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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.

Reveal -



collections March 1975

then 26 July 1977

1707 then 2117

+ unnumbered School Coll.

Jack L. Reveal.

Collections -

3 Oct 1977 # 2118

to

19 Aug 1978 # 2310

Nat. History Museum

PO Box 1390

San Diego Ca

92112

Note: Some grasses det. by

A. H. Holmgren

Jan 1980

& M. E. Barkworth.

have been annotated

herein.

30 OCT 77 Pacific B., La Playa
~~2118~~ at Jewell. growing
in a bed of English Ivy
on NE corner.
32° 47' 5" N 117° 14' W

2118 - *Bromus sterilis* L.

[Recol.]
[23 OCT.] Martin's King Cr. R.
in Shurlton Valley, Cuyamaca
Peak. 14 Sept 77.

32° 55' N 116° 37' W

2119 *Pinus pinaster* Ait.

2120 *Urtica* [discard]

8 Oct 77 P. Beach alley -
Lass at Jouerguies: weed
w/ scarlet fls - closed; black
fruit.

[Recollect]

✓ 2121 *Cupressus arizonica*
var. *stephensonii* (Wolf)
Little

32° 55' ^N / 116° 37' ^W

✓ 2122 - C. a. J.

✓ 2123 C. a. J.

7-XI-77 32° 55' N 116° 37'

King Cr. ca 1.2 km upstream from Hollar Ranch Rd at King Cr. R.

2121 *Cuefomaca arizonica stephensonii*
- multite-stemmed, 15 m spread, 5 m high
from an old tree which survived
1950 Conejos fire - believe Wolf
coll. his type specimen here 1938
many long, slender octopus-
leaves; portions of branch &
large leaves dead. Some slight
scoleptid damage ♂ cones
part withered, falling. 4100' -
on bench ca 75 m. west of creek, in
chamise chaparral.

2121A - wood specimen

2122
~~2123~~ - *Cuy. ariz. stephensonii*
in King Creek at 4000' - a young
27 yr. old tree. ♀ cones open.
♂ dried & falling. Tree ca
10 cm in diam & 5 m high; cylindrical
crown.

7 NOV 1977

32° 55' 116° 37'

2123
~~2124~~. *Cuy. ariz. stephensonii*
from King Cr. at Hollar Rd. specimens
from several of the 25 or so
27 yr. old cypresses in a
swamp ca 5 to 10 m. N. of Rd
under Quercus, Coulter pine.
Parent masses: may have been
tree where Wolf collected specimen
in 1938.

2124 Quercus engelmannii
Greene.

from grassy opening ca
.3 km N. of King A. Ranch
at 3700'. Large, spreading
tree. Common in locality
on heavy soils (gabbroic)

Limb.

2121a. Wood specimen from a
dead-down cyp. 31" diam
at base, near # 2121. may
be at or near Wolf's tree.

31" = 78.7 cm. diam = 39.5 r.

Outside growing 4 cm / decade in
radius. (sap. specimen.)

limb wood: 50 yrs ring count.
reconstruct. radius growth.

1950-30 - 8 cm

1930-20 - 4 cm

20-10 5 cm

10-0 6 cm

0-1890 6 cm

1890-80 - 8 cm

1880-75 7 cm.

2125 *C. arizonica* Greene
var. *glabra* (Sudw.) Little

(3)
2125A - *Fumaria officinalis* L.
Coll: David Rawlin
at 1867 Law St, PB.
4 Apr 1978

2126 - *Cupressus*
Cupressus *quadalupensis* S. Wats.
var. *forbesii* (Jepson) Little

8 Dec. 1977. San Diego Co CA
E. on Hwy I-8 to:

At Descanso Ranger Sta.

1020 m. elev.

32°51' N - 116°38' W

2125 Cupressus [glabra Sudw.]

Smooth, thin, exfol. bark; gray green
foliage w/ active pits.

Plants along rd on station
grounds. ← 2125A

Up Boulder Rd to:

At Wildcat Springs, (head
of Conejos Cr.) on Boulder Rd.
Elev. est. ca. 1100 m.

