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H. 64
1895-96
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HOWELL'S PACIFIC COAST PLANTS.

Price: less than 50, 8 cents each: 50 to 500, 5 cents each: 500 or more, 4 cents each. Sent prepaid to any part of the United States.

Thomas Howell, Arthur, Oregon.

Money-order office, Portland, Oregon.

1	<i>Anemone deltoidea</i> Hook.	50	<i>Braya Oregonensis</i> Gray.
2	<i>Thalictrum occidentale</i> Gray.	51	<i>Capsella divaricata</i> Walp.
3	<i>polycarpum</i> Watson.	52	<i>Lepidium dictyotum</i> Gray.
4	<i>Myosurus minimus</i> L.	53	var. <i>acutidens</i> Gray
5	<i>aristatus</i> Benth.	54	<i>Thysanocarpus pusillus</i> Hook
6	<i>sessilis</i> Watson.	55	<i>curvipes</i> Hook.
7	<i>Ranunculus Flammula</i> L.	56	<i>Viola sarmentosa</i> Dougl.
8	var. <i>reptans</i> Meyer.	57	<i>glabella</i> Nutt.
9	<i>glaberrimus</i> Hook.	58	<i>Hallii</i> Gray.
10	<i>Hookeri</i> Reg.	59	<i>trinervata</i> Howell.
11	<i>Nelsoni</i> v. <i>tenellus</i> Gray.	60	<i>canina</i> v. <i>adunca</i> Gray.
12	<i>occidentalis</i> Nutt.	61	<i>Polygala cucullata</i> Benth.
13	<i>orthorhynchus</i> Hook.	62	<i>Silene Lyallii</i> Watson.
14	<i>muricatus</i> L.	63	<i>Menziesii</i> Hook.
15	<i>Caltha leptosepala</i> DC.	64	<i>Hookeri</i> Nutt.
16	<i>Coptis asplenifolia</i> Salisb.	65	<i>Oregana</i> Watson.
17	<i>occidentalis</i> T. & G.	66	<i>Douglasii</i> Hook.
18	<i>Isopyrum stipitatum</i> Gray.	67	<i>Scouleri</i> Hook.
19	<i>Aquilegia formosa</i> F. & M.	68	<i>Cerastium nutans</i> Raf.
20	<i>Delphinium Menziesii</i> DC.	69	<i>arvense</i> L.
21	<i>simplex</i> Dougl.	70	<i>Stellaria crispa</i> C. & S.
22	<i>trolliifolium</i> Gray.	71	<i>borealis</i> Bigel.
23	<i>Actaea spicata</i> v. <i>arguta</i> Torr.	72	<i>Arenaria capillaris</i> Poir.
24	<i>Berberis aquifolium</i> Pursh.	73	<i>Franklinii</i> Dougl.
25	<i>nervosa</i> Pursh.	74	<i>Douglasii</i> T. & G.
26	<i>Vancouveria hexandra</i> M. & D	75	<i>Californica</i> Brewer.
27	<i>Achlys triphylla</i> DC.	76	<i>Michauxii</i> Hooker f.
28	<i>Eschscholtzia Californica</i> C.	77	<i>verna</i> v. <i>hirta</i> Watson.
29	<i>Platystigma Oreganum</i> B. & H.	78	<i>macrophylla</i> Hook.
30	<i>Dicentra formosa</i> DC.	79	<i>Sagina occidentalis</i> Watson.
31	<i>Corydalis Scouleri</i> Hook.	80	<i>Linnæi</i> Presl.
32	<i>Nasturtium curvisiliqua</i> Nutt.	81	<i>Claytonia lanceolata</i> Pursh.
33	<i>Arabis Holboëllii</i> Hornem.	82	<i>perfoliata</i> Donn.
34	<i>Cusickii</i> Watson.	83	<i>exigua</i> T. & G.
35	<i>suffrutescens</i> Watson.	84	<i>Sibirica</i> L.
36	<i>fureata</i> Watson.	85	<i>diffusa</i> Nutt.
37	<i>longirostris</i> Watson.	86	<i>bulbifera</i> Gray.
38	<i>Cardamine angulata</i> Hook.	87	<i>Chamissonis</i> Esch.
39	<i>hirsuta</i> L.	88	<i>linearis</i> Dougl.
40	<i>oligosperma</i> Nutt.	89	<i>dichotoma</i> Nutt.
41	<i>Dentaria tenella</i> Pursh.	90	<i>Montia fontana</i> L.
42	<i>Draba Caroliniana</i> Walt.	91	<i>Howellii</i> Watson.
43	<i>Cheiranthus Menziesii</i> B. & H.	92	<i>Spraguea umbellata</i> Torr.
44	<i>Platyspermum scapigerum</i> Hk.	93	<i>Hypericum Scouleri</i> Hook.
45	<i>Sisymbrium linifolium</i> Nutt.	94	<i>anagaloides</i> C. & S.
46	<i>canescens</i> Nutt.	95	<i>Malvastrum Munroanum</i> Gray
47	<i>Hartwegianum</i> Fournier	96	<i>Linum digynum</i> Gray.
48	<i>Smelowskia calycina</i> Meyer.	97	<i>micranthum</i> Gray.
49	<i>Thelypodium laciniatum</i> End.	98	<i>Geranium incisum</i> Nutt.

99 *Carolinianum* L.
 100 *Limnanthes Douglasii* R. Br.
 101 *alba* Hartw.
 102 *Flörkea proserpinacoides* W.
 103 *Oxalis Oregana* Nutt.
 104 *Euonymus occidentalis* Nutt.
 105 *Pachystima myrsinites* Raf.
 106 *Rhamnus Purshiana* DC.
 107 *Ceanothus sanguineus* Pursh.
 108 *velutinus* Dougl.
 109 *integerrimus* H. & A.
 110 *prostratus* Benth.
 111 *Acer macrophyllum* Pursh.
 112 *glabrum* Torr.
 113 *circinatum* Pursh.
 114 *Rhus diversiloba* T. & G.
 115 *Thermopsis montana* Nutt.
 116 *Lupinus rivularis* Dougl.
 117 *littoralis* Dougl.
 118 *albicaulis* Dougl.
 119 *ornatus* Dougl.
 120 *sericeus* Pursh.
 121 *leucophyllus* Dougl.
 122 *aridus* Dougl.
 123 *var. Lobbii* Watson.
 124 *Lyallii* Gray.
 125 *micranthus* Dougl.
 126 *Trifolium megacephalum* Nutt.
 127 *eriocephalum* Nutt.
 128 *plumosum* Dougl.
 129 *longipes* Nutt.
 130 *Macraei* H. & A.
 131 *ciliatum* Nutt.
 132 *gracilentum* T. & G.
 133 *involutum* Willd.
 134 *tridentatum* Lindl.
 135 *pauciflorum* Nutt.
 136 *microdon* H. & A.
 137 *cyathiferum* Lindl.
 138 *Hosackia crassifolia* Benth.
 139 *bicolor* Dougl.
 140 *parviflora* Benth.
 141 *decumbens* Benth.
 142 *Psoralea physoides* Dougl.
 143 *Astragalus Purshii* Dougl.
 144 *inflexus* Dougl.
 145 *speirocarpus* Gray.
 146 *filipes* Torr.
 147 *Howellii* Gray.
 148 *sclerocarpus* Gray.
 149 *drepanolobus* Gray.
 150 *arrectus* Gray.
 151 *collinus* Dougl.
 152 *var. subglabra* Gray.
 154 *reventus* Gray.
 155 *lentiginosus* Dougl.

156 *succumbens* Dougl.
 157 *Vicia Americana* var. *truncata*
 158 *Lathyrus littoralis* Endl.
 159 *Nevadensis* Watson.
 160 *sulphureus* Brewer.
 161 *Prunus mollis* Walp.
 162 *demissa* Walp.
 163 *Nuttallia cerasiformis* T. & G.
 164 *Spiraea betulifolia* Pallas.
 165 *chamaedrifolia* C. & S.
 166 *Douglasii* Hook.
 167 *ariaefolia* Smith.
 168 *dumosa* Nutt.
 169 *Aruncus* L.
 170 *occidentalis* Watson.
 171 *Neillia opulifolia* v. *mollis* Bre.
 172 *Rubus Nutkanus* Mocino.
 173 *spectabilis* Pursh.
 174 *leucodermis* Dougl.
 175 *ursinus* C. & S.
 176 *pedatus* Smith.
 177 *Purshia tridentata* DC.
 178 *Cercocarpus parvifolius* Nutt.
 179 *Geum macrophyllum* Willd.
 180 *Potentilla gracilis* Dougl.
 181 *rivalis* v. *millegrana* Wat.
 182 *gelida* Meyer.
 183 *Anserina* v. *grandis* Leh.
 184 *Horkelia fusca* Lindl.
 185 *congesta* Hook.
 186 *Alchemilla occidentalis* Nutt.
 187 *Rosa Nutkana* Presl.
 188 *gymnocarpa* Nutt.
 189 *Pirus rivularis* Dougl.
 190 *sambucifolia* C. & S.
 191 *Crataegus Douglasii* Lindl.
 192 *Saxifraga integrifolia* Hook.
 193 *Mertensiana* Bong.
 194 *bronchialis* v. *cherleroides*
 195 *cæspitosa* L.
 196 *elegans* Nutt.
 197 *Sullivantia Oregana* Watson.
 198 *Boykinia occidentalis* T. & G.
 199 *Tolmiea Menziesii* T. & G.
 200 *Suksdorfia violacea* Gray.
 201 *Tellima grandiflora* R. Br.
 202 *parviflora* Hook.
 203 *tenella* Walp.
 204 *Tiarella trifoliata* L.
 205 *unifoliata* Hook.
 206 *Mitella trifida* Graham.
 207 *caulescens* Nutt.
 208 *pentandra* Hook.
 209 *Breweri* Gray.
 210 *Heucharia micrantha* Dougl.
 211 *glabella* Nutt.

212 *Parnassia fimbriata* Koenig.
 213 *Philadelphus Lewisii* Pursh.
 214 *Whipplea modesta* Torr.
 215 *Ribes Lobbii* Gray.
 216 *divaricatum* Dougl.
 217 var. *irriguum* Gray.
 218 *lacustre* Poir.
 219 *Hudsonianum* Richards.
 220 *bracteosum* Dougl.
 221 *cereum* Dougl.
 222 *viscosissimum* Pursh.
 223 *sanguineum* Pursh.
 224 *aureum* Pursh.
 225 *Tillæa angustifolia* Nutt.
 226 *Sedum Oreganum* Nutt.
 227 *divergens* Watson.
 228 *Drosera rotundifolia* L.
 229 *Anglica* Hudson.
 230 *Ludwigia palustris* Ell.
 231 *Epilobium spicatum* Lam.
 232 *tetragonum* L.
 233 *paniculatum* Nutt.
 234 *alpinum* L.
 235 *origanifolium* Lam.
 236 *glaberrimum* Barby.
 237 *Gayophytum diffusum* T. & G.
 238 *racemosum* T. & G.
 239 *Boisduvalia Torreyi* Watson.
 240 *Godetia lepiola* Lindl.
 241 *tenella* Watson.
 242 *amœna* Lilj.
 243 *Gaura parviflora* Dougl.
 244 *Cireea Pacifica* Asch. & Mag.
 245 *Crantzia lineata* Nutt.
 246 *Eryngium petiolatum* var.
 247 *Sanicula Menziesii* H. & A.
 248 *Nevadensis* Watson.
 249 *bipinnatifida* Dougl.
 250 *Carum Gairdneri* B. & H.
 251 *Osmorhiza nuda* Torr.
 252 *Glycyosma occidentale* Nutt.
 253 *ambiguum* Gray.
 254 *Enanthe sarmentosa* Nutt.
 255 *Ligusticum apiifolium* B. & H.
 256 *Cymopterus terebinthinus*
 257 *Peucedanum leiocarpum* Nutt.
 258 *triturnatum* Nutt.
 259 *simplex* Nutt.
 260 *Hallii* Watson.
 261 *utriculatum* Nutt.
 262 *millifolium* Watson.
 263 *macrocarpum* Nutt.
 264 *ferinosum* Geyer.
 265 *Ferula multifida* Gray.
 266 *Fatsia horrida* B. & H.
 267 *Cornus Nuttallii* Audubon.

268 *pubescens* Nutt.
 269 *Garrya Fremontii* Torr.
 270 *Sambucus glauca* Nutt.
 271 *racemosa* v. *arborescens*.
 272 *Linnæa borealis* v. *longiflora*
 273 *Symphoricarpus racemosus* M.
 274 *Lonicera ciliosa* Poir.
 275 *involucrata* Banks.
 276 *Kelloggia galioides* Torr.
 277 *Galium Aparine* L.
 278 var. *Vaillantii* Koch.
 279 *Kamtschaticum* Steller.
 280 *trifidum* L.
 281 *multiflorum* Kell.
 282 *Valerianella congesta* Lindl.
 283 *anomala* Gray.
 284 *Grindelia Oregana* Gray.
 285 *hirsutula* H. & A.
 286 *nana* Nutt.
 287 var. *discoidea* Gray.
 288 *Aplopappus Hallii* Gray.
 289 *Bloomeri* Gray.
 290 *carthimoides* Gray.
 291 *stenophyllus* Gray.
 292 *Solidago occidentalis* Nutt.
 293 *elongata* Nutt.
 294 *confertiflora* DC.
 295 *humilis* v. *nana* Gray.
 296 *Sericocarpus rigidus* Lindl.
 297 *Townsendia florifer* Gray.
 298 *Aster radulinus* Gray.
 299 *modestus* Lindl.
 300 *Douglasii* Lindl.
 301 *foliaceus* v. *apricus* Gray.
 302 *pulchellus* Eaton.
 303 *frondosus* T. & G.
 304 *canescens* Pursh.
 305 *Erigeron concinnus* T. & G.
 306 *poliospermus* Gray.
 307 *Chrysopsidis* Gray.
 308 *compositus* Pursh.
 309 *filifolius* Nutt.
 310 *decumbens*. Nutt.
 311 *inornatus* Gray.
 312 *divergens* T. & G.
 313 *acres* v. *debilis* Gray.
 314 *Micropus Californicus* F. & M.
 315 *Psilocarpus Oreganus* Nutt.
 316 *Antennaria dimorphia* T. & G.
 317 *flagellaris* Gray
 318 *Geyeri* Gray.
 319 *luzuloides* T. & G.
 320 *Carpathica* R. Br.
 321 *alpina* Gærtn.
 322 *dioica* Gærtn.
 323 *racemosa* Hook.

