A.S.H. Hitchcock

13051. — 13585.

24

1915

Denver Colo, June 28

13051 *Festuca*
sclopora (P)
hirsuta

13052 *Hordeum* (P)
calypitosum

~~sl~~ ^{Ariz} 13053 *Williams* - June
Poa fendleriana
(bund. group)

13054 *Poa fendleriana*
(bund. group)

13055 *Bromus* (P)
marginalis

1915

Open ground on
prairie, common

Vacant lot in
city.

30.

Rocky slope in open
timber

ditto - seems different
from 13053; Taller - pan-
icle more open.

ditto - Panicle full
or nearly so, branches
ascending - perennial

13056 *Silene*
pubiflora

13057 *Silene*
molle

13058 *Achyrocline*
palmeri
smithii *palmeri*

Grand Canyon
13059 *Bromus*
porteri *OK*

Grand Canyon - Bright Angel
13060 *Melampyrum* *jamesii* *OK*

Rather large bushes
erect - smooth

Similar to 13057 but
pubescent - and not in
in flower, evidently different

Open ground - flat
land - mesa

July!
Ravine in pine woods
(open, dry)

trace
4000 ft

G C R
Grand
Canyon
Ravine
G C =
Bright Angel
Ravine

13061 Bouteloua (sp)
(curtipendula)

3000 ft.

13062 Stipa coronata

5000 ft. Blades flat
when fresh - large
bunches on slope

13063 Stipa
arida (sp)

5000 ft. - large bunch
on slope. Blades involute
when fresh

13064 Panicum
huachucae (sp)

Half way down - 5000 ft.
moist soil in shade of willows
and on decumbent at base

13065 Impatiens
hookeri (sp)

13066 *Aquifolium* *glomeratum* (P)

Rocky slope near Colo
River

13067 *Aristida* *verschoni*

Sand pockets in rocks
along Colo River
Large heads - erect,
blades involucre

13068 *Aristida* *parva* (P)

ditto - blades involucre
Plant coarser than 13067

13069 *Sporobolus* *cryptandrus*
(mallei?)

near river (Colo)

13070 *Andropogon* *saccharoides*
lagroides

Sand pockets Colo River

Enckea - July 13 Enalif

13071

Elymus
Caraculola?
vanconnerensis

set

13072

Bromus
carinatus (P)

13073

Festuca
pallida (P)

13074

Poa
maeriantha (P)

set

13075

Agrostis *hallii*
foliosa

Samoa

Sand dunes - *Sarcoc*

Forming large patches - blades
flat - glaucous - rootlets
abundant - halves of *E. arcuatus*

Sandy soil - *Sarcoc*

ditto

Common - but mostly
over mator

sand dunes - *Sarcoc*

sending out long runners

fixed dunes - in open
areas - *Sarcoc*

13076

D. diguipsea
hololeiformis (P)

Depression in fixed
dunes - open ground
Samoa

13077

Acrocephalus
arbuscula (P)

Dunes - has been
planted here now quite
well established.

13078

Trisetum
canadense (P)

Open woods - fixed
dunes

13079

Dyneris
glauca (P)

13080

13080

Fishia
rubra (P)

Depression in dunes

13081 *A. portia* *eximata* (P)

Depression in sand dunes

13082 *Fiducia* *rubra* (P)

delta-like buds
of fine soft leaves

13083 *Hordernia* *foveolata* (P)

Sandy flat near
bay - growing at edge
of *Salicornia* zone,
usually spreading at base
South of Enakka
in road

✓
13084 *Solanum* *multiflorum* (P)

13085 *Procinella* *(pistaciaformis)* (P)

Among *Salicornia*
South of Enakka

13086

Prunus
maritima (P)

Along by track in sand

13087

Helianthus
maritimus (P)

Grows most ground
back of the bay - border of
marshy - long border,

13088

Polygala
littoralis (P)

Wet flat ground
back of beach, mostly
growing in water - low creeping
& rooting.

13089

Agrostis alba maritima
(maritima?)

delb

13090

Panicum
paniculatum (P)

delb

13091

*Calamagrostis
aleutica* (P)

della

1908.1

13092

*Aurea
solida* var. (P)

Edge of field, (P)

13093

*Agrostis
(reflexa?)* (P)

Agrostis reflexa (P)
Woods, among shrubs.

13094

Agrostis alba aristata
(foliosa?)

della

1908.1

13095

*Panicum
occidentale* (P)

della - in depression
under more, prostrate

ed

13096 *Alpert's ~~melaleuca~~*
(*conspicua?*)

Willis - July 14

13097 *Elipomys triticoides*
does not occur in
condensation or triticoide

13098 *Golum*
multiflorum (P)

13099 *Agrostis*
microphylla (P)

13100 *Bromus*
canadensis (P)
Vern.

delto - communis
in open pasture land

small bunch along Ry
not rhizomatous, plant not
glaucescous, blades flat

along Ry - Branched
spikes?

along ditch by Ry

Along Ry - *Stachys*
spike denser than common
form - *B. canadensis* is more
delicate than *B. purpurea* - branches of
pedicel - slightly spreading or reflexed.
Spk. narrow.

13101 *Sitona*
planifolium (M)

Open grass land
along Ry.

13102 *Prunella* *pratinensis*
(commutata)

Dry ditch along Ry.

13103 *Sitona*
subolium (M)

Open grass land
along Ry. Bunches
erect - perennial.

13104 *Phlox*
gondola (M)

Open grass land,
ditch along Ry - among
will ows, erect, annual

13105 *Aster*
parvifolius (M)

Open grass land
along Ry. A large
plant.

Shorewood July 15

13106 *Myrica* *carolinensis* RP
set

13107 *Panicum* *fluitans* RP
set

13108 *Deschampsia* *ambigua* RP
set

13109 *Glyceria* *repens* RP

13110 *Zanthoxylum* *armatum* RP
sh. pedic.

Slopes of cut, open
wood - along R.
very bushy - white
spreading

Pool in brook - low
part in water, creeping
or crawling - stems flattened
+ roughish.

