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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

mead

IND, INC
234

field book

1 Collections

1977-78

Nos 2118 to 2310

End 1 Nov 78

7 Nov. 1977 to 1 Nov 78



memo

2

If lost . . .

Please return to

Jack Reveal

San Diego Natural History Museum

PO Box 1390

San Diego CA. 92112

272-9105 Area 714

232-3821 " "

2118 *Bromus sterilis*

211A - ^{14 Sep} *Pinus pinaster* - King Cr. R.

2126 - 8 OCT 77. Pac. B. alley - Cass
at Tourquois

Weed w/ fls like *Neotrichum*, fls
w/ scarlet, closed, fruit black
[Recollant]

79 - Bridgeport

78 - Idaho, Mt & Wyo Colo

77 Ut. Colo - Wyo Idaho

77

7 NOV 77 Canyon PR - King Cr.

2121
(a) *Cupressus arizonica stephansoni*
ca. 1.2 km up stream

from Heller Ranch Rd., from an old
pre-conejo burn tree in chaparral
on bench above King Cr. to West
tree very limby, ancient looking,
much dead material in limbs &
trunks. Some snow damage.

Cones fairly abundant on some
limbs. Age ca 90-100 yrs.

♂ cones ^{part} mature, falling. Wobly
Jeppe from this locality, [2 sheets]

(b) ²¹²² from first tree encountered
in King Creek ca 8 km up from
road. In reparium. Scedding
from tree killed in 1950

Cones few. ♂ cones open. ♂ part
mature no mature cones reachable

16 Dec 77
 2123 *Cyperus* sp. *slightly*

Ⓔ From roadkill where King Co.
 crosses the Haller Ranch Road.

1 cone. Co. 25 seedlings
 at Ojai please. 1 cone 3600'
 2 sheets

2124 *Quercus engelmannii* Greene
 from near grassy opening 3700'
 ca .3 km north of King Co. Ranch
 , King Co.

8 Dec 77.

2125 *Cyperus*

at Descanso R.S. ^{gray} glands; smooth bark

2126 *Cyperus* -

at Wildcat Sp. 2 - green w/o glands

2127 *Cyperus*

at Wildcat Sp. bite green

2128 *Cyperus* - gray w/ glands
 at ~~Descanso R.S.~~ ^{at Ojai please} 3 fls.

16 Dec. 77.
at Cameron Station.
cult. trees

#2128 - *Cupressus arizonica*
glabra (Sudw.) Little
planted ca. 1935

2129 - *C. a. glabra*
planted 1954.

♂ cones on each of the
above are green, belly
formed.

(2128 ^{less} ~~more~~ glaucous than
2129.)

2130 - (not used)

10 Dec 78
at Canyon Station
near the

minogino ... - 2131
alt. (sub?) ...
2131 ...

alt. ... - 2131
2131 ...

alt. ... no ...
filled ...

...
...
...

17 Feb 78

inspiration point N
of Julian - plantation
in chaparral w/ CP.

(?)
② 2131 Cupressus ariz.
var glabra (Seeds)
Litt.

specimen w/ ♀ ♂
fls & ~~by~~ mature
ovulate cones. now
flowering.

17 Mar 78

2132 Cercocarpus vincentiflorus
(Seeds Coll.)

alpine - in chaparral
in face place

19 Mar
Oakwood - trees in parking lot
bark smooth, gray. Evergreen.
2133 Lvs rolled backwards.

[2133 ?] *Cupressopsis*
anacardinoides

not used.

"Carrot wood tree" (Tucker)

24 March 78

Mountain Lake, Colo.

River Desert E. of

Lake; Grand Co. Ariz.

Cereus, stipules, Palo Verde

etc.

2133 Grass, annual.

appearance of stolon or
artificial. *Muhlenbergia*

microsperma (DC.) Kunth

2124(A) Annual *Bouteloua*

Bouteloua barbata

Lag. [Six-weeks growth]

Duplicated 2/24 → 2133n

Little seed muchly

back yard next to alley
1867 Law St - D.B.

4 April 1978.

found by David Rawlin
Fumaria officinalis L.