32°56' N. - 116°38' W.

Traces apparently planted
after 1950 Conejos fire, on the
So. bank of arroyo, from
Boulder Rd up-creek for a distance
of 200 m. or so; perhaps 15-20
specimens. - 1 dm - 3 dm in diam.

← 2126 ~~Esper~~ Cupressus

← 2127. Cupressus. antagonica
~~Cupressus var glabra (Sudw.) Little~~

2126 & 2127 - bright green
foliage w/ few or none
pits, none active; bark
smooth, thin, mahogany,
exfoliating: these
resemble *C. quadalupensis*
var. *forbesii*

at. Glenciff Station on
Cottonwood Cr. off I 8. ca
4 km. E. of Pine Valley.
Elev. 1160 m. $30^{\circ}48'N$; $116^{\circ}30'W$.

(3) 2128 *Cupressus arizonica* Greene
var. *glabra* (Sudw.) Little
planted at old Glenciff
Campground (now a FS Fire Sta.)
Same species as at Descauso
R.S. # 2125. ♂ ripening.

~~#~~ 2129 - *C. arizonica* Greene
var. *glabra* (Sudw.) Little

at Cameron Sta. - planted 1934
♂ green cones.

8 Feb 1978

Quatay Mtn.

32° 51' 116° 34' - 1100 m.

②

2130 - *Cupressus guadalupensis*
var *forbesii* (Jepson) Little.
(cones in boxes)

17 Feb 78 San Diego Co.
Inspiration Pt So. of Julian
on highway (Hogson) 79

1400 m

33° 03' N 116° 34' W

2131 - *Cupressus arizonica* var
glabra

24 March 1978
Martinez Lake - (Colo. River),
Yuma Co. Ariz. Low desert.

(3)
2133. *Muhlenbergia micro-*
sperma (OC.) Kunth

(2134) *Bouteloua barbata* Lag.
2124. marked.

4 Apr 1978
Pacific Beach, in back yard next
to alley at 1867 Law St.

2135 (marked 2125)
Fumaria officinalis L.
found by David Rawlin

10 Apr. 1978
Bayside - extreme NE. corner
of Vacation Village, Pacific Beach
- growing in rock revetment.
32° 47' - 117° - 14 W

2126 *Brachypodium distachyon*
(L.) Beauv.
w/ Bermuda grass

In revetment rocks on V. Isl.
(Monterey Bay) opp Crown Pt
↓, P.B.; sea level

Collections in Hawaii. 1978

2 May 78 Kauai. Waipahoe
Slide area; openings in trees
+ shrubs of the riparian zone

2127 Sacciolepis striata
(L.) Nash.

~~~~~ Kauai  
3 May 78. at Wai'anae Lookout.  
3400' - (1020 m.). Large, robust  
grass.

2128

~~~~~  
Grass w/ rhizomes:

2129 Melinis minutiflora Beauv.
"Molasses Grass"

~~~~~  
annual, growing among lava  
rocks:

2130 Briza sp.

~~~~~  
Grass w/ rhizomes, but a bunch.
grass; culms to 1 m. tall

2131 Paspalum urvillei Steud.

"Vasey Grass"

3 May 78 Kawai. Russian
fort at Wai'anae.

2132 *Andropogon wrightii* Hack.

~~~~~  
Opa Lookout - Puuhinahina  
L.O. Annual, common

2133 *Setaria lutescens* (Weigel)  
Hubb. Yellow Bristlegass

~~~~~  
Kawai - 4 May 78 - Lihue:

2134 *Tragus*

~~~~~  
very long stolons, spreading  
across waste areas:

2135 *Panicum* cf  
*purpurascens* Raddi