Wet place in depression
along R. - common

Open ground - too
old

Wet bank

13111

Fritaria
idahoensis

Open dry slope
not seen to be seen

13112

Sanicula
missipicata
canadensis
In pools

Dry open slope
Two old but dis-
seminated flowers in all sites

13113

Sanicula
californica
In pools

Open slope
disseminated flowers in all
sites

13114

Fritaria
californica (1/2)

Open wood on
dry slope - large bush
4' or 5' high - leaves
green - flowers yellow
wreath - too old

13115

Briza
July 11/6

Briza - *Briza minor*

Springy place along
brook

13116

Eleusine
pubescens

Sandy cliff by
sea. May be a form
of *E. glauca*.

13117

Festuca
palifolia

Along brook

13118

Polygonum
littorale

Along brook

13119

Calamagrostis
obtusata

Among brush in
open woods near
sea

13120

Festuca
rubra

ditto

13121

Phalaris californica (P)

detto

13122

Pendula boreale
(mucronata?)

Moist sand cliff
by sea - Perennial
lanceous - culm
straggling. Does not
look like mucronata or
boreale

13123

Pennis carinata
(mucronata?) *diminuta*

Perennial. Moist sand
on cliff by sea.
Culm widely spreading, more
prostrate. The septal
granules indicate *carinata*,
but is very robust for the
species.

13124

Agrostis microphylla
peruviana or *blinckii*

Sandy cliff by sea. The tall
specimens at wet place. Small
specimens at lower part and
on cliff & more above.

13125

Agrostis exarata
Same as above but
in a wet place

13126 *Elymus*
pubescens (P)

13127 *Elymus*
pubescens

13128 *Alopesurus*
Phleum alpinum

13129 *Desmus marginatus*
(marginatus var?)
doubt on photo

13130 *Yosanto Valley*
Parnassia (P)
elata

Sandy cliff by
sea. Culms spreading
(see no 114 + 127) In
wet spot on slope. Culm
rough

Seems to be the same as 126
but annual, growing with
126 & of same habit

Moist slope of sandy
cliff by sea

ditto, culms spreading
or very prostrate

July 21

By boat - Iwaya head
7000 ft

13131

Poa
scabrella (P)

Open pine oak
woods 6500 ft
Tanager trail

13132

Poa
holanderi (P)

ditto

38

13133

Melica
aristata (P)

ditto loose
bunches, culms erect
branches of panicle finally
spreading.

41

13134

Festuca
occidentalis (P)

ditto

13135

Trisetum
canadense (P)

ditto

62

13135½ Agrostis microphylla

13136

Bromus
oreocanthus (P)

Yosemite Nat. Park

13137

Salicornia
californicum

13138

Bromus
marginalis (P)

13139

Poa
wheeleri (P)

13140

Poa *sandbergii*
of 1922

ditto

Glacier Point

Open dry woods
common in the valley & on
mts. single or in small
clumps.On Sentinel dome
in open woods. Poor, noddy,
div. branches, appressed & ascen-
ding.

Open woods, etc.

Summit of Sentinel
Dome, bushes

13141 *Panicum*
unspicab (P)

Mar. Sentinel Son
in rocky soil

13142 *Poa*
Sandbergii 140
probably

Bunchy, on Sentinel
Son. Dissected & rocks
crevices and, Pan. erect
bunches stiffly spreading in fl.

13143 *Poa*
probably = 142
Sandbergii

ditto

13144 *Poa*
scabrella (P)

ditto - single or in small
tufts. Pan. narrow, brachy, erect
or somewhat spreading in fl.

13145 *Poa*
scabrella (P)
= 144

ditto - the same
form as this but the
leaves being brown and
somewhat withered.

13146

Proserpinaca
*carinata*In woods along
trail.

13147

Poa
scaberrima (P)Rocks near Keweenaw
falls.

13148

Agrostis *hyemalis*
*tenax*Moist place
woods 6000 ft

13149

Festuca (P)
*megacarpa*Rocks wet with
spray from Keweenaw falls

13150

Diarrhiza of Julian
epicarpa (P)
*nigra*July 29, 1911
Prairie near small stream
Small bunches, erect

13151

Lymnaea
truncatella
CP

grassy place
along small stream

13152

Lymnaea
glauca
CP

ditto

13153

Agrostis
maritima
CP

Beach along small
stream

13154

Potamogeton
glaberrimus

In open marsh

13155

Faba
confusa

Open place
along road

13156

Stepha ^(P)
coronata

Dry hill side
among brush

13157

Ageratis ^(P)
foliosa

Mossy place
along bluff

13158

Ruellia ^(P)
aristata

Dry slope among
brush

13159

Ageratis ^(P)
foliosa

ditto

P.O.

13160

Prunus *grandis*

ditto

P.O.

13161

Elymus glaucus (P)

13162

Elymus (P)
condensatus
var. *formosus*

13163

Calamagrostis
depressa (P)

13164

Agropyron
caninum

13165

Agropyron *caninum*

Belle

Slope in open woods
near shore rhizomes.
Black fls
Lake level 80
Dry hills, occurring
near, generally, near
Linn. mostly basal, flat
river form, somewhat open
in culture, especially a patch
included.
Most soil along Guad
stream. No rootstock.
Open ground along
road

13166 *Monarda*
subullosa (P)

13167 *Asplenium*
caninum

13168 *Monarda* (P)
occidentalis
gl

13169 *Asplenium*
caninum

Prescott Ariz. Aug. 5
13170 *Silene*
longifolia

delto

Open dry woods
on mountain

Open dry woods on
mountain - 5500 ft
scaberrima 1 or 2 culms.
culm drooping or nodding
delto

Open sun oak woods on hill
sheaths rebrosely rough

13171

Andropogon
Corymbosus

new-mexicanus

13172

Aristida
scabra (P)

13173

Lycium
phlaeoides

Sycurus phloides

13174

Stamion
molle

13175

Valoto
calleman (P)

Rocky hill

Open woods
erect, heads
divaricate

ditto

Open pine scrub woods
on hill. Sheath pubescent
above of pubescence, bases
seems to be a form of 175. A
common form has sheath mostly
rough (176)

Rocky cliff

13176 *Sitacion*
molle

Open woods
Grasslands rough. Seem
to be a form of 17x

13177 *Sitacion*
brevipilum
St

Open woods - rocky
Very glaucous - smooth
Probably a form of 17x

13178 *Sporobolus* *atrichus* *PD*

Open dry ground

13179 *Aristida*
humilis *PD*

Gravelly bed of stream
In mountain form

13180 *Echinocloa*
glossyflora *PD*

Along ditch - shrub in
Prescott

13181

Eragrostis pilosa

Along street

1.8

13182

Eragrostis pilosa

dille = 18.1?

