This book is of value to the owner and a reward will be paid if the finder returns it to:

Reed C. Rollins
Gray Herbarium
19 Garden St.
Cambridge, Mass.
1938
2039  Arabis
mint woods, slope, near Juniata River, 1.3 mi east of Everett, Pa.
may 15, 1938

2040  Rubus
dry fence row, shrub 1-3 ft high, near Gettysburg, Preble Co., Ohio.
may 16, 1938

2041  Arabis lavinata (Muhl.) Pursh.
mint woods, near Manhatlan, Putnam Co., Indiana, may 16, 1938

2042  Silene virginica l. a.
mint woods, near Manhatlan, Putnam Co., Indiana, may 16, 1938, fls. scarlet.

2043  Penstemon calyceus Small
woods in open, near Hurricane Creek, 4 miles southwest of Vandalia, Fayette Co., Ill. may 16, 1938

2044  Penstemon pallidus Small
open hillside, near Minocola, Montgomery Co., Missouri, may 17, 1938

2045  Eulalia
as the last

2046  Monarda Bradburiana Beck
as the last
2047  Rhyzaena minuta (Nutt) as.  ... dry roadside near little river, Pueblo, Kansas, May 18, 1938

2048  Kansas, coccinea Nutt.
      roadside near Sanford, Pawnee Co.
      May 18, 1938  Kansas

2049  Oecumenia minuta
      near halictown (Weld) atl.

2050  Hesperocera ovatifolia Rydb.
      king knoll, 10 miles west of tactone on a tributary to Pawnee river, Hodgeman Co.,
      Kansas, May 18, 1938

2051  penstemon auriflorus Pennell
      Fls. blue, king knoll between base animas &
      the tinton, bent co. Colorado - May 18, 1938 -
      alt. 4000 ft.

2052  Hesperocera ovatifolia Rydb.
      as 2051 - stems very numerous from a decumbent base

2053  Hesperocera ovatifolia Rydb.
      as 2051 - stems very numerous from a decumbent base

2054  Hesperocera fendleri (Gray) Watson
      Stems second to numerous - as 2051

2055  Hesperocera montana (Gray) Watson
      mtn. suffurated pappos
      king hillside, 11 miles south of pueblo, pueblo co,
      alt. 4000ft.  May 19, 1938
Colorado

2056 Cryptantha Jamei (Torr.) Payson

sunny knoll, 1/2 mi south of Pueblo, Pueblo Co.,
May 19, 1928 - alt. 4,200 ft.

2057 Lomatium montanum Nutt.
as 2056

2058 Thlaspi Fendleri May

sunny racine in the talus, as 2056

2059 Silia spicata Nutt.
as 2056

2060 Salvia splendens Lobata Torr.
as 2056 - fls reddish-purple

2061 Viola Nuttallii Pursh.
as 2056 - fls yellow

2062 Euphorbia

stems numerous from a deep perennial root

2063 Penstemon vermicular Pennell

fls blue to pinkish
as 2056

2064 Phlox longifolia Nutt. subsp. compacta (Bead) Wherry

fls pink - stems one or two

2065 Sesquarrella Fendleri (Brew) Nutt.
sunny knoll, 3 miles northwest of Pueblo,
Pueblo Co., May 19, '38 - stems numerous

2066 Stenocarpus cyanus (Pursh) Britt.

stems 3 ft high, leaves all more or less divided, near Arkansas River, 5 mi east of Florence, Fremont Co., May 19, '38
2067  Desmodium integrifolium (Walt.) Haller
Landy soil - near Portland, Florence - May 19, 38 - alt. 5,500

2068  Desmodium montanum (Gray) Watson
Granitic soil, 10 miles west of Canon City,
Fremont Co., alt. 5,100 ft.

2069  Astragalus pendulifer
Granitic soil under forest, stems one
or several - near the gorge bridge, Fremont
Co., alt. about 6,000 ft. May 19, 38

2070  Eryngium
as 2069

2071  Descurainia pinnata (Walt.) Britt.
ning. Brasicaeae (Richard) Hall.
Landy soil, Royal gorge between Canon City
& Silver, alt. 6,000 ft. May 19, 38 - Fremont Co.

2072  Descurainia pinnata (Walt.) Britt.
as 2071

2073  Eryngium densiflorum Schrad.
as 2071

2074  Eryngium
as 2071

2075  Draba cuneifolia Nutt.
10 miles west of Canon City, Fremont Co.
May 19.

2076  Draba nummularia L.
as 2071
2077 *Arabis pendulata*
Granitic soil in shade of Ponderosa pine, petals white, 2 oz., small.
4 miles south of Salida, Chaffee Co., alt. 7,500 ft.
May 20, 1938
Montana (May) character.

2078 *Baccharis sp.*
as 2077

2079 *Arabis helboellii var. retroflecta*
10 miles S. of Salida, Chaffee Co., May 20, 1938
1 oz., tan, sagebrush - alt. 8,500 ft.

2080 *Cardamine cordifolia May*
Moist stream bank, 10 miles west of Salida, Chaffee Co., May 21, 1938, alt. 7,500 ft.

2081 *Thlaspi columnare Rydb.*

2082 *Arabis lemmonii*
Stems slender from a simple or branching caudex, abundant on an open knoll among dwarf sagebrush.
5 mi. N. of Lake City, Memo Co., May 21, 1938
Gumison - 8,500 ft.

2083 *Arabis helboellii var.*
Stems single - among brush - as 2081

2084 *Arabis branchiata*
Abundant in granitic soil and gray among rocks
Petals (petals) bristle, 3 mi. N. of Lake City, Memo Co., alt. 8,500 ft.

2085 *Montiaea lansedota (Pursh) DC.*
Rock hillside - as 2081
2086  Arabis demissa
abundant on a billy outcrop near Sargent's, saguache Co., May 21, 38. - petal (petal) pink.
A. Crandallii is also very abundant here.
alt. 8,500 ft

2087  Arabis tallbella: var. reticulata
Dry hillside near Sargent's, Saguache Co., May 21.
alt. 8,500 ft

2088  Physaria acutifolia Rydb.
Dry hillside in granite talus, 5 miles east of Parlin, Gunnison Co., alt. 8,000 ft. May 21

2089  Arabis demissa
Barren rocky banks, near Saguache Creek, 6 miles east of Gunnison, Gunnison Co., May 21.
petal pink, silique spreading or slightly deflected.
alt. 8,000 ft. - Saguache area.

2090  Arabis sp.
petal pink to almost purple, stems purple to
Gunnison, silique oblique to stems or slightly deflected
as 2089.

2091  Arabis Crandallii
among Sages and rocks, 5 miles east of Parlin, Gunison Co., May 21, 38. alt. 8,000 ft.

2092  pillet Herbert Richards.
as 2091 - abundant

2093  Arabis Crandallii?

among sagebrush in rocky ground - petals lavender, silique erect., stems several to
Gunnison, 6 miles east of Gunnison, Gunison Co.,
alt. 8,000 ft. May 21, 38.
Colorado

2094  Arabis holboellii var. among sagebrush in rocky ground, 4 mi. east of

2094a  A. holboellii var. retifolia

2095  Arabis holboellii var. among sagebrush, 1 mile east of Guinier, as

2096  Arabis n. sp.

2097  Sinapsis linifolia

2098  Arabis Flavellae?

2099  Arabis demissae

2100  actaea Depressa (J. & K.) Knuth

2101  Castilleja Chromosa A. Nels.

2102  Streptanthus cordatus Nutt.

2103  Umbellopsis Cymopteria holboellii A. Nels.

2104  Erysimum
2103  Philox
dry hillside, 10 mi east of Sopris, Gunnison Co., May 23, alt. 7,000 ft.

2106  Physoaria antipodis Rydb.

2107  Cryptantha flavoculata (Nels.) Payson
as 2105

2108  Physoaria florebrunia Rydb.
dry rocky hillside, 3 miles east of Sopris, Gunnison Co., alt. 7,000 ft., May 23

2109  Aplopappus arnesicoides (Nutt.) T. & G.
as 2108
det. Blake

2110  Diaonymum juniperorum Payson
fls. lavender to white, dry granitic hillside
3 miles east of Sopris, Gunnison Co.

2111  Arabis Crandallii
1 mi east of Sopris, in the granite rocks,
Gunnison Co., alt. 7,000 ft., May 23, '38

2112  Arabis Fearleri
Rocky ledge
as 2111

2113  Arabis lewina
open rocky ledge
as 2111

2114  Arabis n. sp
open rocky ledge
as 2111
2115  *Erythronium californicum* (Jone) Pompon
F. white - clay adobe soil, 6 miles east of
Monterey, Monterey Co., May 24, 1838 - alt. 6,000 ft.

2116  *Euryzome*
as 2115

2117  *Leptodactylus montanus* Nutt. var. alpinus (Gray) Jones
as 2115

2118  *Desmanthus primula*

2118  *Desmanthus primula* var. alpinus Nutt. (Gray)

2119  *Aster venosus* Jones
as 2115

3120  *Arabis pulchra*
Fles lavender - limb of petal reflexed in age,

3121  *Desmanthus primula* (Walt.) Birth.
as 2115 - subsp. helictum (Chel.) Bell.

3122  *Arabis selgyi?*
among sagebrush - as 2115

2123  *Stanleya albescens* Jones
open clay knoll, as 2115 - fles light lemon yellow

2124  *Astragalus condensoides* Jones
among sagebrush - as 2115

3125  *Penstemon retroflexum* Payson
among sagebrush - as 2115

2126  *Phacelia corrugata* A. Nee.
Adobe hillsides
as 2115

2127  *Aconitum falcifolium* Stand.
Adobe hillsides, as 2115
arabes obovata
Rocky hillside, sandy soil, among sagebrush.
10 miles south of Montrose, Montrose Co., May 24.
alt. 6,300 ft.

Arabes lignifera A. Nelson

Big symphoricarpus Linnaeus Nutt
lower sandstone, live desert - as 2136.

S. linifolium Nutt
all live entities, seems to be a bit later
and often grows in colonies as 2128.

Calochortus Nuttallii Torr.
Rocky soil - hilltop - as 2128.

Arabes pulchra
Rocky soil, sandy soil, among sagebrush,
as 2128 - Flat lavender.

Physaria australis (Pap.) Rehder
Rocky hillside - as 2128.

Brokenheart breviseta (Walt.) Machn.
as 2128 - Hilltop.

Engamemnon
Clay flat near Olathe, Montrose Co., May 25.
alt. 5,500 ft.

Big symphoricarpus elegans (Jour.) Payson
2 mi south of Delta, Delta Co., May 25.
alt. 5,600 ft. - pitalize lavender.
2138  Lepidium montanae Nutt. var. alexandrae (Gray) Jones
  Clay flat near Delta, Montrose Co., May 25
2139  Stanleya albescens Jones
  Clay flat - 2 mi. south of Delta, Delta Co., alt. 5,500 ft. - May 25
2140  Crepis Malacothrix var. schreberi (Nutt.) F. Blake
  Rocky Knoll - as 2139  det. Blake
2141  Pedicularis Balcanica Greene
  as 2140
2142  Lepidium densiflorum Schrad. var. montanae (Nutt.) C. M. Hitchc.
  as 2140
2143  Calendula gilia polyphloea Torrey
  as 2140
2144  Astragalus amphiylos Gray
  as 2140
2145  Oenothera albicaulis Pursh
  as 2140
2146  Arabis Helbrellii Hamm., var. retrofracta (Aubl.) Rydb.
  Podz fairly strictly reflected - 2 mi. N.E. Cedaredge, Delta Co., among sagebrush with pines, alt. 7,000 ft.
2147  Arabis Helbrellii var. retrofracta
  Podz partly pitted, podz fairly strictly reflected, stems simple or branched.
  Under pines and among sagebrush, 3 mi. west of Cedaredge, Delta Co., May 25, 58, alt. 7,000 ft.
2148  Arabis
  Podz widely spreading - as 2146
2147  Cryptantha flavoculata (Nels.) Payson
  as 2146
Physaria flexuosa Rydb.
Rocky gully, 3 mi NE Cedaridge, Delta Co., May 21, 1938 - alt. 7,000 ft.

2151 Symposporangium on Junipers
as 2150

2152 Symposporangium on Amelanchier
as 2150

2153 Echinocereus aggregatus (Engel) Rydb.
continues
Barnes Knoll 12 miles west of Delta, near Juniper River, Delta Co., May 25, 1938 - alt. 2,000 ft. - Ball type forming hemispherical clumps 1 ft across - fl. brilliant orange red.

Encelia mitana (Castan) A. Nels.