~~~~~  
2136 *Eleusine indica* (L.)
Gaertn.

~~~~~  
6 May 78. Oahu, Kahala Area:  
weedy areas along walks:

2137 *Chloris inflata* Link

2138 (flat stems) *Paspalum*  
*conjugatum* Bergius

11 May 78. Oahu, Kahala  
Beach.

Common weed in lawns:

2139 *Sporobolus cryptandrus*  
(Torr.) A. Gray

2140. (Common weed in lawns)  
*Eleusine tristachya* (Lam.)  
Lam.

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12 May 78. Kapaekahi <sup>Kahala</sup>  
Stream - hills above ~~Oahu~~; Oahu

2141 *Miscanthus nepalensis*  
(Trin.) Hack.

2142 (Large bunch grass/rhizomes  
culms to 1 m tall  
*Panicum maxim<sup>um</sup>* Jacq.  
"Guinea Grass")

② 2143 (~~no collection~~) *Setaria*  
*verticillata* (L.) Beauv.

2144 *Eragrostis diffusa* Buckl.

2145 *Leptochloa uninervis*  
(Presl) Hitchc. & Chase

12 May 78 (Cont.)

In Waahilua Park - in hills  
above Kahala Area, Oahu.

2146 Sacciolepis L. sp.

2147 Paspalum minus Fourn.

2148 (Large bunchgrass w/  
very broad leaves)  
← Setaria [cf. barbata  
(Lam.) Kunth.] ←

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San Diego -

15 May, 78. San Diego ~~Bay~~ Bay  
at Vacation Village Park. In  
weedy areas, among ornamental  
plantings:

2149 Schismus barbatus  
(L.) Thell.

6 June 78 BCFA  
2151 A - *Gastroidium*  
*ventricosum*  
(Gouan) Schinz & Thell.

w/R. Broome (Ca 1 km SW of  
~~w/~~ rd. to Punta Banda  
in the bottom of a draw)

Ca 1 km SW of Villavieja  
off Hwy BC 15  
31° 43', 116° 40'

- bottom of a draw w/  
other annual grasses.  
Elev ca 75m.

25 June 78

2156.

*Poa atropurpurea* Scribn.

dry fls + culms only; from  
plants at Rock outcrop  
SE of Big Laguna Lake.

1978 (cont.)

2000 m.

25 May 1978 - Inyo Co. Whitney  
Portal Rd above Lone Pine C. Quad. Inyo  
N.F. large bunch grass; common

2150 *Stipa speciosa*  
Trin. & Rupr.

1800 m.

24 June S.D. Co. across highway  
from Camp Ole. JP-Dale woodland

2151 *Bromus carinatus* H. & A.  
± upright like *stamineus* (ascending)

2152 *Elymus glaucus* Buckl.  
ssp. *glaucus*.

Common

25 June Laguna Inlier - dry  
part of Inlier south of Lake (Buckl. L.)  
w/ *Loa*, *Agropyron*.. ca 1800 m

2154 ~~2153~~ *Elymus triticoides* Buckl.

2153 ~~2154~~ *Stipa lemmonii* (Vasey)  
Scribn.

20 June 78. Howie Wier. a cypress  
from SENE Sec 21 T15<sup>31</sup>~~30~~, R2E above  
Peutz Valley Rd. ca. 24 trees in  
chaparral - trees 4"-8" on stump  
Est. age 135 yrs. Planted? ca. 780 m

2155 *Cupressus guadalupensis*  
var. *forberii* (Jeps.) Little

13 July - 2 mi S. Benton Sta on US 6  
@ 5200', Mono Co. 1600 m.

2156<sup>A</sup> - *Spartina gracilis* Trin.  
w/ Saltgrass.

2157 - Very Long Ligules - to 8 mm.

N. End Blind Springs Valley

\* 2157. *Poa scabrella* (Thurb.) Benth.  
field at H Jun 1980

1978 (2156)

Following nos. 2157 to 2310 collected  
on summer trip:

← 2156

Mono Co.

14 July 78. Old Benton, by lake at

NE corner of meadow w/ saltgrass.

Non rhizomatous; dioecious fls.

② Sec 35 T15R31E 5600' 1600 M.

← 2157 [*Poa nevadensis* Vasey]

ex Scribn.

~~~~~ 14 July

Nevada - ca. 1 mi NE Montgomery
Pass on Hwy 6 - Pinyon-juniper; alt.,
Chy. ca 2500 m. Mineral Co.

2158 *Koeleria nitida* Nutt.