Pulaski, Ark. 11

13183

Hordeobromus
(*nealayi*!) CP

Open flat ground
of downy lateral branches
but much not yet in flower
seeds differing from sp. kept.
more also however that is
portion of culm evidently from
a younger plant, delicate.

low prostrate.

13184

Bambusa
acutispinus CP

13185

Bambusa
adpressa CP

Low open ground.
Common. Rush grass,
long glumes.

St

13186

Spergularia (P)
longifolia

Open dry ground

13187

Cuscuta (P)
canadensis

ditto sandy soil

13188

Sotaria
longifolia

Open dry ground
common. Small
pink flowers. Shrub
tough

13189

Spergularia
interrupta (P)

By hills,

13190

Agropyron
patens
palmeri

Rolling land
dry areas.

13191

Arctostaphylos
(*Umbellales*)
peninsularis a

On hills, large bushes

13192

Edinacodon
zelayensis

a secondary parish
194-

13193

Edinacodon
zelayensis

an annual species
194. Apparently a local
flora

13194

Edinacodon (a) *zelayensis*

Detail along R.
in present road, Puen
an open rocky area
secondary, more annual

13195

Agropyron
flexuosum

Open low ground

Wash Fort, Aug 6

13196 *Mucklenbergia*
collum

~~*gracillima*~~
gracillima

13197 *Boulloua* (P)
eripenda

13198 *Pelama* (P)
mulea

13199 Fort Valley Ep. Sta Aug 9

Depressa (P)
aristata

13200 *Boulloua*
gracilis

Open dry ground
Forming large dense soft
mats spreading 3 ft or
down. Culms sparse and
but very branching & spreading

Open dry ground. Forming
mats in places as much as
a foot wide. Fl. culms
stoloniferous or long-decumbent
red at end.

Dry open ground forest
small patches a few inches
wide, or sometimes one a few
feet long. Culms or sometimes
spreading at base

Boys in water

Open place
beach

13201

Muhlenbergia
 Wrightii

Open flat land
 in Angelus Forest

13202

Proserpinaca
 stracheyana

A weed in
 field

13203

Poa nevadensis

In a bog, in water
 wet mud, with sedges
 and other plants, and
 shore rootstocks with rhizomes

13204

Fire Valley Sp. Sta.
 Proserpinaca frondosa
 (var?)

Aug. 27

Open pine woods,
 shrubs smooth

13205

Agropyron
 tenerum

Moist woods

13206 *Muhlenbergia*
squarrosa (P)

moist open ground

13207 *Andropogon*
puberulus (P)

open dry ground

13208 *Fiducia* (P)
argyræa

open sunny woods
black, erect, plant
glabrous, bracts of
several to 50 cm

13209 Fort Valley Aug 10
Bambusa
prostrata (P)

open recently moist
rock along road

13210 *Eritrichum aestivum*
Club wheel

Wheat field
mixed with other
cereals

13211

Sporobolus confusus (P)
 ✓

Open meadow, wet
 soil, along road
 in low place - annual

13212

Trifolium carinatum
(carinatum arizonicum)
 ✓

Meadow, near
 open brush - perennial
 from wet places, growing
 above lower brush
 occasionally

13213

Poa compressa (P)

in timothy meadow

13214

Muhlenbergia squarrosa (P)

Low open - fruit
 in deep patches. The
 heads close in a clump
 7 9 10

13215

Agrostis peruviana (P)
 smooth
 ✓

Low moist grass
 field - root stock
 present. Plant flowers

San Francisco Mts
13216 *Asperula*
communis (P)

13217 *Asperula*
communis (P)

13218 *Poa*
pratensis (P)

13219 *Festuca*
brachyphylla (P)

13220 *Poa*
Rupicola (P)

Aug 8
Mount Wheeler
8500 ft

Mountain woods
in Aspen forest

Mountain ~~open~~
woods - aspen

Green Summit
of Humphrey's Peak
12000 ft

Alpine zone
of Humphrey's Peak
11500 ft

13221

Agropyron (P)
Scitobuena

Alpine zone
Humboldt Peak
11000 ft

13222

Trisetum (P)
spicatum

High Sierra
Humboldt Peak
12000 ft

13223

Poa
beudanticola
fendleriana

Alpine zone
S. of H.C. 10500 ft

13224

Festuca *calligera*
psuedonotata

Open woods near
H.C. 3/10000 ft

13225

Fort Valley S. of H.C.
Sitacium *pubiflorum*
(H.C. 10000)

Aug. 7
Open bare wood
common shrubs &c
Summit of H.C.

13226

Sitacium
longifolium

dillo - glaucous
rough - common

13227

Sitacium
puberflorum

dillo - glaucous
pubescent below

13228

Sitacium
puberflorum

dillo - glaucous
more pubescent
these 4 may be all one
species. Perhaps the glaucous
one is distinct (225)

13229

Kocheria *cristata*
One field

Open pine woods
common everywhere

13230

View of canyon Pedro

20 miles east of Flagstaff
Aug 11

Spha or *monoxilum* (PP)

High mesa

13231 *Andropogon*
virginicus (P)

13232 *Dryas*
canadensis (P)

13233 *Epilobium*
virgatum (P)

13234 *Panicum*
virgatum (P)

13235 *Muhlenbergia*
racemosa

Open pine woods
beveled cliffs
Hairs & spk whitish but turn
yellowish in drying

Wet bottom of canyon
Pine in rich moist
soil

ditto

ditto - large bristly
no rootstock or only
short ones that resemble
long worm rep into leaves

ditto

13236

Stipa
comata (P)

Rocky side of Canon
Padre / in partial
shade

13237

Argemone
microcarpa (P)

ditto

13238

Arundo
fullonica (P)

Open mesa
differs from the usual
form in numerous more
upright leaves - probably
young or much the same
common in open & new grass

13239

Myricophila
trifida
trifida

Open pine woods

13240

Arundo
arizonicus (P)

Open pine woods
low, branched - often much
stiffly ascending

13241

*Andros
divaricata* (P)

Rocky hill at "Cliffs"

13242

*Muhlenbergia
monticola*

Muhlenbergia pauciflora

Cliff & rocks on
Rocky hill at Cliffs

13243

*Bromus
Porteri* (P)
lanceolatus

Among bushes & small
trees on rocky hill at
Cliffs. Pan. best below
making above. Not so deep
as *Porteri*. *lanceolatus*
common. *Porteri* "Cliff"

13244

*Ambrosia
Stoerckii* (P)

Rocky hill at Cliffs

13245

*Agropyron
smithii* *palmeri*

Open ground at base of
rocky hill - Cliffs. *Smithii*
palmeri

13246

Arystida
virgata (P)

13247

Baccharis
jamaica (P)

13248

Arystida
gundlachii (P)

13249

Arystida
gundlachii (P)
(or *Bouclou*?)