324 *Adenocaulon bicolor* Hook.
 325 *Franseria Chamissonis* Less.
 326 *Rudbeckia occidentalis* Nutt.
 327 *Balsamorhiza sagittata* Nutt.
 328 *Helianthus Nuttallii* T. & G.
 329 *Coreopsis Atkinsoniana* Dougl.
 330 *Blepharipappus scaber* Hook.
 331 *Madia Nuttallii* Gray.
 332 *glomerata* Hook.
 333 *filipes* Gray.
 334 *Hemizonella Durandi* Gray.
 335 *Lagophylla ramosissima* Nutt.
 336 *Layia glandulosa* H. & A.
 337 *Eriophyllum cæspitosum* Dgl.
 338 *Hulsea nana* Gray.
 339 *Rigiopappus leptocladus* Gray.
 340 *Chaenactis Douglasii* H. & A.
 341 *Petasites palmata* Gray.
 342 *Crocidium multicaule* Hook.
 343 *Tetradymia canescens* DC.
 344 *Senecio triangularis* Hook.
 345 *lugens* v. *exaltatus* Gray.
 346 *fastigiatus* Nutt.
 347 *Bolanderi* Gray.
 348 *Arnica cordifolia* Hook.
 349 *latifolia* Bong.
 350 *amplexicaulis* Nutt.
 351 *Chamissonis* Less.
 352 *Saussurea Americana* Eaton.
 353 *Cnicus remotifolius* Gray.
 354 *Microseris nutans* Gray.
 355 *troximci les* Gray.
 356 *Apargidium boreale* T. & G.
 357 *Hieracium Scouleri* Hook.
 358 *gracile* Hook.
 359 *albiflorum* Hook.
 360 *Crepis occidentalis* Nutt.
 361 *Troximon glaucum* Nutt.
 362 *apargioides* Less.
 363 *heterophyllum* Greene.
 364 *Downingia elegans* Torr.
 365 *Howellia aquatalis* Gray.
 366 *Githopsis specularioides* Nutt.
 367 *Campanula scabrella* Engelm.
 368 *Scouleri* Hook.
 369 *Heterocodon rariflorum* Nutt.
 370 *Vaccinium occidentale* Gray.
 371 *cæspitosum* v. *arbuscula*.
 372 *Myrtillus* v. *microphyllum*
 373 *myrtilloides* Hook.
 374 *parvifolium* Smith.
 375 *ovatum* Pursh.
 376 *Arctostaphylos tomentosa* Dgl.
 377 *Gaultheria shallon* Pursh.
 378 *Kalmia glauca* Ait.
 379 *Menziesia glabella* Gray.

380 *Rhododendron albiflorum* Hk.
 381 *occidentale* Gray.
 382 *Californicum* Hook.
 383 *Pyrola rotundifolia* v. *bracteata*
 384 *picta* Smith.
 385 *Pterospora andromedea* Nutt.
 386 *Sarcodes sanguinea* Torr.
 387 *Monotropa Hypopitys* L.
 388 *Trientalis Europæa* v. *latifolia*.
 389 *Glaux maritima* L.
 390 *Apocynum cannabinum* L.
 391 *Erythræa Douglasii* Gray.
 392 *Gentiana sceptrum* Griseb.
 393 *Frasera nitida* Benth.
 394 *Phlox Douglasii* Hook.
 395 var. *diffusa* Gray.
 396 *longifolia* Nutt.
 397 *speciosa* Pursh.
 398 *Gilia grandiflora* Gray.
 399 *linearis* Gray.
 400 *gracilis* Hook.
 401 *Sessei* Don.
 402 *glutinosa* Nutt.
 403 *liniflora* v. *pharnaceoides*
 404 *Bolanderi* Gray.
 405 *tenella* Benth.
 406 *intertexta* Steud.
 407 *aggregata* Spreng.
 408 *Larseni* Gray.
 409 *inconspicua* Dougl.
 410 *Polemonium humile* Willd.
 411 *cæruleum* L. ?
 412 *micranthum* Benth.
 413 *Hydrophyllum capitatum* Dgl.
 414 *Nemophila parviflora* Dougl.
 415 *Menziesii* H. & A.
 416 *Phacelia ramosissima* Dougl.
 417 *procera* Gray.
 418 *Menziesii* Torr.
 419 *Romanzoffia Sitchensis* Bong.
 420 *Hesperochiron pumilus* Porter.
 421 *Eriodictyon glutinosum* Benth.
 422 *Pectocarya pusilla* Gray.
 423 *Cynoglossum grande* Dougl.
 424 *Echinosperrum Redowskii*.
 425 *hispidum*.
 426 *Eritrichium Californicum* DC.
 427 *Scouleri* A. DC.
 428 *fulvum* A. DC.
 429 *tenellum* Gray.
 430 *pterocaryum* Torr.
 431 *glomeratum* DC.
 432 *ambiguum*.
 433 *Amsinckia lycopsoides* var.
 434 *Lithospermum pilosum* Nutt.
 435 *Californicum* Gray.

436 *Convolvulus Californicus* Ch.
 437 *Collinsia grandiflora* Dougl.
 438 var. *pusilla* Gray.
 439 *sparsiflora* F. & M.
 440 *parviflora* Dougl.
 441 *Rattani* Gray.
 442 *linearis* Gray.
 443 *Tonella collinsioides* Nutt.
 444 *Chelone nemorosa* Dougl.
 445 *Pentstemon Menziesii* Hook.
 446 var. *Scouleri* Gray.
 447 *acuminatus* Dougl.
 448 *confertis* v. *cæruleo-purpureus*
 449 *venustus* Dougl.
 450 *Richarnsonii* Dougl.
 451 *Mimulus nanus* H. & A.
 452 *Lewisii* Pursh.
 453 *cardinalis* Dougl.
 454 *alsinoides* Benth.
 455 *rubellus* Gray.
 456 *floribundus* Dougl.
 457 *moschetus* Dougl.
 458 *pilosus* Watson.
 459 *Gratiola ebracteata* Benth.
 460 *Limosella aquatica* L.
 461 *Synthyris rotundifolia* Gray.
 462 *reniformis* Benth.
 463 *Veronica Americana* Schwein.
 464 *alpina* L.
 465 *Castilleia parviflora* Bong.
 466 *miniata* Dougl.
 467 *pallida* v. *septrionalis*
 468 *Orthocarpus pilosus* Watson.
 469 *attenuatus* Gray.
 470 *castilleioides* Benth.
 471 *bracteosus* Benth.
 472 *pusillus* Benth.
 473 *hispidus* Benth.
 474 *Cordylanthus capitatus* Nutt.
 475 *pedicularis Grœnlandica* Ritz.
 476 *racemosa* Dougl.
 477 *bracteosa* Benth.
 478 *Aphyllon fasciculatum* Gray.
 479 *Trichostema oblongum* Benth.
 480 *lanceolatum* Benth.
 481 *Monardella odoratissima* Benth.
 482 *Palmeri* Gray. ?
 483 *Micromeria Douglasii* Benth.
 484 *Audibertia incana* Benth.
 485 *Lophanthus urticifolius* Benth.
 486 *Scutellaria lateriflora* L.
 487 *antirrhinoides* Benth.
 488 *Physostegia parviflora* Nutt.
 489 *Stachys palustris* L.
 490 *ciliata* v. *pubens* Gray.
 491 *Plantago Patagonica* Jacq.

492 *Abronia latifolia* Esch.
 493 *Rumex venosus* Pursh.
 494 *occidentalis* Watson.
 495 *Polygonum paronychia* C. & S.
 496 *erectum* L.
 497 *minimum* Watson.
 498 *coarctatum* Dougl.
 499 *polygaloides* Meisner.
 500 *imbricatum* Nutt.
 501 *intermedium* Nutt.
 502 *Bistorta* L.
 503 *Davisiae* Brewer.
 504 *Parryi* Greene.
 505 *Eriogonum pyrolæfolium* var.
 506 *sphærocephalum* Dougl.
 507 *umbellatum* Torr.
 508 *heracleoides* Nutt.
 509 *dichotomum* Dougl.
 510 *nudum* Dougl.
 511 *vimineum* Dougl.
 512 *Sarcobatus vermiculatus* Torr.
 513 *Monolepis chenopodioides* Mo.
 514 *Grayia polygaloides* H. & A.
 515 *Umbellularia Californica* Nutt.
 516 *Urtica dioica* L.
 517 *Eremocarpus setigerus* Benth.
 518 *Euphorbia glyptosperma* Engelm.
 519 *Betula occidentalis* Hook.
 520 *Alnus rubra* Bong.
 521 *Myrica Californica* Cham.
 522 *Salix lasiandra* v. *lancifolia*.
 523 *longifolia* Muhl.
 524 *sessilifolia* Nutt.
 525 var. *villosa* Anders.
 526 *Scouleriana* Barratt.
 527 *Sitchensis* Sanson.
 528 *cordata* Muhl.
 529 *amygdaloides* Anders.
 530 *Quercus Garryana* Dougl.
 531 *chrysolepis* Liebm.
 532 *Asarum caudatum* Lindl.
 533 *Taxus brevifolia* Nutt.
 534 *Juniperis occidentalis* Hook.
 535 *Thuja gigantea* Nutt.
 536 *Cupressus Nutkaensis*.
 537 *Libocedrus decurrens* Torr.
 538 *Corallorhiza Mertensiana* Bong.
 539 *striata* Lindl.
 540 *Calypso borealis* Salisb.
 541 *Habenaria Unalaschensis* Wat.
 542 *leucostachys* Watson.
 543 *sparsiflora* Watson.
 544 *gracilis* Watson.
 545 *Goodyearia Menziesii* Lindl.
 546 *Listera cordata* R. Br.
 547 *Epipactis gigantea* Dougl.

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548 *Cypripedium montanum* Dougl.
 549 *Californicum* Gray.
 550 *Iris macrosiphon* Torr.
 551 *tenax* Dougl.
 552 *longipetala* Herbert.
 553 *Sisyrinchium bellum* Watson.
 554 *grandiflorum* Dougl.
 555 *Allium schœnoprasmum* L.
 556 *madidum* Watson.
 557 *acuminatum* Hook.
 558 *attenuifolium* Kell.
 559 *Brodiaea congesta* Smith.
 560 *Douglasii* Watson.
 561 *lactea* Watson.
 562 *Howellii* Watson.
 563 *Camassia esculenta* Lindl.
 564 *Smilacina racemosa* Desf.
 565 *sessilifolia* Nutt.
 566 *Lilium Columbianum* Hanson.
 567 *Fritillaria lanceolata* Pursh.
 568 *pudica* Spreng.
 569 *Erythronium grandiflorum* Pu.
 570 *giganteum* Lindl.
 571 *Calochortus elegans* Pursh.
 572 *Tolmiei* H. & A.
 573 *lilacinus* Kell.
 574 *Prosartes Menziesii* Don.
 575 *Oregana* Watson.
 576 *Clintonia uniflora* Kunth.
 577 *Scoliopus Hallii* Watson.
 578 *Trillium ovatum* Pursh.
 579 *Stenanthium occidentale* Gray.
 580 *Zygadenus venenosus* Watson.
 581 *Ruppia maritima* L.
 582 *Potamogeton natans* L.
 583 *Triglochin maritimum* L.
 584 *Luzula parviflora* v. *pallida*.
 585 *comosa* Meyer.
 586 *Juncus Balticus* Dethard.
 587 *effusus* L.
 588 *Parryi* Engelm.
 589 *tenuis* v. *congestus* Eng.
 590 *Leseurii* Bol.
 591 *falcatus* Meyer.
 592 *dubius* Engelm.
 593 *xiphoides* Meyer.
 594 *Cyperus occidentalis* Torr.
 595 *Scirpus pungens* Vahl.
 596 *Eleocharis obtusa* Schult.
 597 *Carex Douglasii* Boott.
 598 *straminea* v. *congesta* Bt.
 599 *festiva* Dewey.
 600 var. *gracilis* Olney.
 601 *Deweyana* Schwein.
 602 *Haughtoni* Torr.
 602 *echinata* Murr.