2159 *Hordeum jubatum* L.

10 mi E. Tonopah along US6; roadside
areas. ca 1200 m Nye Co.

2160 *Sporobolus contractus* A.S.
Hitchcock.

4.7 mi E. of Tonopah on US6 at
Spring & water tank just south of
hwy. In damp areas by stock
tank. ca 1200 m - Nye Co.

2161. *Elymus triticoides* Buckley

[2162 *Elymus*] w/ 2161

2163. *Poa nevadensis*
Vasey ex Scribn.

2163a. *A. dasystachyum*
var. *repensum*
side of
Jan 1980.

2168 - *Hardium jubatum*
field Holmby 1980

Nevada (White Pine Co.)

15 July 78. Humboldt N.F. c. 900
ca 10 mi w. of Ely near US 6. Egan
Range. Pin-Juniper, Atr-Gr. ca 2400 m
(ward Mtn Camp) Humboldt NF

2163A. [Agropyron laeystachyum]
← (Hook.) Scribn.

2164 Agropyron spicatum (Pursh.)
Scribn. & Smith.

2165, ~~Fesuca~~ thurberi Vasey

Poa nevadensis Vasey ex Scribn.

Nevada, White Pine Co. East of the
town of Cherry Creek in white
alkali: 1800 m elev.

2166 Elymus triticoides Buckley

2167 Poa juncifolia Scribn.

2168. Hordeum sitenion hystrix
var. californicum (J.G. Smith) F.W. Wilson

2169 - on fan above alkali
flat:

Agropyron trachycaulum
(Link) Malte

16 July 1978

Idaho, Lincoln Co. Little Wood
River ca ^{65K} 4 mi south of waters of
the Moon NM. (4600') Basalt Desert.

1400 m

16 km NE of Shoshone

Coll. note for 2175 & 2176: This planted stand of *Agropyron* consists of 3 different taxa. ^{one with} ~~one with~~ short, broad heads which is past flower and dry, having weathered well in advance of other two; or second form of about a dozen plants, hairy, slender, ~~narrow~~ awnless heads. a third. & a few dozen plants, with bronze-colored, awned heads.

2176 *Agropyron* spicatum (L.)
Gaertn.

with 2175; slender heads, still green (standard plants are dry)
3-5 dm high; hairy keel on lemma. Ca 12 plants

on dry soil, 20-50 cm tall:

2170 Agropyron smithii Rydb.

On wet soil, streamside: 1-2 m. high

2171 Phalaris mundinacene L.

1800 m.

Butte Co. 5500'
near Craters N.M. in basalt cinders

2172 Stipa occidentalis Thurber

1800 m

17 July 1978 5900' Butte Co.

Craters of the Moon N.M.; end of rd
on trail to tree casts:

2173 X Stiporyzopsis bloomeri
(Boland.) B. L. Johnson

(Dryzopsis bloomeri Boland.)

ca. 16 ^{25 km} south of Arco, Idaho
1700 m.

Butte Co. 5500'. With sagebrush

in depression (trough, collapse?)
in Basalt:

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

form.

5 km

ca 3 mi E. of Arco; roadside

2175 Agropyron cristatum (L.)

← Gaertn.

1200. plants w/ strong bronze

cast to heads; slender, yet-green,
form w/ short, thick heads are dry

2180

2180 not used; not a good sp. ←

Idaho, Fremont Co.

18 July 1978.

5W
Sec 1 T8N R43E

Anderson's "Aspen golf area" *
a troublesome weed: ca. 5500' (1700 m.)

2176A Poa annua L.

locally called "Poanna"

5 Km.

ca. 3 mi. W. of N.F. Boundary on
the Chain Lakes Road. 5600' (1700 m.)

Aspen - abt - grass. Natural,
+ undisturbed vegetation at
old log house. **Sec 3 T8N R44E BM**

2177 Danthonia californica
Boland.

wirey, growing thinly.

2178. Poa pratensis L.

2179. (Bromus carinatus Hook. & Arn.)
Bromus marginatus Nees.)

[2180. Purshia tridentata DC.]

at Anderson's "Aspen Acres" -
bordering Aspen in natural
vegetation. 1700 m.

