

A. S. Hitchcock

225

225

225

225

42

Fossil No 1525-14869

La Florida, Bolivia

Optunia *maxima*

22619 *Optunia*

Wetland, steep bank
shady bank

fls

22620

Optunia (potted)

shady bank, small plants

22621

Optunia

shady bank

fls

Muhlenbergia tenuisima
22622 *Muhlenbergia*
Annual, near cut

Eragrostis buchtienii
22623 *Eragrostis*
Near bank

Paspalum paniculatum
22624 *Paspalum*
Open ground along trail

Axonopus stuppeus
22625 *Axonopus*
Open ground along trail
Pennisetum small and sparse

Pennisetum
22626 *Pennisetum*
Near place

Paspalum paniculatum
22627 *Paspalum paniculatum*
Wet grass land

Sporobolus heterostachyus

22628 *Sporobolus heterostachyus*
Grassy slope

Lebrunolacium polytachya

22629 *Lebrunolacium polytachya*
Shady moist place

22630

Shady bank, frequent but sterile
in all areas - note sagittate blades

Helianthus scaberrimus

22631 *Helianthus scaberrimus*
Shady bank

Aplisomenus hirtellus

22632 *Aplisomenus hirtellus*
Shady bank

Paspalum conjugatum

22633 *Paspalum conjugatum*

Chloris paniculata
22634 *Chloris paniculata*
Among rocks

Chloris distichophylla
22635 *Chloris*
Open ground

Andropogon condensus
22636 *Andropogon condensus*
Among rocks, small forest

Andropogon condensus
22637 *Andropogon condensus*
Among rocks

Panicum stipitatum
22638 *Panicum stipitatum*
Among rocks, straggling

Andropogon condensus
22639 *Andropogon (brutiflorus)*
Among rocks

22640

Paspalum ^{*puberulum*}
Paspalum (uncultiv.)
Branches straggling, small
bank

22641

Zizania ^{*puberula*}
Zizania (pallens)
Shady bank

22642

Azadirachta ^{*albicaulis*}
Azadirachta leucostachya
Sandy slope

22643

Paspalum ^{*peruvicum*}
Paspalum
River bank, place

22644

Eragrostis ^{*pilosa*}
Eragrostis (pilosa)
Field in garden

22645

Chenopodium
Chenopodium
Amaranth, cultivated for seeds.
Some purple, some yellow

Chactochiton gemmatus
22646 *Chactochiton gemmatus*
Open grassy yellow grass
with long bristles

March of the species, low at the
base of grass in patch with short
bristles (Panicum grass)
and yellow grass & long bristles grass
are also found.

Panicum
22647 *Panicum*
Shady slope

Paspalum leucostachyum
22648 *Paspalum leucostachyum*
Grassy slope, common
Woolly whorl and little-branched
may be *P. subuloides* common



Chulumani, Dec 22
Chulumani 1600 M

22649 *Phaseolus*
Open grassy ground

Gomphrena obtusifolia
22650 *Gomphrena*
Sunny bank

Andropogon
22651 *Andropogon* var. *aequalis*
Sunny slope

22652 *Lasiacis sorghoides*
Edge of forest

22653 *Panicum*
Bushy slope

22654 *Leptochloa stragelosa*
Open ground

22655 *Rytidocarpus granularis*
Meadow field

22656 *Stenopogon*
Sunny slope

22657 *Leptochloa capillaris*
On adobe wall

Andropogon distichus
22658 *Andropogon distichus*
Grassy slope

Andropogon distichus
22659 *Andropogon distichus*
Grassy slope

Andropogon distichus
22660 *Andropogon distichus*
Moist shady place

Pennisetum setosum
22661 *Pennisetum setosum*
Among bushes

Pennisetum setosum
22662 *Pennisetum setosum*
Grassy bank

Chloris chrysochrysa
22663 *Chloris chrysochrysa*
Open ground

22664 *Paspalum leucomeris*
Open ground

22665 *Paspalum leucomeris*
Open ground sunny place

22666 *Paspalum leucomeris*
Sunny moist place

22667 *Panicum laeyense*
Moist place
Large grass

22668 *Panicum laeyense*
Moist place

22669 *Panicum laeyense*
Shady moist dry place

22670 *Dichanthus cordicans*
Dichanthus
Shady place

Bambusa distachya
22673 *Bambusa distachya*
Wet bank

22671 *Arundinaria compressa*
Arundinaria
Open moist place

Syntherisma chinensis
22674 *Syntherisma chinensis*
Wet bank

Jump to
Continued from 22697

Cortispa see 23 Nov-Yungas

22672 *Paspalum*
Paspalum
Amores, shrubs - Millaguaya 1380 M

Paspalum abrotanifolium
22675 *Paspalum abrotanifolium*
Grassy moist place

22676 *Agrostis coronalis* Rindl.
Grass
Dry grassy slope

22677 *Chloris distachya*
Willow
Wet in field

22678 *Heteropogon radiatus* Presl
Grass
Grassy slope

22679 *Chloris radiata*
Open grassy slope

22680 *Eragrostis lugens*
Grassy bank

22681 *Eragrostis peruviana* Desf.
Dry bank

Eragrostis tenuis
22682 *Eragrostis*
Low open ground

Gynostemma sagittatum
22683 *Gynostemma* *Sagittatum*
Low ground

Tropaeolum tuberosum
22684 *Tropaeolum*
Sandy bank

Chaetochloa
22685 *Chaetochloa*
Shrubby slope

Paspalum
22686 *Paspalum* *sacchariflorum*
Shrubby bank

Pennisetum
22687 *Pennisetum* *sabatium*
Shrubby bank, several short
specimens taken in specimens
Pennisetum

22688 *Cenchrus ciliaris*
Wet field

22689 *Chloris sphaerostyla*
Wet field

22690 *Chloris sphaerostyla*
Wet field

22691 *Paspalum conjugatum*
Wet field

22692 *Leptochloa tenuis*
Wet field

22693 *Chloris sphaerostyla*
Wet field

22694 *Paspalum conjugatum*
Grassy bank

22695 *Oplismenus hirtellus*
Shrubby bank

22696 *Poa bengalensis*
Moist grassy place

from 22670 *Chloris* (continued)