13250

Bouclou
felipensis (P)

Set

Open mesa - Bunches
lighter colored than A. gundlachii &
the culms more flexuous & bending
to the wind. Can - Pad

Open mesa - Canyon P.

Open mesa Canyon
Palm - usual formOpen mesa - with 24 &
246. Larger than 245 & it
pan. crop. & acc. larger
Roughly
Killed by Desert Laboratory
Bunches erect, Panicea green

13251

Arctostaphylos
glabra (P)

ditto - branches
erect

13252.

Melica *Jordani*
mutica

ditto

13253

Kelaria (P)

undulata
(longifolia)

ditto - branches
erect, Sp. green
sometimes dark
Tueson, 4500 ft Aug 15

Grass - 42 miles west

13254

Boucloua

hispida (P)
hirsuta

Rocky hill

13255

Parrya (P)
halleri

Rocky hill

13256

Prodelton (P)
aristoides

Open gravel soil
near dry wash

13257

tridens (P)
pulchellus

Open mesa

13258

Aristida
burns
adscensionis

Open sandy ground
near wash

13259

aristida (P)
dwarical

Rocky hill
among brush & cacti
dry bushes, creel.

Set ✓

13260

aristida (P)
pumpkin

Rocky hill, brush
creel. Pinnules purple
rather soft.

13261

Muhlenbergia
succellens
arenicola

Open mesa

18581

13262

Helianthus
candelaria ^(sp)
sp

Open mesa
Stoloniferous

18581

13263

Aristida micrantha
(purpurea)
sp

Rocky hill ^{grass} bunch
Great bunch ~~in~~
in country where

13264

Aristida adscensum
(in brownish)

Rocky hill - common
annual but densely
up at base

13265

Yucca
saccharata ^(sp)

Along dry wash

18581

13266

Chaetochloa ^{CP}
composita

Along dry wash
among shrubs.

13267

Bouteloua
roemerianae ^{CP}

Open mesa

13268

Andropogon ^{CP}
angustifolius

Along dry wash
brush.

13269

Panicum ^{CP}
argyricum

Open gravelly soil
near dry wash

13270

Eriopogon ^{CP} *suaveolens*
(pilosus)

Dry wash

13271

Eragrostis *peruviana*

13272

Chloris viridula

13273

Muhlenbergia porteri

13274

Cloudcroft N Mex

Bromus porteri

Bromus porteri

13275

Poa howellii
of 290 *occidentalis*

Edge of dry wash

Open gravel near dry wash

Rock soil along dry wash, 7-10 inches, straggling, even perennial for some distance above crown

Open pine woods

Open place in woods - annual?

13276

Poa
hirsuta (M)

Set ✓

Open places in woods - Annual

13277

Stipa (M)
(*serotina*?)

Set ✓

Open ^{pine} woods

13278

Silene
pubiflora

Set ✓

Open pine woods
Perennial, nodding
2-4 leaves, internodes of spike
slender & elongated, weak.

13279

Aquilegia
lanceolata
pseudoregina

Set ✓

Open ground
in woods - Branches
but may produce short
root shoots

13280

Stipa
vaseyi (M)

Set ✓

Open pine woods
Large bushes

13281

Satania
longifolium

Open pine woods
stems roughish

13282

Proserpinaca
(~~frondosa?~~)
frondosa

Open pine woods
culms erect, Panicle erect
below drooping above branches
especially at lower divergence of branches
pk terete.

13283

Proserpinaca (P)
canadensis
californica
Boulenger Aug 18

Open pine woods
seems to be the same - 3/2

13284

Proserpinaca *richardsonii*
(~~frondosa?~~)

Open woods

13285

Poa
~~*acutata*~~
tracyi (P)

Open pine woods
in moist place
perennial - fruit erect

13286

Melica
perleri (P)

set

13287

Trisetum
~~*montanum*~~
montanum (?) (P)

set

13288

Blechnum
indolepis (P)

13289

Aproles *hyemalis*
(*hololeuca*)

set

branches seem to shut for a while

13290

Poa
(*near occidentalis*) (P)

set

ditto - rich soil

ditto - rich soil

Rocky slope

moist opening in woods

Rich

moist open ground - clearing
in woods. Perennial. Pan-
icle nodding, branches drooping

13291 *Elymus* *bulbosus* (P)

Cloudcroft Aug 19
13292 *Festuca* *serotina* (P)

Cloudcroft Aug 20
13293 *Panicum* *obtusum* (P)

13294 *Bromus* *frondosus* (P)

13295 *Sedum* *brevifolium*

Rich clearing 40881
Pine woods
Culm pubescent below Panicle

Open woods on hillside,
perennial - no rhizomes -
erect in small tufts
panicle below, seedling above

Open ground near
moodle

Wooded bluff 40881

Rock hill 40881
Lambert - seems different
from 278

13296

Stipa (P)
serotina
a slender form

13297

Chaetochloa (P)
viridis

13298

Chaetochloa (P)
gelayensis

13299

Dryas (P)
octopetala

13300

Sphaerophloea
obtusata

Rocky hill

88581

Open ground

88582

moist low ground

Low grassy ground
among tall weeds

Wet place

88583

13301

Sporobolus ^(SP)
cynodontus

Open ground 10881

13302

Panicum ^(SP)
anthemum

Stony hill 50881

Chenopodium (Ausz.)

