

I hope he will re-pack and send a liberal collection to you so that you may have all available assistance in writing up the Flora of the "High Sierras" from the very nature of the country, but little explored by the scientific observers except the mineral expert.

Your reports - so horrible and flattering to me, will be a constant incentive to diligence. I have also stirred up several botanical friends to assist you by their collections also.

Are the Gramineæ and Comæs so universally distributed, as that new species are never met with now? If not would it be of use to you to have specimens, as full as possible, of all the other these high valleys, and contribute so much to the value of the Cal. Sierras for grazing?

I will remember your requests in regard to collecting, bulbs, seeds, &c and hope you will freely communicate any of your desires. I shall be only too happy & comply as fully as health and means will allow. With due regards and feelings of deepest gratitude, I remain
My dear patron

Truly Yours Al. Penman.

grossly brown in spots or with small white spots, esp. on upper part of stem - 08.88 - 08.88
root system probably deeper than above
& root system is developed in a somewhat poor
soil, form of soil of upper part rather
which consists of loose soil composed of
"dust" mixed with small stones & pebbles.

Sierra Valley, Sierra Co., California,
Feb. 11th, 1873.

Asa Gray,
Cambridge, Mass.

My dear Dr,

Your

note, enclosing more determinations, is read, Thanks.

It gratifies me exceedingly to find that my headlong pursuit of flowers, regardless of cost and inconvenience to myself, may be of a little service to you and others in getting a knowledge of the natural productions of this grand Museum of Nature.

But I had no conception of the value of plants collected at the

time, so, except, in rare cases, did not get enough specimens to determine every point with certainty,

Then my way of spending the entire season in collecting, not stopping to study them - much less taking time to send away, - and leaving all the latter especially business until the leisure, snow-bound days of winter, had the effect to destroy or lose a great majority of my treasures; Had I forwarded as collected either to Dr. Bolander or yourself, you would ere this, have had bales of plants well-filling one of your (small) rooms.

I mean to reform my practice in accordance with the above scheme, the coming season. Also I will keep a memorandum of localities and times - not trusting altogether to memory as heretofore. By these means I hope to be of service on

the second edition of "Flora Cal."

I had no thought but that every plant large enough to be seen from a horse, had been reported to you - especially, the ferns. They are so beautiful always, and keep their color so well even with careless keeping in a book or old letter, that I thought every species had long since been sent you. So

I am greatly pleased at the prospect that the Cheilanthes sent you proves interesting if not new,

Long ere this I hope you have received a long letter and a package of 234 plants - including, among some of those very common here, those that were interesting or new to you.

My largest, fullest specimens were sent to Bolander during the holidays in sheets as large as Harper's Weekly; nearly all rare, and numbering over 400,

3rd Sheet,

List of Plants sent

Feb. 1874 to Dr. Gray by
J. L. Lemmon Sierra Valley, Cal.

Feb. 5th 1874

First those in my last package
of which you write "more wanted".

- No 139 Sierra val.
" 140 Sprague's Ranch - near Yo-Denite
" 141 Sierra val & Indian
" 142 -- " " "
" 143 -- " " "
" 144 -- " " " & Truckee
" 145 -- " " "
" 146 -- Castle Peak, " & common
" 147 -- Yo-Denite near Bridal veil
" 148 -- " " " Hutchings
" 149 -- " " " "
" 150 -- Paps near Silver Mt.
" 151 -- Sierra val.
" 152 -- near Hope val, very fragrant leaves,
" 153 -- " " & elsewhere,
" 154 -- Sierra val.
" 155 -- "
" 156 -- " common
" 157 -- Lether's Paps bet. Tahoe & Hope val,
" 158 -- Summit of Silver Peak, 11000 ft,
" 159 -- Com. from Leaven to Tahoe,
" 160 -- " " " Yo-Denite
" 161 -- Webber Lake val,
" 162 -- Foothills, near Murphy's
" 163 -- Side of Silver Peak
" 164 -- Sierra val - a great nuisance
" 165 -- " " & Webber
" 166 -- Yo-Denite - under Bridal veil
" 167 -- Crane Flat - near Yo-Den.
" 168 -- Sierra val, & others
" 169 -- " " "
" 170 -- " " "

- No (18) Grows in Sierra valley,
" (32) " " " abundant
" (27) The new Iresia - Location described in letter
" (22) Hesperochiron &c Sierra & Big ^{Meadow} valleys,
" (59) Maguirea Sierra valley, sluggish streams,
" (67) Cheilanthes &c, Near Leaven
" (74) Corydalis, &c, Big Spring, Big Meadows,
New List - commencing with
" 80 Near Tahoe Lake - is it Iresia myosuroides?
" 81 " my home - abundant Sierra val,
" 82. (Omitted)
" 83. (Omitted)
" 84 Sierra & Indian val.
" 85 " " is it Douglasia elegans?
" 86 " " "
" 87 " has curious inverted heads,
" 88 " & other valleys
" 89 Indian val.