2125(a)

2126 (X)

7248 (47) 117-14
Brachypodium
distachyon (L.) Beauv.
10 April 78 - at Crown
Point, Pacific Beach.
Among rocks imported
along edge of Bay,
extreme NE cor. of Vacation
Village. w/ Bermuda
grass, *Hordeum*.
Sea level - Saltwater

25

May 1958. Collection in
Hawaii.

Kauai, May 28

seed which has 2 seeds
References: rare; opening
in tree + shrub cover.

2131

Kauai
May 28 Waiimea L.O.
3400

seed, shrub cover
2131

seed, shrub cover 2131

3400'

2130^(A) annual, growing
among lava rocks; rare
? Brija minor

2134

2131^(F) Grass w/ rhizomes;
in bunches, culms to 1 m. tall

2131 - Very long stems

3 May 78 Kauai - Russian
fort at Waiimea.

2132^(H)

3 May Opu Lookout point
~~at~~ Puuhinahua L.O.

2133^(H)

3100

5130
moss; subar. and ...
? ...

5131
in bunches, ending to 1 m. tall

5132
... of ...

5133

5134
... of ...

6 May 78
Kauai - 4 May 78
Lihue

2134

2135 - Very long stalks
- spreading everywhere in
waste areas:

11 May 78 - Kahala beach
Oahu.
2136

2139 - common road in
Lihue.

25 parts 4 - iana>
enlid

2135

analogs and prob - 2135
in arid areas - spreading
in arid areas

2136

6 May 78
Oahu - Kahala
aspen.
Woody areas along
walks.

2137

2138 flat stems.

11 May 78 - Kahala beach
Oahu.

2139 - common weed in
lawns.

May 28 - 11:00
Kobara
wooded area along
in low

2137

May 28 - 11:00
2138

May 28 - 11:00
Kobara
wooded area along
in low

May 28 - 11:00
Kobara
wooded area along
in low

2140 weed in lawn

2141

12 May - Kapakaki Stream
Parkland

2141

Wahikoa Park
? Setaeria-like

2142 large bunch grass,
rhizomes, 1+ m. tall.
Panicum

2142 - large, upright
bunch grass. Panicum?

~~2143~~

4415

2115

Ench. ...
... ..

2115

... ..

2115

④ *... ..* - 2115
2151 - *Gastriidium*
ventricosum

San Diego

¹⁵~~18~~ May 78 - San Diego
River - wady area of orn.
plantings in walkways.

2149 - *Schis*

Schismus barbatus (L.)
Thell.

Inyo Co. along 25 May 78
whitney Portal Rd. above
Lone Pine C. G. &

2150 *Stipa speciosa* Trin.
large bunch grass. & Rupr.

^{Hcta}
6 June 78 below Punta Banda Rd.
along a draw by the water channel
5-7 dm tall. ^{annual} Perennial - a few
specimens left - rest are dry:
(w/ ROSE BROOME) 2151

2000

21 May 78 - 2000

Plants - mostly same of same
ground in neighborhood

219 - *Setaria*

(.) *Setaria* parviflora (L.)
Thell.

22 May 78

Plants in same area

220 - *Setaria*

221 - *Stipa*

222 - *Stipa*

23 May 78

Plants in same area

223 - *Stipa*

224 - *Stipa*

24 June 78 - S.D. Co.
across highway from Camp 25
- open - 10' oak woodland

(2151)
2151 - *Bromus* w/ hairy throat. (?)

2152 - ^{*Stipa*}~~*Bromus*~~ w/ auricles
& rhizomes - slender stems,
w/ 2151

25 June
2153 *Stipa*
By L. under - dry under So
of big lake w/ *Poa*, *Agropyron*

2154 *Agropyron*

54 June 78 - 2155
Green Valley
Small trees

③ 2155 - 2155
T15
J. Smith

2155 - 2155
Green Valley
Small trees

2155
2155

2155

2155 - 2155
Green Valley
Small trees

2155

20 June 78 2155

Wir, Howie
~~J. Cass~~ Cypress Cove
SENE Sec 21 T15, R2E.

above Peutz Valley Rd
Ca 24 trees 4" to 8"
at 10" above ground
Est age 35 yrs. Granite
Soil Green Valley Double

2156
(2155 a) 25 June 1978
Recollect P. atropurpurea
by round Rock island.
dry flr culms.