13303

Poa
tracyi ^(SP)Edge of woods
a short specimen

13304

Atriplex ^(SP)
unbornAlong desert
sands, a few bare leaves
no flowers

13305

Lepidosiphon ^(SP)
hanceiOpen ground in
valley 50881

13306

Bromus carinatus
(*polystachyus*
paniculatus)

Edging bot field
panicled drooping

13307

Bromus carinatus
delle

Seems to be same
as 306 but larger.
young with it, lower
branches reflexed.

13308

Sporobolus (R)
confusus

Open grass land in new
soil.

13309

El Paso - Tex. Aug 23
Distichlis &
Spiral (R)

Near Smelter
Bank of Rio Grande

13310

Sporobolus (R)
neglectus
Small form

Low mesa along
valley of Rio Grande
about 2 ft high
this form is common.

13311

Sporobolus
flexuosus (P)Valley mesa
a small-pinnated form

13312

Sporobolus
wrightii (P)Valley mesa - Large
clump - very tough brown
tall form.

13313

Sporobolus
aroides (P)ditto with 312 + 310
pinnate more diffuse, the
branches not spike like

13314

Andropogon
argenteus (P)

13315

Diplopilus
puber (P)Low ground in valley
mesa

13316 *Proculiteria*
unopoda (P)

Valley mesa

13317 *Sporobolus*
strictus (P)
Set ✓

Valley mesa
spike thin or stout - often
in rather large clumps (50 culms)

13318 *Aristida*
truncata (P)
Set ✓

Valley mesa - large
tufts - erect, very long heavy
crown in the large clumps.

13319 *Sporobolus*
flexuosus (P)
Set ✓

Valley mesa - small to
medium tufts - mostly 5-10 culms

13320 *Chaetochloa*
compressa (P)

Low ground in Valley mesa

13321 Muhlenbergia
porteri (P)

13322 Pleuraphis
mutica (P)

El Paso, Tex Aug 27

13323 Eriogonum
(pilosum) (P)

13324 Andropogon
laxiflorus (P)

13325 Girardinia
polytricha (P)

Valley mesa

Valley mesa

Wood in field

Sandy valley

Sandy valley
panicum spicatum
branchy appressed
seeds 2 in seeds 326

annual

13326 *Smicelobos* (H)
polytrachys

13327 *Panicum* (H)
barbipulem

13328 *Leptochloa* (H)
gossypifolia

13329 *Chlorobolus* (H)
glaucescens

13330 *Chlorobolus* (H)
glaucescens

Sandy valley the
usual form with open
mossy branches some-
what spreading, seems to be 325

Sandy valley

Low ground in valley

Low ground along
river, drier. A common
form - erect.

delt - a large form
of 325

13331

Edinacloa
glazensis (P)

ditto - a form with
more spreading panicle

13332

Edinacloa
polytachya (P)

Low ground in valley
as slender form

13333

Paspalum
hirticavum (P)

Open sandy ground

13334

Cenchrus
(carolinensis) (P)

Sandy open ground

13335

Arystida *adscensum*
(bromoides)

Open ground in old
field. Annual

13336

Sperobolus
cryptandrus (P)

W

Sandy ground - old
field.

13337

Boerhaavia
barbata (P)

Open sandy ground
old field.

13338

Leptochloa
gelizorum (P)

Open sandy
ground.

13339

Clitoria
plifera

virgata

Open sandy ground
a common street weed

13340

Echinops
gelatus
virgatus

Along ditch, some-
what common but seems
to be new - 325-331

13341

Paspalum (P)
distachyon

Along ditch
common along river,
ditches.

13342

Big Spring, Tex, Aug

Arundo (P)
microcarpa

25

Mesa. Foliar fine
of culms closer than
a. purpurea.

13343

Eragrostis (P)
verticillata

Mesa - culms &
heads glaucous

13344

Bulbuz (P)
dactyloides

Mesa

13345

Arizida wrightii

Mesa - red perennate
does not seem to be wrightii
of Arizona

13346

Muhlenberg
grecillina?
arenicola

13347

Bouletou
lyana

13348

Panicum
hallii

13349

Aristida
purpurea

13350

Andropogon
sessilis
mature panicle

Mesa - common

Mesa

Mesa

Mesa - very common

Mesa

13351

Aristida wrightii
= 845?

13352

Cudrania *caroliniana*

13353

Sporobolus
cryptandrus

13354

Andropogon argutus

13355

Boerhaavia
barbata

Mesa

13351

Sandy mesa

13352

Sandy mesa

13353

Mesa in depression

Mesa

13355

13356

Panicum ^{OK}
peruvianum

Mesa

85881

13357

Bouteloua ^{OK}
eriopoda

Mesa

85881

13358

Panicum ^{OK}
calatissimum

Mesa

85881

13359

Brauneria ^{OK}
dessempren

Mesa

85881

13360

Muhlenbergia ^{OK}
porteri

Mesa

85881

13361

Chloris
ventralis (MP)

13362

Chaetochloa
~~*ventralis*~~ *viridis* (MP)

13363

Amida
purpurea (MP)

13364

Amida
purpurea (MP)

13365

Leptochloa
viridis (MP)

13366

Chloris
ventralis (MP)

Musa

13361

along ditch

13362

Musa

13363

Musa

13364

Musa

13365

Musa

13366

13367 *Panicum* ^{PP}
berberipolans

Kes

13368 Sudan
Andropogon sudanensis

Cult. at Exp. Sta.
Mature panicle
Annual, branching from
base and lower nodes.
The same but a flowering
panicle.

13369 Sudan grass
Andropogon sudanensis

13370 *Boerhaavia* ^{PP}
hirsuta

Sandy area

Big Spring, Aug 26
13371 *Sporobolus* ^{PP}
aureolatus

Alkali open ground

13372

Sporobolus
argutus (AP)

Dry ground
along street

13373

Arctida
renaculum (AP)
Set

Rocky hill.
large street bushes

13374

Andropogon
salicifolius (AP)

Bank of wash

13375

Andropogon
glaberrimus (AP)

Rocky hill

13376

Chaetochloa
compressa (AP)

Bank of wash

13377

Arctostaphylos
(*purpurea*)

mesa
dry canyon
villages at throat.