2154 Regless - Echinocereus rotali - tuber 8-10 cm long 2-4 tubers, Rocky Knoll as 2153

2155 Pseudoeuphorbia Beharii Greene
as 2153

2156 Stanleya albescens Jones
clay flat, 12 miles south of Grand Junction, Mesa County, May 25; alt. 4,600 ft.

2157 Cleome lutetia Hook.
clay flat, 2 miles SE. Grand Junction, Mesa Co., May 25; alt. 4,600 ft.
2158  Penstemon cyanocaulis Payson
Sandy soil, Colo. Nat. Monument, 8 mi west
Grand Junction, May 26, alt. 6,500 ft.
Flower purple, blue

2159  Actinia acutiloba arizonica (Dreue) Blake
as 2158

2160  Arabis
as 2158

2161  Arabis
as 2158

2162  Lapodium montanum Nutt. var. jonesii (Rydb.) C.B. Nellis.
Flowers numerous - as 2158

2163  Fendlera rupeicola Engelm. 4 May
Shrub, 3-5 ft high - as 2158

2164  Acer Globinum Torr. var. tripartitus
Shrub 8-15 ft. - as 2158

2165  Caryocaropsis intima var. Watts
Shrub 1-3 or 4 ft high - bushy

2166  Filiis roseata Rydb.
Sandy hillside - as 2158

2167  Fraxinus anomala Torr.
Shrub 6-15 ft high - as 2158

2168  Eupatorium & Tripteroschila longirrictia (Wats.) Rydb.
as 2158

2169  Arabis pulchra
Ph. white - as 2158
Colorado

2170  Arabis
Stems several, petal pink to lavender
Colo. National Monument, 8 miles west Grand Junction, mesa co., May 26. alt. 6,500 ft.

2171  Descurainia lindheimeri (Nutt.) Watson
Sandy soil. as 2170

2172  Streptanthus cordatus Nutt.
as 2170

2173  Stanleya pinnata (Pursh) Nutt. var. integrifolia
Adobe soil. as 2170

2174  Erigeron
as 2170

2175  Townsendia arizonicana Nutt.
Sandy soil. as 2170

2176  Physaria australis (Pursh.) Rollins
as 2170

2177  Cryptantha flava (Nels.) Payson
Fl. yellow. as 2170

2178  Cryptantha flavoculata (Nels.) Payson
Petals white. as 2170

2179  Arabis holboellii var. retrofracta
Silique reflexed but pedicel not geniculate, among sagebrush on a stony hillside, near Mesa, Mesa co., alt. 7,000 ft., May 27

2180  Senecio integrifolius Nutt.
2 miles south Mesa, alt. 7,500 ft. - as 2179
2181 Cryptantha longifolia (Nels.) Payson
Conical tube & center bright yellow, lower white, stems second to 1. Canyon 9 plateau creek, 15 miles northwest of Palisade, Mesa Co., alt 6,000 ft. May 27, 35

2182 Abelia nudicaulis Gray
as 2181

2183 Aplectania spinulosa var. hirtella (Rydb.) Blake
Stems numerous from a wood root.
as 2181

2184 Lepidium parvifolium L.
Waste land in river bottom - as 2181

2185 Asselbyea abronia globifolia Standl.
as 2181

2186 Cirsium neomexicanum Gray
Fls white, plants 3 - 8 ft. high - stem branched.
as 2181

2187 Arabis
Among igneous rocks east 4 miles south of Mesa, alt 7,800 ft., May 27, Juniper zone.
as 2187

2188 Arabis Hallorellii Horm. var. retrofracta (Breb.) Rydb.
as 2187

2189 Penstemon Crandallii A. Nels.
Fls blue - sunny mats. - as 2187

2190 Townsendia arapah (Richards) Porter
as 2187
2191 Arabian
under Juniper, 10 mi no. Mesa - Mesa-Rifle, alt 6,600 ft, May 27, Mesa Co.
Belegue

2192 Cryptantha flavovulata (Nels.) Parry
fr. white, as 2191

2193 Epilobium Paraelea megalantha Worl. Staude.
prostrate, as 2191

2194 Physaria codonocarpa (Parry) Parry
Fruits small & winged on removed pedicle
as 2191

2195 Physaria juniperorum Parry
as 2191

2196 Aeschynomene cryptomeria Watson
as 2191

2197 Physaria floribunda Rydb.
near Mesa, alt 6,800 ft, May 27

2198 Sesquicrella luseniaca (Nutt.) Watson
as 2197 - pods reflexed in age

2199 Lithospermum micranum Behm.
as 2197

sand-clay flat 5 miles south of Delegue
alt 6,500 ft, Mesa Co, May 27
petals pink, fr. small, grazed by cattle.
2201 Arabidopsis

2 mi west of Rifle, Garfield Co., alt. 6,500 ft.
May 27, 38 - dry hillside

2202 Sisymbrium juniperorum Payson
Stems numerous; - as 2201 - flo white

2203 Arabidopsis

petals small, purplish; - as 2201

2204 Arabidopsis drummondii

among sagebrush on a dry hillside, 20 miles north of Rifle, Rio Blanco Co., May 27, alt. 8,000 ft.

2205 Arabidopsis

petals purple, or 2204

2206 Balsamorhiza sagittata (Pursh) Nutt.

Stems numerous, or 2204

2207 Lupinus Wootii Watson

Flo. purple - Cape chamo - sandy soil - as 2204

2208 Lupinus

Sandy soil; - dry hillside; - or 2204

2209 Phlycanthus australis (Pursh) Benth

petals sigmoid on seedsick, - as 2204

2210 Arabidopsis

as 2204

2211 Arabidopsis garnitser A. Nelson

among sagebrush, 20 mi no. Bayep, Carbon Co.
Wyoming, May 28, 38
Wyoming & Colo.

2212  Erythrina
 sandy plains, 20 miles W. Baggs, Carbon Co., alt. 6,500 ft.
 May 28, '38

2213  Thermopsis rhombifolia (Nutt.) Rich.
 as 2212

2214  Penstemon arenicola A. Nelson
 as 2212

2215  Sphaeralcea elegans (Gove) Parson
 aspen desert near Wamestler, May 28, '38
 alt. 6,500 ft.

2216  Penstemon arenicola A. Nelson
 sandy flat near Rode Springs, Carbon Co., May 28
 Els benite purple, alt. 6,500 ft.

2217  Sphaeralcea elegans (Gove) Parson
 dry river near Green River, May 28, alt. 6,000 ft.

 dry banks of Green River, Green River, Carbon Co.,
 May 28, alt. 6,500 ft.

2219  Astragalus longiflorus (Nutt.) Wang.
 20 miles W. Baggs, Carbon Co., May 28

2220  Physaria australis (Pasp.) Ballou
 Rocky hills near Muley, Rio Blanco Co., alt. 7,000 ft,
 May 28, '38

2221  Draba reptans (Kalm.) Fern.  det. Hitchcock
 40 x 2220
2222 Arabis ligulata A. Nelson
as 2220

2223 Crystanthemum Balsamiferum (Greene) Payson
as 2220

2224 Stanleya primata (Pursh) Britt. var. integrifolia
loc. Sh*tallie - 10 miles SW. west Craig - May 25, 18
Dug clay-lead soil.

2225 Castilleja chromosa A. Nelson.
Rocky hillside - 5 miles northwest of Craig, Moffat Co.,
Colo. May 25 - alt. 7,000 ft. -

2226 Sigmodon elegans (Jour.) Payson
as 2225

2227 Arabis

2228 Among sagebrush - as 2225

2229 Physaria heterophylla australis (Pursh) Robbins
as 2228

2230 Epilobium atripliciflorum Nutt.
Sandy soil among sagebrush.

2231 Eulalia congesta var. crenifolia (Nutt.) Gray
as 2230

2232 Pulsatilla tridentata DC.
as 2230 - alpine sprouting - 1-2 ft. high
2238 Cryptantha sericea (May) Payson
Fl. yellow - sandy soil; 2-3 mi. west of Fort Bridger,
Uinta Co., May 31 - alt. 6,500

2234 Cryptantha canadensis (Nels) Payson
Center fl. yellow - humus slope; otherwise as 2238

2235 Arabis
Silique stricta reflexed - among junipers.
as 2233

2236 Arabis lignifera A. Nels.
Silique pendulous - open area
as 2233

2237 Leucanthemum lindoviciana (Nutt.) With.
Rodey Kendall - as 2233

2238 Penstemon Cleburnei Jones
Hum. & rocky slope; 1 mile south of Green River, Sweetwater Co.; 6,000 ft.; June 2, '38

2239 Atriplex saximontana A. Nels.
as 2238 - Rodey Kendall

2240 Stenogyra primata var. integrifolia
Succ. leaves divided; as 2238

2241 Physaria distyloides australis (Payr.) Rollins
as 2238

2242 Eryngium
as 2238

2243 Cryptantha sericea (May) Payson
Fl. white - as 2238
Wyo...

2244  Bergmanella densa condensata A. Nels.
      Rocky-hill point 2 miles S E. Green River, 
      Sweetwater Co., alt. 6,000 ft., June 2,

2245  *\textit{Baqmanella}
      Cyagptilum Cygnoptilus fulvocovus Nels
      or 2244

2246  *\textit{Arabia lignifera} A. Nels.
      q2.224 + 4 - among sagebrush.

2247  *\textit{Bimeni basking} Pane
      or 2244

2248  *\textit{Hilica careptosa} (Shaw) A. Nels.
      careptes perennial, Fl. brownish or whit colored
      forming mats on a wind swept knoll.

2249  *\textit{Beneccio Puslinianus} Nutt.
      or 2244

2250  *\textit{Arabis}
      Wing hillside - as 2244

2251  *\textit{Artemisia}\textsuperscript{?} Artemisia spinacea D. C. Eaton
      shrub. 6" 1 ft. high - as 2244

2252  *\textit{Astragalus japonicus} Nels.
      Clay soil - as 2244 - Fl. pupleb - pods inflated

2253  *\textit{Euphrasia}
      or 2244

2254  *\textit{Abrome elliptica} A. Nels.
      or 2244
2255 - Castilleja chromosa A. Nels.
shale & rock slope, 2 miles southeast of Green
River, Sweetwater Co., alt. 6,000 ft., June 2.

2256 - Astragalus chamissonis Roy
Fer. purple - 2255.

2257 - Cryptantha capillata (Nels.) Penny
as 2255.

2258 - Allium nitidulum F. Muen.
= A. white - 2255.

2259 - Chaenostis chamissonis (Cast.) Rydb.
Stony hill, 25 miles so. of Green River, Sweetwater
Co., alt. 6,500 ft., June 3, 1938.

2260 - Pogonopora minutata (Nutt.) A. S. Hitchc.
Stoloniferous - roadside as 2259.

2261 - Penstemon scapigera Nutt.
on 2259.

Sandy flat - 2259.

2263 - Penstemon pachyphyllus Gray
among junipers 2 mi. north of Limwood,
Utah in Sweetwater Co., Wyoming,
alt. 6,100 ft., June 3.

2264 - Caulanthus crassicanthus (Tom.) Watson
as 2263.
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<tr>
<th>Page</th>
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<tbody>
<tr>
<td>2265</td>
<td><em>Descurainia pinnata</em> (Walt.) Britt.</td>
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<tr>
<td>2266</td>
<td>Arabic</td>
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<tr>
<td>2267</td>
<td><em>Arabis linicola</em> var.</td>
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<tr>
<td>2268</td>
<td><em>Arabis Halberdiei</em> var. nitidiflora</td>
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<tr>
<td>2269</td>
<td><em>Streptanthus Halimolobos virginus</em> (Nutt.) Schulz</td>
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<tr>
<td>2270</td>
<td><em>penitens</em> acadian r. west.</td>
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<tr>
<td>2271</td>
<td>*Ephedra viridica Griseb.</td>
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<tr>
<td>2272</td>
<td>Arabic</td>
</tr>
<tr>
<td>2273</td>
<td><em>Shavipetalon monandrum</em> Kochne</td>
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<tr>
<td>2274</td>
<td><em>Arabia lignifera</em> A.Nels.</td>
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<tr>
<td>2275</td>
<td><em>Arabia oligopenna</em> Nutt.</td>
</tr>
</tbody>
</table>
Euphrasia montana, Nutt. var. jonesii (Rydbe.) C. I. Hitch. among junipers on a dry slope, near Flaming Gorge, 15 miles north of mainla, Daggett Co., Utah. - June 3, alt. 5,500 ft.

Trifolium andirum, Nutt. - same hillside - as 2276.

Hesperis parviflora, Nutt. - shaded with slope - as 2276.

Arabis among junipers - as 2276.

Cryptantha flavovirens (Nutt.) Pursh - dry hillside - as 2276.

Arabis pulchra - near Sheep Creek among 9 junipers - 8 miles south of mainla, Daggett Co., alt. 5,500 ft. - June 3.

Iris Minnemensis - Rain bottom land, Blakes Fork River, 3 miles north of Hyrum, Uinta Co., alt. 6,500 ft. - June 6, '38.

Rut on plantago - as 2282.

Hypericum lewisii. - Flax purple, white - same meadow - sandy soil near Blakes Fork, 3 miles north of Hyrum, alt. 6,500 ft. - June 6, '38.

Renathera trichocalyx, Nutt. - as 2276.
2286  Aster xylochiza T. & G.
         Sandy soil in a ravine - near Black Fork
         3 miles N. Layman, Uinta Co. 7.6.30, June
         6, '35
2287  Arabis oboidea M. E. Jones
         among sage brush - as 2286
2288  Chaenactis Hymenopappus sp.
         2286
2289  Arenaria Hookeri Nutt.
         Examined male - as 2286
2290  Helianthus (Torr.) Nutt.
         as 2286
2291  Antennaria nepalina (nec nud., sect. 178)
         montana Nutt.
         ut. wyomingensis A. & H. Hitchc.
2292  Arabis castanea A. Nels.
         among sagebrush - as 2286
2798  Astragalus
         2284
2799  Penstemon hoisingtoni paysoni ind.
2800  Flowers purplish blue. Stems, several.
         Sandy creek bottoms, Cottonwood Creek
         10 mi. N. Layman, Uinta Co.
         June 7, '35 Alt. 8,000.
2801  Astragalus megacarpus (Nutt.) Drag.
         Flowers white. Stems decumbent, Rocky hillside
         as 2284.
2286  Actinon Richardsonii (Hook) Knitze
         Rocky Hillside, as 2284.
(2287.)  
Page 2802  
Penstemon clebunm jones  
Flowers, lilac. Sandy soil in creek  
bottom. Cottonwood Creek. 10 mi.  
no. Lomtree, Uinta Co. alt. 7,000. June 7, 1937.  