2152 89 June 25

erect, rigid
Cyperus (sp.)

SENE 200 W. 112. 152

0.80 feet stalks

ca 5.5 feet 4-8"

10" or more

top 25 x 40

stems 5-6

2157- 91 June 25 (2152)

Poa nevadensis Vasey
ex Scribn.

13 July 78 Inyo Co. ca 2 mi
S. Benton Sta. 5200 El.

~~2156~~ Spartina Spartina
gracilis Trin.
w/ Elymus, Bromus, Saltgrass.

14 July ⁷⁸ Mono Co.
Lake side, NE of old
Benton, along Hwy 120, w/
Saltgrass; no rhizomes

~~2157~~ Poa. diocivens fls.
uvada
1 mi NE. Montgomery Pass.
under pure pine woodland
w/ Atr. Chr.

2158 - Koeleria nitida Nutt.

2159 ~~stolon?~~
Hordeum jubatum L.

11 July - 10 mi E. Tonopah ¹⁰¹²
on US 6.

Roadside

2160 Sporobolus

47 mi E. Tonopah on US 6 -
at a spring just south of
highway - an old stone bldg
& several cottonwoods.

In wet area by stock
tank:

2161 - *Elymus* w/ *lyngbyi*
E. triticoides Buckley

2162 *Elymus* (same as 2161?)

2163 - *Eragrostis*?

15 July Ff. E. of Ely, Humboldt
NF. Pinyon - Juniper - Sage
grass. Elev. Egan Range.

2163. *Agropyron* ~~of~~ *dasystachyus*
Agropyron dasystachyus
(Hook.) Scribn. ^{var. riparium}

2164. ~~Bromus~~ *Agropyron*
spicatum (Pursh)
Scribn. & Smith.

2165 - ~~fasciata~~ *Elymus* *thorberi*
Poa nevadensis Vasey.

alkali flat E. of Cherry
Creek, W.P. County, Nev
In white alkali

2166. *Elymus triticoides*
Buckley

2167 *Poa*? *kyustis*?
Poa juncifolia
Scribn.

H. jubatus →

2168 - ~~Hordeum~~ *Sitanion*
hystrix var. *californicum*
(J.G. Smith) F. D. Wilson

2169 *Elymus*. (from
fan above alkali)
Agropyron trachycarum
Lum (Link) Malte

16 July 78 Sun.

Idaho, Lincoln Co.

ca 40 mi So. of Craters of
the Moon. on Little Wood
River; 4600'. Basalt.

2170 *Elymus* w/ rhizomes
on dry soil. 25-50 cm tall. Gay.

2171 *Phalaris* w/ rhizomes;
streamside - 1-2 m tall.

2170 *Agropyron smithii* Rydb.

2171 *Phalaris arundinacea*

16 July.

Near crater in basalt
cinders: Thurber
2172 - *Stipa occidentalis*

17 July ca 5800'

17 July Craters of the Moon NP.
End of Rd on trail to Tree Cuts

2173

Dryzopsis bloomeri Boland.
X *Stiperyzopsis bloomeri*
(Boland) B.L. Johnson.

ca 16 mi So. of Arco, Ida.
Butte Co. 5500'. In Sagebrush
on Basalt in depression.

2174 *Agropyron smithii*
spicatum (Pursh) Scribn.
& Smith "merme"

Arco. ca 3 mi E.

2175 *A. spicatum*
w/ bronze cast

2175 *Agropyron cristatum*
(L.) Gaertn.

2176 - *Agropyrum* cf
cristatum (L.) Gaertn.

2176A

Ca 10 mi S. of Dubois
Little Lost River

2176 *Agropyron spicatum*
- a slender-headed
- green-yet strain (?)
about a dozen plants
3-5 dm tall. all
other plants w/ short
heads (+ broader) were
dry; hairy keel on lamina

18 July 78 - (Ash ton etc)

Anderson Place - in the
golf greens & considered
a troublesome weed

2176 *Poa annua*. L.

2179- (*Bromus carinatus*
 Hook. & Arn.)
 | *Bromus marginatus* Nees.