604 *scoparia* v. *fulva* Boott.
 605 *brevipes* W. Boott.
 606 *vulgaris* Fries.
 607 *interrupta* Bac.
 608 *cinnamomea* Olney.
 609 *Sitchensis* Presc.
 610 *laxiflora* v. *plantaginea*.
 611 *Pennsylvanica* Lam.
 612 *amplifolia* Boott.
 613 *filiformis* v. *latifolia* Boe.
 614 *vesicaria* v. *lanceolata* Ol.
 615 *leporina* L.
 616 *Beckmannia erucæformis* Host.
 617 *Panicum scoparium* Lam.
 618 *Phalaris arundinacea* L.
 619 *Hierochloa borealis* R. & S.
 620 *macrophylla* Thurb.
 621 *Alopecurus aristulatus* Mx.
 622 *saccatus* Vasey.
 623 *Stipa comata* Trin.
 624 *viridula* Trin.
 625 *Phleum alpinum* L.
 626 *Coleanthus subtilis* Seid.
 627 *Sporobolus gracillimus* Vasey.
 628 *Agrostis foliosa* Vasey.
 629 *scabra* Willd.
 630 *Scouleri* Trin.
 631 *varians* Trin.
 632 *Polypogon littoralis* Smith.
 633 *Cinna pendula* Trin.
 634 *Deyeuxia Aleutica* Vasey.
 635 *Canadensis* Beauv.
 636 *Howellii* Vasey.
 637 *Deschampsia cæspitosa* Beauv.
 638 *calycina* Presl.
 639 *elongata* Munro.
 640 *latifolia* Vasey.
 641 *Trisetum canescens* Buckley.
 642 *subspicatum* v. *molle* Gr.
 643 *Avena fatua* L.
 644 *Danthonia Californica* Bol.
 645 *Koeleria cristata* Pers.
 646 *Eragrostis reptans* Nees.
 647 *Melica bromoides* Bol.
 648 *bulbosa* Geyer.
 649 *Harfordii* Bol.
 650 *Distichlis maritima* Raf.
 651 *Briza minor* L.
 652 *Poa abbreviata* R. Br.
 653 *annua* L.
 654 *alpina* v. *purpurascens*.
 655 *Bolanderi* Vasey.
 656 *Douglasii* Nees.
 657 *gracillima* Vasey.
 658 *pulchella* Vasey.
 659 *serotina* Ehrh.

- 660 *stenantha* Trin.
 661 *tenuifolia* Nutt.
 662 *Glyceria nervata* Trin.
 663 *pauciflora* Presl.
 664 *Festuca microstachys* Nutt.
 665 *ovina* L. var.
 666 var. *polyphylla* Vas.
 667 *rubra* v. *fallax* Hack.
 668 *tenella* Willd.
 669 *scabrella* Torr.
 670 *Hordeum pratense* Huds.
 671 *Elymus Sibiricus* L.
 672 *triticoides* Nutt.
 673 *dasystachys* Trin.
 674 *Botrychium ternatum* Swartz.
 675 *Polypodium falcatum* Kell.
 676 *Scouleri* Hook. & Grev.
 677 *Gymnogramme triangularis* Kf.
 678 *Cheilanthes gracillima* Eaton.
 679 *Pellaea densa* Hook.
 680 *Cryptogramme acrostichoides*.
 681 *Pteris aquilina* v. *lanuginosa*.
 682 *Lomaria spicant* Desv.
 683 var. *serratum* Woll.
 684 *Phegopteris Dryopteris* Fee.
 685 *Aspidium munitum* Kf.
 686 *lonchitis* Swartz.
 687 *rigidum* v. *argutum* Eat.
 688 *spinulosum* v. *dilatatum*.
 689 *Cystopteris fragilis* Bern.
 690 *Woodsia Oregana* Eaton.
 691 *Lycopodium annotinum* L.
 692 *clavatum* L.
 693 *lucidulum* Mx.
 694 *Selaginella rupestris* Spring.
 695 *Douglasii* Spring.
 696 *Oregana* Eaton.
 697 *Isoetis nuda* Engelm.
 698 *Howellii* Engelm.
 699 *Marsilia vestita* Hook. & Grev.
 700 *Azolla Caroliniana* Willd.

MOSSES.

- 701 *Sphagnum squarrosum* Lesq
 702 *Dicranoweisia cirrhata* Lindb.
 703 *Dicranum palustre* La Pyl.
 704 *Barbula vinealis* Braun.
 705 *Muelleri* B. & S.
 706 *Grimmia Scouleri* Muell.
 707 *montana* B. & S.
 708 *trichophylla* Grev.
 709 *Racomitrium Nevii* Watson.
 710 *lanuginosum* Brid.
 711 *canescens* Brid.
 712 *aciculare* Brid.
 713 *Hedwigia ciliata* Ehrh.
 714 *Braunia californica* Lesq.
 715 *Ptychomitrium Gairdneri* Les.
 716 *Amphoridium Mougeotii* Schi.
 717 *Orthotrichum pulchellum* Bru.
 718 *Lyellii* H. & T.
 719 *Physcomitrum pyriforme* Brid.
 720 *Bartramia Menziesii* Turn.
 721 *ithyphylla* Brid.
 722 *pomiformis* Hedw.
 723 *fontana* Brid.
 724 *Meesia tristicha* B. & S.
 725 *Mnium Menziesii* Muell.
 726 *Aulacumnium androgynum*.
 727 *Oligotrichum Lyallii* Lindb.
 728 *Pogonatum alpinum* Roehl.
 729 *Polytrichum piliferum* Schreb.
 730 *Fontinalis Neo-Mexicana*.
 731 *antipyretica* L.
 732 *Dichelyma falcatum* Myrin.
 733 *Alsia abietina* Sulliv.
 734 *Neckera Menziesii* Drumm.
 735 *Douglasii* Hook.
 736 *Antitrichia Californica* Sulliv.
 737 *curtipendula* v. *gigantea*.
 738 *Hookeria lucens* Smith.
 739 *Climacium dendroides* W. & M.
 740 *Hypnum crispifolium* Hook.
 741 *lutescens* Huds.
 742 *Nuttallii* Wils.
 743 *megaptilum* Sulliv.
 744 *myosuroides* L.
 745 *stoloniferum* Hook.
 746 *Brewerianum* Lesq.
 747 *Stokesii* Turn.
 748 *Oreganum* Sulliv.
 749 *Bigelovii* Sulliv.
 750 *uncinatum* Hedw.
 751 *circinale* Hook.
 752 *subimponens* Lesq.
 753 *splendens* Hedw.
 754 *triquetrum* L.
 755 *loreum* L.

HOWELL'S PACIFIC COAST PLANTS.

COLLECTION OF 1885.

Most of this collection was made in south eastern Oregon, during May, and June. I offer them at the very low price of ten dollars per set: 100 or more, your selection, six cents each: Less than 100 eight cents each.

Yours respectfully,

THOMAS HOWELL,

ARTHUR, OREGON U. S. A.

Money-order Office, Portland, Oregon.

756 Clematis Douglasii Hook.	800 Astragalus Mortoni Nutt.
757 Ranunculus cymbalaria Pursh	801 diurnus Watson. n. sp.
758 sceleratus L.	802 Lathyrus palustris L.
759 Delphinium decarum v. Nevad.	803 polymorphus Nutt.
760 Paeonia Brownii Dougl.	804 albus Watson.
761 Canbya aurea Watson. n. sp.	805 Cercocarpus ledifolius Nutt.
762 Corydalis aurea v. occidentalis	806 intricatus Watson.
763 Arabis canescens Nutt.	807 Geum triflorum Pursh.
764 Lyallii Watson.	808 Ivesia Baileyi Watson.
765 Streptanthus Howellii Watson	809 Peraphyllum ramosissimum.
766 Caulanthus pilosus Watson.	810 Saxifraga reflexa Hook.
767 Vesicaria occidentalis Watson.	811 Heuchera rubescens Torr.
768 Draba alpina L. ?	812 Ribes leptanthum Gray.
769 Smelowskia Fremonti Watson	813 oxyacanthoides L.
770 Erysimum cheiranthoides L.	814 ambiguum Watson.
771 Stanleya viridiflora Nutt.	815 Gayophytum romosissimum.
772 Thelypodium Nuttallii Wats.	816 Oenothera caespitosa Nutt.
773 Howellii Watson. n. sp.	817 ————— ?
774 sagittatum Endl.	818 Nuttallii T. & G.
775 Lepidium intermedium Gray.	819 heterantha Nutt.
776 Cleome platycarpa Torr.	820 trichocalyx Nutt.
777 Viola Nuttallii, a smooth form.	821 andina Nutt.
778 Silene multicaulis Nutt. ?	822 Boothii Dougl.
779 Arenaria pungens Nutt.	923 scapoidea Nutt.
780 aculeata Watson.	824 Mentzelia albicaulis Dougl.
781 Rhus toxicodendron L.	825 dispersa Watson.
782 Lupinus microcarpus Lindl.	826 Peucedanum leptocarpum Nutt.
783 brevicaulis Watson.	827 Nevadense Watson.
784 calcaratus Kell.	828 cous Watson. n. sp.
785 argenteus Pursh-	829 ————— n. sp.
786 holosericeus Nutt.	830 ————— ?
787 ————— ?	831 Carum Oreganum Watson.
788 Trifolium Kingii Watson.	832 Caulalis microcarpus H. & A.
789 Plummeræ Lemmon.	833 Valeriana sylvatica Banks.
790 Petalostemon ornatus Dougl.	834 Dimeresia Howellii Gray. n. g.
791 Astragalus Bourgovii Gray.	835 Aplopappus lanuginosus Gray
792 conjunctus Watson.	836 Howellii Gray. n. sp.
793 misellus Watson. n. sp.	837 Solidago serotina Ait.
794 Hypoglottis L.	838 Aster Fremonti Gray.
795 diphyus Gray.	839 scopulorum Gray.
796 var.	840 Engelmanni v. glaucescens.
797 cryptoides Gray.	841 v. ledophyllus.
798 ————— ?	842 Erigeron Howellii Gray.
799 ————— ?	843 compositus v. discoideus

844 *Erigeron peucephyllus* Gray.
 845 *Bloomeri* Gray.
 846 *corymbosus* Nutt.
 847 *Balsamorhiza terebinthacea*.
 848 *Wyethia helianthoides* Nutt.
 849 *Hymenopappus filifolius* Hk.
 850 *Chænactis Nevii* Gray.
 851 *Tanacetum potentilloides* Gr.
 852 *Artemisia spinescens* Eaton.
 853 *Tetradymia spinosa* H. & A.
 854 *Arnica alpina* Olin. var.
 855 *Senecio canus* Hook.
 856 *aureus* v. *borealis* T. & G.
 857 *hydrophyllus* Nutt.
 858 *Crepis runcinata* T. & G.
 859 var. *hispidulosa*.
 860 *occidentalis* Nutt. var.
 861 *Prenanthes alata* Gray.
 862 *Troximon Nuttallii* Gray.
 863 *glaucum* v. *lanceolatum*.
 864 *alpestre* Gray.
 865 *Gilia capillaris* Kell.
 866 *pungens* Benth.
 867 *minima* Gray.
 868 *floccosa* Gray.
 869 *congesta* Hook.
 870 *tenerrima* Gray.
 871 *Polemonium flavum* Greene.
 872 *Nemophila breviflora* Gray.
 873 *Phacelia Ivesiana* Torr.
 874 *ciliata* Benth.
 875 *bicolor* Torr.
 876 *Emmenanthe parviflora* Gray.
 877 *Conanthus aretioides* Watson.
 878 *Hesperochiron Californicus*.
 879 *Heliotropium Curassavicum* L.
 880 *Echinosperrum diffusum*.
 881 *Redowskii* v. *cupulatum*.
 882 *Krynitzkia circumscissa* Gryn.
 883 *oxycarya* Gray.
 884 *affinis* Gray.
 885 *Pattersoni* Gray.
 886 *pterocarya* v. *pectinata*.
 887 *Mertensia lanceolata* DC.
 888 *oblongifolia* Don.
 889 *Pentstemon glaber* Pursh.
 890 *humilis* Nutt.
 891 var. ?.
 892 *deustus* Dougl. var.
 893 *Gairdneri* Hook.
 894 ———— ? n. sp.
 895 *Mimulus Bigelovii* Gray.
 896 var. *ovatus* Gray.
 897 *dentatus* Nutt.
 898 *nasatus* Greene.
 899 *pedunculatus* Dougl.

900 *Synthyris rubra* Benth.
 901 *Aphyllon comosum* Gray.
 902 *Boschniakia strobilacea* Gray.
 903 *Scutellaria nana* Gray.
 904 *Plantago pusilla* Nutt.
 905 *Chorizanthe Watsonii* T. & G.
 906 *Eriogonum caespitosum* Nutt.
 907 *ovalifolium* Nutt.
 908 var. *proliferum* Wat.
 909 *Rumex* ——— ?.
 910 *Polygonum Douglasii* Greene.
 911 *Atriplex pusilla* Watson.
 912 *confertifolia* Watson.
 913 *Monolepis pusilla* Torr.
 914 *Chenopodium leptophyllum*.
 915 *Nitrophila occidentalis* Wats.
 916 *Shepherdia Canadensis* Nutt.
 917 *Celtis reticulata* Torr.
 918 *Parietaria Pennsylvanica* Muhl.
 919 *Callitriche autumnalis* L.
 920 *Salix lasiolepis* v. *Bige ovii* Be.
 921 *Allium Nevii* Watson.
 922 ———— ? n. sp.
 923 *anceps* Fell.
 924 *Tolmiei* Baker.
 925 *Leucocrinum montanum* Nutt.
 926 *Camassia Litchlinii* Watson.
 927 *Fritillaria atropurpurea* Nutt.
 928 *biflora* Lindl.
 929 *Potamogeton rufescens* Schrad.
 930 *Scirpus Olneyi* Gray.
 931 *Nevadensis* Watson.
 932 *sylvaticus* v. *digynus* Bo.
 933 *Carex filifolia* Nutt.
 934 *Geyeri* Boott.
 935 ———— ?.
 936 ———— ?.
 937 ———— ?.
 938 ———— ?.
 939 *Spartina gracilis* Trin.
 940 *Stipa occidentalis* Thurb.
 941 *Sporobolus depaup.* v. *nodosus*
 942 *Agrostis microphylla* Steud.
 943 *Deyeuxia neglecta* Kth.
 944 *Melica fugax* Bol.
 945 *stricta* Bol.
 946 *Poa Californica* Vasey.
 947 var.
 948 *Nevadensis* Vasey.
 949 var. *elongata* Vasey.
 950 var. *glyceroides* Vasey.
 951 *Glyceria Lemmoni* Vasey.
 952 *Festuca confinis* Vasey.
 953 *Bromus breviaristatus* Thurb.
 954 *Agropyrum glaucum* Vasey.
 955 *divergens* v. *tenue* Vas.