22697 *Panicum rugelii*
Shrubby bank

22698 *Chloris*
Open ground along trail

22699 *Panicum*
Shrubby bank

Acropora scoparium
22700 *Acropora subulnosa*
From a well, full of
this called Cachi

Acropora
22701 *Acropora*
Sub of *Acropora*
Family *Acropora*
Acropora

Acropora
22702 *Acropora*
Dry grassy hill

Acropora
22703 *Acropora (pilonum)*
ditto

Cyrtopogon
22704 *Cyrtopogon (nucleus)*
ditto

Acropora
22705 *Acropora (near saellance)*
ditto

22706

Sclerophorum
Grassy slope

22707

delle

Andropogon

22708

delle

Eragrostis lugens
fragrans

Panicum virgatum

22709

Andropogon
Shady place

22710

Eragrostis lugens
Grassy slope

22711

delle

Andropogon

22712

Polypodium polypodioides
Dyssonium, sub cordatum
Moist shady place

Coroico Dec. 25 alt
1560 M

22713

Apteris nemus?
Rocky cliff

22714

Chaetochloa montana
Chaetochloa (poiteau group)
Shady bank

22715

Schizanthus serotina
Schizanthus
Shrubby bank

22716

Asplenium
Open grassland

22717

Chaetochloa tumida
Chaetochloa
Open place among rocks

22718 *Paspalum decumbens*
Pasp. decumbens
Shrubby bank

22719 *Chaetochloa*
Chaetochloa
Shrubby bank

22720 *Allyp*
Allyp
Shrubby bank

22721 *Tripsacum dactyloides*
Tripsacum
Among shrubs

22722 *Paspalum*
Paspalum
Open ground

22723 *Paspalum collinum* n. sp.
Pasp. collinum
Grass among plants

22724 *Arundo donax*
Arundo donax
Moist ground. Shrub

Stems that are flowering
have been seen in the field
in which abundance along river banks

22725 *Chrysomela*
Chrysomela
Abundant in the forest but shrub

22726 *Paspalum lepidum*
Paspalum lepidum
Open ground

22727 *Eragrostis lugens*
Eragrostis lugens
Open sunny slope

22728 *Paspalum (Strepus?)*
Paspalum (Strepus?)
Sunny bank

22729 *Pennisetum*
Pennisetum
Flowers culms branched, as noted
as 20 feet tall. (Stems shrub
in a preceding number)

22730 *Paspalum distachnum*
D.H. family of Finca San José 15th 1931

22731 A plant cult. at
Finca San José in the hills. These
plants are used for weaving
mats for hats &
bags
Collec. Jamaica

Panicum microcarpum
22732 *Panicum*
shrubby plant

Stenopogon campyloctenium
22733 *Paspalum* (Luzerne?)
grassy bank

22734 *Paspalum*
grassy bank

Utricularia elongata
22735 *Polygala*
moist place

22736

Clitoria
Open ground

Clitoria hirsutifolia

22737

Smilax
Moist open ground

Smilax

22738

Panicum
Shrubby bank

Panicum

22739

Schizanthus
Shady bank

Schizanthus

22740

Centropogon
Open place among shrubs

Centropogon

22741

Schizanthus
Shrubby bank

Schizanthus



Bella Vista. Dec. 26

22743 *Chrysopsis*
at Mondavil Culms straggling
10 ft
= c

22743 *Chrysopsis*
Slender Culms as much as 30 feet

22744 *Chrysopsis*
Slender Culms 10-15 ft.

Chrysopsis

22745 *Chrysopsis*
Slender. Same as the leaves that
appear in 22744? Common

22746 *Chrysopsis*
Culm (fertile) 20 ft. more erect
= d

22747 *Chrysopsis*
Same as 22742 but from
higher strata

22748

Chrysomela delicatula
Chrysomela

Fertile culms long slender often
branched, decussate or verticillate,
as much as 10 ft
= b

22749

Chrysomela delicatula
Chrysomela

Stems
apparently appressed
as much as 2 ft

22750

Chrysomela delicatula
Chrysomela

Fertile culms long decussate slender

a

22751

Chrysomela delicatula
Juncus - Sancti
more slender than

22752

Chrysomela delicatula
ditto *Parviflora*

22753

Chrysomela delicatula
Chrysomela
more slender of 22748

22754 *Poa horridula*
Moss bank

Agrostis nuttiana
22755 *Agrostis*
dotted

Agrostis peruviana
22756 *Melica*
dotted

Agrostis nuttiana
22757 *Agrostis*
dotted

Panicum
22758 *Bambusa?*
Frequent on shady banks
but sterile

Poa myosuroides
22759 *Poa*
Moss bank

Purple Sea 27 3639 M. alt
Festuca myzella
22760 *Festuca (Lewynensis)*
Open ground

22761 *Poa* *Stenactis*
moist grassy bank

Bromus pinnatus
22762 *Bromus*
delle

Andropogon scoparius
22763 *Andropogon scoparius*
Open ground

Agrostis halimifolia
22764 *Agrostis*
Grassy hill

22765 *Poa* *Poa caudamoana*
moist grassy bank

22766

delle

Altoprocyon attemeratus
Altoprocyon

22767

delle

Prodelphinus cristatus
Musium (Spermatum)