13378

Arctostaphylos micrantha
(*purpurea*)

shorter canyon mesa
not villages with trees

13379

Arctostaphylos
laevifolia

mesa in mesa

13380

Arctostaphylos
adscensionis

along dry ditch.
from bottom, local colors
(may be same as Arizona species
near brownish).

13381

Sporobolus
cryptanthus

mesa

13382

Staph.
lineolata (P)

Ursus

13382

13383

Vatuli
saccharata (P)

13383

13384

Ena
Bellandieri (P)

Along street of Big
Spring, Louisiana
a street to the
well.

13384

13385

Sporobolus
curvatus (P)

well.

13385

Ursus

13386

Halimolobos
halimolobos (P)

Street, along ditch

13387 *Sclerophyon* ^(P)
green glaucous
pistillate

North fork Concho - 4 miles

13388 *Arctostaphylos*
wrightii

13389 *Fiducia*
reflexa

13390 *Tridax* *pilosa*
pilosa
(*densus a lat.*)

13391 *Schizoneurum*
pinnatifidum ^(P)

Althaea open
ground.

near of Sterling, Tex. Aug. 27.
Mesa

Mesa - Annual common
early species, all culms stiff
the panicle branches and glumes
stiff & very

Mesa

Mesa

13392 *Erioclon* *sericea*
longifolia

Open woods
along stream

13393 *Sporobolus* *auriculatus* (CP)

Somewhat alkaline
mesa, spreading

13394 *Bidens*
elongatus

Moist place on
mesa

13395 *Panicum*
(plenum) (CP)

13396 *Tripsacum*
dactyloides (CP)

Open woods (Pecan, Soapberry
& near stream, rather sandy soil,
guzarinos over embankments
culms decumbent & leafless below
foliage bluish. Pan. fragile, stiff
sp. seems to be mostly sterile
strong root stocks - Culms fragile

Open woods along stream

13397

Chaetochloa

macrostachya

✓
set

Open woods along stream.
rich moist ground in large bushes.
erect at first erect but later
often decumbent at base, blades
erect.

13398

Cucumis

carolinianus

ditto

13399

Colymbella

crusgalli

ditto - the only plant
seen

13400

vidua

albescens

✓
set

Open woods along
stream, small or large
leaves.

13401

Chaetochloa

villosissima

ditto - only a few plants
seen - the others sterile

13402 *Panicum* ^{CP}
fasciculatum

ditto

13403 *Hemiboea*
virginiana

along bank green
stems

13404 *Elymus virginicus* ^{CP}

low ground open lands
along stream

13405 *Muhlenbergia*
(*capitata*?)
foliosa

along stream

13406 *Chaetochloa*
glauca
lutescens

open woods along
stream

13407

Panicum (P)
(reunion)

Big Spring, Tex.

13408

Aristida
adscensionis

13409

Sporobolus (P)
auriculatus

Set ✓

13410

Bouteloua trifida

13411

Panicum (P)
halleri

Set ✓

Mesa

Aug. 28

Open sandy-clay soil along
well - appears to be annual
probable = 350

Open, somewhat low
ground on mesa - decan-
nat, long rhizomes.

Mesa

Mud in sorghum field
on mesa

13412

*Panicum
abundans* (P)

Low place in
wash among the hills

13413

*Lycium
flavum
phleoides*

Rocky hill

13414

*Gutierrezia
mucronata* (P)

Rocky ravine

13415

*Leptochloa
aurea* (P)

Rocky hill

13416

*Gutierrezia
pubescens* (P)

Rocky hill

13417

Thymus ^{AP}
canadensis

Rocky ravine 11481

13418

Draba ^{AP}
purpurea

Rocky ravine 11481

Set ✓

near *purpurea*

13419

Arizida ^{AP}
virgata

Rocky ravine 11481

Set ✓

13420

Erigeron ^{AP}
philadelphicus

Mud along stream
pond - spring like

13421

Lupinus
pusillus ^{AP}

Field along stream

El Paso - Aug. 30

13422

Aristida *revuechiana* (P)

13423

Sporobolus *strictus* (P)

13424

Aristida *ascensiana*
(brevifolia)

13425

Sporobolus *gleysonii* (P)

13426

Chaetochloa *composita* (P)

~~R~~ocky hill

13421

Mesa

13420

Wash in open ground
annual. common. This a
large specimen. Culms strong
loose & purple at base.
Along banks of wash
and in valley at foot
of hill. common.

Common part of gulches
and in valley at foot
of hills.

13427

Aristida
monclera (P)

Rocky hill - rather
dense rounded form.

13428

Aristida ^{wrightii}
~~*micrantha*~~

Base of hill along
ravine.

13429

Vidua
pulechella (P)

Mesa - common

13430

Vidua
multica (P)

Mesa (or rocky hills)
common

13431

Aristida
scabra (P)

Lower part of gulches
in rocky hill - frequent
at these places.

probably *A. densa*
seems smaller than *Aristida*
scabra

13432

Panicum AP
arizonicum
 Set

gravel in lower part of
 gulch of rocky hill,
 annual.

13433

Bouteloua AP
ambigua
 Set

ditto

13434

Bouteloua AP
trifida
 Set

Mesa - often in large
 fairy-ring bunches.

13435

Heteropogon AP
californicus
 Set

Rocky meadow
 common, great narrow
 bunches.

13436

Muhlenbergia
(monticola)
monticola
 Set

Rocky hill.

13437

Arctostaphylos (P)

Set 477 (variegata?)

13438

Arctostaphylos (P)
rumicarpa?

13439

Arctostaphylos (P)
(variegata?)

Arctostaphylos n. Mex. Aug. 31

13440

Echinococcus crassigalli
(*glaucescens*)

13441

Sporobolus (P)
cryptanthus

mostly enclosed panicles

and *A. dissecta* Johns

Moss at base of
hill. Panicle rather
open, the branches some-
what spreading

Rocky hill

Moss at base of hill
taller than the common
species here.