HOWELL'S PACIFIC COAST PLANTS.

COLLECTION OF 1886.

Price, five dollars per set. Less than full set eight cents each.

THOMAS HOWELL.
Arthur, Oregon.

9K 174
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956 Clematis ligusticifolia Nutt.	1006 Stephanomeria minor Nutt.
957 Anemone occidentalis Watson.	1007 Crepis virens L.
958 Drummondii Watson.	1008 Troximom laciniatum Gray.
959 Trautvetteria grandis Nutt.	1009 Bryanthus empetrififormis Gray.
960 Ranunculus hispidus var. Oreg-
onus Gray.	1010 Chimaphila umbellata Nutt.
961 occidentalis var. Lyallii Gray	1011 Pyrola aphylla Smith.
962 Myosurus apetalus v. lepturus G.	1012 secunda L.
963 Delphinium simplex Dougl.	1013 Dodecatheon frigidum var. de-
ntatum Gray.
964 pauciflorum Nutt. (D. sim-
plex of former distributions.)	1014 Appocynum androsamæfolium.
965 Nuphar polysepalum Engelm.	1015 Asclepias speciosa Torr.
966 Cardamine pratense L.	1016 Hydrophyllum occidentale Gr.
967 pratense var. occidentalis.	1017 Nicotiana attenuata Torr.
968 Erysimum asperum DC.	1018 Verbena bracteosa Michx.
969 Lepidium virginicum L.	1019 Stachys palustris L.
970 Lychnis Californicus Watson.	1020 Chamissonis Benth.
971 Calandrinia Columbiana Howell	1021 Abronia millifera Dougl.
972 Claytonia parvifolia Mocq.	1022 Oxyria digynia Campd.
973 Sidalcea—?	1023 Urtica Lyallii Watson.
974 Mellilotus parviflora Desf.	1024 Salix Hookeriana Barratt.
975 Trifolium microcephalum Pursh	1025 glauca v. villosa And.
976 Psoralea lanceolata Pursh.	1026 Barclayi And. ?
977 Lathyrus Nuttallii Watson.	1027 cordata Muhl., a form.
978 ochroleucus Hook.	1028 Lysichiton Kamtschatense Sch.
979 Spiraea betulæfolia v. rosea Gr.	1029 Listera convallarioides Nutt.
980 Eriogynia pectinata Hook.	1030 Brodiaea grandiflora Smith.
981 Potentilla glandulosa Lindl.	031 Erythronium—?
982 Saxifraga Tolmiei T. & G.	1032 Calochortus macrocarpus Doug
983 Boykinia major Gray.	1033 longibarbatus Watson.
984 Bolanderia Oregana Watson.	1034 Trillium sessile var. Californic-
um Watson.
985 Heuchera cylindrica Dougl.	1035 Veratrum Californicum Watson
986 Sedum Douglasii Hook.	1036 Xerophyllum tenax Nutt.
987 Hippuris vulgaris L.	1037 Luzula spadicea v. melanocarpa
988 Myriophyllum hippurioides Nut	1038 Carex—?
989 Lythrum Hyssopifolia L.	1039 Breweri Boott.
990 Epilobium minutum Lindl.	1040 stipata Muhl.
991 Boisduvalia densiflora Watson.	1041 utriculata Boott.
992 Angelica genuflexa Nutt.	1042 Hendersonii Bailey.
993 Angelica—?	1043 umbellata Schk.
994 Ferula dessoluta Watson.	1044 cryptocarpa Meyer.
995 Viburnum ellepticum Hook.	1045 acuta v. proluxa Bailey
996 Brickellia grandiflora Nutt.	1046 Agrostis Howellii Scribner.
997 Chrysopsis villosa Nutt.	1047 Aira caryophylla L.
998 Aster occidentalis Nutt.	1048 Pleuropogon refractum Benth.
999 Hallii Gray.	1049 Poa occidentalis V. & S.
1000 Erigeron salsuginosus Gray.	1050 Glyceria distans Wahl.
1001 Oregana Gray.	1051 Festuca Howellii Hackel.
1002 Gnaphalium microcephalum	1052 occidentalis Hook ?
1003 Madia sativa Molin.	1053 microstachys var. pauci-
flora Scribner.
1004 Matricaria discoidea DC.	1054 Bromus ciliatus v. pauciflorus.
1005 Senecio Fremonti var. occident-
alis Gray.	1055 Elymus Americanus V. & S.

Feb. 24/88.

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1885-96

fasc. 21

HOWELL'S PACIFIC COAST PLANTS.

COLLECTION OF 1887.

Having spent most of the past summer in South Western Oregon, I am able to offer a very fine lot of new and rare species from that interesting region. The new species are set in Italics.

Price; full sets, five dollars per century, desiderata six dollars per century. Less than 100, eight cents each.

THOMAS HOWELL,
ARTHUR, OREGON.

- ✓1056, *Anemone nemorosa* L.
- ✓1057, *Ranunculus occidentalis* var. *Rattani* Gray.
- ✓1058, *R.* *hebecarpus* H. & A.
- ✓1059, *Cimicifuga elata* Nutt.
- ✓1060, *Darlingtonia Californica* Torr.
- ✓1061, *Eschscholtzia tenuifolia* Hook.
- ✓1062, *Arabis Lyalli* Watson. ? Not the same as No. 764 of my distribution of 1885, which is *A. microphylla* Nutt.
- ✓1063, *Arabis Howellii* Watson
- ✓1064, *A.* *purpurascens* Howell.
- ✓1065, *A.* *subpinnatifida* Watson
- ✓1066, *Streptanthus tortuosus* Kell.
- ✓1067, *Cardamine paucisecta* Benth.
- ✓1068, *C.* *Breweri* Watson.
- ✓1069, *Dentaria gemmata* Watson.
- ✓1070, *Draba brachycarpa* Nutt.
- ✓1071, *Lepidium nitidum* Nutt.
- ✓1072, *L.* *Oreganum*. Distinguished from *L. dictyotum*, by its more erect habit, and smooth, not prominently reticulated, divergent-toothed pods.
- ✓1073, *Thlaspi alpestre* L.
- ✓1074, *Thysanocarpus radians* Benth.
- ✓1075, *Cleome lutea* Hook.
- ✓1076, *Viola palustris* L.
- ✓1077, *V.* *primulæfolia* var. *occidentalis* Gray.
- ✓1078, *V.* *præmorsa* Dougl.
- ✓1079, *V.* *chrysantha* Hook.
- ✓1080, *V.* *Sheltoni* Torr.
- ✓1081, *V.* *lobata* Benth.
- ✓1082, *V.* *lobata* var. *integrifolia* Watson.
- ✓1083, *V.* *cuneata* Watson.
- ✓1084, *V.* *Howellii* Gray. Distributed as *V. canina* var. *sylvestris* in 1884.
- ✓1085, *Silene campanulata* Watson.
- ✓1086, *S.* *longistylis* Engelm.
- ✓1087, *Cerastium arvense* var. *angustifolium* Fenzl.
- ✓1088, *Stellaria nitens* Nutt.
- ✓1089, *S.* *longipes* Goldie.
- ✓1090, *S.* *longifolia* Muhl. ?
- ✓1091, *Arenaria congesta* Nutt.
- ✓1092, *A.* *peploides* var. *oblongifolia* Watson.

- ✓1093, *Calandrinia Nevadensis* Gray.
- ✓1094, C. *oppositifolia* Watson.
- ✓1095, C. *Leana* Porter.
- ✓1096, C. *Cotyledon* Watson.
- ~~1097~~ ✓1097, C. *micrantha* Schlecht.
- ✓1098, *Claytonia asarifolia* Bong.
- ✓1099, C. *spathulata* var. *tenuifolia* Gray.
- ✓1100, *Sidalcea spicata* Greene.
- ✓1101, S. *Oregana* Gray.
- ~~1102~~ ✓1102, S. *campestris* Greene ?.
- ✓1103, *Erodium moschatum* Willd.
- ✓1104, *Limnanthes alba* Hartweg. Not *L. alba* of former distributions, (which is a form of *L. Douglasii* or a new species,) but the true thing.
- ✓1105, *Rhamnus occidentalis*. Shrub 5-10 feet high, with glabrous, coriaceous, oval to obovate, inch or two long, evergreen leaves: otherwise like *R. Purshiana*.
- ✓1106, *Ceanothus cuneatus* Nutt.
- ✓1107, *Rhus aromatica* var. *triloba* T. & G.
- ✓1108, *R. glabra* L.
- ✓1109, *Lupinus Breweri* Gray.
- ✓1110, L. *nanus* Dougl.
- ✓1111, L. *luteolus*. Kell.
- ✓1112, *Trifolium Breweri* Watson.
- ✓1113, T. *Howellii* Watson.
- ✓1114, T. *Harneyensis*. Stems erect, from creeping, perennial roots, 4-8 inches high; leaflets linear to linear-lanceolate, irregularly dentate, 1-3 in. long; heads oblong, on rather long peduncles: flowers (even in bud) reflexed; calyx wooly. Harney Valley, S. E. Ogn.
- ✓1115, T. *tridentatum* var. *major* Stout, 1-3 feet high, with large many-flowered heads.
- ✓1116, T. *tridentatum* var. *melananthum* Watson.
- ✓1117, T. *depauperatum* Desv.
- ✓1118, *Hosackia Torreyi* Gray.
- ✓1119, *Astragalus Hendersoni* Watson. Flowers only.
- ✓1120, A. *accidens* Watson. Fruit only. The A. *arrectus* of former distributions.
- ✓1121, A. *sylvaticus*.
- ✓1122, *Vicia gigantea* Hook.
- ✓1123, *Lathyrus polyphyllus* Nutt.
- ✓1124, L. *palustris* L. var.
- ✓1125, L. *Torreyi* Gray.
- ✓1126, *Prunus subcordatus* Benth.
- ✓1127, *Rubus nivilis* Dougl.
- ✓1128, *Potentilla glandulosa* var. *Nevadensis* Watson.
- ✓1129, *Horkelia hirsuta* Lindl.
- ✓1130, H. *latiloba*. The H. *congesta* var. *latiloba* of 1884.
- ✓1131, H. *Hendersoni*. Densely silky pubescent, not glandular, petals narrowly lanceolate, about as long as the calyx-lobes: otherwise like *H. fusca*.

- ✓1132, *Amalanchier alnifolia* Nutt.
- ✓1133, *Saxifraga fragarioides* Greene.
- ✓1134, S. *Virginensis* Michx. var.
- ✓1135, *Chrysosplenium glechomæfolium* Nutt.
- ✓1136, *Tillæa minima* Miers.
- ✓1137, *Sedum stenopetalum* Nutt.
- ✓1138, *Cotyledon Oregonensis* Watson.
- ✓1139, *Epilobium glaucum*. Perennial, 2-4 feet high, smooth and glaucous, or the inflorescens pubescent; leaves lanceolate, callus dentate, sessile; petals purple, half inch long or more, twice longer than the narrowly-lanceolate calyx-lobes; stamens shorter than the barely exerted, style.
- ✓1140, *Clarkia rhomboidea* Dougl.
- ✓1141, *Gayophytum pumilum* Watson.
- ✓1142, *Oenothera strigulosa* T. & G.
- ✓1143, *Godetia lepida* var. *Arnottii* Watson.
- ✓1144, G. *quadrivulnera* Spach.
- ✓1145, *Boisduvalia glabella* Walp.
- ✓1146, *Eryngium petiolatum* Hook.
- ✓1147, *Deweya Kelloggii* Gray.
- 1148, *Carum Kelloggii* Gary. ?
- ✓1149, *Sium cicutæfolium* Gmelin.
- ✓1150, *Glycosma occidentale* Nutt.
- ✓1151, *Phellopterus littoralis* Schmidt.
- ✓1152, *Ferula Californica* Gray.
- ✓1153, *Peucedanum Howellii* Watson.
- ✓1154, *P. microcarpum*. Subcaulescent, 6-21 ins. high; leaves bipinnate, leaflets deeply cut into oblong-lanceolate segments; flowers yellow; carpels small.
- ✓1155, *Cornus Canadensis* L.
- ✓1156, *Garrya elliptica* Dougl.
- ✓1157, *Symphoricarpos rotundifolius* Gray.
- ✓1158, S. *racemosus* var. *pauciflorus* Gray.
- ✓1159, *Lonicera conjugialis* Kell.
- ✓1160, L. *hispidula* Dougl.
- ✓1161, *Galium bifolium* Watson.
- ✓1162, G. *boreale* L.
- ✓1163, G. *Nuttallii* Gray.
- ✓1164, G. *Andrewsii* Gray.
- ✓1165, *Valerianella macrocera* Gray.
- ✓1166, V. *aphanoptera* Gray.
- ✓1167, *Eupatorium occidentale* Hook.
- ✓1168, *Brickellia Greenei* Gray.
- ✓1169, *Chrysopsis Oregana* Gray.
- ✓1170, *Bigelovia Douglasii* Gray.
- ✓1171, *Erigeron Coulteri* Gray. var.
- ✓1172, E. *nudatus* Gray.
- ✓1173, *Stylocline filaginea* Gray.
- ✓1174, *Psilocarpus tenellus* Nutt.
- ✓1175, *Evax caulescens* Gray.