22768

delle

Altoprocyon attemeratus
Altoprocyon

22769

delle

Poa Pa candamara

22770

delle

Altoprocyon attemeratus
Altoprocyon

22771

Altoprocyon attemeratus
Altoprocyon

22772 *Paspalum pygmaeum*
Paspalum
Open ground

22773 *Paspalum*
Moist slope

22774 *Poa asperiflora*
Dry hill

Festuca rubra
22775 *Festuca*
Dry hill

Trisetum
22776 *Trisetum*
Dry hill 422762

Stipa
22777 *Stipa*
Dry hill

22778 *Festuca scirpifolia*
dry hill

22779 *Agrostis*
dry hill

22780 *Portulaca oleracea*
dry small stream

Agrostis alba
22781 *Agrostis*
ditch

22782 *Poa*
ditch

Agrostis
22783 *Arctium*
dry slope

22784

Agrostis stolonifera

Open ground along ~~By~~ end 1922

100g
m
1924

Station on Puy-Locke-Baranca
Jan 3

22785

Stipa cela (synonym)

Bunch on dry slope

22786

Distichlis atropurpurea

7 specimens
The commonest bunch (grass) at
12000 ft on dry slope
3640 M

22787

Sporobolus argutus

Wet place - Argued South of
Cachabamba

Colombia

22788

Chloris

delle

22789

Chloris

delle

22790

dillo

Paspalum distichum
Pasp. distichum

22791

dillo

Syntherisma
Syntherisma

Colobanthera, fam 4

22792

Along small ditch

Polygala
Polygala

22793

dillo

Paspalum distichum
Pasp. distichum

22794

Edge of field

Andropogon saccharoides
Andropogon saccharoides

22795

dillo

Paspalum Humboldtianum
Pasp. (Humboldtianum)

22796 *Chloris polydactyla*
Edg. - pulch

22797 *Chloris polydactyla*
dillo - is this difference from 22796

22798 *Eragrostis sudanensis*
dillo - meadows
perennial

Stipa pennsylvanica
22799 *Stipa pennsylvanica*
dillo

Stipa pennsylvanica
22800 *Stipa pennsylvanica*
dillo - a large bush

Sporobolus elongatus
22801 *Sporobolus elongatus*
dillo

22802
delle

Chenopodium peruvianum
Chenopodium peruvianum

22803
delle

Chenopodium
Large bushes

22804
W. side of field, common

Tragus

Echinochloa crusgalli
22805
delle

Echinochloa crusgalli

22806
Edge of field. Large bushes
more or less straggling

Cyneloxys

22807
Along irrigation ditch

Paspalum

Palmaria

Asplenium striellatum

22808

delle *Polygonum*

Chloris Repens

22811

Chloris
dry open ground

Bouteloua curtipendula

22809

Bouteloua curtipendula
dry slope

Stipa sp.

22812

Stipa sp.
Along irrigation ditch

Stipa sp.

22810

Stipa sp.
Along irrigation ditch

Polygonum elongatum

22813

delle *Polygonum*

Jan. 5

Went on steamer from
to Santa. Then mt. ch
hills to the north & back
to Quilapallo nr. of Cocha
Bambusa

22814 *Trisetum*
Along an irrigation ditch

22815 *Calligonum* & *Quercus* *lanceolata*

22815 *Lycopodium*
Bank near irrigation ditch

22816 *Chloris*
ditto

22817 *Arundo adscensionis*
Open ground - old field.
Some specimens large, others small

22818 *Muhlenbergia*
ditto

22819 *Panicum* *smugly*
ditto

Andropogon canaliculatus

22820

Andropogon

along irrigation ditch

Fraxinella lugens

22821

Fraxinella

open ground - old field
perennial

Lycium alatum

22822

Lycium

ditto

Andropogon canaliculatus

22823

Andropogon Sae. (Terry)

ditto

Microchloa

22824

ditto

Paspalum

22825

Paspalum (stellatum group)

Slope above river in ravine

Lycopodium hieronymi
22836 *Cortaderia*
Bunches on slope above river

Festuca magellanica
22839 *Festuca brownii*
Moist bank by river

Panicum
22837 *Panicum*
delta

Paspalum
22830 *Paspalum*
Bank of river

Cortaderia
22838 *Cortaderia*
Bank of river

Trisetum montiflorum
22831 *Trisetum montiflorum*
Along river & ditch on
bank of hills

22832 *Suaeda*
Wild plant - a weed in field,
tastes are very sweet
then bitter & metallic.

Setaria viridis
22833 *Paspalum*
along irrigation ditch

Stenobotrys spicata
22834 *Sporobolus argutus*
ditto

Eragrostis subterranis
22835 *Eragrostis*
Old field, perennial

Andropogon furcatus
22836 *Andropogon*
Wild oat - weed in field

Stenobotrys spicata
22837 *Stenobotrys spicata*
Weed in field

Calinagrostis lilloi
22838 *Alnus*
Along migration ditch

Syntherisma sanguinalis
22839
Gravelly place by river

Ornithoglossum
22840 *Ornithoglossum* ♀
Along migration ditch

Ornithoglossum
22841 *Ornithoglossum*
ditto ♂

Alnus
22842 *Alnus*
ditto

Alnus
22843 *Alnus*
Gravelly bank by river

22844
ditto

Erigeron phillyria
Micropus myrsinoides

22845

Chloris
Along irrigation ditch

22846

Erigeron phillyria
Euphorbia
Wet field

22847

Polypogon monspeliensis
Along irrigation ditch

22848

Erigeron
ditto

22849

Polypogon monspeliensis
ditto

22850
dillo

Stipa nevadensis
Stipa microcomata

22851
dillo
Andropogon scoparius
blades pubescent

Jan 6 1924
went down back to Fremont at the mouth
of the valley (Sagehen) (accompanied by
Mr. Reynolds, a student at the University of
Nebraska). Left our horses & went up the narrow
22852

Cortaderia
Large meadows along river

Bradyrostis lugens
22853
up on ground along trail

22854
Among brush
Horseshoe

Bradyrostis nevadensis
22855
moist valley of cliff in shade of shrubs

Lycopodium
22856 *Cortaderia*
Sloping grass, slope

Piptilobium
22857 *Piptilobium*
Partially shaded place

Pennisetum
22858 *Pennisetum*
Rocky ravine

Poa
22859 *Festuca*
Grassly river bed

Poa
22860 *Poa*
Grassly river bed

Parthenocissis
22861 *Parthenocissis*
Pasture

22862 *Muhlenbergia rigida*
Rocky slope

22863 *Lycium*
Rocky slope

22864 *Poa annua*
Gravelly area

Poa scaberrima
22865 *Poa*
ditto

22866 *Panicum*
Rocky slope by stream

Jan 7
22867 *Trigonotis pelox*
Weed in garden

Bolivia

22868 *Borla desuana*
fronds appressed to leaf
in garden on soil & gravel

no label printed

Jan 8

Cochabamba E
Cerro

22869 *Trichostema*
Bunches on dry slope
near summit on Ry going towards
Cerro

Star chamber

22870 *Slipa*
della

Festuca orthophylla
Jan 9

no label printed

22871 *Festuca*
Common bunch grass on alkali
& sand plain south of Cerro

Alocha Jan 9 Sur Chichas
dry slope

22872 *Slipa* etc
dry slope

Calamagrostis (C. ...)

