

the  
11350 - 11517

3 IN. x 5 IN.

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to

Arthur Cronquist

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Scientific data, of  
no commercial value.

11350 = 9 May, 1976

Grand Co., Utah

With juniper, sagebrush  
and Atriplex on a  
substrate of sandstone  
and pebbly conglomerate.  
Shortly east of Harley  
Dam, in the first low  
hills ~~on~~ west of the Colo-  
rado state line. Twp.  
19S, R. 26E

Bracts scarlet. Elev ca  
1400-1450 m.

*Castilleja chromosa* A. Nels.

det. Noel H. Holmgren

*Castilleja* (4) 11601

11351 - 9 May, 1976.

Grand Co. Utah

Same place as 11350.

Stems solitary or  
occasionally paired.

Petals rather light  
pink or pink-lavender  
at first, soon turning  
white.

*Arabis pulchra* M. E. Jones ex S. Wats.  
var. *pallens* M. E. Jones ✓

*Arabis pulchra* var. (4)

11352 - 12 May, 1976.

Southern Co., Utah. With  
sagebrush, *Atriplex*, and  
juniper in rocky clay  
soil over shale sub-

strate, ~~Twp. 20S, R1E~~

in low foothills ca  
5 km east of <sup>Axtell</sup> ~~Redmond~~

Twp. 20S, R1E, Elev.

ca 1600 m. Flowers  
pink.

*Phlox longifolia* Nutt. ✓

var. *longifolia*

*Phlox* *stans* (10)

11353 12 May, 1976

Sevier Co., Utah.

Same place as 11352.

Bracts ranging from  
vermillion-red through  
scarlet to crimson.

*Castilleja chromosa* A. Nels.  
det. Noel H. Holmgren

*Castilleja aff. chromosa* (10)

11354 12 May, 1976.

Sevier Co. Utah.

Around the edges of  
barren, seleniferous  
clay slopes, in foothills  
ca. 5 km. east of ~~Ray~~ <sup>Axtell</sup>.

~~Ray~~ ~~Raymond~~. Twp.

S. R. 1 E. Elev. ca. 1600 m

Leaves blue-green, appear

glaucous. Peduncles

st. prostrate. Wings of

fruit white to

pinkish.

*Sympterus coulteri*

(M.E. Jones) Mathias

*Sympterus* (6)

11355 12 May, 1976

Sevier Co., Utah.

Same place as 11354.

Growing with #11354,

*C. coulteri* (M. E. Jones) Watkins,

but with brighter green,  
more dissected leaves,

and more stiffly ascend-

ing peduncles. Stamens are

~~an~~ old flowers yellow.

*Cymopterus rosei*

M. E. Jones  
✓

*Cymopterus* ①



11356 12 May, 1976;

7 June, 1976.

Senier Co., Utah. Along

a north-trending wash

at the east foot of the

mountains, ca. 19 km

south-southwest of Emery.

Trps. 235, R. 5E, near corner

G.S. 27, 28, 33, 34. Elev.

ca. 1950 m. Trees varying

from narrow-headed to

broad-headed. <sup>Young</sup> Leaves glutin-

ous and shiny green on

both sides, varying in

shape from as in *P. angustifolia*

to ~~as in~~ as in *P.*

*fraxinifolia*. (over)

11356 (cont'd),

Primary style branches  
2, rarely 3.

Hybrid swarm:

*Populus angustifolia* James  
x

*P. fremontii* S. Wats. ✓

*Populus "acuminata" (5)*

11357 - 12 May, 1956

Emery Co, Utah. Gravelly

gentle slopes ~~open~~

open pine-juniper

woodland on the north

flank of the San Rafael

Swamp, ca. 28 km.

Road east of Moore.

Temp. 22 S., R. 9 E., S. 33.

Elev. ca. 2000 m.

5 mi. S. of ...

old scarlet

*Castilleja scabrida* Eastw.

det. Noel H. Holmgren

Castilleja (10)

11358 - 13 May, 1936

Emergy Co. v. l. s. l. Cloudy

Temperature 20° F, sandy

soil. In the same

place, alt ca 2

km. Part of little

flat top, a ~~barren~~

airline northwest of

Hambro Co. Twp. 26S,

Range 13E, S 14.

Time ca. 1600. Slenes.

~~Some~~ shrubs ca  
4-5 ft tall.

*Quercus gambelii* Nutt. v. l.

Common - 10

11357 to May 1942

Wayne Co., N.C.

In a report of the  
Smithsonian Institution  
Washington, D.C. 20560  
April 1942

28

15

~~\_\_\_\_\_ S.S. \_\_\_\_\_~~  
~~\_\_\_\_\_~~

1700 ac.

Flowers white  
Lupinus angustifolius L.

Lupinus

11360 13 May, 1976

Wayne Co., Utah,

Same place as 11359.

Stems numerous and

loosely ascending from

a taproot and basal

rosette. Flowers

pink-purple.