(2288.)  
Page 2803  
Arabia limosa L. var.  
Sulquea. Pendulous. under junipers. near Cottonwood Creek. As 2287.  

(2289.)  
Page 2804  
Petals + Sepals yellow, forming bunches 6 in.  
to 1 1/2 ft. across. clay flat 2 mi. no. Lomtree.  
Uinta Co. June 7, 1938. alt. 7,500  

(2290.)  
Page 2805  
Pheg. horrid. Richards.  
flowers white to pinkish. Clumps. As 2289.  

(2291.)  
Page 2806  
Lepidium.  
Hemispherical clumps. 6 in to 1 ft. across.  
clay hillside as 2289.  

(2292.)  
Page 2807  
Penstemon, radicans a. var.  
flowers blue. among brush & under  
junipers. near Cottonwood Creek.  
4 mi. no. Lomtree, Uinta Co. June 7, 1938  
alt. 7,500.  

2293.  
Thalictrum, alpinum  
clay hummocks. Lomtree, Uinta Co.  
June 7, 1938, alt.  

2294.  
Dodecatheon, e. americum  
flowers pinkish. Purple. As 2293  

2295.  
Pheg. variabilis Benth.  
flowers white to violet. at forming mats.  
ae 2293. On hummocks.  

2296.  
Salix. Bellima var. pacificata (Bryce) Schneb.  
Tree 15-20 ft. high. bark grey. moist creek  
bank. 1 mi. 56. Lomtree, Uinta Co. June 7, 1938  

2297.  
Salix. pseudomonadena (and) Rhyd.  
Tree 10-15 ft. high. Older bark, grey. As 2296  

2298.  
Salix. commutata Bell.  
Tree, 10-15 ft. high, bark, grey. As 2296  

2299.  
Salix. melanopis Font.  
Tree, 10-15 ft. high, bark, grey. As 2296.
2300  *Silia spinata* Nutt.,
Dry knob 1 mile no. of *Sonatine*, Uinta Co., alt. 7,000 ft., June 7.

2301  *Somaum Shagyi* Coulter, *Poa umbellata*
Rocky knob and hillside 3 miles south of *Sonatine*, alt. 7,600 ft., June 7, '38.

2302  *Eugenia altissima* (Nutt.) Watson
as 2301.

2303  *Arabie pennata*.
among sagebrush in the rockies - as 2301
*Silicium pendulense*.

2304  *Arabie liquifera* A. Nels.,
among brush and in open - as 2301
*Silicium pendulense*.

2305  *Arabie helvola* var.
on 2301 - *Silicium* strictly reflexed

2306  *Salix pseudo-endota* (And.) Rydb. var. *igualdis* and
Slime 8-10 ft. high - bark yellow.
near *Sonatine*, Uinta Co., June 7, '38, alt. 7,600.

2307  *Arabie*
Hillside under oak, brush, near *Beidie*.
Beidie, Co., Utah, June 12, '38.
alt. 6,000 ft.
2308  <i>Arctia ligustica</i> A. Nels.
    among sagebrush, Redclay hillside near Wyman, Uinta Co., June 13, 1838 - alt. 6,500 ft.

2309  Salix pseudo-eudora (And.) Rydb. var. equalis And.
    Tree 13-20 ft high - near mine, Wyman - Ft. Bridger, Uinta Co., alt. 6,800 ft. June 13, 1838

2310  Salix candida (Nutt.) Helder var. Bryantiana B. & B. nevada.
    Tree 20 ft high - trunk 3-4 in. in diam. as 2309

2311  Salix Bebbiana Sarg.
    Tree 10-15 ft high - as 2309

2312  Salix Nutt. nutt.
    Tree 10-15 ft high - as 2309

2313  Cercocarpus montanus Raf.
    Dry hills - 1/2 miles north Spring F. Bridger
    June 13, 1838 - alt. 6,500 ft.
    Trunk: about 12 ft. high.

2314  Penstemon hoarei poppy next.
    F&s. blue. - as 2313

2315  <i>Symphoricarpos vaccinoides</i> Rydb.
    F&s. white - as 2313

2316  Physaria australis (Prae. & Bolleis.
    Dry hillside - as 2313

2317  <i>Schrankia</i> candida Nutt.
    as 2313

2318  <i>Astragalus</i>
    stev. mearns.
2319  Potomogen
      deep water (4-6 ft) of Bridger Lake, Uinta Mts., Summit Co., Utah, June 22, 1938 - alt. 9,200 ft.

2320  Steineria primata var. gibberosa
      shale + lime, hillside - 3 miles n.w. Ft. Bridger, Uinta Co., alt. 6,500 ft. - June 14, 38

2321  Phlox longifolia Nutt. indub. color where
      piedmont bench, Ft. Bridger - Evanston, Uinta Co., June 14, alt. 6,800 ft.

2322  Arabis
      among sagebrush, silique strongly reflexed. - as 2321

2323  Hedysarum occidentale Hune
      Fts. pinkish purple, near Big Muddy Creek, Ft. Bridger - Evanston, June 14, alt. 7,000 ft.

2324  Penstemon humilis Nutt.
      Rocky hillside - as 2323

2325  Phlox multiflora A. Nels. var. diphylla e. Nels.
      red white, among sagebrush - as 2323

2326  Sesquicella protreta A. Nels.
      dry hillside - as 2323

2327  Zygophyllum paniculatum (Nutt.) Wats.
      under junipers - as 2323
2328 Cryptanthus canariensis (Nel.) Payson
high, rocky ledge - near Big Muddy Creek, Ft. Bridger - Evanston, June 14, alt. 7,000 ft.

2329 Silvia concolor Hook.
as 2328

2330 Cornus canadensis (Torr.) Wats.
among junipers, 20 miles east of Evanston, alt. 7,000 ft - June 14.

2331 Vaccinium petraeum (Nutt.) Jfr.
fls. blue -
as 2330

2332 Desmidiea princeps var. halitana (tcll.)
under junipers - as 2330

2333 Astragalus jasmicus Wats.
pods inflated, clay-loam hillside - as
in 2330

2334 Cryptanthus flavovirens (Nel.) Payson
sandy soil - as 2330

2335 Rust on Gynindra
montana - as 2330

2336 Senecio winterianus (A. Nel.) Greenm.
among sagebrush - as 2330

2337 Penstemon cyananthum Hook.
fls. bluish-purple, stems one or two.
divide, Ft. Bridger - Evanston, Uinta Co.
Wyoming

alt. 7,500 ft. - June 14, '38

2338 Cleome montana (Hook) H. & A.

2339 Cleome simulata Pursh.
Sandy soil - 20 mi east of Evanston, alt. 7,000 ft. - June 14

2340 Triglochin maritima B. 

2341 Ageratina radians Nutt.
Divide, Ft. Bridger - Evanston. June 14, '38
alt. 7,500 ft. -

2342 Erythronium
Ver. yellow - among ragbushes. - as 2341

2343 Dendyca iridiflora Nutt.
Sandy soil - as 2341

2344 Lupepadia Eatonii Coulf. & Rose
Sandy soil - as 2341

2345 Punica terebinthina (Haw.) c. & r.
var. calcaria (Torr) Mathias

2346 Phacelia sericea (Brock.) Gray
var. Nelsoni Brand.
among ragbushes - as 2341

2347 Phacelia magellanica (Haw.) Coulde
S. heterophylla (Angel.) Brand
among ragbushes -

15 miles east of Evanston, Uinta Co.,
June 14 - alt. 7,000 ft. -
2348  Tanacetum Nuttallii T. & G.
lying bluff, 2 miles south of Carter, aidla Co.
alt. 6,500 ft. June 16, '38

2349  Asclepias cryptomeria Walt.

2350  Homentum megarrhizum (Reh) Mathur
clumps 1st across - as 2348

2351  Stanleya primata var. gilbertana
among junipers - as 2348

2352  Rumex hymenocarpa Traut. var. salina (Reh) Reh.
clay flat - near Zedare Ranch, mottled
mud co., June 16, '38 alt. 6,500 ft.

2353  Arabis
siquiqui strictly reflected
among sagebrush - Flat From Buttes, mottled
Lincoln Co., alt. 7,000 ft. June 16, '38

2354  Penstemon boivae Pauyson incl.
as 2353 - alt. 7,500 ft.

2355  Cryptantha arizana (May) Pauyson
as 2353

2356  Crepis occidentalis Nutt.
as 2353

2357  Crepis modocensis Greene
as 2353 - alt. 7,500 ft.

2358  Helianthus uniflorus (Nutt.) Torr.
as 2353 - alt. 7,500 ft.
2359  Astragalus ligniferus A. Nels.
       Wulikte pandolour, under pines.
       Flat Iron Butte, northern Lincoln Co.,
       June 16, '38 alt. 7,500 ft.

2360  Astragalus lasquetella condensata A. Nels.
       hilltop - or 2359

2361  Astragalus pusillus Doug.
       among sagebrush - or 2359

2362  Astragalus Fichense Wats.
       bleake hilltop.

2363  Penstemon
       cre. blue - steen jun. - or 2357

2364  Penstemon humilis Nutt.
       cre. blue - steen nunnum - or 2359

2365  Hesperis patens (Nutt) Jtt.
       cre. blue - or 2357

2366  Astragalus simplicifolius (Nutt.) Bray
       among sagebrush - table land 10 miles
       June 17, '38

2367  Donatianus juniperinus (Jones) Cochr. & Rose
       matthews
       or 2366

2368  Astragalus
       or 2366

2369  not in clusters - or 2366
2370 Castilleja
among sage brush, table land. 10 mi. south
Mt. View, Uinta Co., alt. 7,500 ft. June 17

2371 Draba stellata bells var. nana (Schultz) C.B. H., incl.
8 mil. yellow - under aspens — 15 mil. east.
Mt. View, fort bluffs, Uinta Mt., Uinta Co. June
17 — alt. 8,000 ft.

2372 Arabis Drummondii
as 2371

2373 Senecio integerrimus Nutt.
as 2371

2374 Delphinium nevadense Greene
as 2371

2375 Hydrophyllum capitatum Douglas ex Benth.
maint grounds.

2376 Lithodora diffusa Link
as 2371

2377 Arabis Halstedii var. reticulata
poa strictly reflected — among sagebrush

2378 Menthaea oblongifolia (Nutt.) Don.
as 2371

2379 Polemonium Ericorum adelgimum Hook.
bad lands near Black's fork River, 8 mil. east of logman, near
29, 38
alt. 6,500 ft.

2380 Delphinium nevadense
sandy Knolls — as 2379
2381  astrogalus

generally found - as 2379

2382  Tanacetum Nuttallii T. & R.

Rocky Plate near Bladet Forks River, 8
miles east of Laramie, June 20, 1938
alt. 6,500 ft.

2383  Stanleya primata (Rous) Britt. var. gibbosa

Liny shrubs 2 Bridger Butte, 3 miles
west of Fort Bridger, Uinta Co., June 24, 1938
pods nearly round somewhat formless, (pointed),
sprouting 1 slightly ascending - alt. 6,200

2384  Streptanthus condatus Nutt.

or 2383

2385  physaria condensata sp. nov.

Rosettes sedum-like - liny Knoll - as 2383
may be a phase of P. delicatissima

2386  Hymenogephius sp. comp.

or 2383

2387  physaria australis (Papp) Rollin

plants normal - as 2383 - growing on
a protected liny Knoll.

2388  Stanleya primata var. gibraltar Rollin

distinct shr. along a canal, banks, 3 m
west of Bridger, June 34, 1938

2389  Fossils

Fossil Cut near Green River, Wyoming
June 4, 1938 - Sweetwater Co.
2390  Stanleya pinnata (Pursh) Bitt. var. integifolia
  Leaves sometimes all entire but the lower unusually divided.

2391  Stanleya pinnata var. integifolia
  Rock Springs, Sweetwater Co., June 26, 38 - alt. 5,500 ft.
  Close to lake Hook. - 50 species.

2392  Stanleya pinnata var. integifolia
  4 miles east of Paces, Carbon County, June 26, 38 alt.
  Open prairie.

2393  Cryptantha flava (Nels.) Pamp.
  Living slope 5 miles north of Saratoga
  Carbon County, June 26, 38 - alt. 7,500 ft.

2394  Cryptantha flava (Nels.) Pamp.
  As 2393.

2395  Engelmann
  Among sagebrush - 10 miles east
  of Saratoga. Carbon Co., June 26, 38
  alt. 8,000 ft.

2396  Stanleya pinnata (Pursh) Bitt.
  Open plain - 5 miles west of Baranina,
  Albany County, alt. 7,800 ft. June 27, 38

2397  Lepidium montanum Nutt. forma Wyomingicum
  Steven several, open plain 5 miles west
  of Baranina, Albany County, alt. 7,800 ft.
  June 27.
398

tragunculara lindheimeriana (Witt.) Wats.