22873 *Calamagrostis*
Large bunch 3 ft diam
gravelly muck bed

Dactyloctenium

22874 *Gnaphalium*?
Mixed with *horrad* 2573

Opuntia Pentlandii

22875 *Cactus*
hemispherical cluster 1 ft high
on dry slope - seeds & old stems

Dactyloctenium

22876 *Dactyloctenium*
forming close short turf in gravelly
river bed

Bromus

22877 *Bromus*
dry slope

Panicum

22878 *Panicum*
gravelly river bed - moist

Panicum

22879 *Panicum*
dry

22880

along creek on long slope - old

San Chichas

At least 4 specimens were seen
+ taken. The plants were very small
and it is hard to distinguish. After about
20 miles from San Chichas.

Jan. 1927
10

22881 *Callis* *Trichocereus*

The dense globose of one of tall *Cereus*
was very dense. Covered with reflex yellow
spines. Fls. small.

22882

Pasp. delectabile
Along creek at base

Dist. Chichas - San Chichas

22883

Distichlis

22884

Distichlis

22885

Distichlis

22886
delle

Diatichlis apiculata
Diatichlis

22887
delle

Haplomium australis
Haplomium

22888
delle

Diatichlis apiculata
Diatichlis

22889

Coarctata nigrescens
Coarctata
Muller gold

22890

Coarctata nigrescens
Coarctata
Edwards gold - (Pennisle white
(Muller, gold))

22891

Amphibaculus
Amphibaculus
Along Bengalia delle

22892

della

Agropyron repens
Agropyron

22893

della

Polygonum
Polygonum

22894

della

Phytolacca
Phytolacca (compressa)
compressa

22895

along
along

Cortaderia
Cortaderia

22896

della

Cortaderia
Cortaderia

22897

along
along

Syntherisma
Syntherisma

22898

Gal. for yellow
grass

Panicum tenuis - white rose
the commonest

22899

Wet in field

Drosera (compensans)

22900

Wet in field

Erigeron albus
frustratus

Argentina
La Cumbre, Argentina, opposite
Villazon, distance from 13

Prosp. July

Distichlis humilis Argentina

22901

Along ~~the~~ riverbank

22902

Calamagrostis
New C. wet in field

22903

Bambusa barley
In around barley, on small patch

22904 *Microvelthea*
argentea
In park

22905 *Barley*
In park

22906 *Pennisetum (compressum)*
with small

22907 *Festuca*
dolichophylla Presl
In hollow

22908 *Arvensis*
In hollow

22909 *Pennisetum*
In field

Argentina
22910 *Polygopus interruptus*
Along with
awned

22911 *Panicum*
awned

22912 *Hordium andriolae*
awned

22913 *Dactyloctenium*
awned

22914 *Panicum*
awned

22914½ *Polygopus interruptus*
awned (Poir.) Hitch

22915 *Hordium*
awned

22916

Andropogon furcatus
Muhl. & Link.

22917

Andropogon furcatus
Muhl. & Link.

22918

Agropyron angustatum
Muhl. & Link.

22919

Andropogon furcatus
Muhl. & Link.

22920

Andropogon furcatus
Muhl. & Link.

Bolivia

Jan 15

22921

Andropogon furcatus
Muhl. & Link.

Bolivia
22922
11/1

Triplaris ^{Sun Chichas}
Jan 16
Mudworks

Elymus
22923 Agropyron
Along with other grasses

22924
ditto Panicum

Trichocereus Terscheckii

22925 Cereus
The large white flower of Cereus
called... the...
spikes... for...

~~Bolivia~~
Cereus ^{Ingenio}
Jan 17

22926 Nesella
In thorny hedge where protected
for... material

Trichocereus pasacana
22927 Cereus (Cylindropuntia)
Arm of the tall cactus - fls rose
longer than the main one.
Seeds more abundant - a few thick
or much as 20 fl. usually 5-10 fl

22928 *Griseb. pelti* Bolivia
In garden at Oplaca

Crescentia albanica
22929 *Cultus (Cecropia)*
The mostly form
is now in flower Jan 25 27
Stems mostly branched, 5-10 ft or
more tall. The spines more or less
hollow by wood. Leaves white at
distances.

Camp 33, Jan 18
Batiscaia Bolivia
22930 *Fuchsia*
The flowers are pink
They will be cut by when protected from
freezing. Scattered on the banks

22931 *Poa* *Poa* *Poa*
Lillo Lillo

Chile

Antofagasta Jan 24

All of the plants in the field
were taken by the *Antofagasta*
field.

22932 *Chaetochloa*
weed in irrigated park

22933 *Sporobolus*
do

all same data

22934 *Agrostis verticillata*
Agrostis

22935 *Bromus mollis*
Bromus

22936 *Lythrum roseum*
Lythrum

22937 *Eleusine trisetacea*
Eleusine trisetacea

22938 *Chaetochloa*
Chaetochloa

22939 *Echinochloa*
Echinochloa

22940

Poa

Panama

Canal zone

Ancon F.R.S.

1924

22941

Ischaemum

Lawns

2

22942

Andropogon festigiatus Sw.