- 4
- ✓ 1176, *Antennaria argentea* Benth,
 - ✓ 1177, A. *plantaginifolia* Hook.
 - ✓ 1178, *Anaphalis margaritacea* Benth. & Hook.
 - ✓ 1179, *Gnaphalium palustre* Nutt.
 - ✓ 1180, *Franseria Hookeriana* Nutt.
 - ✓ 1181, *Rudbeckia Californica* Gray.
 - ✓ 1182, *Balsamorhiza Hookeri* Nutt.
 - ✓ 1183, *Helianthus annuus* L.
 - 1184, *Blepharipappus laevis* Gray.
 - ✓ 1185, *Madia elegans* Don.
 - ✓ 1186, M. *sativa* var. *congesta* T. & G.
 - ✓ 1187, *Hemizonia luzulaefolia* DC.
 - ✓ 1188, H. *Fitchii* Gray.
 - ✓ 1189, H. *truncata* Gray.
 - ✓ 1190, H. *multiglandulosa* Gray. var.
 - ✓ 1191, *Lasthenia glaberrima* DC.
 - ✓ 1192, *Baeria gracilis* va. *aristosa* Gray.
 - ✓ 1193, *Eriophyllum caespitosum* var. *integrifolium* Gray.
 - ✓ 1194, *Helenium Bigelovii* Gray.
 - ✓ 1195, H. *autumnale* L.
 - ✓ 1196, *Cotula coronopifolia* L.
 - ✓ 1197, *Artemisia Ludoviciana* Nutt.
 - ✓ 1198, A. *vulgaris* var. *Californica* Bess.
 - ✓ 1199, *Luina hypoleuca* Benth.
 - ✓ 1200, *Arnica discoidea* Benth.
 - ✓ 1201, *Cnicus Breweri* Gray.
 - ✓ 1202, *Microseris linearifolia* Gray.
 - ✓ 1203, *Hieracium cynoglossioides* var. *nudicaule* Gray.
 - ✓ 1204, *Troximon aurantiacum* Hook.
 - ✓ 1205, T. *barbellulatum* Greene.
 - ✓ 1206, *Lactuca pulchella* DC.
 - ✓ 1207, *Specularia perfoliata* A. DC. ? A slender form.
 - ✓ 1208, *Campanula prenanthoides* Durand.
 - ✓ 1209, *Menziesia ferruginea* Smith.
 - ✓ 1210, *Dodecatheon Hendersoni* Gray.
 - ✓ 1211, D. *Jeffreyi* var. *alpinum* Gray.
 - ✓ 1212, *Androsace septentrionalis* L.
 - ✓ 1213, *Trientalis Europaea* var. *arctica* Ledeb.
 - ✓ 1214, *Fraxinus Oregana* Nutt.
 - ✓ 1215, *Asclepias Mexicana* Cav.
 - ✓ 1216, *Microcala quadrangularis* Griseb.
 - ✓ 1217, *Menyanthes trifoliata* L.
 - ✓ 1218, *Phlox adsurgens* Torr.
 - ✓ 1219, *Gilia Harknessii* Curran.
 - ✓ 1220, G. *leucocephala* Gray.
 - ✓ 1221, G. *divaricata* Torr.
 - ✓ 1222, *Hydrophyllum Virginicum* L.
 - ✓ 1223, *Nemophila pedunculata* Dougl.
 - ✓ 1224, *Phacelia Rattani* Gray.
 - ✓ 1225, P. *Pringlei* Gray.
 - ✓ 1226, *Echinosperrum Greenei* Gray.

- ✓ 1227, *Krynitzkia Chorisiana* Gray.
✓ 1228, K. *Torreyana* Gray.
✓ 1229, *Plagiobothrys rufescens* F. & M.
✓ 1230, *Amsinckia lycopsoides* Lehm.
✓ 1231, *Mertensia paniculata* Don.
✓ 1232, *Solanum nigrum* var. *villosum* Mill. ?
✓ 1233, *Antirrhinum leptalzum* Gray.
✓ 1234, *Collinsia Torreyi* Gray.
✓ 1235, *Scrophularia Californica* Cham.
✓ 1236, *Pentstemon Rattani* Gray.
1237, P. *Rattani* var. *minor* Gray.
1238, P. *Rattani* var. *Kleei* Gray.
✓ 1239, P. *Roezli* Reg.
✓ 1240, P. *heterophyllus* Lindl.
✓ 1241, P. *azureus* Benth.
✓ 1242, *Mimulus Douglasii* Gray.
✓ 1243, M. *primuloides* Benth. Small, wooly form.
✓ 1244, M. *luteus* L.
1245, M. *nasutus* Greene. True; not the same as No. 898 of my distribution of 1885, which is something else.
✓ 1246, *Orthocarpus pachystachyus* Gray.
✓ 1247, O. *lithospermoides* Benth.
1248, *Cordylanthus pilosus* var. *Bolanderi* Gray.
✓ 1249, *Verbena prostrata* R. Br.
✓ 1250, *Monardella villosa* Benth.
✓ 1251, M. *villosa* var. *glabella* Gray.
✓ 1252, *Scutellaria tuberosa* Benth.
✓ 1253, S. *angustifolia* var. *canescens* Gray.
✓ 1254, *Polygonum Douglasii* var. *latifolium* Greene.
✓ 1255, P. *Californicum* Miesner.
✓ 1256, *Eriogonum latum* Dougl.
✓ 1257, E. *virgatum* Benth.
✓ 1258, *Urtica holosericea* Nutt.
✓ 1259, *Euphorbia serpyllifolia* Pers.
✓ 1260, *Myrica Gale* L.
✓ 1261, *Salix macrocarpa* Nutt.
✓ 1262, *Quercus Kelloggii* Newberry.
✓ 1263, Q. *Sadleriana* R. Br. The Q.---? of my collection of 1884.
✓ 1264, *Phoradendron flavescens* var. *villosum* Engelm.
✓ 1265, P. *juniperinum* var. *Libocedri* Engelm.
✓ 1266, *Chamaecyparis Lawsoniana* Parl.
✓ 1267, *Habenaria elegans* Bol.
✓ 1268, *Cephalanthera Oregana* Riechenb. f.
✓ 1269, *Cypripedium fasciculatum* Kell.
✓ 1270, *Iris bracteata* Watson.
✓ 1271, *Allium validum* Watson.
✓ 1272, A. *tribracteatum* Torr.
✓ 1273, *Brodiaea capitata* Benth.
✓ 1274, B. *Hendersoni* Watson. The B. *crocea* of my distribution of 1884.

- ✓1275, *Hastingsia alba* Watson.
✓1276, *Maianthemum bifolium* var. *dilatatum* Wood.
✓1277, *Lilium pardalinum* var. *angustifolium* Kell.
✓1278, *Fritillaria recurva* Benth.
✓1279, *Erythronium Hendersoni* Watson.
✓1280, *E.* *Howellii* Watson.
✓1281, *E.* *citrinum* Watson.
✓1282, *Calochortus Howellii* Watson.
✓1283, *Prosartes trachyandra* Torr.
✓1284, *Trillium rivale* Watson.
✓1285, *Tofieldia occidentalis* Watson.
✓1286, *Narthecium Californicum* Baker.
1287, *Sagittaria variabilis* Engelm.
✓1288, *Luzula comosa* var. *micrantha* Watson.
✓1289, *Juncus Bolanderi* Engelm.
✓1290, *J.* *patens* E. Meyer.
✓1291, *J.* *triformis* Engelm.
✓1292, *J.* *longistylis* Torr.
✓1293, *J.* *xiphoides* var. *triandrus* Engelm.
✓1294, *J.* *oxymenis* Engelm.
✓1295, *Cyperus aristatus* Rottb.
✓1296, *Scirpus lacustris* var. *occidentalis* Watson.
✓1297, *S.* *maritimus* L.
✓1298, *S.* *lineatus* Michx.
✓1299, *Eriophorum russeolum* Fries.
✓1300, *Carex decidua* Boott.
✓1301, *C.* *laciniata* Boott.
✓1302, *C.* *luzulaefolia* W. Boott.
✓1303, *C.* *multicaulis* Bailey.
✓1304, *C.* *polytrichoides* Muhl.
✓1305, *C.* *teretiusecula* var. *ramosa* Boott.
✓1306, *C.* *canescens* var. *alpicola* Wahl.
✓1307, *C.* *straminea* var. *mixta* Bailey.
✓1308, *Sporobolus depauperatus* Vasey.
✓1309, *Aristida oligantha* Michx.
1310, *Agrostis asperfolia* Trin.
1311, *A.* *exarata* var. *angusta* Vasey.
1312, *A.* *microphylla* var. *major* Vasey.
✓1313, *A.* *microphylla* var. *laxa* Vasey.
✓1314, *A.* *attenuata*, Vasey.
1315, *A.* *Hallii* Vasey.
✓1316, *Gastridium australe* Beauv.
✓1317, *Melica acuminata* Bol.
1318, *M.* *Harfordii* var. *minor* Vasey.
✓1319, *Poa tenuifolia* var. *stenophylla* Vasey.
✓1320, *P.* *argentea*
✓1321, *Glyceria ~~maritima~~ Wahl. ? angustata Fries*
✓1322, *Festuca rubra* L. var.
✓1323, *Bromus Suksdorfia* Vasey.
✓1324, *B.* *Oreuttianus* Vasey.
✓1325, *B.* *virens* Nutt. ?

- 7
- 1326, *Hordium ~~maritimum~~* With.
 ✓ 1327, *Elymus arenarius* L.
 ✓ 1328, *Equisetum laevigatum* Al. Braun.
 ✓ 1329, *Pellaea brachyptera* Baker.
 ✓ 1330, *Adiantum emarginatum* Hook.

Caput Medusa

257
 I make the following changes in name, of former sets, viz.

- No. 7, *Ranunculus Flammula*, is *R. Flammula* var. *intermedius* Hook.
 No. 10, *R. Hookeri*, is *R. triternatus* Gray.
 No. 11, *R. Nelsoni* v. *tenellus*, is *R. occidentalis* v. *tenellus* Gray.
 No. 21, *Delphinium simplex*, is *D. pauciflorum* Nutt.
 No. 62, *Silene Lyallii*, is *S. Douglasii* Hook.
 No. 83, *Claytonia exigna*, is *C. spathulata* Dougl.
 No. 101, *Limnanthes alba*, is *L. Douglasii* R. Br. or a new species,
 No. 150, *Astragalus arrectus*, is *A. accidens* Watson.
 No. 516, *Urtica dioica*, is *U. gracilis* Ait.
 No. 602, *Carex Houghtoni*, is *C. Oregonensis* Bailey.
 No. 610, *C. laxiflora* var. *plantaginea*, is *C. Hendersoni* Bailey.
 No. 630, *Agrostis Scouleri*, is *A. Howellii* Scribner.
 No. 631, *A. varians*, is *A. Oregana* Vasey.
 No. 656, *Poa Douglasii*, is *P. —?* n. sp.
 No. 660, *P. stenantha*, is perhaps *P. Columbiana* Dougl.
 No. 762, *Corydalis aurea* var. *occidentalis*, is *C. curvisiliqua* Engelm.
 No. 764, *Arabis Lyallii*, is *A. microphylla* Nutt.
 No. 784, *Lupinus calcaratus*, is *L. sulphureus* Dougl.
 No. 909, *Rumex —?* is *R. salicifolius* Wein.
 No. 935, *Carex —?* is *C. acuta* L.
 No. 936, *C. —?* is *C. Jamesii* Torr.
 No. 937, *C. —?* is *C. marcida* var. *debilis* Bailey.
 No. 938, *C. —?* is *C. festiva* Dew.
 No. 970, *Lychnis Californicus* is *Silene multicaulis* Nutt.

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 1885-96
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 C. 1

HOWELL'S PACIFIC COAST PLANTS.

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- 1331 Ranunculus canus, Benth.?
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- 1332 R. maximus, Greene.
- 1485 Delphinium ochroleuca, Nutt.
- 1405 Berberis pumila, Greene. Eryth. I. 149.
- 1486 *Lepidium divaricatum*, Howell.
- 1487 *Arabis secunda*, Howell.
- 1408 Cardamine pulcherima Greene. Eryth. I, 110.
- 1488 C. lobata, Howell.
- 1409 C. sinuata, Greene. Eryth. I, 110.
- 1410 Cheiranthus asper, Cham. & Schlecht.
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- 1334 N. lyratum, Nutt.
- 1335 Draba lutea, Gilib.
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- 1494 Oxalis Suksdorfii, Trelease
- 1417 Ceanothus pumilus, Greene. Eryth. I, 149.
- 1495 Thermopsis gracilis Howell. Eryth. I, 109.
- 1341 Lupinus laxiflorus, Dougl.
- 1494 L. laxiflorus var. montanus, Howell.
- 1420 L. propinquus, Greene. Eryth. I, 126.
- 1342 L. lepidus, Dougl.
- 1343 L. Drakei Howell.
- 1344 L. holosericeus, Nutt.
- 1421 Trifolium barbigerum, Torr.
- 1345 T. Macraei var. dichotomum, Brewer.
- 1346 T. Oregonum, Howell. Eryth. I, 110.