Open plain 5 miles west Baranica, Albany Co., June 28, '38 - alt. 7,800 ft.

399

arabina

Open pine woods, 4 miles west of Estes Park, Larimer Co., Colo., June 29, '38

alt. 8,100 ft.

400

arabina

Quercus sect in coniferous woods, 3 miles south of Morain Pass, R. Mt. Nat. Park,
Larimer Co., Colo., June 30, '38 alt. 8,500

Pods spreading - petals pinker.

401

arabina

Petalae picte, petals nearly reflected but not strictly so; stem single from a root.

as 400.

402

arabina Haloragis homeri

Petals white, petals strictly reflected, stem nearly to maximum from a root.

as 400.

403

pentstemon cryptophosphus Rydgb.

Stem single on several, flat blowl.

among sagebrush 10 miles west, Fremont

Lake, Fremont Co., Colo., June 30, '38

alt. 7,000 ft.

404

pentstemon wimina pennell

on bluffs, 10 miles east of Rusklyj

June 30, '38 - alt. 8,500 ft. Bernal County
Stenotaphrum paniculatum (Pursh) Britt.
Flowers white to pinkish, 4 mm, June 30, 1938, alt. 8,000 ft.

Stanleya pinnata (Pursh) Britt.
Flowers greenish, to pinkish, 3 mm, July 6, 1938, alt. 8,000 ft.

Stanleya pinnata (Pursh) Britt.
Flowers magenta, 3 mm, July 6, 1938, alt. 8,000 ft.

Engelmannia
Flowers yellow, 8 mm, July 6, 1938, alt. 8,000 ft.

Sisymbrium linearifolium (Hook) Poiron
Flowers lilac to purplish, July 6, 1938, alt. 8,000 ft.

Paliagia paradoxa (Con.) Endl. Rosaceae
Shrub 3.4 ft., bark gray, furrowed.
Mouth of Cimarron canyon, 3 mi. w. of Cimarron, Colfax Co., petals white, 8,500 ft., July 1, 1938.
New Mexico

2411 Pentstemon strictus Bentth.
For purple, stem one or several,
planted, seed on a dry slope, 15 miles
east of Taos, Taos county, New Mexico
8,500 ft. July 15, 38

2412 Pentstemon linearifolius Gray
subsp. Tesoula Keeler
Stems many or + with a decumbent
barren, caespitose, for midlate purple
as 2411

2413 Pentstemon digitatum Woot. & Standl.
Stem several, flat bluish, as 2411

2414 Physaria floribunda Ryd.
Granitic slope in lower dry area
Montana zone, 10 miles east of Taos.
Taos Co. alt. 9,000 ft. July 1, 38

2415 Lencampyr Newberryi Gray
comp. 2414

2416 Bisphogo Baileya multiflora Harv. & Gray
Stem several, intricately branched, roadside
upper Sonoran desert, 10 miles west of
Albuquerque, Bernalillo Bernalillo Co.,
July 3, 38. alt. 5, 200 ft.

2417 Scopogloa Dithyma Wootzoni Engelm.
For white - 15 miles west of Albuquerque,
or 2416

2418 Philotheca tagetinae (Nutt.) Britt.
on 2417
2419  *Leptidium montanum* Nutt. var. alpinoides (Gray) Sour
among bands near Bluewater Lakes, Valencia County, N.M. - alt. 7,500 ft.
 ctx 1, 1938
2420  *Astragalus*
 peers solid, *Attina nummularia*, an 2419
2421  *Eryzium*
ren single, simple or branched, low erect, the lemma yellow, granitic soil, Continental
divide, 3 miles west of Thoreau, McKinley Co.,
July 4, '38 - alt. 7260 ft.
2422  *Sphaeralcea digitata* (Schwein) Rglbl.
 ren nummularia, an 2421
2423  *Alzonia fendleri* Mch.,
 sand soil - stems few to several-
terni. w. of Gallup, N.M. - McKinley Co. - July 4, '38 - alt. 6000 ft.
2424  *Datura bristoides* DC.
 bush - 1 1/2 - 2 1/2 ft. High - profusely branched.
 leaves deltoid - as 2423.
2425  *Stanleya pinnata* (Pursh) Butt.
 stems several to numerous, branching near
 base - lower leaves divided - pods aseparate.
 July 4, '38.
2426  *Dithyrea Wildigrimi Engel.  
Granitic soil - open plains - 10 mi. s.e.  
Hollbrook - Navajo Co. - alt. 5000 ft. - July 4, '38.

2427  *Stachyga primata (pumila) Britt.  
Shore for divided - upper entire - 2-3 ft.  
Red clay formation - 10 mi. west of Winslow,  
Coconino Co. - alt. 6,500 ft. - July 4.

2428  *Cononia Brachimeria Torr.  
Rosaceae  
Shrub a small tree, bark pungent, ode,  
woody growth to 2 inches in depth - 6  
mi. east of Flagstaff, Coconino Co., May  
July 4, 1938 - alt. 6,500 ft.

2429  *Cryptanthus juarezii (Tor.) Payson  
var. multicaulis (Tor.) Payson?  
Fruit litter - July 5, 1938 - as 2428.

2430  *Penstemon nigatius Gray  
Fleshy lilac - as 2428 - July 5.

2431  *Dodonaea vitamin Wrightii Gray  
Begoniaceae  
as 2428 - July 5.

2432  *Emperei Townsendia strigosa Nutt.  
Shrub abundant, sandy soil - 16 miles  
south of Navajo Bridge across Colorado River,  
Coconino Co. - orig. - July 5, 1938 - alt. 4,000 ft.

2433  *Calendula hirsuta (Tor.) var. latifolia  
var. latifolia  
Very prickly, stems mitten, shortland  
red sandy soil. 5 mi. north of Navajo Bridge,  
July 5, 1938, Coconino Co. - orig. alt. 4,000 ft.
2434  Emacia frutescens Gray, var. resinosum Jones
Shrubs 1 - 2 ft high, intricately branched, base very woody, bark gray to white.
5 miles southNavajo Bridge across Colorado River, Coconino Co., Aug. July 5; alt. 4,000 ft.

2435  Dipodiscus montanus Nutt. var. canescens (Fisch.) C. B. Kitiis.
Stems numerous, intricately branched,
5 miles southHorse Rock, Coconino Co., Aug. July 6; 38; alt. 5,500 ft.

2436  Cassutha Fendleri Hay
Small shrub with somewhat depressed stems, 1 - 2 ft., 3 mi north Jacob Lake, Coconino Co., July 5; 38; alt. 7,500 ft.

2437  Prunus linarioides Hay
subsp. Sierii (Gray) Hale
Figs silver to bronzy, stems several somewhat racemose, at 2436

2438  Phlox cumbens Montane Coonell
for white. Open park - 20 miles south Jacob Lake, Coconino Co., Aug. July 5; 38; alt. 9,000 ft.

2439  Helianthus Humistrati T. A.
Sandy soil - 3 miles southNavajo Bridge, Coconino Co., Aug. July 5; 38; alt. 4,000 ft.

2440  Philosteephe sparsiflora (Hay) A. Nelson
as 2439
2441. Cryptantha gambelii var. ericoides (May) Payson

2442. Arabis perennis Wats.
Stems several - fruits areinate - lying rocks - as 2441.
2442a = A. franklinii (Wats.) Seavey

2443. Atriplex moatensis May
Shrub - 2-3 ft. high - bark reddish - leaves often apiculate - forming thickets several ft. across - as 2441.

2444. Cryptantha Jamesii (Tom) Payson
var. douglasii (Tom.) Payson
Stems decumbent - crevices of lying rocks - as 2441.

2445. Orobus arvensis var. mochivesi C.B. Niel.
Granitic soil - under P. ponderosa - 82 2441.

2446. Penstemon palmeri Hayn. Topotype
subsp. glandulosus Hitch. stems numerous from a woody base, 3 ft. white to faintly pink; 1½ - 2½ ft. high - 1 mile north of Kanab, Utah - July 6, '38 - alt. 5,000 ft.
2447 Wyethia scabra Hook.
STEM NUMEROSA FORMING CLUMPS 1-2 FT HIGH
1-2 FT. HIGH.
Sand hills 5+ miles north of Kane city, Kane
Co., Utah, alt 6, 500 ft.
July 6, 1938.

2448 Physaria Chamberii Rollins
Red sand, Red Canyon, 16 miles west
Bryce Canyon, Garfield Co., Utah, alt 7, 000 ft.
July 6, 1938.

2449 Cryptantha Jamacii (Torr.) Payson
VAR. DITICHA (TURR.) PAYSON
2448.

2450 Euphrasia
Granitic soil under P. ponderosa. Bryce Canyon,
Garfield Co., Utah, July 7, 1938 - alt. 8,000 ft.

2451 Acanthorhiza Pinetorum Rollins
FORMING CLUMPS 1½-2½ FT HIGH. AS 2450.

2452 Eriogonum chrysophalum ray
FOR WHITE, ROCKY HILLS. Bryce Canyon, Garfield
Co., July 7, 1938 - alt. 8,000 ft.

2453 Chrysothamnus borealis Nutt.
Fls. pink, as 2452.

2454 Hymenopappus hugensi Greenl. camp.
as 2452.

2455 Limun Kingii Watson
GRASSY
GRANITIC SOIL, OPEN AREAS - AS 2452.
2456 Pemphionum Watsonii Gray
Flowers purple blue, stems numerous forming bunches at foot roots, among Cryptum 8 miles north of Paragonah, Iron Co., Utah, alt. 7,000 ft.

2457
Stambea primata (Pursh) Britt.
Stems numerous from a low woody base, lower leaves divided, upper entire, heavy scale in a canyon, 5 miles northeast of Paragonah, Iron Co., Utah, alt. 6,000 ft., July 7, pods erucate

2459 Pemphionum compositum Watson
Stems few, flowers purple to blue, among Cryptum, 7 miles northeast of Paragonah, Iron Co., Utah, alt. 6,500 ft., July 7.

2460 Paraphyllium ramoncinum Britt.
Shine 3-4 ft. high, as 2459

2461 Eriogonum shankleyi Watson
May contain (grows) Stenon
Wash Wash Wash, 35 miles west of Milford
Beaver Co., Utah, July 28, alt. 6,150 ft.

2462 Stambea primata (Pursh) Britt.
as 2461

2463 Stenonion stenonii Gray
Comes
Stems numerous, rock crevices
as 2461
2464 Tetradynam glabrata Gray
Shrub about 1 ft. high, near Rattlesnake, Millard Co., Utah. alt. about 5,000 ft. July 8, '38
among sagebrush

2465 Nicotiana attenuata Torr.
Sandly soil, cinder dusty brown. 3 miles east of Baker, White pine Co., Nevada - alt. about 6,500 ft. July 8, '38 - among sagebrush

2466 Penstemon Watsonii Gray
Fls. blue, near Helman Creek, east of Mt. Wheeler, White pine Co., Nev. alt. 9,000 ft.
July 8, '38. - Smoke Range.

2467 Aquilegia Formosa Eich.
Fls orange to red. - as 2466

2468 Penstemon Eatonii Gray
Fls. red - as 2466

2469 Arabis
Shrub several, pods pendant on arched pedicels, among rocks, near Helman Creek, Smoky Range, east of Mt. Wheeler, White pine Co., Nev., July 8, alt. 9,000 ft.

2470 Arabis
Shrub one or few, pods strictly reflexed, as 2469.

2471 Primula Densiflora (Nutt.) Walp.
Shrub 6-10 ft. - among boulders - as 2469

2472 Sambucus melanocarpa Gray
Shrub 2-5 ft. high - as 2469. - among boulders
2473  Cardamine cordifolia Brag
       Along Lehman Creek east of Mt. Wheeler
       White Pine Co., Nevada - 9000 ft. - July 9, 1938

2474  Barbaraea orthocerae Wedel
       As 2473 - flowers yellow

2475  Cappella Hackelia patera (Nutt.) Nutt.
       Among sagebrush - near Lehman Creek - as
       2473

2476  Aquilegia scopulorum Tidestrom
       Flowers white - among rocks - alpine peak -
       east of Mt. Wheeler - Snake Range - alt. 11,000 ft.
       White Pine Co., Nevada - July 9, 1938 - eastern -
       most peak of Wheeler massif

2477  Arabis hemizonii
       Flowers purple - stems several - growing
       among rocks - as 2476 - siliques horizontal to
       somewhat erect

2478  Penstemon breviflora Wed. ex. H.
       Flowers purple - low, caespitose -
       crevices of rocks - as 2476.
2479  Draba lanceolata Royle  Lat. Hitchcock
       Flowers white, caesiptose, as 2476.

2480  Castilleja laxiflora Heller
       Corolla deep, dull reddish, among rocks, as 2476.

2481  pseudocymopteris humboldtii (Turr.) Mathews
       Umbelliferae
       Stems decumbent, among rocks, as 2476.

2482  Astragalus
       Flowers purple, white keel, among rocks, as 2476.

2483  Phlox
       Flower white to pale bluish - as 2476.

2484  Penstemon keeleri Chace  off.
       Plants Flowers blue - among rocks - alt.
       10,000 ft. - 2 mi. south of Lehman Creek - Mt.