*Astragalus mollissimus* ✓

Torrey

var. *thompsoniae* (S. Wats.) Barneby

det. R. C. Barneby

*Astragalus mollissimus* (10)

11561 - May 13, 1936

Madras Co., Utah, June

11357, Flaccid

light pink leaves

Pods ~~not~~ inflated,

largely red-lucous

*Astragalus ceramicus*  
sheld.

var. *ceramicus*

det. R. C. Barneby

*Astragalus* det. Phaca ①

1362 13 May 1976

Wayne Co., Utah

~~Sample as 11359.~~

Flowers white.

Only one plant seen.

*Dimorphanocarpa wislizenii*

(Engelm.) Rollins

Mustard (1)



11363 - 10 May 1976

Mojo Co, Utah

in sandy soil of open  
juniper-juniper wood-

land 85 American  
south of Cannonville,

Tr. 295, N. 16 W., ~~10~~

S. 32. Elev. ca. 1900 m.

Deep anemone developed  
~~from a single~~ leaf.

from a single leaf,

found in a sandy  
white shale.

*Townsendia incana* Nutt.

*Townsendia* (3) (5)

1300 - 14 May 1976

Wayne Co. Wash.

Same place as 1163.

flowers white

*Phlox hoodii* Richardson

var. *canescens* (T. & G.) M. E. Peck ✓

*Phlox hoodii* (4) ✓

11365

W. H. H. H. H. H.

In muddy soil, 1000  
m. S. S. S. S. S.

1000 m. S. S. S. S. S.

1000 m. S. S. S. S. S.

1000 m. S. S. S. S. S.

1000 m. S. S. S. S. S.

1000 m. S. S. S. S. S.

1000 m. S. S. S. S. S.

1000 m. S. S. S. S. S.

1000 m. S. S. S. S. S.

1000 m. S. S. S. S. S.

1000 m. S. S. S. S. S.

1000 m. S. S. S. S. S.

1000 m. S. S. S. S. S.

1365 - could.

*Astragalus nidularius*  
Barneby

det. R. C. Barneby

*Astragalus* "

11366. 10/24/1976

Stanfield Co, N.C.

In open piney woods  
on sandstone  
substrate near the bottom  
of Flint Cove, ca 100 +  
km. airline south of  
Cedar River, Twp. 30 1/2  
S., R. 16 E., S. 36. Elev.  
ca. 1800m

Flowers yellow

Lesquerella rectipes Wooton ✓

3/24/1976

Lesquerella

(3)

11367 - 14 May, 1976

Wasatch-Cache National Park, Utah

Same place as 11366

Same general area

*Streptanthus* sp.

*Streptanthus cordatus*

*Streptanthus* (15)

11368 - 14 May 1976

Garfield Co., Utah

Sandy soil in piñon-juniper  
woodland ca 3 km north

of Tropic and about 100 ft  
km. aerial line parallel to

Green River. Near  
the ~~west~~ south

corner of S 26. T 10. R. 16E. Elev.

ca 1850 m. Plants  
single-stemmed. Leaves

somewhat glaucous. Flowers  
white or yellow.

*Caulanthus divaricatus* Rollins  
aff. *stans* (7)

11369 14 May, 1976

Same place as above

Same place as above

Flowers purple

Pods firm-inflated,

strictly unilocular.

*Astragalus preussii* A. Gray

var. *preussii*

det. R. C. Barneby

*Astragalus*



11370 14 May 1976

Garfield Co., Utah

Sandy clay soil

~~Alchemilla americana~~

*Astragalus amphioxus*

A. Gray

var. *amphioxus*

det. R. C. Barneby ✓

*Astragalus* (D)

11371 - 14 May, 1936.

Woodfield Co. West.

Sandy clay loam in

open field, about

1/2 mile from

ca 110' on a line south

of Green River. Twp 31S,

R. 16E, S. 23 ~~23~~ 23.

ca 1600' Tapered white

with a yellow green

glaze

*Zygadenus paniculatus* S. Wats.

*Zygadenus*

(4)

11372 14 May, 1976

Highway 12, Utah.

Juniper - Coleogyne zone  
below sandstone cliffs  
of Black Lodge, ca 110 km.  
east of Hatch, New Mexico.

Temp. 32 S, R. 16 E, S. 8<sup>5</sup>

Elev ca 1500 m.

Firmness pale greenish

Allium macropetalum  
typic

Allium campense (10)

11373 15 May, 1976

San Diego Co., Calif.

Sandy soil, low in  
on ...

~~young plants~~

biological community

in ...

south of Yellow River.

Twp. 32S, R. 16E., S 8

Elev. ca 1650m

Plants spreading herbaceous,

slender, <sup>in</sup> ...

... Petals white,

*Oenothera caespitosa* Nutt.  
var. *jonesii* Munz

*Oenothera* (3)

15 March 1975

Harford Co., Md.