- 1347 Lotus Wrangelianus, F. & M.
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 1496 Poterium annuum, Nutt.
 1497 Sorbus occidentalis, Greene.
 1357 Amalanchier pallida, Greene.
 1358 Saxifraga Marshallii, Greene.
 1359 S. ranunculifolia, Hook.
 1428 S. Mertensiana, Bong. Nonproliferous form.
 1498 S. Oregona, Howell.
 1499 Mitella Hallii, Howell.
 1500 Heuchera glabra, Willd.
 1360 Parnassia Californica, Greene.
 1361 Ribes velutinum, Greene.
 1432 R. Menziesii, Pursh.
 1433 R. amictum, Greene.
 1501 R. acerifolium, Howell.
 1502 Epilobium Hammondii, Howell.
 1362 E. rigidum, Hausskn.
 1363 Oenothera graciliflora, Hook. & Arn.
 1503 O. Hillgardii, Greene.
 1504 O. ovata, Nutt.
 1364 Sanicula bipinnata, Hook. & Arn.
 1365 S. Howellii, C. & R.
 1366 Velæa Howellii, C. & R.
 1367 Peucedanum Canbyii, C. & R.
 1368 P. triturnatum var. brevifolium, C. & R.
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 1375 Senecio vestitus, Howell.
 1511 S. hesperius, Greene.
 1376 Microseris Douglasii, Gray.
 1377 Scorzonella pratensis, Greene.
 1378 Arctostaphylus manzanita, Parry.
 1512 A. viscida, Parry.
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- 1513 *Lysimachia thyrsiflora*, L.
- 1380 *Phlox longifolia* var. *Stansburyi*, Gray.
- 1514 *Gilia achilleæfolia*, Benth.
- 1381 *Polemonium carneum*, Gray.
- 1515 *Phacelia nemoralis*, Greene.
- 1516 *P. verna*, Howell.
- 1382 *Plagiobothrys Shastensis*, Greene.
- 1386 *Cryptantha rostellata*, Greene.
- 1517 *Pentstemon glandulosus*, Lindl.
- 1518 *P. Gairdneri*, Hook.
- 1519 *P. ovatus*, Dougl.
- 1454 *Diplacus glutinosus*, Nutt.
- 1469 *Orthocarpus erianthus*, Benth.
- 1387 *Pedicularis densiflora*, Benth.
- 1389 *Mirabilis Greenei*, Watson.
- 1390 *Eriogonum pendulum*, Watson.
- 1391 *E. thymoides*, Benth.
- 1520 *E. sphærocephalum*, Dougl.
- 1392 *Euphorbia glyptosperma*, Engelm.
- 1473 *Empetrum nigrum*, L.
- 1521 *Betula glandulosa*, Michx.
- 1393 *Salix lævigata* var. *angustifolia*, Bebb.
- 1475 *Iris Douglasiana*, Herb.
- 1394 *Allium Bolanderi*, Watson.
- 1395 *Camassia Howellii*, Watson.
- 1396 *Calochortus uniflorus*, Hook. & Arn.
- 1522 *Erythronium montanum*, Watson.
- 1523 *Toffieldia occidentalis*, Watson.
- 1478 *Luzula comosa*, Meyer. var.
- 1397 *Sparganium simplex*, Hudson.
- 1524 *Alopecurus Howellii*, Vasey.
- 1398 *Scribneria Bolanderi*, Hack.
- 1399 *Aspidium Nevadense*, Eaton.
- 1525 *Isoetes nuda*, Engelm.
- 1526 *I. Nuttallii*, A. Braun.

Ans. 1/3/95

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C. 2

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- 1382 *Plagiobothrys Shastensis*, Greene.
- 1386 *Cryptantha rostellata*, Greene.
- 1517 *Pentstemon glandulosus*, Lindl.
- 1518 *P. Gairdneri*, Hook.
- 1519 *P. ovatus*, Dougl.
- 1454 *Diplacus glutinosus*, Nutt.
- 1469 *Orthocarpus erianthus*, Benth.
- 1387 *Pedicularis densiflora*, Benth.
- 1389 *Mirabilis Greenei*, Watson.
- 1390 *Eriogonum pendulum*, Watson.
- 1391 *E. thymoides*, Benth.
- 1520 *E. sphærocephalum*, Dougl.
- 1392 *Euphorbia glyptosperma*, Engelm.
- 1473 *Empetrum nigrum*, L.
- 1521 *Betula glandulosa*, Michx.
- 1393 *Salix lævigata* var. *angustifolia*, Bebb.
- 1475 *Iris Douglasiana*, Herb.
- 1394 *Allium Bolanderi*, Watson.
- 1395 *Camassia Howellii*, Watson.
- 1396 *Calochortus uniflorus*, Hook. & Arn.
- 1522 *Erythronium montanum*, Watson.
- 1523 *Toffieldia occidentalis*, Watson.
- 1478 *Luzula comosa*, Meyer. var.
- 1397 *Sparganium simplex*, Hudson.
- 1524 *Alopecurus Howellii*, Vasey.
- 1398 *Scribneria Bolanderi*, Hack.
- 1399 *Aspidium Nevadense*, Eaton.
- 1525 *Isoetes nuda*, Engelm.
- 1526 *I. Nuttallii*, A. Braun.

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HOWELL'S PACIFIC COAST PLANTS.

COLLECTIONS OF 1888 TO 1894 INCLUSIVE

Not having done much collecting since 1877, I have not made any distribution since that date. But having accumulated a few rare species I now offer the following collection at my usual price; five dollars per 100 in full sets. Less than a full set, 8 cts. each.

Some of these specimens have been on hand for several years and are more or less faded, otherwise they are in good order.

THOMAS HOWELL,
ARTHUR, OREGON.

- 1331 *Ranunculus canus*, Benth.?
1401 R. *Californicus*, Benth. ?
1332 R. *maximus*, Greene.
1485 *Delphinium ochroleuca*, Nutt.
1405 *Berberis pumila*, Greene. Eryth. I. 149.
1486 *Lepidium divaricatum*, Howell.
1487 *Arabis secunda*, Howell.
1408 *Cardamine pulcherima* Greene. Eryth. I, 110.
1488 C. *lobata*, Howell.
1409 C. *sinuata*, Greene. Eryth. I, 110.
1410 *Cheiranthus asper*, Cham. & Schlecht.
1333 *Nasturtium palustre*, DC.
1334 N. *lyratum*, Nutt.
1335 *Draba lutea*, Gilib.
1336 *Heterodraba unilateralis*, Greene.
1489 *Viola Langsdorffii*, Fisch.?
1490 *Silene montana*, Watson.?
1337 *Stellaria Jamesii*, Torr.
1338 *Arenaria Howellii*, Watson.
1491 *Spraguea multiceps*, Howell. The S. *umbellata* of my former distributions; not of Torrey.
1339 S. *umbellata*, Torr.
1492 *Sidalcea campestris*, Greene. Typical.
1493 *Linum Lewisii*, Pursh.
1340 *Erodium macrophyllum*, Hook. & Arn.
1494 *Oxalis Suksdorfii*, Trelease
1417 *Ceanothus pumilus*, Greene. Eryth. I, 149.
1495 *Thermopsis gracilis* Howell. Eryth. I, 109.
1341 *Lupinus laxiflorus*, Dougl.
1494 L. *laxiflorus* var. *montanus*, Howell.
1420 L. *propinquus*, Greene. Eryth. I, 126.
1342 L. *lepidus*, Dougl.
1343 L. *Drakei* Howell.
1344 L. *holosericeus*, Nutt.
1421 *Trifolium barbigerum*, Torr.
1345 T. *Macraei* var. *dichotomum*, Brewer.
1346 T. *Oregonum*, Howell. Eryth. I, 110.

Mo. Bot. Garden.

1895.

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- 1347 Lotus Wrangelianus, F. & M.
 1350 Astragalus nigrescens, Nutt.
 1351 A. Californicus, Greene.
 1352 Vicia exigua, Nutt.
 1355 Rubus lasiococcus, Gray.
 1356 Horkelia tridentata, Torr.
 1496 Poterium annuum, Nutt.
 1497 Sorbus occidentalis, Greene.
 1357 Amalanchier pallida, Greene.
 1358 Saxifraga Marshallii, Greene.
 1359 S. ranunculifolia, Hook.
 1428 S. Mertensiana, Bong. Nonproliferous form.
 1498 S. *Oregona*, Howell.
~~1499~~ *Mitella Hallii*, Howell.
 1500 Heuchera glabra, Willd.
 1360 Parnassia Californica, Greene.
 1361 Ribes velutinum, Greene.
 1432 R. Menziesii, Pursh.
 1433 R. amictum, Greene.
 1501 R. *acerifolium*, Howell.
 1502 *Epilobium Hammondii*, Howell.
 1362 E. rigidum, Hausskn.
 1363 Oenothera graciliflora, Hook. & Arn.
 1503 O. Hillgardii, Greene.
 1504 O. ovata, Nutt.
 1364 Sanicula bipinnata, Hook. & Arn.
 1365 S. Howellii, C. & R.
 1366 Velæa Howellii, C. & R.
 1367 Peucedanum Canbyii, C. & R.
 1368 P. triturnatum var. brevifolium, C. & R.
 1505 P. lævigatum, Nutt.
 1506 Garrya buxifolia, Gray.
 1370 Galium Bolanderi, Gray.
 1371 Solidago Californica, Nutt.
 1372 Sericocarpus Oreganus, Nutt.
 1373 Aster brickelloides, Greene.
 1507 *Erigeron Siskiyouensis*, Howell.
 1508 E. speciosus, DC.
 1509 E. Philadelphicus, L.
 1441 Helianthus exilis, Gray.
 1374 Madia elegans, Don.
 1510 Cacaliopsis nardosmia, Gray.
 1375 *Senecio vestitus*, Howell.
 1511 S. hesperius, Greene.
 1376 Microseris Douglasii, Gray.
 1377 Scorzonella pratensis, Greene.
 1378 Arctostaphylus manzanita, Parry.
 1512 A. viscida, Parry.
 1379 Arbutus Menziesii, Pursh.

- 1513 *Lysimachia thyrsiflora*, L.
- 1380 *Phlox longifolia* var. *Stansburyi*, Gray.
- 1514 *Gilia achilleæfolia*, Benth.
- 1381 *Polemonium carneum*, Gray.
- 1515 *Phacelia nemoralis*, Greene.
- ~~1516~~ *P. verna*, Howell.
- 1382 *Plagiobothrys Shastensis*, Greene.
- 1386 *Cryptantha rostellata*, Greene.
- 1517 *Pentstemon glandulosus*, Lindl.
- 1518 *P. Gairdneri*, Hook.
- 1519 *P. ovatus*, Dougl.
- 1454 *Diplacus glutinosus*, Nutt.
- 1469 *Orthocarpus erianthus*, Benth.
- 1387 *Pedicularis densiflora*, Benth.
- 1389 *Mirabilis Greenei*, Watson.
- 1390 *Eriogonum pendulum*, Watson.
- 1391 *E. thymoides*, Benth.
- 1520 *E. sphærocephalum*, Dougl.
- ~~1392~~ *Euphorbia glyptosperma*, Engelm.
- 1473 *Empetrum nigrum*, L.
- 1521 *Betula glandulosa*, Michx.
- 1393 *Salix lævigata* var. *angustifolia*, Bebb.
- 1475 *Iris Douglasiana*, Herb.
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- 1396 *Calochortus uniflorus*, Hook. & Arn.
- 1522 *Erythronium montanum*, Watson.
- ~~1523~~ *Toffieldia occidentalis*, Watson.
- 1478 *Luzula conrosa*, Meyer. var.
- 1397 *Sparganium simplex*, Hudson.
- 1524 *Alopecurus Howellii*, Vasey.
- 1398 *Scribneria Bolanderi*, Hack.
- 1399 *Aspidium Nevadense*, Eaton.
- 1525 *Isoetes nuda*, Engelm.
- 1526 *I. Nuttallii*, A. Braun.

HOWELL'S PACIFIC COAST PLANTS.

I have good specimens, many of them fresh, of the following numbers of my former distributions. Price, \$5. per 100; less than 100, 7 cts. each.

THOMAS HOWELL,
CLACKAMAS, OREGON.