2485  Arabis fendleri
       Silicres pendulous - stems one or two - rocky.
       soil - aspen zone - 10,000 ft. - as 2484.
2486  Arabis drummondii

Among grass - under aspens - flowers white - as 2484

2487  Corallorhiza maculata Raf. eli. L. 2 Mi. w. Orchilacae

Apparently parasitic on Ceanothus, as 2484. Lip yellowish. - Blade white wth
purple dots.

2488  Arabis holboellii Hornem

van. retifolia (Reh.) Rydb. 4 Mi. s. w. of Ely - White Pine Co. - Nevada
July 10, '38 - Elev. 6500 ft.

2489  Cryptantha flavescens (Nels) Payen

Under junipers - as 2486

2490  Stanleya viscidiflora Nutt.

Stem branched - as 2488

2491  Penstemon densiflorus Doug.

Flowers white - stems numerous - rock
slide - as 2486
2492  
*Streptanthus condatus* Nutt.
Open hillside - siliques divaricate - 4 mi. s. w. of Ely - White Pine Co. - Nevada - July 10, '38 - alt. 6,500'

2493  
*Stanleya primata* (Pursh) Bitt.
Stems numerous - lower leaves divided, upper entire - siliques arcuate - lying out - crop - 32 mi. s. w. of Ely - White Pine Co. - Nev. alt. 6,000 ft (+) - July 10, '38.

2494  
*Cardinalis crassianthus* (Torr) Wats.
Dry Knoll - juniper formation - 6.2 mi. s. w. of Ely - Nye Co. - Nevada - 6,500 ft - July 10, '38.

2495  
*Erysimum*
Stem branched - single - as 2494

2496  
*Streptanthus* *Cardinalis pilosus* *Wats.*
Stems one or few, basal fur divided, inflorescence on racemose cymes, panes over (Panaca Mts. 84-116 mi. s. w. Ely, Nye Co., Nev. July 10, '38 alt. 6,000 ft

2497  
*Epilobium Arenariae alpaeoider* H. & A.
Per pink - as 2496 var. Villeneue Vats.
Nevada

2498 Stanleya primata (push) Britt.
Bowers list divided. Roots acculate. Between Pancake & #1 Creek Rangers, 60 miles

2499 Stanleya elata M. E. Jones
Stems one or few, 2 - 3½ ft. high, among sagebrush
Sedigent, straight or slightly curved. 2 miles
West of 5 mile Spring, Nye Co., Nev., alt. 6,000 ft.
July 10, '35

Penstemon Bridgeri May

Stems numerous from woody base. Flower
scarlet. Among rocks in canyon.
Eastern slope Toiyabe Mts. 8½ mi. West of
Alt. 6,000 ft.

2501 Stanleya elata Jones

Stems one to several - as 2500.

2502 Physaria Chambersii sp. nov.

Sedigent in the Toiyabe Mountains, 15
miles west of Round Mountain, Nye County.
July 11, '38. alt. 8,000 ft. Jett Canyon Creek
Watershed

2503 Stephananthus Cantharus major (Tooe) Baynum
Fls. dirty white. Among sagebrush. - alt. 7,000 ft
as 2502

2504 Pittospermum Dumpl.

Fruits orange. Stat. 3 - 4 ft. - 7,000 ft. - as 2502
25.05
*Esquilllea Kingii* Watson
Stem decumbent, dry granite slope, Taughla Pts.
15 mi west Round Mountain, Nevada Canyon.
July 11, 12° - alt. 9,500 ft. - *get crust
water sheath*

25.06
*Phlox Standwyu* (Tenn) Heller
Fls. white - on 25.05

25.07
Penstemon speciosus *Doug.
Fls. blue - on 25.05

25.08
*Silvia congesta* Hoke.
Var. montana (Rae. & Kim.) constans & reclinans
Fls. white - on 25.05 - southern blue

25.09
*Arabis*
among sagebrush at 7,000 ft. - otherwise on 25.05

25.10
*Cryptantha humilis* (Bray) Panz.
Fls. white - on 25.05

25.11
*Arabis*
Under pines monopylella - at 7,500 ft.

25.12
*Arabis*
Open area at 9,000 ft. - at 25.05

25.13
*Amsinckia tessellata* Bray. Boraginaceae
Fls. yellow. - Sun slope under pines
as 25.05 - alt. 8,500

25.14
*Senecio rediviva* Pursh
Fls. white - was not present - as 25.13

25.15
*Cistanthus oophorus* Water.
Pods inflated - among sagebrush - alt. 7,000 ft.

25.16
*Prunus Andersonii* Bray
Shrub - 2,400 ft. high - as 25.15
Populus bidentata Sarg.
Tree. 15-25 ft high, base large, upper dark glossy green, lower uniform white, buds very tiny—8 1/2 mi. west Round Mountain, Nye Co., Nev., July 12, 38—alt. 6,375 ft.

Arctostaphylos pumila (Pudum) Nutt.
Stands primates (Pumps) Birth-Grasses abundance, lower flat divided indur soil near Round Mountain, Nye Co., July 13, 38—alt. 5,000 ft.

Arctostaphylos a. Nelson
Arctostaphylos A. Nelson
Species spreading—petals pink to purple, hump near South Twin Creek, eastern base of Tonjalea Dome, Tonjalea Mtn., Nye Co., Nev. July 13, 38, alt. 9,000 ft.

Arctostaphylos crenulata W. & A.
Petals deep pink to purple, ridged crest, stumps numerous, in the upper 6 arns, southern, eastern slope of Tonjalea Dome, Tonjalea Mtn., alt. 10,000 ft—on 25/19.

Frasera speciosa Douglas
Pine, conical with blue spots. Open eastern slope of Tonjalea Dome, alt. 11,000 ft—on 25/19.

Arctostaphylos
Arctostaphylos
Among rocks, alt. 11,000 ft. on Tonjalea Dome, on 25/19.

Valeriana publenta Rigid.
Open slopes of Tonjalea Dome, alt. 11,000 ft—on 25/19.

Ranunculus oregnitus Gray
Mint slope, alt. 14,000 ft—on 25/19.

Arctostaphylos densifolia Nutt.
Wind swept slope of Tonjalea, 14,000 ft—on 25/19.
25-26 Trifolium
Fls. reflexed, pink.
Rocky eastern slope of Towyaha Dome, alt. 10,500 ft.
25-27 Erica aida C.L.H. infd.
25-28 Thlaspi glaucum A. Wall.
25-29 Eriophyllum lanatum (pursh) Forbes
var. intergrifolium (Gray) Smiley
under P. montepuletra at 9,500 ft. on eastern slope of Towyaha Dome - as 25-25
25-30 Arabis montepulchra
Rocks encrusted by breccia rocks - South Twin River
6 miles west of mouth - alt. 7,500 ft. - as 21-26
Nye Co.
26-31 Mentzeria oblongifolia (Kutch) Don.
var. nataliensis (Nutt.) Wats. ex H. Wats.
Rocky slope of Towyaha Dome, alt. 11,000 ft. - as 26-32
26-32 Ribes Nuttallianum hairy
among sagebrush at 10,000 ft. - as 25-25
25-33 Englemann
under pines at 10,000 ft. - as 25-25
25-34 Astragalus Beckwithii T. Q.
among sagebrush - South Twin River's
6 miles west of mouth - alt. 7,500 ft.
25-35 Weaquaella Knighti Watson
stems decumbent, river gravel - as 25-34
25'36  Cactanthea crispicaulis (Torr) Water.  
Stems one to 3 in. - among sagebrush at north of Twin South Twin River, eastern slope of Toiyabe Mtns., Nye Co., Nev., at 6,000 ft.  
July 14, '38

25'37  Batula microphyllo Bunge  
Tree 15-35 ft. high, bark yellowish.  
as 25'36 - along creek.

25'38  Bulle floccosa Arey  
Fls. bluish, annual - as 25'36 - among sagebrush.

25'39  Eriogonum angustulum Benth. var. manilata (Nel. ex)  
Annual - among sagebrush - as 25'36

25'40  Cryptantha Thelephorum laciniatum (Hook.) Endl.  
Stems usually branched, fls. white - among sagebrush, 5 miles west of Eureka, Eureka Co., Nev., July 14, '38 - act. 6,500 ft.

25'41  Stadelia viridiflora Nuttall  

25'42  Cryptanthea interrupta (Broun) Payson  
Stems one or few - fls. white - as 25'41

25'43  Physaria Chamberlina Benth.  
Pods forming January edge at surface, as 25'41

25'44  Bulle congesta Hook.  
as 25'41
25°45'  Arabis Drummondii
Fles white, grassy slope at the head of
Ramnille Creek, Ruby Mts., Elko Co., Nev.
July 16, 38 - alt. 9,000 ft.

25°46'  Arabis siskiensis
Fls purple, silique divergent. Slope a head of
Ramnille Cr., on 25°45' - alt. 9,500 ft.

25°47' = 25°47'  Arabis patellifolia
Among granitic rocks & on dry ground, on 25°45' - alt. 7,500 ft. - fls. purple,
silique divergent.

25°48'  Arabis Hallboellii var. nitidiflora
on 25°47'

25°49'  Ranunculus
moist area - as 25°45' - alt. 9,500 ft.

25°50'  Dodecatheon Jeffreyi Moore
moist creek bank - flowers pink - as 25°49.

25°51'  Dodecatheon alpinum (Walt) Dunn
flowers deep pink - moist area - as 25°49

25°52'  Primula Umby Sher
moist area under rocks - alt. 10,000 ft. - as 25°53

25°53'  Phlox hydropyllum capitatum Engl., var. alpinum Walt.
Fes white - moist slope at 10,000 ft., as 25°45

25°54'  Arabis nowsonii
Among granitic rocks - 10 - 11,000 ft. above
Liberty Pass - as 25°45'


*var. hamatum* Payson

As 2555


Dry rock crevices - as 2555

2558. *Draba sphaerosidea* Payson

Dry rock crevices - as 2555

2559. *Silia nutallii* May

near Laméville Creek - mouth of Thomas Canyon - bitter alt. 7500 ft. - July 16, '38 - Ruby Mts. - Elko Co., Nevada

2560. *Arabis bifurcata* aspen

Rich woods - as 2559


Basal leaves about 1 ft. long - open areas near woods - as 2559 (but July 17, '38)

2562. *Helianthus uniflora* (Nutt.) T. & G.

Stems numerous - as 2559 (but July 17, '38)
2563  *Arabia glabra*

Stem single, rich aspen woods - near Lamóille Creek - mouth of Thomas Canyon - Ruby Mts. - Elko Co., Nevada - alt. 7500 ft. - July 17, '38

2564  *Arabia hirsuta*

Rock crevices - Lamóille Canyon - between Lamóille Crk. and Verdi Pk. - stems one or several - alt. 8500 ft. - July 17, '38.

2565  *Penstemon prostratus* Greene

Flowers white - stems several - under aspens - as 2564, anthers purple

2566  *Dieroba Tunara mertensiana* Bong.

Along creek in moist soil - as 2564

2567  *Zygodenmis elegans* Pursh

Flowers white, plants caespitose - as 2564, moist stream bank.

2568  *Physaria Chamberi*ii COLLINS

Leaves rosulate - dry hillside - between Lamóille Crk. & Verdi Pk. - alt. 9000 ft. - July 17, '38.

2569  *Oraba splendens* paniculata

Dry rock crevices, silicines pubescent - as 2568

2570  *Arabia Crandallii*

Near rocks, granitic soil - as 2568.
2571  Fritillaria atrapunacea Nutt.
       Calix segments brown blotches on inner
       surface - stems one - alt. 9500 ft - other
       data as 2568.

2572  Penstemon brevifolius (Gray) A. Nels.
       Flowers blue - stems numerous - alt. 9500 ft
       as 2568.

2573  Streptanthus calidus Nutt.
       Among granitic rocks - petals purple
       tipped - as 2568.

2574  Draba oligosperma Nutt.
       Basal portions nearly erect - rock crevices
       as 2568.

2575  Castilleja vicinula Gray
       Flowers white - in rock crevices - as 2568.

2576  Penstemon speciosus Douglas
       Flowers blue - in meadow, Jarbridge Mt. 15 miles

2577  Silphost oregana (Nutt.) Gray
       as 2576.

2578  Penstemon watsonii Gray
       Stems numerous, plata blue - as 2576.

2579  Arabia holboellii var. retiniflora
       Stems strictly reflexed, dry hillsides near
25-80  
*Enogonum hertschiiodes* Nutt. var. minus Britt.  
Dry slope near Garbridge, Elko Co., near 
Garbridge Res., July 19, 38. alt. 9,000 ft.

25-81  
Sphaeralcea minoraria (Dong.) Torn.  
Stems numerous, Garbridge Canyon, near 
Garbridge, Elko Co., July 19, 38. alt. 8,500 ft.

25-82  
*Enogonum proliferum* T. & G.  
as 25-81

25-83  
*Stanleya pinnata* (pincush) Britt.  
Stems numerous, lower leaves divided.  
Upper entire, pods axillate, base woody. 
Near Bliss, Idaho, on Clay Hills, Bosting Co. 

25-84  
*Pentstemon pseudopulchellus* Rydb.  
Fls blue, stems several to numerous  
well-drained soil, 15 miles N. E. Cascade, 
Valley Co., Idaho - July 22, 38. alt. 6,000 ft.