- № 90 Sierra val., meadows,
 " 91 " " hills
 " 92 " " "
 " 93 " & Long val.
 " 94 " val. abundant, pastures
 " 95 near Yo-Denite
 " 96 Indian val. Is it Marah?
 " 97 " " & Sierra
 " 98 " " "
 " 99 " " "
 " 100 Abundant near my home Sierra val
 " 101 Sierra val.
 " 102 Sierra val., common,
 " 103 " & others "
 " 104 Toll-road between Lundy & Indian val.,
 " 105 Castle Peak 8000, ft high
 " 106 Near Webber Lake,
 " 107 Sierra val. & others
 " 108 " " " very common,
 " 109 " " " "
 " 110 " " " legs "
 " 111 " " " "
 " 112 Toll-road between Lundy & Indian val.
 " 113 " (Is this identical with No 40 of pt Packard?)
 № 114 Sierra valley, among cliffs.
 " 115 Near Leaven's Peak,
 " 116 Indian val.
 " 117 " " & Sierra
 " 118 " " " com.,
 " 119 " *Cyclademia* " Puff between Indian val. and Big Meadow
 " 120 Leaven's Peak 10,522 ft Dr. Blander called bolt of these by the same
 " 121 Silver " 11,060 ft (name - *Penstemon stroberryi*)
 " 122 Carson val. Alpine Co. Cal,
 " 123 Crane Flat - near Yo-Denite
 " 124 Near Webber Lake,
 " 125 " Tahoe "
 " 126 Carson val along the R.R.,
 " 127 High Peaks - com.,
 " 128 Sierra valley - rare
 " 129 " " " com.,
 " 130 " " & Yo-Denite
 " 132 " " & near Leaven, very low, pretty
 " 133 " " "
 " 134 Clouds Rest above Yo-Den, 10,500 ft.
 " 135 Yo-Denite near Huntington
 " 136 (Sierra Valley)
 " 137 Near Tahoe
 " 138 Common on high mountains

- No 296 Sierra & Indian vals. com,
 " 297 - near Downieville Butte, Indian & Yo-Dem.
 " 298 Sierra val in my brother's door-yard,
 " 299 Under Natural Limestone Bridges
 " 300 Sierra & Long vals,
 " 301 " " " " & others
 " 302 " North end, Sierra Val & others
 " 303 " South " Sierra Val & others
 " 304 " " " " " " "
 " 305 Sierra val, in large patches, Indian
 " 306 " " in large patches, eaten by
 " 307 " " Dept.
 " 308 " " & Indian
 " 309 " " " "
 " 310 on pine trees, com.
 " 311 " " near Big Trees,
 " 312 " " " " " " " " " "
 " 313 - on forest tree, com.

Many thanks to Mr. Watson for his work on determining. Plain is your Chirography, I fear that I often mistake the names where the root is unfamiliar.

Some of the foregoing are common plants and have often been named for me but the report you give of my other package develops so many errors that I doubt all former determinations, almost.

Your other report came so promptly too that I am induced to go to headquarters again.

Very Respectfully Yours Yrs, J. G. Penniman,

Plants sent to Dr. Asa Gray
 by J. G. Penniman Sierra Val. Cal.
 (2nd Sheet of List.)

- No 171 - Near Leaven & above Bodenite July 22 '73.
 " 172 - Hopkins Creek, " "
 " 173 - Huntington, in " "
 " 174 - My mother's door-yard Sierra valley,
 " 175 - Cloud's Rest, above Yo-Dem, July 22 '73,
 " 176 - Near Webber Lake & Yo-Dem,
 " 177 - Huntington " "
 " 178 - Esterville, Sierra val,
 " 179 - Tahoe Lake July 1st, 1873
 " 180 - Sierra & Lurker val,
 " 181 - Foot hills near Big Trees, fls red
 " 182 - " " " " " " blue,
 " 183 - Carson val, near the City
 " 184 - Summit of Cloud's Rest, 10,500 ft July 22 '73,
 " 185 - Near Tahoe,
 " 186 - Carson val, near city
 " 187 - 188 - Foot hills near Sonora, Tuolumne Co.,
 " 189 - Some as 1873 1873 near Tahoe,
 " 190 - Near Tahoe June 30th 1873,
 " 191 - " Sierra valley,
 " 192 - Carson " "
 " 193 - Wagner's Ranch near Yo-Demite
 " 194 - Hopkins Creek above " "
 " 195 - Sierra & Indian vals, abundant,
 " 196 - " "
 " 197 - Near Downieville Butte & from Leaven to Y. Dem.
 " 198 - Sierra & Indian vals,
 " 199 - " " 6 ft. high often, lvs 15 in;
 " 200 - High peaks, com.
 " 201 - Yo-Demite & elsewhere,
 " 202 - Bear valley, near Calaveras Big Trees,
 " 203 - Fern Cave, behind Nevada Fall Y. Dem.
 " 204 - Sierra val. com.
 " 205 - Mountain Meadow, near Indian val.
 " 206 - Mt. Lolo Monterey - near Castle Peak,
 " 207 - Sierra val. com.