1	<i>Anemone deltoidea</i> Hooker.	108	C.	<i>velutinus</i> Dougl.
2	<i>Thalictrum occidentale</i> Gray.	109	C.	<i>parviflorus</i> Trelease. Distributed as <i>C. integerrimus</i> H. & A.
10	<i>Ranunculus triternatus</i> Gray. Distributed as <i>R. Hookeri</i> Reg.	111		<i>Acer macrophyllum</i> Pursh.
11	R. <i>Nelsoni</i> Gray.	112	A.	<i>glabrum</i> Torr.
12	R. <i>occidentalis</i> Nutt.	113	A.	<i>circinatum</i> Pursh.
13	R. <i>orthorhynchus</i> Hooker.	116		<i>Lupinus rivularis</i> Dougl.
16	<i>Coptis laciniata</i> Gray. Distributed as <i>C. asplenifolia</i> Salisb.	126		<i>Trifolium megacephalum</i> Mutt.
18	<i>Isopyrum stipitatum</i> Gray.	131	T.	<i>ciliatum</i> Nutt.
20	<i>Delphinium Menziesii</i> DC.	132	T.	<i>gracilentum</i> T. & G.
23	<i>Actaea arguta</i> Nutt.	134	T.	<i>tridentatum</i> Lindl.
24	<i>Berberis aquifolium</i> Pursh.	135	T.	<i>pauciflorum</i> Nutt.
26	<i>Vancouveria hexandra</i> M. & D.	136	T.	<i>microdon</i> H. & A.
27	<i>Achlys triphylla</i> DC.	137	T.	<i>cyathiferum</i> Lindl.
28	<i>Eschscholtzia Californica</i> Cham.	138		<i>Hosackia crassifolia</i> Benth.
29	<i>Platystigma Oreganum</i> B. & H.	139	H.	<i>bicolor</i> Dougl.
30	<i>Dicentra formosa</i> DC.	140	H.	<i>parviflora</i> Benth.
31	<i>Corydalis Scouleri</i> Hooker.	146		<i>Astragalus filipes</i> Torr.
32	<i>nasturtium curvisiliqua</i> Nutt.	147	A.	<i>Howellii</i> Gray.
33	<i>Arabis Holboellii</i> Hornem.	149	A.	<i>drepanolobus</i> Gray.
40	<i>Cardamine oligosperma</i> Nutt.	160		<i>Lathyrus sulphureus</i> Brewer.
41	<i>Dentaria tenella</i> Nutt.	162		<i>Prunus demissa</i> Walp.
43	<i>Cheiranthus Menziesii</i> B. & H.	163		<i>Nuttallia cerasiformis</i> T. & G.
44	<i>Platyspermum scapigerum</i> Hooker.	164		<i>Spiraea betulifolia</i> Pall.
47	<i>Sisymbrium Hartwegianum</i> Fournier.	177		<i>Purshia tridentata</i> DC.
50	<i>Braya Oregonensis</i> Gray.	178		<i>Cercocarpus parvifolius</i> Nutt.
51	<i>Capsella divaricata</i> Walp.	181		<i>Potentilla rivalis</i> var. <i>millegrina</i> Watson.
53	<i>Lepidium acutidens</i> Howell.	182	P.	<i>gelida</i> Meyer.
55	<i>Thysanocarpus curvipes</i> Hooker.	185		<i>Horkelia congesta</i> Hooker.
56	<i>Viola sarmentosa</i> Douglas.	187		<i>Rosa Nutkana</i> Presl.
57	V. <i>glabella</i> Nutt.	189		<i>Pyrus rivularis</i> Dougl.
59	V. <i>trinervata</i> Howell.	191		<i>Crataegus Douglasii</i> Lindl.
60	V. <i>adunca</i> Smith.	193		<i>Saxifraga integrifolia</i> Hook.
63	<i>Silena Menziesii</i> Hooker.	196	S.	<i>elegans</i> Nutt.
66	S. <i>Douglasii</i> Hooker.	198		<i>Boykinia occidentalis</i> T. & G.
68	<i>Cerastium nutans</i> Raf.	199		<i>Tolmiea Menziesii</i> T. & G.
69	C. <i>arvense</i> L.	201		<i>Tellima grandiflora</i> R. Br.
72	<i>Arenaria capillaris</i> Poir.	202	T.	<i>parviflora</i> Hook.
74	A. <i>Douglasii</i> T. & G.	203	T.	<i>tenella</i> Walp.
78	A. <i>macrophylla</i> Hooker.	204		<i>Tiarella trifoliata</i> L.
79	<i>Sagina occidentalis</i> Watson.	205	T.	<i>unifoliata</i> Hook.
81	<i>Claytonia lanceolata</i> Pursh.	207		<i>Mitella caulescens</i> Nutt.
82	<i>Montia perfoliata</i> Howell.	108	M.	<i>pentandra</i> Hook.
84	M. <i>Sibirica</i> Howell.	209	M.	<i>Breweri</i> Gray.
87	M. <i>Chamissonis</i> Greene.	210		<i>Heuchera micrantha</i> Dougl.
88	M. <i>linearis</i> Greene.	212		<i>Parnassia fimbriata</i> Koenig.
89	M. <i>dichotoma</i> Howell.	213		<i>Philadelphus Lewisii</i> Pursh.
90	M. <i>fontana</i> L.	214		<i>Whipplea modesta</i> Torr.
98	<i>Geranium incisum</i> Nutt.	216		<i>Ribes divaricatum</i> Dougl.
99	G. <i>Carolinianum</i> L.	223	R.	<i>sanguineum</i> Pursh.
102	<i>Floerkea proserpinacoides</i> Willd.	224	R.	<i>aureum</i> Pursh.
103	<i>Oxalis Oregana</i> Nutt.	226		<i>Sedum Oreganum</i> Nutt.
104	<i>Euonymus occidentalis</i> Nutt.	229		<i>Drosera Anglica</i> Hudson.
105	<i>Pachystima Myrsinites</i> Raf.	231		<i>Epilobium spicatum</i> Lam.
107	<i>Ceanothus sanguineus</i> Pursh.	236	E.	<i>glaberrimum</i> Barby.
		539		<i>Boisduvalia Torreyi</i> Watson.

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- 243 *Gaura parviflora* Dougl.
 248 *Sanicula Nevadaensis* Watson.
 249 *S. bipinnatifida* Dougl.
 251 *Osmorrhiza nuda* Torr.
 257 *Peucedanum leiocarpum* Nutt.
 261 *P. utriculatum* Nutt.
 262 *P. Grayi* C. & R.
 263 *P. macrocarpum* Nutt.
 264 *P. ferinosum* Geyer
 266 *Fatsia horrida* B. & H.
 267 *Cornus Nuttallii* Audubon.
 268 *C. pubescens* Nutt.
 271 *Sambucus racemosa* var. *arborescens*
 272 *Linnaea borealis* var. *longiflora* Torr.
 273 *Symphoricarpos racemosus* Michx.
 275 *Lonicera involucrata* Banks.
 278 *Galium Aparine* var. *Vaillantii* Koch.
 280 *G. trifidum* L.
 282 *Valerianella congesta* Lindl
 283 *V. anomala* Gray
 286 *Grindelia nana* Nutt.
 287 *G. discoidea* Nutt.
 289 *Aplopappus Bloomeri* Gray.
 293 *Solidago elongata* Nutt.
 295 *S. humilis* var. *nana* Gray.
 296 *Sericocarpus rigidus* Lindl.
 300 *Aster Douglasii* Lindl.
 302 *A. pulchellus* Eaton.
 306 *Erigeron poliospermus* Gray.
 309 *E. filifolius* Nutt.
 310 *E. decumbens* Nutt
 311 *E. inornatus* Gray.
 314 *Micropus Californicus* F. & M.
 315 *Psilocarpus Oreganus* Nutt.
 316 *Antennaria dimorpha* T. & G,
 322 *A. dioica* Gairtn.
 327 *Balsamorhiza sagittata* Nutt.
 331 *Madia Nuttallii* Gray.
 333 *M. filipes* Gray.
 334 *Hemizonella Durandi* Gray.
 336 *Layia glandulosa* H. & A.
 339 *Rigiopappus leptocladus* Gray.
 340 *Chaenactis Douglasii* H. & A.
 342 *Crocidium multicaule* Hooker,
 346 *Senecio fastigiatus* Nutt.
 348 *Arnica cordifolia* Hooker.
 354 *Microseris nutans* Gray.
 355 *M. troximoides* Gray.
 363 *Troximon heterophyllum* Greene..
 364 *Downingia elegans* Torr.
 365 *Howellia aquatilis* Gray.
 366 *Githopsis specularioides* Nutt,
 369 *Heterocodon rariflorum* Nutt.
 370 *Vaccinium occidentale* Gray.
 374 *V. parvifolium* Smith.
 375 *V. ovatum* Pursh.
 376 *Arctostaphylos tomentosa* Dougl.
 378 *Kalmia glauca* Ait.
 379 *Menziesia glabella* Gray.
 380 *Rhododendron albiflorum* Hooker.
 381 *R. occidentale* Gray.
 386 *Sarcodes sanguinea* Torr.
 388 *Trientalis latifolia* Hooker.
 389 *Glaux maritima* L.
 391 *Erythraea Douglasii* Gray.
 394 *Phlox Douglasii* Hooker.
 396 *P. longifolia* Nutt.
 397 *P. speciosa* Pursh.
 398 *Collomia grandiflora* Dougl.
 400 *C. gracilis* Dougl
 401 *Navarretia heterophylla* Benth.
 404 *Gilia Bolanderi* Gray.
 405 *G. tenella* Benth.
 406 *G. intertexta* Steud.
 407 *G. aggregata* Spreng.
 408 *G. debilis* Watson.
 409 *G. inconspicua* Dougl.
 410 *Polemonium humile* Willd.
 412 *P. micranthum* Benth.
 413 *Hydrophyllum capitatum* Dougl.
 414 *Nemophila parviflora* Dougl.
 415 *N. Menziesii* H. & A.
 418 *Phacelia Menziesii* Torr.
 419 *Romanzoffia Sitchensis* Bong.
 420 *Hesperochiron pumilis* Porter.
 423 *Cynoglossum grande* Dougl.
 424 *Echinosperrum Redowskii* var.
 426 *Krynitzia Californica* Gray.
 427 *K. Scouleri* Gray.
 428 *Plagiobothrys nothofulvus* Gray.
 431 *P. glomeratus* Gray.
 433 *Amsinckia lycopsoides*
 434 *Lithospermum pilosum* Nutt.
 436 *Convolvulus Californicus* Chois.
 438 *Collinsia pusilla*
 439 *C. sparsiflora* F. & M.
 440 *C. parviflora* Dougl.
 442 *C. linearis* Gray.
 443 *Tonella collinsioides* Nutt.
 448 *Pentstemon procerus* Dougl.
 451 *Mimulus nanus* H. & A.
 453 *M. cardinalis* Dougl.
 454 *M. alsinoides* Benth.
 459 *M. pilosus* Watson.
 459 *Gratiola ebracteata* Benth.
 460 *Limosella aquatica* L.
 461 *Synthyris rotundifolia* Gray.
 462 *S. reniformis* Benth.
 466 *Castilleia miniata* Dougl.
 468 *Orthocarpus pilosus* Watson.
 469 *O. attenuatus* Gray.
 470 *O. castilleoides* Benth.
 471 *O. bracteosa* Benth.
 472 *O. pusillus* Benth.
 478 *Aphyllon fasciculatum* Gray.
 479 *Trichostema oblongum* Benth.
 480 *T. lanceolatum* Benth.
 481 *Monardella odoratissima* Benth.
 483 *Micromeria Douglasii* Benth.
 485 *Lophanthus urticifolius* Benth
 491 *Plantago Patagonica* Jacq.
 497 *Polygonum minimum* Watson.
 498 *P. coarctatum* Dougl.
 500 *P. imbricatum* Nutt.
 503 *P. boreale* Small. Distributed
 as *P. Davisiae* Brewer.

- 506 *Eriogonum sphaerocephalum* Dougl.
 507 E. *umbellatum* Torr.
 515 *Umbellularia Californica* Nutt.
 517 *Eremocarpus setigerus* Benth.
 519 *Betula occidentalis* Hook.
 523 *Salix longifolia* Muhl.
 529 S. *amygdaloides* Anders.
 534 *Juniperus occidentalis* Hook.
 535 *Thuja gigantea* Nutt.
 538 *Corallorhiza Mertensiana* Bong.
 539 C. *striata* Lindl.
 540 *Calypso borealis* Salisb.
 542 *Habenaria leucostachys* Watson.
 544 H. *gracilis* Watson.
 545 *Listera cordata* R. Br.
 547 *Epipactis gigantea* Dougl.
 548 *Cypripedium montanum* Dougl.
 550 *Iris macrosiphon* Torr.
 551 I. *tenax* Dougl.
 553 *Sisyrinchium bellum* Watson.
 554 S. *grandiflorum* Dougl.
 555 *Allium schoenoprasum* L.
 556 A. *malidum* Watson.
 558 A. *attenuifolium* Kell.
 559 *Brodiaea congesta* Smith.
 561 B. *lactea* Watson.
 562 B. *Howellii* Watson.
 563 *Camassia esculenta* Lindl.
 564 *Smilacina racemosa* Desf.
 565 S. *sessilifolia* Nutt.
 568 *Fritillaria pudica* Spreng.
 569 *Erythronium grandiflorum* Pursh.
 570 E. *giganteum* Lindl.
 572 *Calochortus Tolmiei* H. & A.
 574 *Prosartes Menziesii* Don.
 575 P. *Oregana* Watson.
 577 *Scoliopus Hallii* Watson.
 578 *Trillium ovatum* Pursh.
 579 *Stenanthium occidentale* Gray.
 580 *Zygadenus venenosus* Watson.
 581 *Ruppia maritima* L.
 583 *Juncus Balticus* Dethard.
 583 J. *Parryi* Engelm.
 591 J. *falcatus* Meyer.
 609 *Carex Sitchensis* Prescott.
 611 C. *Pennsylvanica* Lam.
 620 *Hierochloa macrophylla* Thurb.
 625 *Phleum alpinum* L.
 626 *Coleanthus subtilis* Seib.
 633 *Cinna pendula* Trin.
 633 *Deschampsia elongata* Presl.
 640 D. *latifolia* Vasey.
 652 *Poa confinis* Vasey.
 653 P. *macrantha* Vasey.
 657 P. *gracillima* Vasey.
 660 p. *nervosa* Vasey.
 661 P. *tenuifolia* Nutt.
 662 *Glyceria nervata* Trin.
 663 G. *pauciflora* Presl.
 670 *Hordium pratense* Hudson.
 675 *Polypodium falcatum* Kell.
 676 P. *Scouleri* Hook. & Grey.
 677 *Gymnogramme triangularis* Kf.
 680 *Cryptogramme acrostichoides* R. Br.
 682 *Lomaria spicant* Desv.
 684 *Phegopteris Dryopteris* Fee.
 685 *Aspidium munitum* Kf.
 687 A. *argutum*
 688 A. *dilatatum*
 690 *Woodsia Oregana* Eaton.
 991 *Lycopodium annotinum* L.
 692 L. *clavatum* L.
 694 *Selaginella rupestris* Spring.
 695 S. *Douglasii* Spring.
 696 S. *Oregana* Eaton.
 697 *Isoetes nuda* Engelm.
 698 I. *Howellii* Engelm.
 767 *Lesquerella occidentalis* Watson.
 782 *Lupinus microcarpus* Lindl.
 810 *Saxifraga occidentalis* Watson.
 844 *Erigeron peuciphyllus* Gray.
 845 E. *Bloomeri* Gray.
 746 E. *corymbosus* Nutt.
 857 *Senecio hydrophyllus* Nutt.
 868 *Gilia floccosa* Gray.
 939 G. *congesta* Hook.
 878 *Hesperochiron Californicus* Watson.
 882 *Krynitzkia circumscissa* Gray.
 833 K. *oxycarya* Gray.
 887 *Mertensia lanceolata* DC.
 889 *Pentstemon glaber* Pursh.
 892 P. *deustus* Dougl. var.
 897 *Mimulus dentatus* Nutt.
 902 *Boschniakia strobilacea* Gray.
 904 *Plantago pusilla* Nutt.
 905 *Chorizanthe Watsonii* T. & G.
 908 *Eriogonum proliferum* T. & G.
 925 *Leucoerinum montanum* Nutt.
 926 *Camassia Litchlinii* Watson.
 928 *Fritillaria glauca* Greene.
 953 *Bromus breviaristatus* Thurb.
 957 *Anemone occidentalis* Watson.
 959 *Trantvetteria grandis* Nutt.
 960 *Ranunculus Macounii* Britton.
 961 R. *Lyallii*.
 962 *Myosurus lepturus*.
 964 *Delphinium Nuttallii* Gray.
 967 *Cardamine occidentalis*.
 970 *Silene Suksdorfii* Robinson.
 975 *Trifolium microcephalum* Pursh.
 977 *Lathyrus Nuttallii* Watson.
 980 *Eriogynia pectinata* Hook.
 982 *Saxifraga Tolmiei* T. & G.
 983 *Boykinia major* Gray.
 984 *Bolanderia Oregana* Watson.
 991 *Boisduvalia densiflora* Watson.
 1001 *Erigeron Oreganus* Gray.
 1003 *Stephanomeria minor* Nutt.
 1029 *Listera convallarioides* Nutt.
 1030 *Brodiaea grandiflora* Smith.
 1034 *Trillium Californicum*.
 1038 *Luzula spadicea* var. *melanocarpa*.
 1039 *Carex Breweri* Boott.
 1040 C. *stipata* Muhl.
 1042 C. *Hedersonii* Bailey.
 1043 *Pleuropogon strictum* Benth.