2181. Stipa comata Trin. & Rupr.

2182. [Stipa columbiana Macoun]

↓
Stipa nelsonii v. nelsonii

8N

file Holmgren

Jan 1980

* SW SW Sec 1, T8N R43E BM

Wyoming

19 July. (Idaho)

Wyoming, Teton Co.

Squirrel Meadows on upper Squirrel Creek, Langford N.F., at or near the old fox farm buildings. Sedge-grass meadow in L.P. pine forest. ca 6600' Sec. 3, T47N R118W (2000 m.)

2183 Deschampsia cespitosa Beauv.

2183A, Poa ^(palustris) palustris L.
(Poa palustris L.)

2184A - Carex aquatilis Wahlenb.

2184B - Carex rostrata Stokes ex With.

Loon Lake - off the Reclamation Rd, Sec 20 T48N, R117W B.M., Langford N.F. elev ca. 6600' LP, ES, aspen forest. (2000 m.)

2185 - Melica bulbosa Gejer ex Porter & Coulter

2186 - Festuca idahoensis Elmer

2187 - Koeleria nitida (L.) Pers.
(K. cristata L.)

2188 - Poa pratensis L.

WYOMING
20 July 78 Wyo. Teton Co.

Squirrel Cr. Meadows area
(Reclamation Road) - No. ~~16~~
Boone Creek. (ca Sec 20 T⁴⁸N
R¹¹⁷W, ~~16~~ 6600' (2000 m.) S⁴⁸N

2189 Stipa columbiana Macoun.

2190 Sitanion hystrix (Nutt.)
J.B. Smith & Vasey

2191. Danthoria intermedia Vasey

2192 (an Aryzita) Poa scabrella
(Thurber) Benth. & Vasey

South ~~16~~ Boone Cr. on Jackass
Road. Dry grassland, openings in
LP-ES forest. 6500' (2000 m. elev.)

2193 - Poa pratensis L.

2194. Agropyron dasystachyum
(Hook.) Scribn.

W. B. Smith

6th P.M.
Ernest Lake - Sec 16 T⁴⁷N R¹¹⁸W B¹
ca 6000' 1800 m. LP - Open forest; dry meadow
2195 - Calamagrostis rubescens
[rubescens] Buckl.

2196 Juniperus scopulorum
Sarg.

21 July 78 - Fremont Co, Idaho

Andersons "Aspen Area" natural
± undisturbed vegetation. 1700 m

- 2197 what is locally called
"buffalo grass"

Poa pratensis L.2198. *Danthonia unispicata*
(Thurber) Munro ex Macoun

1700
1600 m.
old A.B. Burkhalter pasture on
Squirrel Cr. SE 1/4 Sec 8 T 8 N R 44 E B 3

- 2199 *Agropyron dasystachyum*
(Hook.) Scribn.

var. nelsoni2200 *Stipa columbiana* var
nelsonii (Scribn.) St. John.

22 July 1978 - Idaho - Bingham Co.
In lava flows west of Shelley
4600' - 1400 m.

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

24 July 78. Idaho - Washington Co.
Cambridge, on Weiser R. 1400 m.
along town walks. Only grass plant.

2202 *Aegilops cylindrica* host

Idaho (Lake Co.)

25 July 78

Warm Lake, east of Cascade,
Valley Co, 5200' ^{1600M} LP forest. (1600M)

2203 Deschampsia elongata
(Hook.) Munro ex Benth.

[25-26 July: to Boise to get car
repaired] [Camped at PenHollow site
of 26-27 July.]

26 July 78 [return to Warm Lake
& drive on to landmark after
getting car repaired]

27 July

Pen [Hollow] - Basin 6700'
Boulder Cr. LP forest (2050m.)
← on ~~Jensen~~ Cr.

2204 Stipa columbiana MacDougal

2. 2205 Festuca ovina L.

2206 - Danthonia intermedia
Vasey

[2207 Trisetum spicatum (L.) K.
Richter ~~coll w/~~ 2212]

2208 Deschampsia caespitosa
(L.) Beauv.

← 2209 Poa [pratensis] L. ←

• 2209 A Agrostis diegoensis Vasey

• 2209 B Agrostis scabra Willd.