25-85  
*Minuartia debilis* Pich.  
Fls deep rose, wet banks near a spring. 
Big Creek Summit, 20 miles N. E. Cascade. 
Valley Co., July 22, alt 6,500 ft.

25-86  
*Pentstemon fruticosus* (pincush) Greene  
Fls blue, base woody. among rocks. 
as 25-85
Idaho

2587  Frasera montana Mulfords
petals white, stems several to numerous, near Warm Lake, 28 miles N.E. Cascade, July 32, 38, alt. 5,000 ft.

2688  Colchicites erysperus Will.
or 2587

2589  Vaccinium globulare Rydls.
bulbs 1 ft high - under P. ponderosa and P. Jeffrey
variety red - near Warm Lake, Valley Co., July 23, 38, alt. 5,000 ft. - July 32, 38.

2590  Potomogeton
sluggish stream at outlet of Warm Lake, 28 miles N.E. Cascade, July 23, 38, alt. 5,000 ft.

2591  Colchicites erysperus Will.
petals white to pink - side C. hatch red, inner yellow
variety area under P. ponderosa, near Warm Lake, or 2590 - July 23, 38.

2592  Bromus marginatus Nees
stem one or two, panicle nodding, under aspen near Cascade, Valley Co., July 24, 38, alt. 5,000 ft.

1593  Bromus panthorba californica Bolam
stems several, - panicle branches often somewhat reflexed. or 2592
2594  
Eriogonum berlandieri Nutt.  
*subsp. arcuatiflorum* (Nutt) Stohr  
Base slender, fr. white, open hillsides  
near Cascade Valley Co., Idaho. July 24, '38  
alt. 5,000 ft.

2595  
Arabidopsis globosa  
under aspen - as 2594

2596  
Eriogonum niveum Doug.  
fls. white, stems numerous, dry slope 15 mi  
south of Huntington, Malheur Co., Oregon.  
July 24, '38 - alt. 2,500 ft.

2597  
Arctostaphylos mudaemin Dray  
shrub 6-12" high, bark reddish, near Anthony  
baker, Blue Nts., Baker Co., Oregon July 30  
alt. 7,000 ft.

2598  
Ceanothus velutinus Dray.  
shrub 2-4 ft high - as 2597

2599  
Arabidopsis Hooker. var. retrophora  
Dry slope, pods strictly reflexed - as 2597

2600  
Berberis repens Kurz.

Forest floor, vermic blue - as 2597

2601  
Eriogonum umbellatum (Nutt.) Babb.  
var. occidentalis (Rchb.) Babb  
fls. red & white, berry shrub, - as 2597

2602  
Pyracantha peta Smith  
fls. greenish yellow - as 2597

2603  
Brousson  
Dry bank - as 2597
2604 Vaccinium scoparium Lindl.

2605 Arnica mollis Hook.

2606 Allium vallicum Walt.

2607 Castilleja minuta Doug.

2608 Ephedra canadensis L., var. catharpica Hook.

2609 Castilleja curvisepala Greene

2610 Castilleja curvisepala Greene

2611 Lupinus buchrei Walt.

2612 Phlomis emarginata (Sau.) Don.

2614 Valeriana stenophylla Bentham

2615 Pedicularis alterniflora Britt.

July 31 - as 2609
2616  Habenaria dilatata (pursh.) Hook.
Fls. white, wet marsh near Anthony Lake,
Baker Co., Oreg., July 31, '38 - alt. 7,000 ft.
Blue vrs.

2617  Solanum incana (Cuv.) Sm.
Fls. white - as 2616

2618  Solidago elissa Greene
Stems several, rim of peak near Anthony
Lake, Blue vrs., July 31, '38 - alt 8,000 ft.
Baker Co., Oreg.

2619  Claytonia megaphyza (Gray) Pursh
dry soil in crevices & granites vredens.
as 2618

2620  Hieracium gracile Hook.
 quarly dry slope - as 2618

2621  Veronica cinerea Gray
quarly dry slope, as 2618

2622  Penstemon fruticosus (Pursh) Greene
Fls. blue, base woody, dry slope - as 2618

2623  Veronica Minimus impexus Greene
Fls. yellow, red spotted, dry rocks crevices.
as 2618

2624  Henchera ovatifolia Nutt.
Fls. white, stems numerous, as 2618
2625  Sarracenia frondescenti  H. var. autumnatum  (Weigl) Piper
Dry on granite rocks, Sunlight Peak near
Anthony Pass, Blue Mts., Baker Co., July 71
alt. 8,000 ft.

2626  Sphagnum multiceps  Howell ?
Dry or moist granitic soil, as 2625

2627  Eriogonum ovalifolium  Nutt. var. nivea  Jones
matted at Top of Peak, 8,500 ft., Jun 22, 2625-

2628  Pedicularis
Forest floor at 8,000 ft., as 2625-

2629  Phyllocladus?  Carex montana  (Rang.) Com.
Sub-shrubby, matted, fls. white, a 2625-

2630  Arabinia
Dry woods, alt 7,500 ft., as 2625-

2631  Arenaria capillaris  Pursh
In white, near luzuloides, as 2625-

2632  Arabinia Holboellii  Hornem. var. retrofracta  (Schl.) Rydb.
Shade of woods - silvery spreading to somewhat
pandulose, as 2625 - alt. 8,000 ft. -

2633  Arabinia rydbellii
among granite rocks, as 2625 - alt. 8,000 ft.

2634  Rhododendron allatum  Hook.
Shrub 2 - 4 ft. high, growing from crevices
of rocks, fls. white, gamopetalous,
as 2625
2636  *Silene oregana* Wats.,
for white, petals laciniate, stems one to few.  
*Sunlight Peak*, near Anthony Salee, Rose Mts.,  
Baker co., Ore., July 3, '37 - alt. 8,000 ft.

2636  *Claytonia parviflora* Moq.  
like privet, node excrescences not sear.  
as 2635  

2637  *Euphrasia monticola* Rydb.  
like blue, stems somewhat decumbent, as 2635  

2638  *Enriogonum latifolium* Wats.  
for white, stems several, 2-4 ft. high.  
*near* 2638  

2639  *Primula emarginata* (Dougl.) Walp.  
*Berries red, shrubs 4-10 ft. high.  
as 2638  

2640  *Phyllocladus apricus* (Sw.) Don.  
for red to privet, Chinook Pass near east  
entrance to Rainier nat. park, Yakima co., Aug. 2, '39  
alt. 5,200 ft.  

2641  *Kotlera pacifica* (Pursh) Kitze.  
grassy slope - as 2640  

2642  *Salix occidentalis* (Wats.) Rovere  
slender 3-6 ft. high - gentle hillside  
as 2640
2643  *Sakifraga marshallii* Greene
fl. white - as 2640

2644  *Arniea × betonicafolia* Greene
Stems numerous, stoloniferous - as 2640

2645  *Dreisia?*  *Coralophiza mertensiana* Bong. - dt. wed.
Rich woods near Constance Creek, Olympic
Mts. Jefferson C. Washington - alt. 3,000 ft. -
Aug. 4, 1938

2646  *Cinnarea borealis* L.
var. *longiflora* Torr.
Shaded woods - as 2645.

2647  *Erigerson simplex* Greene
Rock cliff - Lake Constance, Mt. Olympic
Mts. - south slope of Mt. Constance - Jefferson

2648  *Phegoptera diffusa* Britt.
*Phite* longiflora subsp.
Flowers white to pink - rocky cliffs near
Lake Constance - other data as 2647.

2649  *Phacelia magellanica* (Burm.) Mill.
*Ph. augustinifolia* Brand.
Flowers white - dry rock slope - as 2648.

2650  *Vaccinium membranaceum* Douglas
Shrub 6 in. to 1½ ft. high - berries blue -
as 2648 - in some open coniferous forest.

2651  *Silene donaxii* Hook.
Flowers white to pink - stems several - as 2648.

2652  *Arabia drummondii*
Liligenous erect - stems one to few - rocky slope - as 2648
2653  
_Captis Elmera ranunculoides_ (Water) Rydb.

2654  
_Amica betonica-globosa_ Greene
Stems one or few - other data as 2653

2655  
_Lilium columbianum_ Hamn.
Flowers usually three, nodding - moist slope - as 2653

2656  
_Rhododendron albiflorum_ Hook.
Flowers white - 3 to 5 ft. high - as 2653.

2657  
_Castilleja linifolia_ Bentham
Stems several - cauleine leaves divided at apex - as 2653

2658  
_Sedum multilobum_ Hook
Among rocks - near Constance Creek, south of Constance Mts., alt. 4,500 ft. - Olympic Mts. - Jefferson Co., Wash. - Aug. 4, 1938
Deaneas grayish - dipped in boiling water

2659  
_Spiraea hendersonia_ (Carley) Piper
Base woody - flowers white - crevices of rock - as 2658

2660  
_Eriophyllum lanatum_ (Puls) Felt
Dry slope - stems numerous - as 2658.

2661  
_Campanula piperi_ Howell
Flowers blue - rock crevices - as 2658
2662 *Penstemon serrulatus* Menge

2663 *Claytonia arnifolia* Boug.
  rock crevices - as 2662.

2664 *Penstemon nemorosus* (Bough.) Trautw.
  flowers reddish purple - stems single - among rather dense undergrowth - as 2662.

2665 ferns
  crevices of rocks - as 2662

2666 *Kotatia chinophila umbellata* (Webb) Benth.
  *Vulpia missurica* (Pursh.) Blake

2667 *Arctostaphylos tomentosa* (Pursh) Wind.
  shrub 1 - 4 ft. high - leaves reddish - dry slope - as 2666

2668 *Arctostaphylos*? *Galearia chalizeum* Pursh.
  low shrub 6" - 1 ft. high - forest floor - as 2666

2669 *Vaccinium parvifolium* Dum.
  shrub 2 - 4 ft. high - bark gray, berries red - dry slopes of the forest floor - as 2666.
2670  Conopholisae Stachys ciliata Dough.
F Express. at the southwest corner of 7th and 8th, 4 miles north of Ashvalley. River, Olympic
2671  Range. Aug. 7th, Jefferson. alt. 6,000 ft.
Conopholis calycosa Brieck.

mint stream bank — as 2670

2672  Veratrum viride Ltt.
Fles. greenish — as 2670 — moist slope

2673  Aconitum
Fles. deep blue, moist slope... as 2670

2674  Castilleja miniata Dough.
mint slope — as 2670

2675  Pentanema Tolmiei Hook.
Fles. purple with a reddish tinge, stem numerous,
dry slope — as 2670

2676  Aster paniculatus Robinson
Stein numerous, dry slope — as 2670

2677  Eupatorium licirifolium (Howell) Robinson
Dry slope — stem several, fls. pink, as 2670

2678  Castilleja oreopola Greene
Stein several to numerous, fls. pink, — as 2670

2679  Artemisia ludoviciana Nutt.
Stein numerous, fls. white, moist meadow

2680  Spiraea densiflora Nutt.
Fles. pink, about 2-4 ft. near stein, as 2670
1681  Epilobium laturnum Pursh
Fls. white; moist stream bank, south slope of
Cannon's Pass; 4 mi. north of Cowichan River,
Olympic Mountains, Aug. 5, alt. 6,000 ft.
Campanula Scelerii Hook.

dry hillside — fle pale blue — as 1681

1683  Vaccinium membranaceum Douglas
Shrub 1-3 ft. high; bennis banks, open slopes— as 1681

1684  Agoseris gracilens (Gray) Kuntze
Dry slope — as 1681

1685  Hieracium albiflorum Hook
Dry slope — as 1681

1686  Mimulus guttatus D.C.
Steams on & few; moist stream bank — as 1681

2087  Monstrea haynicipis .

1688  Salix bebbiana Barrett var. Thompsoni Bell
Tree 10-15 ft. high; bark grey; cat-rose brown
for forest, near Shawnigan Lake, Vancouver Is.,
B.C., Canada, Aug. 7, 1938

2089  Berberis nervosa Pursh
Bennis blue.

2090  Grapholium microcephalum Nutt.
Dryland Highway — 10 miles north Victoria
as 2685
2691  Anacalia aggregata Steyermark
Stems numerous - 1-2 ft. high, dry ground near
the Strait of Juan de Fuca, near Victoria,
Vancouver Is., B.C., Canada, Aug. 7, '38

2692  Symphyotrichum novi-belgii (L.) R. -
Hillside near top of Blue Mt., Dean Park
Recreational area, Clallam Co., Wash., Aug. 9, '38 - at
6,000 ft.

2693  Galaxias occidentalis Bremse
Dry bank, Blue Mt. - at 5,500 ft. - as 2692

2694  Euphorbia hirsutissima Richmb.
Fles. pink, stems numerous, dry hillside on
Boyd-shield Ridge, headwaters of North River, Clallam
Co., Wash., Aug. 9, '38 - at 5,000 ft.

