ach.) Hue.
2304 Pyxine Meissneri Tuck.
2136 Acacia Farnesiana Willd.
2325 Acacia aff. filicina Willd.
2429 Acacia aquinatula Bth.
2546 Acacia spadicigera C. & S.
2278 Aeschynomene sp.
2182 Aspasia epidendroides Liadl.
2074 Caesalpinia Bonducella Flem.
2326 Caesalpinia exostemma DC.
2298 Caesalpinia pulcherrima Sw.
2287 Cassia fistula L.
2547 Cassia grandis L.
2401 Cassia Tora L.
2364 Dalbergia sp.
2362 Epidendrum aff. Linkianum Kl.
2474 Epidendrum sp. sc. Euepidendrum.
2119 Erythrina sp.
2275 Erythrina sp.
2195 Glyricida maculata H. B. K.
2542 Hymenaea sp.
2277 Indigofera Anil L.
2091 Laelia acuminata Ldl.
2314 Machaerium sp.
2043 Mimosa sp.
2177 Oncidium ampliatum Lindl.
2557 Parkinsonia aculeata L.
2342 Peperomia glabella A. Dietr.
2178 Peperomia Narajoana C. DC. var. **latifolia**. C. DC. n. var.
2343 **Peperomia** n. sp.
2337 Peperomia obtusifolia A. Dietr.
2193 Peperomia pellucida Kunth.
2487 Piper aduncum L.
2254 Piper aequale Vahl.
2017 Piper auritum Kunth.
2014 **Piper Bakeri** C. DC. n. sp.
2189 Piper citrifolium Lam.
2431 Piper marginatum Jacq.
2009 Piper Martensianum C. DC.
2462 **Piper Mombachoanum** C. DC. n. sp.
2078 Pithecolobium dulce Bth.
2004 Pithecolobium saman (Jacq.) Bth.
2076 Prosopis juliflora DC.

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