Ca. 3 miles w. of N.F. boundary
 on Chain Lakes Rd. Sage +
 grass + aspen.

Ranunculus
 2177 ~~Ranunculus~~ - wirey; small
 few florets. *californicus*
 Bolander.

2178 *Poa* w/ rhizomes
 — *Poa palustris* L.

— 2179 *Bromus perennans*?
 perennans.

2180 *Pteris* ??
 — *Pteris tridentata*
 DC.

Ed. Rindlisbacher
Rt 2 Roxburg Id 83440

John Martinez
Box 573
Ashton 83420

2184 a. *Carex aquatilis*
Wahlenb.

2183 *Deschampsia cespitosa*
L. Keeney
Carex fostrata
Stokes ex With.

at Anderson place,
bordering aspen, in an
area of ± native grass-
Sage:

2181 *Stipa*, open, long
awns *Stipa comata* Trin.
& Rupr.

2182 *Stipa*, sparse,
short awns. *Stipa columbiana*
nelsoni nelsoni Macoun

19 July 78.

Squirrel Mounds.

2183 *Asperula* ←
2183 A - *Poa patens* L.
2184 *Stipa* *Carex*
pratensis cl

Geyer ex Paterson
2185 - *Melica bulbosa* Coulter

2186 *Festuca californica* Engelm.

2187 *Koeleria cristata*
(L.) Pers. (*K. nitida* Nutt.)

2188

J.G. Smith
2190 *Sitanion hystrix* (Nutt.) Vasey

2191 *Danthonia intermedia*

2192. *Poa scabrella* (Thurber)
Benth. ex Vasey

Loon Lake
ex Purdy Cove

- 2185 - *Melica*.

- 2186 *Festuca*?

2187 - ~~*Koeleria*~~?

2188 - *Poa* v/1893.

20 July 78

Squirrel Mds Area -
Golf-Sage-LP. flats
S. of Loon L. road.

2189 - *Stipa columbiana*
Macoun

90 - *Hordeum*

91 - *Bromus*

92 - *Poa* (dry site)

So. Ek. Boone Cr Jackson
Rd. Dry grassland in D.F.L.D.

2193 - *Poa palustris* L.
pratensis

2194 *Clypeus Agropyron*
laevistachyum (Hook.) Scribn.

Ernest Lake - deep
part of meadow in open
waven.

2195. *Aporosa?*
Spartocloa

Re the Lodgepole

2196 *Theraps?*

Juniperus scopulorum Sarg.

21 July 78. Andersons
Open Area:

2197 - Poa - the "buffalo
grass" *Poa patens* L.
pratensis

2198 - Danthonia
unispicata (in
open)

allis Pasture
2199 - *Poa Agropyrum*
dasystachum (Hook.) Scribn.

2200 *Stipa*

2193 - *Poa patens* L.

2198 *Danthonia unispicata*
(Thurber) Munro ex
Macoun

2200 *Stipa*

21 July 78. Indonesia
Upper level:

5127 - low - the "puffal"
grass " for vegetation

5128 - low - the "puffal"
grass " for vegetation
Museum (paper)

5129 - low - the "puffal"
grass " for vegetation
5200 2/1/78

22 July.

Lava (recent)
ca 10 mi So. Lulu
falls - w/ Atr, Bte.
In rock crevices.

2201 - *Aristida*
purpurea var. *longiseta*
(Steudel) Vasey.

24 July 78

Cambridge, Lulu.
weedy area along town
walks.

2202. *Aegilops*
cylindrica Host

25 July - Warm Lake - E. of
Cascade

2203 *Deschampsia*
elongata (Hook.)
Munro ex Benth.

25-d

26 July to Boise to get
car repaired

27 July 78

Sandwich Basin

Few Hollow area

LP. grass.

2204 *Stipa*

2205 *Festuca* (openings)

2206 *Bromus*

2207 *Stipa*

2204. *Stipa columbiana* Macoun

2205 *Festuca ovina* L.

2206 *Danthoxia intermedia* Vasey

2207 - *Trisetum spicatum* (L.)
K. Richter

2208. *Rachanopsis caespitosa* (L.) Beauv.