• 2210 Agropyron trachycarum
(Link) Malte var trachy-
carum

2211 Stipa occidentalis Thurb.

2212 Trisetum spicatum (L.)
K. Richter Richter

Meadow at Landmark R.S. on
Johnson Cr. 6650 elev. (2000 m.)
Shrub-grass-carex-willow.
Valley Co.

2213 Hierochloa odorata
(L.) Beauv.

2214 Danthonia californica Boland.

2215 Danthonia unispicata
(Thurb.) Munro ex Macoun

2216 Poa pratensis L.

2217 Danthonia intermedia
Vasey.

2218 Cinquefoil. Potentilla
anserina L.

28 July - Riggins on the
main Salmon. 1800' (520 m.)
Idaho Co.

Weedy places in town & along
Salmon; common:

2219 Setaria viridis (L.)
Beauv.

2220 Sporobolus cryptandrus
(Torr.) H. Gray

29 July

Wako, Idaho Co. Seven Devils area
w. of Riggins. ca 2150 m. elev.
alpine meadows + grasslands
in L.P.-E.S. forest. at Windy Saddle

✓ 2221 - [Festuca ovina L.]
F. idahoensis (Holmgren)

2222 - [Stipa columbiana Macouy
S. ~~calva~~ nelsonii Holm.]

- at Heavens
gate. 2650 m.

2223 Poa sandbergii Vasey

2224 Poa nervosa (Hook.) Vasey

2224A - Festuca ovina var.

rydbergii St. Yves.

(plants w/ some deformed spike-
lets.)

2225 Melica ^{bulbosa} spectabilis
Saxbr. Geyer ex
Porter & Coulter

2226. Trisetum spicatum
(L.) Richter.

very pubescent.

30 July 1978

Idaho, Latah Co. ca. 16 km
so. of Moscow along US 95.
ca 750 m. elev.

2227 Arrhenatherum
elatius L.

Kootenai Co. ca 30 km. south
of Coeur d'Alene. ca 700 m. elev.

2228 Agropyron spicatum
(Pursh) Scribn. & Smith.

2229 Triticum aestivum L.
a strain of Triticum being
dry-farmed.

^{Bonner Co.}
31 July - near Sandpoint
near US 95. ; open forest of
LP-ES-Larch. 640 m. elev.

2230. Muhlenbergia asperifolia
(Nees & Meyer) L.R. Parodi

2231 Calamagrostis rubes-
cens Buckley

2232 - Festuca rubra L.

[2232 -] ~~some as~~ 2233

compressa L.

2233 Poa pratensis L.

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

723^v
Plants stoloniferous. —

2237 *M. subulata* (Griseb.)
Scribn.

Montana; Lincoln Co.
31 July 78.

Ca. 32 ~~mi~~ km^E of Bommer's
ferry (Idaho) on US 2.
Yaak River. 600 m. elev.

2235 Larix occidentalis
Nutt.

2236 Cedar.

Thuja plicata D. Don.

1 August 1978. Montana
Flathead Co. Grass openings.

← 2237 Melica spectabilis
Scribn.

near West glacier ca 4000 m 9600 ft

2 Aug 78 - Alberta Canada.
Blood Indian Reser. along
highway. aspen-spruce-grass
near Chief Mountain. 1200 m.

2238 Danthonia spicata
(L.) Beauv. ex Roem.
& Schult

2239 Agropyron spicatum
(Pursh) Scribn. & Smith

Montana.

3 August 78 Ca. 15 km S.
of Browning on Blackfoot
Indian Reser. - Glacier Co.
Rolling prairie - Two
Milecink River. ca 1200 m.

2240 Stipa comata Trin.
& Rupr.

2241 Artemisia frigida
Willd.

4 Aug. 78 Teton Co,
Ca 3 km N. of Choteau, on
native prairie, banks above
flood plain of Deep River
ca. 1000 m. elev.

2242 Bouteloua gracilis
(H.B.K.) Lag. ex Steudel

2243 - Bromus commu-
tatus Schrader

2244 - Elymus canadensis L.