2695  Luzina hypoleuca Benthi.
comp.
Rocks eremites - as 2694

2696  Douglasia lanigata Gray
con. ciliata Contave
Fles. x pink & red, rocks eremites - as 2694

2697  Phlox diffusa Benthi. subsp. longistilis Whitt
Fles. blueish-white - rocks eremites - as 2694

2698  Ranunculus subordinatusii Schlecht.
Recent snowbank on moist ground - as 2694

2699  Thalassia glauca A. Weber
var. lemuinii Payson
Dry grassy slope, stems several
as 2694
2700  Dactylagia Tolmiei T. & R.

moist rock surfaces near melting snow,
Bogachiel Ridge, headwaters of the Huo River,
Clallam Co., Wash., Olympic Mts., Aug. 9, 1858
alt. 5,000 ft.

2701  Penstemon Mengei Hook.

rock crevices, fls. carmine - as 2700

2702  Salvia angustata var. flava

very slope, as 2700

2703  Polygona Newbii Small

fls. green, stems numerous, as 2700

2704  Hedycaryum occidentale Greene

rocky cliff, fls. carmine, stems numerous,
as 2700

2705  Cardy spectabilis Dewey

moist soil near melting snow, as 2700

2706  Gentianas calypso Childs

stems numerous, grassy slope - as 2700

2707  Erythronium montanum Wats.

fls. white, near melting snow, as 2700

2708  Castilleja parviflora Bang.

(C. olympica Jans.)?

fls. purple, any grassy slope, as 2700

2709  Monotropa hypopitys L.

raspberry

several stems from a single cluster, fls. of hemlock
forest, Soladuct River - 4 miles east Soladuct,
Clallam Co., Wash., alt. 3,000 ft., Aug. 9.
Washington

2710 Vaccinium membranaceum Sowl.
Shrub 3-5 ft. high, bark greyish, fruit black and compressed, berries glaucous. - forest floor near Deer Lake, 4 miles south east of Salome Hot Springs, Clallam Co., Wn. Olympic Nts., Aug. 9, '38 - alt. 3,500 ft.

2711 Vaccinium ovalifolium Sm.
Shrub. 3-6 ft. high, bark reddish, berries blue from a bluish, ellipsoid, - forest floor and along streams, near Deer Lake etc. as 2710

2712 Acer circinatum Pursh
Hemlock forest floor, tree 15-30 ft. high, near Soleduck Hot Springs, 4 1/2 miles southwest of Port Angeles, Olympic Nts., Clallam Co., Wn., Aug. 10, '38 - alt. 1750 ft.

2713 Sandanum callicarpa Greene
Berries red, shrub about 10 ft. high - open park near Soleduck River 10 miles east of Soleduck Hot Springs, Olympic Nts., Clallam Co., Wn., Aug. 11, '38 - alt. 3,500 ft.

2714 Vaccinium parvifolium Sm.
Shrub 3-6 ft. high, bark grey, berries red, near Soleduck River, forest floor 3-5 mi. east of Soleduck Hot Springs, alt. 25,000 ft. - other data as 2713
2715  Sedum oreganum Nutt.
    known reddish, rock crevices of sea cliff.
    Lincoln Co., Oregon, Aug. 13, '38

2716  Bellis perennis L.  comp.
    rayo white - as 2715

2717  meminum?
    mint
    fles purple, as 2715

2718  Sambucus glabra Nutt.
    std - 10-15 ft. high, besides Ave - 10 mi. so.
    of Ashland, Josephine Co., Oregon, Siskiyou Mts.

2719  Prunus emarginata (Pang.) Walp.
    shrub or small tree, 10-15 ft. high, fruits red, as 2718.

2720  Eriogonum medium Dough.
    dull yellow, stems several, near Klamath River, 3 mi. so. Humboldt, Siskiyou Co.,

2721  Eremoncarpus retiglum Benthi.
    Roadside - as 2720

2722  Aristotaploca ptilia Greene
    shrub 5-10 ft. high, rock reddish, under p.
    coniferous. 3 miles south of Weed, Siskiyou Co., Calif.
    Aug. 14, '38 - alt. 3,000 ft.

2723  Eriogonum medium Dough.
    red white, as 2722
2724 *Arctagnum Menziesii* Gray
PODS REFLECTED
STEMS NUMEROUS FROM A WOODY CRUISING BASED PORTION
SANDY SLOPE, AT POINT POGO, MONTEREY PENINSULA,
MONTEREY CO., CALIF., AUG. 20, 1938.

2725 *Cupressus macrocarpa* Hartw.
Tree 20-40 ft. high, Point Lobos, Monterey Co., Calif., Aug. 20, 1938.

2726 WILLOW
Rust colored on buds of *Cupressus macrocarpa*.

2727 *Lotus scoparius* (Nutt.) Otthay
Sandy soil on steep slopes near ocean,
5 miles south of Big Sur, Monterey Co.,
Aug. 21, 1938.

2728 *Baccharis pilularis* DC.
Shrub 3-5 ft. high, bark gray — as 2727

2729 *Eriogonum parvifolium* Smith
Shrubby, pl. white to deep pink, as 2727

2730 *Eriogonum confertiflorum* (DC.) Gray
Bose woody — as 2727

2731 *Crotalaria 2.* *Phorbinia multiflora* (Alt.) Bird.
Small tree 10-15 ft. high — steep slope,
in the Santa Barbara nite, Coast Highway —
King City, 10 miles west of coast. — at 2,500 ft. —
Aug. 21, 1938.
2732  
**Convolvulus auricula chrysanthus** (H. & A.) Walp.  
Stems numerous, glaucous, 2-5 ft. high, dry slope, 3 mi. east of Cumbre peak, 12 mi. no. Santa Barbara, Santa Ynez Rte., Santa Barbara Co., Calif. - Aug. 22, '38 - Alt. 3,500 ft.

2733  
**Nicotiana glauca** Aitken  
Non-woody tree 10-15 ft. high, flo yellowish, stem apparently hollow & barbed?  
Dry canyon near La Jolla, San Diego, S. Diego Co., Calif. - Sept. 1, 1938 -- nearly sea-level.

2734  
**Eriogonum fasciculatum** Bentl. sp. agrophythiside (hedg.)  

2735  
**Alysum petiolatum** (H.B.K) Blake, var. vernonioides (Mutt) Mung.  
comp. - shrub 1-3 ft. - woody base - 2734

2736  
**Adenotheca sanguiflum** Torr.  
Shrub or small tree - 3 to 10 ft. High, bark reddish - 10 mi. west of Alpine, San Diego - El Centro, alt. 3500 ft. - San Diego Co., Cal. - Sept. 2, 1938, dry slope.

2737  
**Eriogonum fasciculatum** Bentl. sp. foliolosum (Nutt.) Stokes  
Shrub, 1-3 ft. High, flores white, as 2736 dry slope.
DC. (Bethl.) pubd.

2739.  *Cuphea xanthophylla* (Pusch) Britt. & Rusby
Stems numerous, grayish, as 2738.

2740.  *Cletochilus lasioglossa* Nutt.
Fw. yellow.
Arrived - dry ground, under the earth. 10
miles southeast of Tucson, Pima Co., Ariz.
alt. 2,500 ft. - Sept. 3, 1938.

2741.  *Aster ?* Acacia congesta Bethl.
Eh. 2 - 4 ft. high, maroon of a dry arroyo, 20
miles east of Tucson, Pima Co., Arizona.
Sept. 3, 1938 - alt. 2,500 ft.

2742.  *Pycnacis kelloggii* (Sarg.) Woot. & Standl.
Leguminosae
Small tree 10 - 20 ft. high - as 2741

2743.  *Narcissus tridentata* (DC) Cov.
Slum 3 - 5 ft. high, - as 2741

Fw. lemon yellow, stems few, - open
sandy plain near Wilcox, Cochise Co., Ariz.
alt. 8,000 ft. - Sept. 3, 1938

Fw. orange to reddish, stems few - as 2744
2146 \textit{Eriogonum Abertianum} Torr.

2747 \textit{Lepidium Thumberi} Wooton
Stems several, perennial, sandy soil near an arroyo, 2 miles west of Bowie, Cochise Co., Ariz. - Sept. 4, 1932 - alt. 3,700 ft.

2748 \textit{Eriogonum isthmophyllum} Beattie
Annual; stems numerous, flesh white, sandy soil - as 2747.

2749 \textit{Phacelia Solanum} elenagnifolium Cav.
Flower purple, foliage white, stems few, fine granitic soil on open plain, 15 miles west of 
Brookings, Grant Co., N. Mex. - Sept. 11, 1938 - alt. 4,100 ft.

2750 \textit{Eriogonum pedicellatum} Beattie
Single, stolons annual - as 2749.

2751 \textit{Almamothrid Wildigeni} Bray
Comp. stem single or several from base - as 2749.

2752 \textit{Lepidium montanum} Nutt. var. angustiphilum C. H. Hitch.
Any granitic soil near Las Cruces, Doña Ana Co., N. Mex. - Sept. 11, 1938 - alt. 4,000 ft.

2753 \textit{Lepidium Wildigenii} Englem.
Fruitig abundant after a rainy spell, may be seen thrice or as 2752.
2754  Sida longiflora (Torr.) B. & P.
     Plant purple, stems few to several, gramineous, and in bearsaw sand formation. 6 miles west of
     Sierra Blanca, Hudspeth Co., Texas, Sept. 5, 1938 - alt. 4,500 ft.

2755  Eriogonum Albertoorum Torr.

2756  Pergland halophila Gray
     Stems few, ligulate purple - as 2754

2757  * Psilocybe grapholodes DC.
     Base woody, stems few to several, slim
     hillside, 1/2 north edge of Davis Mts., 5 mi.
     east of Kent, Jeff Davis Co., Texas, alt.
     4,500 ft., Sept. 5, 1938.

2758  Vigna variegata Blake Comp.
     Flowers: orange, shrub, 2-3 ft. high, as 2757.

2759  * Helianthus aurora Gray
     Stems few, ascending, flowers white, as
     2757.

2760  Dipsacus pentochaeta (DC) Robinson Comp.
     Flowers: yellow, perennial, herbaceous, rocky
     knolls, as 2757.

2761  Euphorbia serrata Engelm.
     Stems prostrate, gravelly soil, as 2752

2761a  (mixed collection)

2761a  Euphorbia stricta Engelm.
2762  *Eriogonum* *wrightii* Tom.
Stems numerous, flowers white, granitic soil among brush, 3 mi. S. of *Papay* Toyahvale, Reeves Co., Tex., alt. 4,500 ft., Sept. 5, '38.

2763  *Euphorbia* *Fendleri* 7.49. var. *typica*
Stems numerous, ascending, among rocks, as 2762.

Stems numerous, decumbent, granitic soil, 8 mi. east of Alpine, Brewster Co., Tex., alt. 4,500 ft., Sept. 5, '38.

2765  *Euphorbia* multiradiata *Gray*.
Plants 1-2 ft. high, roadside in granitic soil, 6 miles west of Sierra Blanca, Hudspeth Co., Texas, Sept. 5, '38 - alt. 4,500 ft.

2766  *Cenotheca* *tuberculata* *Gray*.
Perennial, slightly woody, open plain in granitic soil, 6 miles south of Marathon, Brewster Co., Texas, Sept. 6, '38 - alt. 4,500 ft.

2767  *Euphlyctides*?  *Neriakasia campyrum* (Gray) Brame
Fls. white to purple, stems several, intricately branched, dry granitic soil, 6 miles N. of Rio Grande River, Big Bend State Park, Brewster Co., Texas, Sept. 6, '38 - alt. 3,000 ft.

2768  *Kallstroemia* *grandiflora* Tom.
Dry walla of a c. en arroyo, fls. orange, stem numerous, plants 2-3 ft. high - as 2767
2769  Mentzelia
by rocky hillside, near Rio Grande River at mouth of Santa Helina Canyon, Brewster Co., Texas
Sept. 6, 1938 - alt. 2,100 ft.

2770  Euphorbia simulans Wheeler sp. nov. niss.
as 2769

2771  Mentzelia Bodenavia gracillima Hearnd.
subsp. decalvata Hearnd.
F10. purple, stems several, as 2769

2772  Mentzelia? Bodenavia intermedius Jones
F10. pinkish to white, as 2769

2773  Arctotis? Bodenavia ternifolia (Cav.) Schidl.
F10. scarlet, among oak brush 7 in. open,
Chisos Mts., Big Bend State Park, Brewster Co., Texas
Sept. 6, 1938 - alt. 5,000 ft.

2774  Pelot novae Natt.
subsp. ternifolia Broom
F10. purple, pauciflora, stems few, - as 2723

2775  Salvia regala Cav.
Shrub, 3-5 ft. high, bark gray, leaves numerous.
F10. scarlet, - as 2773

2776  Silene Silene latifolia Cav.
var. frugii Watson
stems few, F10. scarlet, among brush
as 2773

2777  Encymbium linearifolium (May) Payson
F10. purple, - as 2773
2778  penstemon cataractae (Cas.) Roth
    var. Tornagei Hay
Stems single or few, fle red to scarlet, Claron
mita, Big Bend State Park, Brewster Co., Texas,
col. 5,000 ft. - Sept. 6, 1938

2779  Pectis papposa Hens. & May
      comp.
Sandy soil, fle yellow, 6 miles wo. Rio Grande
River, Big Bend State Park, Brewster Co.,
Texas, col. 3,000 ft. - Sept. 6 38

2780  Astragalus Nyctaginaceae a. nls.
Fls. scarlet, stems numerous, decumbent,
1-3 ft. long, granitic soil, open prairie,
25 miles west of Sanderson, Brewster Co.,
Texas, col. 7, 38 - alt. 3,000 ft.