2208A *a. diegoensis* Vasey

2208B. *Agrostis scabra* Willd.

2209. *Poa pratensis* L.

palustris L.

2210 *Agropyron trochycaulum*
(var. t.) (Link) Malte

specimens w/ rhizomes.

Sweetgrass

2214. *Danthonia californica*
Roland.

2215 (Thurb.) Munro ex Macoun

~~2217 *Danthonia intermedia*
17A~~

2208 - *Agrostis*

2209 - *Poa*

2210 *Agropy*

2211 *Styela occidentalis* Thurb.

2212 - *Trisetum
spicatum* (f.) K. Ritcher
Meadow at Parkman St.

Hierochloa odorata (L)

2213 *Braea* Beauv.

2214 *Danthonia unispicata* Boland.

2215 *Danthonia unispicata*

2216 *Poa pratensis* L.

2217. *Danthonia intermedia*

~~2217 *Braea* Vasey~~

508 - 8055

509 - 9055

510 - 8155

511 - 1155

512 - 1155

513 - 1155

514 - 1155

515 - 1155

516 - 1155

517 - 1155

518 - 1155

519 - 1155

520 - 1155

521 - 1155

522 - 1155

523 - 1155

2218 *Cynopsid*
Potentilla anserina L.

25 July Rogers - down
the main Salmon

2219 - *Setaria*
(common) *viridis* (L.) Beauv.

29 July 78

2220 - *Sporobolus*
cryptandrus (Torr.) A. Gray.

29 July Windy Saddle
Seven Devils Rd ± 700'
alpine

2221 - *Fescue ovina* L.

2222 *Stipa*

2 *stipa columbiana* Macour

5518 *Compositae*
Foster Hills
moss - *Deschampsia* plus 25
mosses - *Deschampsia* alt

2224A. *Festuca ovina*
var. *nydbergii* St.-Yves

(*Deschampsia*)
5 *sp. (Deschampsia)* St. - Yves

2225 - *Melica spectabilis*

2226 *Triticum spicatum* Scribn.

(L.) K. Richter specimen

very pubescent

1032 *Deschampsia* moss

Deschampsia

5521 - *Festuca ovina*

5522 - *Festuca ovina*

5523 - *Festuca ovina*

7. Devils - Heavens Gate
8600'

2223 - *Poa sandbergii* Vasey

2224 *Poa?* *Poa nervosa*
(Hook.) Vasey.

2225 ~~*Poa*~~ *Melica*

2226 ~~*Triticum*~~ **Sp. 0.**
Triticum

30 July 78.

Ca 10 mi. So. Moscow

- roadside

2227 - *Archeuthium?*

Archeuthium

elatius L.
elatius

- 2228 *A. spicatum* (Pursh)
Scribn. & Smith
- 2229 *Triticum aestivum* L

- 2230 *Muhlenbergia asperifolia* (Nees & Meyen) L. R. Parodi
- 2231 *Calamagrostis rubescens* Buckley
- 2233 *Poa pratensis* L.

2234 *Ceanothus velutinus*
var. *laevigatus* (Hook.) T. & G.

2235 *Larix laricina* (DuRoi) Koch
occidentalis Mill.

Ca 20 mi S. Coeur d'Alene. Idaho

- 2228 - *Axonopus*
2229 - *Boragin*. (4 rows?)

31 July Sandpoint
- in LP-JR-L. woodland -
rice camp.

- 2230 *Axostis*?
2231 ?
2232 *Festuca rubra*
Prunus
2233 *Poa*? *prolapses*
2234 *Ceanothus*

20 mi S. of Bonanza Ferry
~ US 2. Montana Lincoln Co.

- 2235 *Larch*
2236 *WR Cedar*

2237 *Melica spectabilis*
Scribn.

5555
5555

5555

5555

2239

5555

5555

5555

Aug 1 78 - near West glacier

~~2237~~ - *Melica*

web -

2 Aug 78 - Waterton Lakes
Blood ~~water~~ Reserve. Aspen
Spruce-grass. (Alberta Can.)

2238 - *Danthraia*

spicata (L.) Beauv. ex
Rgem. & Schult
x open grassland near
many glaciers, US GNP.