- 1056 *Anemone Oregana* Gray.
 1057 *Ranunculus Ratsani*.
 1058 R. *hebecarpus* H. & A.
 1061 *Eschscholtzia tenuifolia* Hook.
 1064 *Arabis purpurascens* Howell.
 1065 A. *subpinnatifida* Watson.
 1067 *Cardamine paucisecta* Benth.
 1069 C. *gemmata* Greene.
 1072 *Lepidium Oreganum* Howell.
 1073 *Thlaspi alpestre* L.
 1074 *Thysanocarpus radians* Benth.
 1075 *Cleome lutea* Hook.
 1077 *Viola occidentalis*.
 1079 V. *chrysanthe* Hook.
 1081 V. *lobata* Benth.
 1083 V. *cuneata* Watson.
 1084 V. *Howellii* Gray.
 1085 *Silene campanulata* Watson.
 1087 *Cerastium angustifolium*.
 1103 *Erodium moschatum* Willd.
 1107 *Rhus trilobata* Nutt.
 1108 R. *glabra* L.
 1119 *Astragalus Pacificus* Sheldon.
 1120 A. *accidens* Watson.
 1121 A. *umbraticus* Sheldon.
 1123 *Lathyrus polyphyllus* Nutt.
 1124 L. *paluster* var.
 1125 L. *Torreyi* Gray.
 1129 *Horkelia hirsuta* Lindl.
 1132 *Amalahchier alnifolia* Nutt.
 1135 *Chrysosplenium glechomaefolium* Nutt.
 1136 *Tillaea minima* Miers.
 1142 *Oenothera strigulosa* T. & G.
 1145 *Boisduvalia glabella* Walp.
 1146 *Eryngium petiolatum* Hook.
 1147 *Velaea Kelloggii* C. & R.
 1149 *Sium cicutaefolium* Gmelin.
 1155 *Cornus Canadensis* L.
 1165 *Valerianella macrocera* Gray.
 1167 *Eupatorium occidentale* Hook.
 1168 *Brickellia Greenei* Gray.
 1169 *Chrysopsis Oregana* Gray.
 1170 *Bigelovia Douglasii* Gray.
 1173 *Stylocline filaginea* Gray.
 1174 *Psilocarpus tenellus* Nutt.
 1176 *Antennaria argentea* Benth.
 1180 *Franseria Hookeriana* Nutt.
 1184 *Blepharipappus laevis* Gray.
 1185 *Madia elegans* Don.
 1188 *Hemizonia Fitchii* Gray.
 1190 H. *multiglandulosa* Gray, var.
 1196 *Cotula coronopifolia* L.
 1200 *Arnica discoidea* Benth.
 1202 *microseris linearifolia* Gray.
 1209 *Menziesia ferruginea* Smith.
 1211 *Dodecatheon alpinum* Greene.
 1212 *Androsace septentrionalis* L.
 1213 *Trientalis arctica* Fisch.
 1214 *Fraxinus Oregana* Nutt.
 1217 *Menyanthes trifoliata* L.
 1218 *Phlox adsurgens* Torr.
 1229 *Plagiobothrys Californica* Greene.
 1234 *Collinsia Torreyi* Gray.
 1239 *Pentstemon Roezli* Reg.
 1240 P. *heterophyllus* Lindl.
 1244 *Mimulus luteus* L.
 1247 *Orthocarpus lithospermoides* Benth.
 1250 *Monardella villosa* Benth.
 1258 *Urtica holosericea* Nutt.
 1261 *Salix macrocarpa* Nutt.
 1262 *Quercus Kelloggii* Newberry
 1268 *Cephalanthera Oregana* Reichenb. f.
 1269 *Cypripedium fasciculatum* Kell.
 1273 *Brodiaea capitata* Benth.
 1274 B. *Hendersoni* Watson.
 1275 *Hastingsia alba* Watson.
 1276 *Maianthemum dilatatum*.
 1279 *Erythronium Hendersoni* Watson.
 1280 E. *Citrinum* Watson.
 1281 E. *Howellii*, Watson.
 1284 *Trillium rivale* Watson.
 1285 *Tofieldia occidentalis* Watson.
 1288 *Luzula micrantha*.
 1298 *Scirpus liniatus* Michx.?
 1299 *Eriophorum russeolum* Fries.
 1301 *Carex laciniata* Boott.
 1303 C. *multicaulis* Bailey.
 1304 C. *polytrichoides* Muhl.
 1316 *Gastridium australe* Beauv.
 1321 *Glyceria angustata* Fries.
 1329 *Pellaea brachyptera* Baker.
 1330 *Adiantum emarginatum* Hook.

Clackamas Oregon,
 January 14th, 1896.

HOWELL'S PACIFIC COAST PLANTS.

Having spent two months botanizing in Southeastern Alaska, I now offer the following list of plants from that interesting country at the following prices. Full sets, 8 cts. per specimen: less than full set 10 cts per specimen.

Yours respectfully;

THOMAS HOWELL.,

CLACKAMAS, OREGON.

Dec. 10th, 1895.

- 1601 Anemone narcissiflora L.
- 1602 Ranunculus —? *Of the occidentalis § with short oblique beak to the rotund akenes.*
- 1603 R. —? *Of the occidentalis §. with long straight hooked-tip beak to the oblong akenes.*
- 1604 Kumlien's Cooleyæ Greene: *Erythraea ii: 193.*
- 1605 Coptis asplenifolia Salisb. *Fruit only.*
- 1606 C. trifolia Salisb.
- 1607 Nasturtium = *Tetrapoma Krupsianum F. & M.*
- 1608 Arabis hirsuta var. glabrata T. & G.
- 1609 A. ambigua DC. *A lyrata var. occidentalis Watson.*
- 1610 Cochlearia Groenlandica L.?
- 1611 C. oblongifolia DC.?
- 1612 C. officinale L.?
- 1613 Viola —? *n. sp. Near V. palustris.*
- 1614 Stellaria brachypetala Bong.
- 1615 Spergularia salina Presl.
- 1616 Lupinus —? *Like L. arcticus Watson; but the stems are branching.*
- 1617 Rubus Chamæmorus L. *Fruit only*
- 1618 Geum calthifolium Menzies.
- 1619 Poterium Sitchense Watson.
- 1620 P. medium,
- 1621 Saxifraga. *The Pacific Coast representative of S. leucanthemifolia.*
- 1622 S. punctata L.
- 1623 Epilobium glandulosum Lehm.?
- 1624 E. Hornemanni Reichenb.?
- 1625 E. adenocaulon Hausskn.? var.
- 1626 Circæa alpina L.
- 1627 Selinum *The American Conioselinum Fischeri.*
- 1628 Ligusticum Scoticum L.
- 1629 ?L.
- 1630 Cornus Suecica L.
- 1631 Valeriana Sitchensis Bong.
- 1632 Aster foliaceus Lindl.
- 1633 Aster peregrinus Pursh.
- 1634 Arnica intermedia n. sp.
- 1635 Prenanthes alata var. sagittata Gray.
- 1636 Vaccinium —? *One that has been referred to a var. of V. cæspitosa.*
- 1637 V. —? *Not like any published species.*
- 1638 V. Chamissonis Bong.
- 1639 V. —? *n. sp. Near V. myrtilloides.*
- 1640 V. Vitis-Idaea L.

- 1641 Andromedia polifolia L.
 1642 Cassiope Stelleriana DC.
 1643 Ledum latifolium Ait..
 1644 Menziesia————— *n. sp.?*
 1645 Loiseleuria procumbens Desv.
 1646 Cladothamnus pyrolæflorus Bong.
 1647 Moneses grandiflora Gray.
 1648 Dodecatheon integrifolium Bong.
 1649 D. frigidum Cham. & Schlecht.
 1650 Gentiana Douglasiana Bong.
 1651 G. — *n. sp. Much like G. platypetala, but the corola is different.*
 1652 Menyathes Crista-galli Menzies.
 1653 Castilleia parviflora Bong. *Typical.*
 1654 Pedicularis pedicellata Bunge.?
 1655 Boschniakia glabra C. A. Meyer.
 1656 Pinguicula vulgaris L.
 1657 Lycopus Virginicus L. *A small form, 2 to 6 inches high.*
 1658 Polygonum viviparum L.
 1659 Atriplex littoralis L.
 1660 Comandra ?
 1661 Iris setosa Pall.
 1662 Sisyrinchium anceps Cav.
 1663 Fritillaria Kamtschatcensis Ker.
 1664 Streptopus—————? *The Pacific coast S. roseus; quite different from the Eastern S. roseus Michx.*
 1665 Veratrum—————? *Species not determined.*
 1666 Tofieldia glutinosa Willd.
 1667 Sparganium natans L.?
 1668 Potamogeton Claytoni Tuck.? *A small form.*
 1669 Zostera angustifolia Reichenb.
 1670 Ruppia maritima L. *A small form.*
 1671 Scheuchzeria palustris L.
 1672 Luzula spadicea DC.? *Form with anthers equalling the filaments*
 1673 L. spadicea var. subcongesta Watson.
 1674 L. spadicea Var. with anthers shorter than the filaments.
 1675 L. comosa var. congesta Watson.
 1676 L. campestris? *A tall slender variety.*
 1677 Juncus Balticus var. montanus Engelm.
 1678 J. filiformis L.?
 1679 J. castaneus L.? *Anthers not pointed and not half as long as the filaments.*
 1680 J. nodosus L.
 1681 J. xiphoides var. triandrus Engelm.
 1682 Eriophorum polystachyum L.
 1683 Rhynchospora alba Vahl.
 1684 Eleocharis palustris R. Br.
 1685 E. ?
 1686 E. ?
 1687 E. ?
 1688 Carex pauciflora Lightfoot. ?
 1689 C. —————? *Near C. rostrata.*
 1690 C. —————? " " "
 1691 C. —————? " " "

- 1692 Carex——?
 1693 C. Mertensiana Prescott.
 1694 C. ——? Near *C. atrata* L.
 1695 C. stylosa Drejer.
 1696 C. ——? Near *C. stylosa* Drejer.
 1697 C. ——? Near *C. decidua* Boott.
 1698 C. ——? Near *C. cryptocarpa* Meyer.
 1699 C. ——? " " " "
 1700 C. ——? " " " "
 1701 C. ——? " " *Barbaræ* Dewey.
 1702 C. livida Willd.
 1703 C. ——? Near *C. scirpoidea* Michx.
 1704 C. Pyrenaica Wahl.?
 1705 C. leiocarpa Meyer.
 1706 C. echinata var.?
 1707 C. ——? " "
 1708 C. ——? " "
 1709 C. canescens L.
 1710 Agrostis exarata Trin. !
 1711 A. ——? Near *A. varians* Trin.
 1712 A. ——? Perhaps *n. sp.*
 1713 Deyeuxia ——? Near *D. Aleutica* Vasey.
 1714 D. Langsdorffii Trin.
 1715 Aria Botnica Wahl.
 1716 Trisetum cernuum Trin.
 1717 Glycera fluitans Trin. var.
 1718 G. ——? Near *G. angustata* Fries.
 1719 Poa ——? Near *P. occidentalis* V. & S.
 1720 P. flavicans Ledeb.?
 1721 Festuca ——Near *F. occidentale* Hooker.
 1722 F. rubra var.
 1723 Elymus dahuricus Turcz.?
 1724 E. ——? Near *E. Sibiricus* L. but the lower palet is ciliate.
 1725 E. mollis Trin.
 1726 Phegopteris polypodioides Fee.
 1727 Asplenium viride Huds.
 1728 Aspidium aculeatum Swartz.
 1729 Phegopteris ——? Species not determined: perhaps new.
 1730 Cystopteris fragilis Bernh.
 1731 Lycopodium inundatum L. A small form.
 1732 L. alpinum var. subinæfolium Eaton.?
 1733 L. Selago L.
 1734 L. dendroideum Michx.
 1735 Selaginella selaginoides Link.

The undetermined species will be sent to specialests for identification.