"Leptura Convallarioides" I sent you by Bolander, last season, was "Mimosa trifolia" in Indian val.

- No 208 - Mt. Lola about near Castle Peak,
 " 209 - Sierra val., Com., larger individuals than (291)
 " 210 - " " North end,
 " 211 - " " Com.,
 " 212 - " " more rare
 " 213 - " " to Com.,
 " 214 - " " & elsewhere,
 " 215 - " "
 " 216 - " American in springs & slow streams
 " 217 - " American val., near Drury
 " 218 - Sierra val., called by stockmen "Lobelia" poison.
 " 219 - Sand dunes of Sierra val., north end.
 " 220 - High peaks from Leavenworth to Bo Dern.
 " 221 - Webber's Peak, near Webber Lake,
 " 222 - Side of Leavenworth, July 22, 1872
 " 223 - Sierra, Mohawk, American & Indian vals.
 " 224 - Clinging to the cement towers of Castle Peak,
 " 225 - Sierra val., Com.,
 " 226 - " " very showy, May 20 A.D.P.
 " 227 - " " opens by day.
 " 228 - Mohawk, Indian & Yo. Demite.
 " 229 - Mohawk, Indian & Columbia,
 " 230 - Mat Rose, near Castle Peak
 " 231 - Sierra val., Com.,
 " 232 - Warner val., near Leavenworth Peak,
 " 233 - Sierra " Com., & others
 " 234 - " " Com., & others
 " 235 - " " "
 " 236 - Near Lowerville Butte, Snake Lake & Yo. Dem.
 " 237 - Sierra, Webber, Indian & Big Meadows,
 " 238 - " " Yo. Dem.,
 " 239 - " near Leavenworth,
 " 240 - " " Dr. Webber's winter residence
 " 241 - Near the towers of Castle Peak,
 " 242 - Sierra val., & others
 " 243 - " " "
 " 244 - Summit of Leavenworth July 22' 72
 " 245 - Sierra val., Com.,
 " 246 - " " near home of Dr. Common,
 " 247 - " " near home of Dr. Common,
 " 248 - " " & elsewhere, very com.,
 " 249 - High vals. Com.
 " 250 - Butterfly val., near Drury,

- No 251 - Butterfly val., near Leavenworth,
 " 252 - Sierra, Mohawk, Indian val., & others
 " 253 - " " "
 " 254 - Gold road bet. American & Indian,
 " 255 - Snake Lake, near " "
 " 256 - Sierra val.
 " 257 - White rock val., near Webber Lake
 " 258 - Sierra & the high vals.,
 " 259 - Warner val., near Leavenworth,
 " 260 - Sierra, American & Indian valleys,
 " 261 - " " "
 " 262 - " " "
 " 263 - " " "
 " 264 - " & Long
 " 265 - " "
 " 266 - Summit of Leavenworth, July 22, 1872
 " 267 - Castle Peak, Sept. 7, 1872
 " 268 - Sierra & Indian vals.
 " 269 - " "
 " 270 - Summit of Leavenworth,
 " 271 - Sierra val.,
 " 272 - " " to Yo. Demite
 " 273 - Pala between Sierra & Webber Lake val.
 " 274 - Indian and Sierra vals.,
 " 275 - " High Peaks " to Yo. Dem., Com.
 " 276 - High Peaks " to Yo. Dem.,
 " 277 - " " " left Com.,
 " 278 - " " " "
 " 279 - " valleys, Com.,
 " 280 - Sierra val., Com.,
 " 281 - Cedar trees, Com.,
 " 282 - Sierra and other high vals.,
 " 283 - " Indian & Mohawk " Com.,
 " 284 - " " "
 " 285 - Sierra peaks near Sierra val.,
 " 286 - " " "
 " 287 - " " "
 " 288 - " " "
 " 289 - " " rare,
 " 290 - Near Castle Peak, " " rare,
 " 291 - Indian & other vals.,
 " 292 - Sierra " "
 " 293 - " "
 " 294 - Palao & Slope vals. to Big Trees,
 " 295 - High " "



Lemmon, J. G. 1874. "Lemmon, John G. Feb. 11, 1874." *John Gill Lemmon letters to Asa Gray*

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