2239 - *Elymus*?? *Asiopyrum*?

Aug 3 - Thru
ca 10 mi so. of Browning

Mont. - on pasture

2240 *Stipa comata* Trin. &
Rupr.

2241 *Antennaria*
frigida Willd.

W

2242 *Panicum gracilis*
(H.B.K.) Lag. ex Steudel
2243 *Bromus commutatus*
Schroder.

2244 - *Elymus ~~triticoides~~*
~~Buckley~~

Aug 78 - In prairie soils
of Choteau, Mont.

2242 - *Panicum*
2243 - *Bromus* (annual?)
Edge of planted area
w/ per. + grasses.

2244 *Elymus* (one found)
w/2243 (also at below)

2245 (drop - some as # 2244)

2246 - w/ 2242 in
prairie soils
Koeleria nitida Nutt.

Choteau - river bench
N. of town - slope W.

2244 - add coll.

2247. *Calamovilfa longifolia*
(Hook.) Scribn.

2248. *Agropyron sibiricum*
(Willd.) Beauv.

2249 *Muhlenbergia cuspidata*
(Torr.) Rydb.

2250
Artemisia frigida Willd.

2251 *Juniperus scopulorum*
Sargent.

2252
Chrysothamnus
nauseosus (Pallas)
Britton in Britton
& Brown.

4 Aug Choteau, Mont.

2247. tall w/ rhiz.

2248. *Agropyron*

2249. ~~poor~~ bundle grass
←

5 Aug -

Reese Cr. near Gardiner
Yellowstone River

2250. *Artemisia*

51 *Juniperus*

2252. *Chrysothamnus*

Mont. ...
5455
5456
5457

2255 *Calamagrostis* cf. *scribneri*
Beal

2256. *Festuca* *idahoensis*
Elmer.

2257. *Agropyron* *trachycaulum*
var *latiglume* (Scribn. &
Smith) A.G. Reelfe

2258. *Bromus* *ciliatus* L

YNP Wyo.
Twin Lakes 6000'
8 Tues 78 Aug

2253. *Poa* *pratensis* L.
2254 - *Poa* *ample* Merr.

Flag Ranch - Teton Basin
Wyo. 8 Aug Wed
Calamagrostis
- 2255 w/ rhizomes.

~~Wyoming Falls Gb. Shoshone NT~~
9 Aug - ~~Wed~~ 78 ca 20 mi
N. Dubois

2256 - fescue
57 - *Cyrop.* Rhiz
- 58 - *Bromus*
drooping

Handwritten scribbles and illegible text at the top of the left page.

2260 *Stipa lettermanii*
Vasey

2261 *Stipa columbiana* Macoun
var. *columbiana*

2262 - *Chrysothamnus nauseosus*
ssp. *gracilens* (Nutt.)

2263 *Hesperoglossum* cf. *arborescens*

South Pass - Sublette
2258 2259 Co Uyo
Nutt.

Artemisia tridentata
subsp. *arbuscula*

13 Aug 78 Wasatch Co Utah
ca 3 mi N. of Pass on 7M
US 40 S. of Heber. Daniels Cr.
Aspen - Sage (DF, ES, WF)

2260 *Stipa* ~~narrow leaf~~

2261 *Stipa* - ~~wide leaf~~

2262 *Chryso.* —

2263 *Chryso.*

2264 *Artemisia cana*?
subsp. *viscidula* (Osterhout)
Beetle.

2265 *Festuca pratensis*
Huds.

2266 *Bromus polyanthus* Scribn.

Aspen / meadow
Summit (Polypole?) 8000'
So. of Heber on US 40,
in Aspen-Sage (Hd of Daniels
Can.)
2265 *Bromus fasciculatus*
← (rare plant)

2266 *Bromus* ♂

2267 ~~*Slym...*~~

X *Agrostoides saundersii*
(Vasey) Bowden

15 Aug 78 Arapaho Basin,
Summit Co. Colo - near
Pouland Pass. 10800'

2268 - *Poa* w/ rhizomes.

2269 - *Poa* w/ rhizomes.

2270 - *Eriogonum* sp.