Lawns

(2

22943

Centropus distichus (Lam.) Benth
Lawns

Panama

Rio Tapia

beyond the Panama
City

22944

Oplismenus

Forest

(5

22945

Cynodon pulchellus Raddi

Flower of field

3

22940 *Arctida papillosa*
Savanna

3

22947 *Arctida* Kth
Savanna

22948 *Syntherisma*
Edge of forest

4

22949 *Arctida* (Rid) B...

22950 *Arctida* (HBR) Stead
Clay bank

6

22951 *Syntherisma pallens* (Sw) Moore
Forest

④ 22952 *Chusquea*
ambigua *et al.*
Forest

22952
Forest

22953 *Passiflora* *sp.*
sp.

Asclepias *sp.*

Port in Prince Field

22954 *Panicum* *sp.*
Shrubby place by ditch

22955 *Chusquea*
ambigua *et al.*

② 22956 *Passiflora* *fimbriata*
Wet along ditch H.B.K.

end 1923-24
Trip to So. Am.

Maryland 1925

22957 *Hemolobos*
clumps in ^{near} *sp.* *sp.* *sp.*
of *sp.*, old C & O canal, near
Plummers Island

note decumbent slender culms

1926

Cowles, May 1926

June 28,

8300 ft.

✓ 22958 *Poa bicolor*
in an old cult. garden patch

✓ 22959 *Poa fendleriana*
(*longicaulis*)
Grassy slope near *Phacelia* *utahensis*

✓ 22960 *Poa fendleriana*
(*brachycaulis*)
Slopes in open woods (pines &
spruce) bushes, culms green
when flowering, rough below pan-
icle, sheaths more or
less rough, culm smooth
1710 cm node near base

June 29

✓ 22961 *Festuca thurberi*
Open woods, 9000 ft.

✓ 22962 *Poa fendleriana*
(*longicaulis*)
Open woods, 9000 ft. not
rooted. This species produces
short root stocks.
Drooping. In many
places I could find only prostrate
plants.

✓ 22963 *Danthonia parryi*
Open woods, 9000 ft.

✓ 22964 Poa? Too young.
Open woods. No basal leaf
leaf rough

✓ 22965 *Melica purpurascens*
Open woods, 8600 ft

✓ 22966 *Poa fendleriana*
(Poa pedunculata)
Open woods, pedicel
8500 ft.

fendleriana
✓ 22967 *Poa* (see *fendleriana*)
Open woods, 1 pro. rootstock
Many many racemes, these racemes
no rootstock. These rootstocks are
probably young in summer & fall.

~~_____~~
Cerulea July 1 - Trip to Beatty's Cabin
✓ 22968 *Torula odorata*
Hamilton Mesa, open grassland 10000 ft

✓ 22969 *Festuca arizonica*
Open rocky slope - Beatty's Cabin
9500 ft. just coming into flower

✓ 22970 *Festuca Thurberei*
Rocky slope, Beatty's Cabin, 9500 ft.
Large tussocks, the dominant grass here
Good grass.

Sot

✓ 22971 *Poa reflexa*
Shady way - Beatty's Cabin, 9500 ft.

✓ 22972 *Poa interior*
Open dry grassland, Beatty's Cabin
9500 ft.

✓ 22973 *Phleum alpinum*
More open ground near
stream, Beatty's Cabin, 9500 ft.

✓ 22974 *Poa fendleriana*
Ruellia var. *totalis*
Open grassland, Beatty's Cabin
9500 ft.

✓ 22975 *Poa aciculata*
Aspen woods, on way to
Beatty's Cabin, 9000 ft. fine
Common and flowers

Clonista, Mexico July 2
(all near station)

✓ 22976 *Sidaea janssoni*
Open mesa. In colonies.

✓ 22977 *Agropyron smithii*
Mesa on eroded soil. Stems
pubescent

✓ 22978 *Agropyron smithii*
same as 977

✓ 22979 *Agropyron smithii* var. *molle*
Same as 977. ✓ ✓ miscevous

✓ 22980 *Agropyron smithii* var. *molle*
Same as 977.

977-980 grew together. The aspect
is the same.

✓ 22981 *Oryzopsis hymenoides*
Mesa on eroded soil. Large compact
bunches. 30 to 100 cm tall.

✓ 22982 *Arundo donax*
Open mesa. Usually in large
compact bunches, as much as 30 cm
in diameter, the lower branches being
in center (growing more), brown, with
9-13 but shorter ones + the panicle
whitish brown to light color. Leaves
purple but

✓ 22983 *Arundo donax*
Open mesa west of 952. Often
in large bunches but 952. Panicle
purple - not whitish as - 952.

✓ 22984 *Setaria pumila*
Open mesa.

✓ 22985 *Stipa comata*
Open mesa. Single culms or
bunches of moderate size. Also
occasionally found in open
pine woods. As much as 1 meter
tall

✓ 22986 *Stipa vaseyi*
Mesa in the middle place, rather
abundant in places. Large bunches, just
coming into flower. Not considered
typical in the area. It is placed
here because it is not in flower but with
other things and an accession to it.

✓ 22987 *Bromus japonicus*
Rather large spreading mats in
ditch along railroad. Culms
ascending - brown here.

✓ 22988 *Stipa*
Bank of dry hill, the only seed
seen. 2d full glomer. Branch
probably *leucostachya* - *gracilis*
Spreading in anthesis

✓ 22989 *Koeleria cristata*
Eroded hill side, 1 branch in bud
others in anthesis

✓ 22990 *Koeleria cristata*
Open pine woods. A tall form

✓ 22991 *Bouteloua gracilis*
Open mesa, just coming
into flower

See car

✓ 22992 *Sitarion hystrix*
Mesa, Kansas. The slender
bud from open pine woods.