2781  Brippia ligustriina (key) Brit
Shrub 2-4 ft. high, bark grey, fls. white.
 being blown, 15 miles west of humanities,
val Verde Co., Texas, col. 7, 38 - alt. 2, 000 ft.

2782  Heterotropia emeraldifolia Tor.
Perennial, fls. white, stems numerous.
as 2781

2783  Desmodium
Small tree, 10-15 ft. high, bark brownish,
burnt, 4 mi. west of Brackettville,
Kinney Co., Texas, col. 20 150+ ft., open plain.
Sept. 7, 1938.
2784  Carica aspera Müll.  
  var. motiana Collard  
  Shrub 1-3 ft. high,  
  fls. yellow  
  - bottoms lands  
  near Saline River,  
  20 miles west of  
  Charles,  
  Calcasieu Co.,  
  Louisiana,  
  Sept. 8,  
  1938

2785  Ilex glabra (L.) Gray  
  Shrub 3-4 ft. high,  
  bark grey,  
  under the pines  
  10 miles south of  
  Wiggins,  
  Miss.,  
  Sept. 9, 1938  

2786  Heraclea intermedia (Watt.) Bitt.  
  Perennial,  
  fls. purple,  
  stems single,  
  open pine woods,  
  10 mi. east of  
  Tuscaloosa,  
  Tuscaloosa Co.,  
  Alabama,  
  Sept. 10, 1938

2787  Synophyta umbellata (Müll.) Bitt.  
  Vine,  
  stems decumbent,  
  fls. purple,  
  as 2786  

2788  Carica nitidua b.  
  Fls. yellow,  
  stems one to four,  
  as 2786.

2789  Desmodium brennii var.  
  Nezum  
  10 miles southwest of  
  Chattanooga,  
  Tenn.,  
  Dade Co.,  
  Tennessee,  
  Sept. 10, 1938.

2790  Euphorbia candiata b.  
  Stems one to many,  
  fls. white,  
  dry rocky  
  talus near  
  Dog River,  
  16 miles east of  
  Cleveland,  
  Polk Co.,  
  Tenn. - Sept. 11, 1938
2791 euphorbia matanassa b.
  stems several & highly branched, decumbent,
  dry roadside near the Ozark River, 18 miles
  E. of Cleveland, Polk Co., Tenn., Sept. 11, 38.

2792 plantago wrightii n. div.
  & white, as 2791

2793 scipion
  as 2791

2794 berardia seminifera vahl.
  seed
  the pink, moist talus — as 2791

2795 rhexia virginica l.
  sample?
  the scarlet, — moist soil in open

2796 impatiens biflora welt.
  the yellow, much branched, stems green &
  semi-waxy 1-3 ft. high, — woody moist bank
  between Topton & Bryan City, Swain Co., North
  Carolina, Sept. 24, 1938

2797 lobelia siphilitica l.
  the purple — stems one a few. — as 2796

see 2283-2292 for numbers 2798-2799

2807

2798

2807 2806: descarnia prinacea
  subsp. helitomina ?
2808  
Castilleja Rova Watson  
Flat Iron Butte, southern Lincoln Co., Wyo.  
June 16, 1938 - alt. 7,600 ft.

2809  
Stanleya viridiflora Nutt.  
Gravelly knoll, 3 miles east River River,  
Sweetwater County, alt. 8,500 ft. June 26, 1938

2810  
Stanleya pinnata  
11 mi. N. Pueblo, Pueblo Co., Colo. May 19, 1938  
Beets for cytological purposes - plants same as from  
near Florence - no plants preserved.

2811  
Arabin  
Dry soil under pines, 6 miles east of Flagstaff,  
Cochise Co., alt. 6,500 ft. July 5, 1938.  
with T.S. Chambers
Insurance - Art.
capital - 75.00

Expenses:

Toronto - wheel straightened + tax includes tax.

Olympia - J. Running Touch
Parte & labor 9.00
Tax 0.04

Pasadena - Body work 63.25
Cambridge - Hub caps 1.50
Total 74.54

Balance 20.46

Becomes RCR: 10.23.
Western Union + Gen. Del.
Lewiston - July 27
Jacona - about Aug.
Fred M. Taylor
Idaho Bldg. 403
The following attest that the facts contained in these measurements are correct.

G. M. Lynch
H. L. Caldwell

Tommy Wilkins
Donald Merritt
Warm Lake - Cascade, Idaho
Idaho 7 P-27 - 1936 Ford pick-up - collision left front of Ford with left side of Pontiac. 30 as owners estimate probable speed of Ford 45 m.p.h.
Speed of Pontiac 25 m.p.h.
Collision on a curve the outer portion of curve on right road conditions were good - native gravel surface - fine gravel.
Farmers Automobile - Inter - Ulrice - Exchange - 649 So. Olive St Los Angeles.
Public liability + property damage.

Distances measured with tape measure.
26 ft. from pt. 7 collision to pt. where Ford's left front wheel stopped.
7 ft. from pt. 7 collision to pt. where left rear wheel of Pontiac stopped.
Shell ditch 5" deep.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Charge</th>
</tr>
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<tbody>
<tr>
<td>31838</td>
<td>Labor - repair transmission clutch</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>Oil</td>
<td>.05</td>
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<tr>
<td></td>
<td>Labor &amp; parts on transmission clutch</td>
<td>3.65</td>
</tr>
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<td></td>
<td>Jan 04</td>
<td></td>
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<tr>
<td>32978</td>
<td>Battery</td>
<td>6.50</td>
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<tr>
<td>33475</td>
<td>Cable</td>
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<tr>
<td>35667</td>
<td>Front fork, propeller, shaft housing, latching</td>
<td>2.50</td>
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<td></td>
<td>+ oil seals</td>
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<tr>
<td>39320</td>
<td>Oakland - Rep. motor lolita</td>
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<tr>
<td>36142</td>
<td>2 bulbs</td>
<td>.14</td>
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<tr>
<td></td>
<td>Muffler</td>
<td>6.00</td>
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<tr>
<td></td>
<td>Jan</td>
<td>.14</td>
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<tr>
<td>24474</td>
<td>Front wheel bearings, front disc</td>
<td></td>
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<tr>
<td></td>
<td>+ shaft</td>
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<tr>
<td></td>
<td>= gear, general tightening</td>
<td>24.00</td>
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<tr>
<td>29808</td>
<td>Pantani pid; 3 holes</td>
<td>42.50</td>
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<tr>
<td>22524</td>
<td>Santa Fe - align front wheels</td>
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<tr>
<td>29500</td>
<td>Labor &amp; parts on front wheel</td>
<td>4.00</td>
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</tbody>
</table>
Gaz. 7.9 @ 17 = 1.34 \text{ Full}

Gaz. 2 @ 18 = 0.36

[1 gal @ 0.15 for stove]

Gaz. 11 @ 18 = 1.98

11.38.21 = 2.38

3.86

S. Day
3.564

a 92 lb 160 lb 10.2 lb 4.97

3.282

Komen.
11 gal at 27 = $3.24

33.415

Bennett.

1.00

33.506

Milford.

24 @ 24 = 3.36 \text{ Full}

32.697

Oil gal. price 

0.25

33.677

Gas. 14 @ 17 = 3.30 \text{ Full}

33.851

Gas. Temple - 7.05 @ 27 = 2.50 \text{ Full}

34.076

Gas. Chicopee.

10 @ 27 = 2.70 (not full)

[1 gal @ 0.26 for stove = 0.26]

34.264

Elko - 14 gal @ 15 = 3.50 (full)

[1 gal @ 0.26 to stove (15 gal)]

34.412

From 7 @ 21.5 @ 5.25 @ 2 = 1.25

34.779

Rake.

2.75

Tube repair.

5.0

[42.97]
35.636  Tacoma  gas  13\%  21 = 2.67
Trans. grade 3/4 = 0.21
35.667  Olympic  Trans. grade  1/26 = 0.15
35.829  Cam  Port Angeles  1107 1/2 = 2.37
  Cam  PA - VI  + 1.00 = 4.70
35.991  Port Angeles  gas  10\%  21 = 2.29
[  = 3.00  Solubility  No.  1/2  gal = 0.12]
36.213  Astoria  - 16.6  gal  21.5 = 3.57
Ferry
36.319  1 gal  at  Tillamook  91.25
36.588  1/2 gal  gas  put  in  from  tank  3.45
  CO2  1/2  gal  .94
  white  gas  1926
  Aid  change  -  5/12  gal  1.10
36868        Castillo gas, 2 @ 21 =        2.10
37087        Dixon gas 5 @ 15 =        .98
57147        Bridge trip at Vallecito        .80
37147        Gas at Berkeley 14 @ $1.50 =        2.60
37381        Fare all in gas 18.15 @ .19 =        2.95
37529        Gas at Buena Park 4 @ .50 =        1.82
            1Q at oil        1.31
37666        Gas to San L.O. 100 @ $1 =        2.00
37892        Gas at San Fernando 5 @ 18 =        .90
37932        Gas at Pasadena 12 @ 18 =        2.16
37925        Tire repair - Pasadena        .50
38102        10 gal. @ 18 (Long Beach)        1.80
            tire repair        .20
38142        Pasadena - Lubric        1.15
            - Pack front wheels        1.35
38303        Pasadena = 13.6 @ 18 =        2.43
            valve for tire        .05
            check gum at Tiguanol        .10
38526        San Diego gas 12 @ 19 =        2.28
            Tune repair        .50
            [Gas for stove 1 gal =        .18]
38709        Yuma 8 1/2 gal @ .62 =        1.61
38905        Tuscon 14 1/2 gal @ .23 =        3.28

31.57
<table>
<thead>
<tr>
<th>Entry</th>
<th>Location</th>
<th>Quantity</th>
<th>Price</th>
<th>Cost</th>
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<tr>
<td>3912</td>
<td>oil 5 2/3 @ 30</td>
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<td>tax</td>
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<td>3934</td>
<td>Brodsky, P.M. 75.23</td>
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<td>3955</td>
<td>El Paso 15-5 @ 2 1/2</td>
<td>3.02</td>
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<td>$0.10</td>
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<td>3964</td>
<td>Marathon 6.45 @ 20</td>
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<tr>
<td>3987</td>
<td>qts 10 @ 2 1/2</td>
<td>2.05</td>
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<tr>
<td>4006</td>
<td>Del Rio 10 @ 2 1/2</td>
<td>2.05</td>
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<tr>
<td></td>
<td>oil 1 gal</td>
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<tr>
<td>4022</td>
<td>San Antonio 15.9 @ 19</td>
<td>3.02</td>
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<td>lb. transmission gear</td>
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<td>4043</td>
<td>Houston 12.65 @ 19</td>
<td>2.40</td>
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<td>oil 1 gal</td>
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<td>Orange 7.0 @ 19 1/2</td>
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<td>Ashland, Va. 9 @ 5.25</td>
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Note: The rate is listed as $2.08 per hour for some tasks.
Gas record

362.5 gal., 646.5 mi, 17.84 m.p.h. —
Cheyenne - Pasadena

272.65 gal., 4737 mi, 17.37 m.p.h. —
Pasadena - Cambridge

135.15 gal., 11202 mi, 17.64 m.p.h. —
Cheyenne - Cambridge
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<tr>
<td>Tent at St. Mary</td>
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<tr>
<td>Lunch. 10/30</td>
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<td>Food at Cafe Salmon</td>
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<tr>
<td>Food - Hotel at Boston</td>
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<td>Jan. Fuel.</td>
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<tr>
<td>Santa Fe - Cabin + lunch</td>
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<tr>
<td>- Transportation</td>
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<td>All</td>
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<table>
<thead>
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<tr>
<td>Made in Santa, N. Mex</td>
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<tr>
<td>Processing at Flagstaff</td>
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<td>Washes</td>
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<tr>
<td>Grand Canyon - Free</td>
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<td>Food in Kaibab, etc</td>
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<td>Cabin - Beaver</td>
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<td>Groceries at Beaver</td>
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<td>Paper towel, etc</td>
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<td>Milk and food</td>
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<td>Ice - Groceries, etc</td>
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<td>Landings</td>
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**Total**                                         **38.34**
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<tr>
<td>Lunch - Canola</td>
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<td>Food - &quot;&quot;</td>
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<td>&quot; - &quot;</td>
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<td>&quot; - Sam's</td>
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<td>Eko, Mo.</td>
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<td>Ford - Twin Falls</td>
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<td>Camping - &quot;&quot;</td>
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<td>Swim at &quot;&quot;</td>
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<td>Canopy - &quot;&quot;</td>
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<td>Food - &quot;&quot;</td>
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<tr>
<td>Food - Canoe</td>
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<tr>
<td>Scrub - 1.8 lbs</td>
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<tr>
<td>Food - cascade</td>
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<tr>
<td>&quot;</td>
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<td>Phone call to warn kites</td>
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<tr>
<td>Description</td>
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<td>-------------------------------------</td>
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<tr>
<td>Food at Cascade</td>
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<td>Frat at Vail</td>
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<td>Canoe</td>
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<td>Food</td>
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<td>Utensils &amp; bulbs</td>
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<td>Soledale Hot Springs - fish</td>
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This book is of value to the owner and a reward will be paid if stolen returns it to:

Reed C. Robbins
Bray Herbarium
19 Jordan St.
Cambridge, Mass.