0008 (? alpine) timber
at 2000 m. near top of
2271 (H. B. K.) - 2272 - 2273 in
Poa alpina L. (H. B. K.)
(timber line) →

2272 *Poa nervosa* (Hook.) Vasey
pratensis L.

2273 - *Poa rupicola* Nash

2275 - *Festuca ovina*
var. *brevirifolia* (R. Br.)
S. Wats.

aripaho basin
16 Aug 78. 11000'

- 2271 - *Poa alpina*?
grass just land above
timber line - alpine

2272 - *Poa* w/ rhiz
from timber above ledge

2273 - *Poa* w/o rhiz.
(same loc.)

~~2274 - *Agrostis*~~
Same
2275 - *Festuca*

alpine forest - 10-15

insect alary
18000 - 18000

16. *Poa interior* Rydb.

2277 *Bromus* [anomalous] *ciliatus* L.
Rupr. ex Fourc.

2278 *Poa nevadensis* Vasey ex Scribn.

2280 *Gutierrezia sarothrae* (Pursh) Britt. & Rusby

2279 *Chrysothamnus*

parryi (Gray) Greene

3

Shus - 17 Aug 78
Hoosier Pass - Park Co.
11540' - ES forest
w/ gum

2276 - *Poa*

2277 *Bromus*

← 2278 *Poa*
2279 - *Chrysothamnus* - var. *serotinus* aduna

2280 *Asplenium* 3 mi so. Fossilburg 1000'

2281 - *Artemisia frigida* Willd.

10 mi E. Gunnison -

2282 - *C. parryi* (Gray) Greene

2283 Quercus

2284 ~~✱~~ *Trisetum spicatum*
(L.) Richt.

2286
Trisetum wolfii Vasey

2287

18 Aug 78

Quincy Colo. along
water way - Aspen, JP
forest w/ grassy openings

2283 *Quercus* -

Red Mt Pass @ 10200

~~ESP~~ E.S. LP forest

grass.

→ 2284 - ~~Pass?~~

→ 2285 *Agrostis scabra*
Willd.

e 11000'

← 2286 ~~Pass~~

2287 *Sporobolus* (large
bunches)

18 Aug 78
Forest of dwarf evergreen
water worn rocks, 96
Dwarf evergreen forest

5583

Red Mt. Pass ca 10500'
E. 2. 19 forest

2289

2290

5584
5587
(reduced)

ca 3mi S. Red Mt Pass
ca 10000'
E. forest - Grass

2288 *Stipa lettermanii*
Vasey

19 Aug 78 Arizona

Sedona Ariz.
Cypresses. Junipers!

2289 young trees under
90 P.P. forest at
ca 5300'

old trees under forest
Canopy: ca 4000'

2291 - Cypresses

~~2290~~ Documentation

2292

Bouteloua curti-
pendula (Michx.) A. Gray

2292 *Gyner-*
bouteloua?

Large bunch grass
- open ~~in~~ oak, - Cypress
woodland 4000'

Sedona - side covey
ca 2 mi N. town

2293

94

95

96

97

98

99

2300

2301 - *Panicum*

2306 *Tridens muticus* (Torr.)
Nash

2307 wdt tail

Lycurus phleoides

2302 - Cypress
2303 - cyp ca 1 mi
above town.
(first cyp) on W

^{Dry Cr.}
on Drcr. ca 5 M E. Seaboard

2304 Cypress

2305
large old growth
trees

Tavapai Co.

Summit above Lugo
7300 ft. ^{2240M} YP forest
2306

2306A Y Pine

~~2307~~ ca 1 M E. NF

Dry YP - grass w/
~~Houlston~~

2307 ~~+2307A.~~

Base of Mt.

2308. *Allegator
juniper*

~~2309~~ Plains. grassland
at E base^W of side

Prescott NF. 5000 ft.

2309 - Grass w/ rhizomes
in dense clay red.

Mtn E. of Prescott
w. grade - large bunch
grass - in chaparral.

2310 *Eragrostis?*

End 1978 trip

2310
2156

164 + 1 165 numbers

2309 *Panicum obtusum* HBK.

2310 *Eragrostis intermedia*
Hutchc.

6 In. x 4 In.
50 Sheets

45-4298

0



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