✓ 22993 *Aryzopsis micrantha*
Open pine woods.

||||

✓ 22994 *Stomoxys (pseudox)*
Open pine woods

✓ 22995 *Stipa*
Open pine woods

✓ 22996 *Stipa comata*
Open pine woods, fruit coming
into flower. Older specimens like 285

✓ 22997 *Sporobolus (maculipes)*
Open mesa. Spreading widely.
Somewhat erect, sometimes prostrate.
Culms very loosely tufted at base.
Blade brownish glaucous

✓ 22998 *Amorpha canescens*
Along by track - only plant seen

✓ 22999 *Festuca octoflorus* Nutt.
Open mesa. Very close tufts

to duplicates

Santa Fe July 2

✓ 23000 *Sporobolus nealleyi*
Prostrate tufts, mesa.

✓ 23001 *Muhlenbergia*
Along mesa in city.

Los Alamos School - 50 miles, v. w. S. Fe

✓ 23002 *Alopecurus aquatilis*
along shore of small fish pond

✓ 23003 *Festuca setigera* *intelligens*
Mesa

✓ 23004 *Agropyron tenerum*
Near irrigation ditch

Anchor Ranch - 50 miles, v. w. S. Fe
alt 7500

✓ 23005 *Danthonia spicata*
Near fish pond - bunches

✓ 23006 *Sphenopholis*
Near fish pond

✓ 23007 *Pachyma* *brunneum*
Near fish pond

✓ 23008 *Isoetes* *viridata*
Near fish pond

✓ 23009 *Sporobolus*
Mesa
Discarded

Santa Fe - July 3
✓ 23010 *Sporobolus* *crispus*
Early bud with open flowers
much apparently in same
the present form with small
open and closed panicles. In culture
common

✓ 23011 *Promis*
Shrub of some near irrigation
ditch. Shrub, white velvety

✓ 23012 *Sporobolus arvensis*
Mesa

✓ 23015 *Brachiaria hirta*
Mesa

✓ 23013 *Sporobolus cryptandrus*
Mesa, in form between 010
and the prostrate form

✓ 23016 *Muhlenbergia
pedunculata*
Mesa, Form, few rings

✓ 23014 *Sphaerostylis sphaerostyla*
Along river along ditch

Pueblo - July 6
✓ 23017 *Chloris verticillata*
Mesa

✓ 23018 *Poa (dichloria?)*

Low place in mesa near artificial lake with *S. helix*, *Sporobolus asperifolius*. The poa seems to have creeping rootstocks - I had only one joint with leaf. Culms erect & very much solitary, somewhat glaucous.

✓ 23019 *Sporobolus asperifolius*
Mesa in low place.

✓ 23020 *Bromus japonicus*
Along shrubs of Pueblo frequent

✓ 23021 *Agropyron murum*

In low place with 015. Flows short - around

✓ 23022 *Eleusine canadensis*

Along shrubs of Pueblo - grassy places. Frequent.

✓ 23023 *Sphenopholis obtusata*

Low place in mesa with 018 mostly in the shade of shrubs.

✓ 23021 *Agropyron leucum*
Same as 1021 but almost double-
taller.

Puccinellia distans
✓ 23023 *Puccinellia distans*
Along border of wet grassland lake
Part of low & spreading, usually

✓ 23025 *Agropyron smithii* Walle
Mesa

✓ 23027 *Elymus caput-medusae*
A small branch along
bank - same as 022.

✓ 23028 *Chaetochloa verticillata*
Wet along banks of river - frequent

Leadville - Colo - 10000 ft. July 8.

✓ 23029 *Stipa (wheat)*
Mesa near Malta, among sage
brush

✓ 23030 *Festuca (brachyphylla)*
Stony slope lower part of spruce
belt & numerous, somewhat some-
what open in mitosis.

✓ 23031 *Poa Poa sandbergii*
Stony slope in spruce belt.
One of the common species here
not quite mature. *Sandbergii*?

✓ 23032 *Poa Poa fendleriana*
Stony slope in spruce belt. Common
looks like *P. longipedunculata*

✓ 23033 *Poa Poa fendleriana*
Probably same as 23032

✓ 23034 *Agropyron violaceum*
Spruce belt.

✓ 23035 *Poa reflexa*
Rugby place in spruce belt.

✓ 23030 *Poa* *Poa fendleriana*
Alpine meadows above timber
P. compta pedunculata? Common

✓ 23031 *Festuca brachyphylla*
Alpine meadows above timber
11000 ft. a larger form of 230

✓ 23032 *Poa* *Poa fendleriana*
Alpine meadows, probably = 030

✓ 23039 *Festuca*
Alpine meadows above
timber. Looks different from
F. brachyphylla, (also + more
open patches.

✓ 23040 *Festuca brachyphylla*
Alpine meadows. Panicle in
flower but not spreading.
Seeds different from 039. Both
are common

✓ 23041 *Festuca*
Alpine meadows. Probably = 039

✓ 23042 *Agropyron edmondi* (alpine form)
Alpine meadow

✓ 23043 *Poa*
Near snow line on rocks, 13400 ft
Same as the short one further down

✓ 23044 *Festuca brevis, phylla*
dillo (013)

✓ 23045 *Danthonia, glauca*
Alpine meadow, immolation
12000 ft

✓ 23046 *Poa*
Alpine meadow, 12000 ft
= 013

✓ 23047 *Poa idicata*
Alpine meadow, 12000 ft

✓ 23048 *Poa fendleriana*
Alpine meadows 12000 ft. com-
mon. (*P. longipetiolata*)

Leadville, Colo., July 9
Mt. Elbert near Lower Lakes

✓ 23049 *Festuca tenchovii*
Open slope, 10000 ft.

✓ 23050 *Stipa comata* var. *viridula*
Rosa slope 10000 ft.

✓ 23051 *Poa sandbergii*
Open place in woods, 12000 ft.

✓ 23052 *Festuca ovina*
Open slopes, 10000 ft.
Mt. Rest with dense Pine bunch
grass

✓ 23053 *Stipa richardsonii* Link.
Open place in woods 10000 ft.

✓ 23054 *Poa* *Poa fendleriana*
low place on hill side
(*P. quadrifida*?)