2245 - ditto 2244

2246. Koeleria nitida
Nutt.

2247 - Calamovilfa longifolia
(Hook.) Scribn.

2248 Agropyron sibericum
(Willd.) Beauv.

2 2249 Muhlenbergia cuspidata (Torr.) Rydb.

5 August.. near Gardiner,
Park Co, Montana; at Reese
Cr. on W. bank of Yellow-
stone River. Grasslands. 1600
M. elev.

2250. Artemisia frigida Nutt.

2251 Juniperus scopulorum
Sarg.

Det:

ssp. nauseosus

2 2252 - Chrysothamnus nauseosus
(Pallas) Britton in Britton & Brown

8 AUG 78

Wyoming, Yellowstone N.P.
near Twin Lakes

@ ca. 2000 m. elev.

• 2253 Poa pratensis L.

2254 Poa ampla Merr.

opening in L.P. forest.

8 Aug 1978

Wyoming, Teton Co, near
the Flagg Ranch 2100 m.
near US 287.

2255 Calamagrostis cf
scribneri Beal

9 AUGUST 78

Wyoming, Fremont Co., on
US 26, ca 30 km N. of
Dubois, near Fall Cr C. Ground
on Shoshone N.F. L.P. forest.
ca. 2500 m. elev.

✓ 2256 - Festuca idahoensis Elmer

2257. Agropyron trachycaulum

var. latiglome (Scribn. & Smith)

A.A. Beetle

2258 Bromus ciliatus L.

9 Aug ~~8/27~~ South Pass, Sublette Co Wyo
2300 m. state Hwy 28

2259 Artemisia arbuscula Nutt.
var. arbuscula

2261. *S. nelsonii*
fide Holmgren Jan 80

2263 *Chrysothamnus viscidiflorus*
(Hook.) Nutt. *lanceolatus* (Nutt.)
Hall. & Clem.

2264 *Artemisia cana*
ssp. *viscidula* (Osterhout)
Beetle.

Utah - 13 July 78
Wasatch Co - 0540, ca. 5 km
No. of Pass - Daniels Cuy., ca.
2100 m. elev. So. of Heber.
Aspen-Sage area of conifer
forest: DF, ES, WF.

2260 - Stipa lettermanii Vasey

← 2261 - Stipa [columbiana Macoun
var. columbiana]

det
Anderson

ssp. salicifolius (Rydb.) Hall & Clow.

2262 - Chrysothamnus

nauseosus ssp. [graveoleus]
Nutt.

D → Anderson

2263 - [Haplopappus cf.

arborescens]

← 2264

D → Anderson det
LA

Head of Daniels Cuy. @ 2400
m. elev. Aspen-meadow - Lodge
pole pine forest.

2265 - Festuca pratensis
Huds.

2266 Bromus polyanthus
Scribn.

2267

X Agrostitanion saundersii
(Vasey) Bowden

~~~~~  
COLORADO - Summit Co.

15 Aug 1978 Arapaho Basin

w. of Loveland Pass - 3300 m.

elev. alpine meadows & grassy  
hillsides. LP-WF. ~~E~~ Aspen.

2268 - Poa pratensis L.

2269 Poa [pratensis L.]  
palustris L.

2270

~~~~~  
16 Aug - at 3350 m.

2271 Poa alpina L.

2272. Poa [nervosa (Hook.) 1980
Vasey.] P. pratensis ~~bidem~~ salween

2273 - Poa rupicola Nash

(2274) same as 2275

2271 - Grassland above timberline

} alpine forest above (south)
A-Basin Lodge. 3200 m

2279 C. p. ssp. affinis
(No's.) L. C. Anderson

2 2275 - Festuca ovina
var. brevifolia (R. Br.)
S. Wats.

17 Aug. 78 COLORADO, Park Co.
Hoosier Pass on Hwy ~~9~~⁹, 27 km.
So. of Breckenridge - 3550 m.
elev. Pike N.F. LP-ES forest.