Along street

Open dry ground

13442 *Andropogon*
argenteus (P)

Open ground - dry
shallow ditch - com-
mon. Growing with 4/3

13443 *Andropogon*
laevis (P)

ditto - common

13444 *Leptochloa*
distachya (P)

Open ground - ditto
This dry ditch is more
moist than the surrounding
mesa where it is common

13445 *Panicum*
hottelii (P)

ditto

13446 *Schedonarda*
paniculata (P)

ditto

13447

Agrostis
havanensis (P)

13448

Agrostis
peruviana (P)

13449

Muhlenbergia
guellichii
arenicola

13450

Chloris
viridis (P)

13451

Cynodon
dactyloides (P)

ditto - culms 7 leaves
stiffly erect & ascending
~~erect~~ or even spreading
Panicle divaricate, rigid, easily
detachable when mature

ditto

ditto

along R. track - a
weed

weed along R. track

13452

Dicellaea (sp)
polystachya
paniculata

Mud along R. Truck

13453

Euphorbia (sp)
(fulva)

Mud along R. Truck

13454

Spergularia (sp)
arvensis

Dry shallow ditch

13455

Chloris (sp)
verticillata

ditto

13456

Aristida (sp)
(virgata)

ditto

13457

Artemisia *wrightii*
(crumplehorn)

della

13457

13458

Videa
albescens

della

13458

13459

Muhlenbergia
gracillima

Mesa on way to Arlee
40 miles. Conf. plants. If
all are *M. gracillima* dis-
card

Carlsbad N. Mex. Sept 1

13460

Chloris
cucullata *sp*

Mesa

13460

13461

Videa *albescens*
(cyan)

Mesa - small bunches
culms erect

set

13462

Sporobolus
ureguensis (P)

Mesa near river

13463

Arifida
purpurea (P)

Mesa

13464

Tridens

Set. *Tridens pilosa*

Mesa - tufted - erect

13465

Sporobolus
enclaudrus (P)

Mesa - a slender form

13466

Arifida
hawaiiensis (P)

Set

Mesa - often in large
bunches, culms stiffly
ascending, or spreading in large
bunches forming a leaning
mass. Panicle sharply divaricate

13467

*Scleropezom
renifolius* (P)
♂ & ♀

Mesa

13468

*Pappogon
whitei* (P)

Mesa

13469

*Scleromunda
paniculata* (P)

Mesa

13470

*Chloris
verticillata* (P)

Mesa

13471

*Sporobolus
annuus* (P)

Mesa

13472

Muhlenbergia
guttata
arenicola

near

13473

Sporobolus
asperifolius

Along irrigated ditch

13474

Leptochloa
fascicularis

along irrig. ditch

13475

Triclisia
polytrachys

Weed in alfalfa field
Annual - purple spikelets

See

13476

Leptochloa
umbicata

13477

Chloris
negata (P)
set

Ward in alfalfa field

13478

Pleuraphis
mutica (P)

Mesa among
mesquite

13479

Aristida
wrightii (P)

Mesa

13480

Aristida *adscensionis*
(breviflora)

Mesa

13481

Aristida
pedunculata (P)

Mesa

13482

Muhlenbergia
porteri (P)

Mesa among
mesquite bushes

13483

Sporobolus
texana (P)

Mesa - large
bushes - culms branching
& spreading forming a dense
& spherical mass. Branches
finally breaking away.

Set
v

13484

Bouteloua
hirsuta (P)

Mesa

13485

Bouteloua
barbata (P)

Mesa

13486

Muhlenbergia
muticola

Among stones in dry river
bed

13487 *Eragrostis*
umbellata
villosa

Many stores in old
river bed

13488 *Eragrostis* (palea) (P)

ditto

13489 *Chaetochloa*
composita (P)

Mesa

13490 *Panicum*
halleri (P)

Edge of alfalfa field

13491 *Echinocloa*
villosa (P)

Edge of many ditches

13492 *Helincoloba*
zelayensis

Carlsbad Sept 2

13493 *Bordelon*
enripoda (P)

13494 *Aristida*
adscensionis

13495 *Sporobolus* (P)
flavus

13496 *Aristida* (P)
purpurea

Along irrig. ditch
smaller than 891 &
less awns.

Mesa

Mesa - annual

Mesa

Mesa

13497 *Sporobolus*
striatus
giganteus

Queen - at Rancho

13498 *Stipa*
tenuicaulis *sp*
sp ✓

13499 *Muhlenbergia*
condensata
sp ✓ *Muhlenbergia pauciflora*

13500 *Eriocarpus*
sp ✓ *Muhlenbergia*
Muhlenbergia emersleyana
a part of the
maritima

13501 *Andropogon* *sp*
fasciatus
(pubescent)

Sand hills

Station - Sept. 3 - 6-7000
ft

Open pine woods

Rocky hill

Rocky hill in large
brush, along creek, sandy,
breaking at node in base

Rocky hill

13502

Stipa
scribneri

7+20
50

13503

Tridax
petraea (P)

13504

Bouteloua
gracilis (P)

13505

Suaeda
pubiflora

13506

Sorghastrum
nuttallii (P)

Rocky hill

Rocky hill

Rocky hill

Rocky hill - heads
drooping - same as
cloud crop species

Rocky hill

13507 *Muhlenbergia*
set *Muhlenbergia setifolia*

13508 *Stephanandra*
(*rumicoma*) (P)

13509 *Andropogon* (P)
muticus

13510 *Erigeron*
set (*caeruleus*?)
erosa

13511 *Onoseris* (P)
set (*gambelii*)

Rocky hill - ~~under~~
large bushes (along
rims)

Rocky hill

Rocky hill

Rocky hill

Rocky hill under
pines

13512 *Brouetia* ^{sp}
multispinulata

Ricky hill

13513 *Leptocarpus* ^{sp}
duria

26 #
Set

Ricky hill

13514 *Lycium* ^{sp}
plumieri

Set

13515 *Andropogon*
argenteus ^{sp}
apparently, but not
known

Set

13516 *Bouletia*
hirsuta (P)

Ruby Hill 1178

13517 *Parsonsia*
halleri (P)

ditto 1178

13518 *Andropogon*
sempervirens (P)

ditto 1178

13519 *Muhlenbergia*
acuminata
24 + 27
St ✓

ditto - in a 1178

small wash

13520 *Chaetochloa*
(presburchii) (P)
4 + 23 + 10
St ✓

Weed in garden
annual

13521 *Agropyron*
erectum (P)

Low place in wash

13522 *Agropyron*
argenteum (P)

Wash in hills

13523 *Eriogonum*
repens (P)

Wash in garden

Queen-Ranger Station Sept 4

13524 *Eriogonum* *erosa*
erectum

Rocky hill

13525 *Arizide* *cradscensium*
(Remarks)

13526 *Paspalum* (P)
distichum
pubescent

Weed in field

13527 *Panicum* (P)
obtusum

Low plant in weed

13528 *Aristida* (P)
Set (divaricate)
small form

Low many flower in weed
long slender, long stiff
spreading or ascending

13529 *Eragrostis* (P)
(pilosa?)