✓ 23055 *Festuca ovina*
open slopes 11000 ft

✓ 23056 *Poa wheeleri*
open hill, 11000 ft

✓ 23057 *Poa fendleriana*
Poa quadrifida
alpine hill, 12000 ft
common. This form is purple

✓ 23058 *Poa fendleriana*
Poa quadrifida
alpine meadow, 12000 ft
common

✓ 23059 *Agropyron* *serotum*
alpine hill, a few inches tall
very dense - spreading
common, 12000 ft

✓ 23060 *Poa* (rupicola?)
Alpine meadow, 12000 ft
common

✓ 23061 *Poa* (fendleriana)
Alpine meadow, 12000 ft

✓ 23062 *Poa*
Alpine meadow, 12000 ft

✓ 23063 *Poa fendleriana*
Twin Lake Range, Siskiyou
In clump of grass, this growing
tall, 9300 ft *Poa fendleriana*

✓ 23064 *Festuca gracile, glauca*
Alpine meadow, 12000 ft
common

✓ 23065 *Poa*
Alpine meadow, 12000 ft

✓ 23066 *Poa pulcherrima*
Alpine meadows, 2000 ft.
Common *Poa fendleriana*

Yellowknife - July 10
Vicinity of city 10000 ft.
23067

✓ 23068 *Poa wheeleri*
Among sage brush, smaller
than *P. timida*

✓ 23069 *Poa sandbergii*
Among sage brush
grasses

✓ 23070 *Poa (timida)*
Among sage brush

✓ 23071 *Poa wheeleri*
Open pine woods in a
clump of sage brush

✓ 23072 *Festuca ovina*
Mesa among sagebrush
Common - most small clumps
parallel to ridge in places
contrasts with rice

✓ 23073 *Poa (quadrifida)*
Mesa among sagebrush
Poa sandbergii

✓ 23074 *Poa sandbergii*
Mesa among sagebrush
Sparse

Washoe National Forest Utah
July 13, 1926
✓ 23075 *Poa (quadrifida)*
Open grassy slope

✓ 23076 *Bromus (sp. arcticus)*
Open grassy slope
Common, upper part in flower
Parallel to ridge - probably
sp. seen previously in Utah
in near past.

✓ 23077 *Poa fendleriana*
Poa (longiped)
Open grassy slope
All these *Poa* of this region
probably the same - but length
of ligule differs

✓ 23078 *Poa pulcherrima*
Open grassy slope
Poa fendleriana

✓ 23079 *Poa pulcherrima*
Open grassy slope
Meadow rather wide

✓ 23080 *Poa fendleriana*
Open grassy slope
rather long

✓ 23081 *Poa alpina?*
Dry meadow

✓ 23082 *Poa reflexa* (Set)
Common all over the
open meadows - some have
well marked seed stalks
which seem not to have them
but seem to be all the same
species. *P. reflexa* or *aperta*

✓ 23083 *Poa acutula*
Open grassy slope
Common in meadows
grasses

✓ 23084 *Festuca ovina*
Common on open grassy
slopes, particularly up the
S. side of the mountain, appeared
abundant

✓ 23085 *Elymus caput-medusae*
Edge of woods, common
about the edge of the
July 12, near the Mt. St. Mary
small mountain peak.

✓ 23086 *Poa (nervata)*
Common in open woods & open
ground, at various places, to the
north of W. Lake, Camp Ha.

✓ 23087 *Festuca ovina*
Open slope among large
brush, ditto glaucous form
of 059

✓ 23088 *Glyceria (seplum)*
Pond in water, ditto

✓ 23089 *Poa*
ditto same as 087

Mill Creek Ranch Co

✓ 9000
✓ 23090 Poa July 15
Open slope

✓ 23093 Poa reflexa
Open aspen woods

✓ 23091 Poa
Aspen woods

✓ 23094 Poa
Open aspen woods

✓ 23092 Poa alpina
Open slope near stream

✓ 23095 Poa
Open slope, glaucous, rather
short, this is a rather low specimen
which seems to be the same as my
mudis 3 ft tall. Ligules long

✓ 23096 *Poa leptocoma*
Bag on edge of timber, 9600 ft
West fork Black prk Rowan State
July 14

✓ 23097 *Agrostis (dulmuisii?)*
Bag - ditto

Utah

Mt Tokewauna (13200 ft) July 17
grass collected about 12000 ft, alpine slope
✓ 23098 *Poa*

✓ 23099 *Poa (mexicana?)*

✓ 23100 *Festuca baeleophylla*

✓ 23101 *Agropyron Scribn.*

✓ 23102 *Quercus montana* Suckw
The most abundant species at this
altitude

✓ 23103 *Poa*
Small tufts among rocks not
far below summit, about 10000 ft
plants seem to be *dent* sp.

✓ 23104 *Stipa comata* *intermedia* Utah
Sage brush plain near Mill Creek
Range Station July 15

✓ 23105 *Poa*
ditto

✓ 23106 *Poa*
ditto

Wyo

✓ 23107 *Poa nevadensis*
Sage brush plain near Swains
Wyo. July 15

Jackson, Wyo., July 22. - 6200 ft
✓ 23108 *Festuca viridis*
Open aspen woods on steep slope

✓ 23109 *Festuca viridis*
Sleep ^{open} rocky slope, in loose tufts

I dug several tufts and could find no creeping rootstocks. There is a stem of some caudex and short rootlets for grass on the crown up and some innovations.

✓ 23110 *Poa nemoralis*
Open aspen woods on steep slope

✓ 23111 *Poa ampla*
Open woods on steep slope - aspen and spruce
Stems, tall

✓ 23112 *Poa*
dille *Green*

Examine the sheets to see if they are all the same.

✓ 23113 *Calamagrostis rubescens* Bockl
Open aspen woods on steep slope

✓ 23114 *Poa*
delle ... *Stipa ligula*
(= 112?)