2276 - Poa interior Rydb.

2277 - Bromus ciliatus L.

2278 - Poa nevadensis

Vasey ex Scribn.

La det 3 km So. Alma ^{Pack} on Hwy 9.

2279 Chrysothamnus parrisi
(Gray) Greene. ³¹⁰⁰
4100 m elev

ssp affinis grasslands ssp ~~parrisi~~

5 km South of Fairplay, Park Co.
on US 285 - ca 3000 m.

2280 Gutierrezia
sarothrae (Pursh)

Britt. & Rusby

grasslands w/ few shrubs.

2181 Artemisia frigida Willd.

10 mi (16 km) east of Gunnison
on US 50; grasslands w/ scattered
low shrubs. ca 2500m. elev.

2 2282- Chrysothamnus
L. A. Det parryi (Gray) Greene
ssp parryi

18 Aug 78- Duray, Colo.
Duray Co. 2400 m. elev. along
Uncompahgre River. ~~Southern~~
Pine-Aspen forest w/ grassy
openings.

2283 Quercus gambelii Nutt.

Near Red Mtn ~~Pass~~ - 3200 m.

LP-ES forest. along Hwy US 550

2284. Trisetum spicatum
(L.) Richt.

2285. Agrostis scabra Willd

Dursey Co.
Ca. 1 km. N. of ~~Red~~ Red Mtn
Pass - LP-ES forest & grassland.
3350 m. elevation. - US 550
2286 *Trisetum wolfii* Vasey

2287 *Deschampsia caespitosa* (L.) Beauv.

San Juan Co.
Ca 5 km. S. of Red Mtn Pass
on US 550 - 3050 m. elevation.

2288 *Stipa lettermanii*
Vasey

In E.S. forest openings.

Aug
19 ~~July~~ 1978 ARIZONA
Coconino Co. Navajo Co
Oak Creek Canyon. JP forest w/
Coconino N.F. juniper, cottonwood; near canyon
bottom along hwy 89ALT.

2289 } *Juniperus pachyphloea*
& 2290 } Torr.

19 Aug 78

Oak Cr Cny (cont.)

Under forest canopy ca
1440 m. elev.

2291 - *Cupressus arizonica*
var *glabra* '(Sudw.) Little

2292 - *Bouteloua curti*
pendula (Michx.) A. Gray.

large bunchgrass under oak-
cypress woodland ca. 1200 m.
elevation.

Side canyon ca 3 km N. of
Sedona - [1300] m. ~~400 m~~

2292A.

2293 - *Cupressus arizonica glabra*

94 "

95 "

96 "

97 "

98 "

99 "

2300 "

2301 - Pinyon.

Pinus edulis Engelm.

19 Aug 78

Sedona - Oak Cr. Cny (Cont.)
1300m.

Side cny. ca 1.5 n. of Sedona.

2302, 2303 *Cupressus arizonica*.

Yavapai Co

on Dry Cr. ca 8 km ^{SW} ~~SE~~ of
Sedona on Hwy 89: ^{ALT. 1200m.} large
old trees close to stream.

2302⁴ + 2303⁵ *Cupressus*
arizonica var *glaber*

Summit above Jerome
Yavapai Co - ²²⁴⁰ ~~1550~~ m. elev.

PP forest. Prescott n.f..

2306 *Tridens ~~muticus~~*
muticus (Torr.) Nash

2306 A. *Pinus ponderosa*. Laws.

2307 *Lycurus phleoides*
H.B.K.

^{7000 m / 800 m}
Edge of woodland on w. side
of range ca 12 mi (19 km)
w. of Jerome, Prescott n.f.
on Hwy 89. Yavapai Co.

19 Aug 78

2308 *Juniperus pachyphloea*
Jorr.

Grasslands - ca 8 km. E.
of Granite Cr. on ^{Dells} Hwy 89 (alt.)
at ca 1500 m elev. Yavapai Co

2309 - *Panicum obtusum* HBK.

~~E~~ SW of Prescott on 89
in chaparral; a large
bunchgrass

~~2~~ 2310 *Eragrostis intermedia*
Hitchc...