Weed in garden
prostrate spreading or
ascending

13530 *Eragrostis* (P)
ciliata

Weed in garden

13531 Sporobolus
cryptandrus

Open grassy land

13532 Andropogon
carolinensis

13533 Elymus
canadensis
S. *tanian brevifolium*

Below rocky stream

13534 Panicum
bulbosum

From rocky stream

13535 Euphorbia
(Erosa?) *virgens*

Rocky hill

13536

Leptocarpus
cognatum (OK)

Rocky hill - 01111

13537

Muhlenbergia
(polyanthus)
Muhlenbergia pauciflora

Rocky hill - Period
green in bud &
purple

13538

Bromus
perian (OK)

Rocky woods 01111

13539

Panicum
helleri (OK)

Rocky hill
much narrower - an
occasional form 01111

13540

Queen Range Sta
Sept 5
Muhlenbergia
(affinis) *berlandieri*

Rocky ravine

13541 *Episcopus*
stricta
(mud-colored) in rocky

Rocky ravines - Like
no. 500, but auricles - Plum
more open & more purplish

13542 *Panicum* *RP*
bulbosum
Scirpus

Rocky ravine
in common form.

13543 *Festuca* *RP*
arizonae

Rich of canyon near
top of ridge - only seen
in this locality

13544 *Panicum* *RP*
capillare

near a pool in canyon

Orthopogon *arizonae*
Queen River Station Sept 16

Upper part of Dark Canyon

13545 *Muhlenbergia*
(acuminata)
acuminata

Pine woods - on Ridge at
head of canyon

13546 *Sitamon*
brevifolium

ditto - Hand erect
seems like the flagstaff
specimens

13547 *Muhlenbergia*
scabris
tufida

ditto

13548 *Festuca*
arizonica (P)

Blepharoneuron
13549 *Blepharoneuron* (P)
bulbosum

ditto

13550 *Agrostis*
parviflora (P)

near pool in canyon

13551 *Muhlenbergia*
(*sp. ?*)
wrightii

low ground in
canyon

13552 *Portulaca*
procumbens (P)

broader form
around cabin

13553 *Stipa* (P)
pinnatifida

set) not found?
first in clumps

Rocky woods
aspect of *argyrea* pin-
nata (511) but black
anthers & spike longer etc.

13554 *Arundo* *arvensis*
(*arvensis*)

Elsewhere more common
in canyon - dense clump
knobs - Is this different from
the slender spreading form?

13555 *Munroa* (P)
sp. ?

ditto

13556 *Agrostis* ~~*stolonifera*~~ ^{*PK*}

Around pool in
canyon

13557 *Eragrostis* ~~*pilosa*~~
(probably small form
of *E. mexicana*)

Wet sand around
pool. The specimen
with open panicle growing
with the others.

13558 *Muhlenbergia*
~~*affinis*~~ ^{*landieri*}

Open grassy
large bunches - panicle purple
when opening wide.

13559 *Aristida*
~~*brunneicaulis*~~
^{*ochrochorda*}

Open tundra ground
in canyon

13560 *Muhlenbergia* ~~*depressa*~~ ^{*PK*}

Open shallow rocky flat
soil in bottom of canyon

13561 *Echinocystis*
eris palli

Weed in field
plants all tall, long
dark purple - no leaves

13562 *Muhlenbergia*
(arizonensis)

mesa - open ground
on ridge - stems to
dark green or red patch due
to red panicle - not grass-like
green
El Paso

13563

Muhlenbergia
(arizonensis)
gracillima
mesa to west of
Quintana Roo, -
70 miles from

13564

Baccharis
microphylla (P)

See 577

13565

Arundo
donax (P)

13566 *Baccharis*
opulenta (P)

Spikes 5-8, yellowish
instead of dark
common form here

13567 *Spergularia*
glabra (P)

13568 *Antida* *adscensum*
lanceolata

13569 *Pappophorum*
longifolium (P)

13570 *Muhlenbergia*
peruviana (P)

13571

Sclerophyllum ^(P)
brunneum

♂ & ♀

13572

Meibomia
guelletii
arenicola

13573

Brutellum ^(P)
guelletii

13574

Meibomia
guelletii
arenicola

13575

Sprucellum
annulatum ^(P)

growing round of
a large sandy ring
branch

13576

Brizopyrum *humboldtii* (P)

Continental grass 562

13577

Brizopyrum *crispum* (P)

13578

Stipa *neomexicana*

13579

Muhlenbergia *acutissima* (P)

Mesa - Sept 11. Campus 4

13580

Amphipogon *(dyscranus?)*

52

Eragrostis snowdenii

Mesa

Mesa

Mesa

University

Swale along road, across
with *E. pilosa*.

13581 *Pappalium*
~~resplendens~~ *resplendens* (M)

ditto but scarcely
in mud.

13582 *Najas*
recurrens

a weed. Usually
abundant but rare
this season.

13583 *Sclerobolus*
foligosus

Weed around trees
where ironed.
Insects removed.
all over the ground. Spec
all over but then not in
clumps.

13584 *Eriochloa* *polystachya*
[3] weed on campus
univ

13585 *Eragrostis*
[3] weed on campus
univ

Packages Sent

- 1 - San Jose
- 2 - Willits
- 3 - "
- 4 Yosemite
- 5 " "
- 6 San Diego - July 28
- 7 " " Aug 2
- 8 } Flagstaff
- 9 } Coronado Exp. Sta
- 10 } "
- 11 } "
- 12 } "
- 30 13-16 Cloudcroft Aug 23
- 17 El Paso Aug 24
- 18-21 Big Springs
- 22-24 Carlsbad Sept 7
- 3 25 El Paso Sept 9
- 26 Del Rio " 14
- 27 " " " 12

Brownie lions
 - Brownie village
 Cleveland East

117 sets up to Sept 10 except
 several at Tucson with
 one number.