✓ 23115 *Stipa*
delle ... *Andropogon furcatus*
below rocks

✓ 23116 *Poa*
delle - *glauca*

Jackson Hole - Cache Creek - July 23

✓ 23117 *Poa reflexa*
On decaying log *Poa reflexa*

✓ 23118 *Poa reflexa*
by track in shade
appears to have root clots

✓ 23119 *Poa Poa ampla*
Open slope. Big clumps, form

✓ 23120 Poa

Open woods

Seems to be water-soaked

fact on pole - Marquette Creek

July 24

✓ 23121

Poa Poa ampla

Open open woods

✓ 23122 Bromus pol. michx

Open open woods

very pubescent

✓

✓ 23123 Trisetum? Gnaphalium?

Open open woods - rather
moist

Examined some of the Poa for
this

✓ 23124 = 123?

✓ 23125 Poa Poa ampla

Open open woods

Big, glaucous

to the lower part of the ...

✓ 23120

... slope ...

✓ 23127

... slope ...

✓ 23128

... rocky slope

✓ 23129

... slope ...

✓ 23130

... (Rock) Shear

✓ 23131

... (Rock) Shear ...

✓ 23132

Trisetum

intermedia Vasey

✓ 23133

Poa
Rocky slope. No flowers seen

branches of panicle, base of leaf
different from any I have seen

Spent July 27

✓ 23134

Area above previous
more grassy, 8500 ft

5/1

✓ 23135

Poa epilis

Rocky meadow 9000 ft

✓ 23136

Agropyron saxicola (S. P.) Piper

Rocky meadow 8500 ft.
9 or 10, culms perianth
dark red, leaf yellow, culms
in scrub

✓ 23137

Festuca madagascariensis

Slony ridge, 10000 ft

✓ 23138 *Alva campulosa*
Stony ridge - wood pt, alpine
ground cover. It reaches into
the larger patches

✓ 23139 *Poa alpina*
Rocky ridge, above pt

✓ 23140 *Agropyron scabrum*
Rocky ridge, above pt

This is probably a *Poa* —
bristles long, culms spreading,
or nodding

✓ 23141 *Poa*
Rocky ridge, above pt
Bristles

✓ 23142 *Poa*
ditto

✓ 23143 *Poa*
ditto *Poa sandbergii*

✓ 23144 *Poa*
ditto
Root tufts in stony ground!

✓ 23145 *Poa* (epilys?)
ditto

✓ 23140 *Poa reflexa* var. *scabra*
ditto - tufts like annual
but probably perennial.

✓ 23147 *Poa epigea*
Open woods 9000 ft
Desert

7:50 ft
✓ 23148 *Poa spicata* (L.) Richt.
Dry pine woods

✓ 23149 *Andropogon intermedius*
Dry pine woods - common

✓ 33150 *Stipa capillaris*
On pine wood in small
open area

✓ 33151 *Stipa capillaris*
In open woods in
conifer forest

Suaeda - salt - *alticola*

✓ 33152 *Poa* (on sand dunes)
Rocky slope below cliff

✓ 33153 *Stipa capillaris*
delta

✓ 33154 *Poa repens*
Poa reflexa

✓ 33155 *Trisetum* (with *conditum*)
Wet open valley, *conditum*
near falls

✓ 23150 *Trifolium pratense*
near road

✓ 23157 *Trifolium pratense*
near road

✓ 23158 *Trifolium pratense*

✓ 23159 *Trifolium pratense*

✓ 23160 *Trifolium pratense*

✓ 23161 *Trifolium pratense*
near road

✓ 23163 *Gambusia*

✓ 23165 *Gambusia*
well, under

✓ 23164 *whorl (same)*

Twoagwalle Pass, N.E. part
of Teyu Forest - 9000 to 11000 ft
✓ 23165 *Poa reflexa* July 29
moist open ground - at Pass
Poa reflexa

Pass - 9600 ft
Summit of Two Creeks Mt. - 10600

✓ 23166 *Poa ampla*
open ground, 8 miles
below pass

✓ 23167 *Poa*
Pond, near Two Creeks
Mt., alpine - 11000 ft

✓ 23168 Poa
= 167, somewhat lower
taller

✓ 23169 Poa ^{Poa reflexa}
(reflexa?)
Boggy place, above pass, in timber

✓ 23170 Festuca brachyphylla
Near summit of Two Ocean Mt

✓ 23171 Poa
ditto (170) Poa sandbergii

✓ 23172 Poa
ditto

✓ 23173 Festuca conspua
Rocky slope, above tree line
Two Ocean Mt

✓ 23174 ^{Poa reflexa} Poa reflexa?
Below summit of Tano Ocean Mt
Moist place

✓ 23175 ^{Agrostis serotina} Agrostis serotina
Below summit of Tano Ocean Mt
Rocky slope - ^{along} ~~along~~ ^{prostrate}

✓ 23176 ^{Drosera pinnatifida} Drosera pinnatifida
Sandy open ground at base

✓ 23177 ^{Festuca brydiifolia} Festuca brydiifolia
Open ground at base

✓ 23178 ^{Agrostis rosea} Agrostis rosea
ditto

✓ 23179 Poa
ditto

✓ 23180 Poa sandbergii
ditto

✓ 23181 Sandersonia intermedia
ditto Vasey

✓ 23182 Melica
ditto

✓ 23183 Poa (wheeleri)
Open woods at Pan

✓ 23184 Festuca ovina
Open grassland at Pan

✓ 23185 Poa sandbergii
ditto

✓ 23186 Poa
ditto

✓ 23187 Poa Poa ampla
In clump of sagebrush, east of
Moran, glaucous

✓ 23188 Festuca ovina
ditto

✓ 23189 Poa
ditto

✓ 23190 Poa nemoralis
ditto

✓ 23191 Arzopsis alpestris
ditto

✓ 33192 *Stipa richardsonii*
Open open woods, dello

Jackson hole - Upper Hoback River

July 31

✓ 33193 *Poa*
Partial shade in rather dry soil -
Karl's fields

✓ 33194 *Elymus glaucus*
dello
Among dunes

1926

1874