Same place as 11375

*Flemingia*

*Physaria australis* (Rayson)

Rollins

*Physaria*

(8)

11375 15 May, 1976

Wasatch Co., Utah

Same place as 11373,

lobes pale chloro-

green, tinged with

dark purple toward

the inner outside,

the purple.

*Asclepias cryptoceras*

S. Wats.

*Asclepias cryptoceras*

✓

*Asclepias*

(2)

1936 May 27

High altitude sandy soil in

High mountain zone, ca 120 km. airline  
south of Green River

Twp. 52 S., R. 15 E., S. 36.

Dist. ca 1600 m. Stems  
woody as an old cut log

rest and has long aerials.

Flowers pale, ochraceous  
except for the dark purple  
tips of the lobes.

*Aster praelongus* Sheld.

var. *praelongus*

det. R. C. Barneby

(5)

11377 15 May, 1976

~~Coleogy~~ ~~Gardner's~~ ~~Utah~~

Coleogy desert under  
with massive sand

stone cliffs, shortly  
north of the Colorado

Trail Canyon and ca

125 km. airline south of Green

Kincaid. Twp. 37½ S. R 15 E.

Elev. ca 1400 m.

Plants annual. Flowers

blue purple, the ~~back~~

barren with a central  
bit of spot.

Lupinus pusillus (Pursh)

var. rubens (Rydb.)

Lupinus





11378-15 May, 1976.

Garfield Co, Utah.

Same place as 11377.

Gland-appendages white  
or slightly pinkish,  
sometimes 5 and sym-  
metrically arranged, but  
often one reduced or  
missing, the fruit hang-  
ing out through the gap.  
Deep red or purple.

*Euphorbia fendleri* T. & G.

✓

*Euphorbia*

(44)

11377

Gasfield Co. Utah  
Same place as 11377.

Perennial with woody  
fibrous roots. Upper  
petals white, the  
lower yellowish  
blue purple.

*Delphinium scaposum*

Greene

16

11380 - 15 May, 1976.

Garfield Co., Utah,

Same place as 11377.

Corolla distinctly

tubular form rather  
than caliceiform,

lobes in 4 small  
polyplous cys.

Anthids deeply rugose-reticu-  
late on both dorsal and  
ventral surfaces, with a

long, wide opening at dorsal  
eye raised rim.

*Cryptantha tenuis* (Eastw.)

Payson

*Cryptantha* (5)

11381 15 May, 1976

Yrs. field "s. etc."

Sandy soil in Coleogyne  
zone. Yellow pine massive  
sandstone cliffs ~~about~~  
shortly north of the  
Sierrita River Canyon  
ca. ca. 125 km. airline

at the Sierra River. Top 32  $\frac{1}{2}$  6

K. 152 N. Elev. ca. 14000

1. some yellow d. sps

3. 14, 1-1.5 cm long

*Hymenoxys leptoclada*

(A. Gray) ✓

*Hymenoxys leptoclada*

11382 - 15 May 1931

Harfield Co. Utah

Same place as 11381.

Benches low and dry;  
rocks and soil rich  
~~pink~~ pink purple.

*Astragalus*

*monumentalis* Barnaby

det. R. C. Barnaby

*Astragalus* 9

(10)

11383 - 15 May, 1976

Garfield Co., Utah

Sagebrush zone below  
massive sandstone cliffs

shortly north of the  
Colorado River Canyon,

ca 130 km airline south  
of Alton, Nev.

Trsp. 335, R14E, S.1.

Elev. ca. 1400 m.

Branching shrubs up to 5  
or 6 dm tall. Rays (15)

18-22 (23), lavender, 13-20 mm <sup>long</sup>

*Morone anthora tortifolia* (Tidg.) <sup>var. ~~tortifolia~~</sup>

*var. imberbis* Cronq.

*Morone anthora tortifolia*  
*var. imberbis* (10)

11334 - 17 May, 1976  
Emery Co., Utah

Low brush, mainly sage  
brush with fruit ca  
16' tall, last of cattle  
Dirt. Twp. 19S., R. 10E.,  
about S. 7 or 8.

Fls. ca. 1700m.

Low brush, low of  
sagebrush and clustered  
sagebrush. Fruiting  
bodies, flowers orange.

~~Fruit~~ Fruit

*Astragalus flavus* Nutt.  
var. *flavus*

det. R.C. Barneby  
*Astragalus* (10)

11385 17 May, 1976

Reuben C. Nelson

*Stipa* ~~sp.~~ *distans*

in Frank's Canyon  
and bunchgrass ca. 5 km

~~at base of~~

of Nine Mile Can.

Yon, and ca 40 km aerial

south of ~~the~~ Dayton, Tex.

HS, R. 15, S. 26

Elev. ca 1650 m.

Plants single stems

Herbage glaucous. Petals

very pale ~~yellowish~~

with a little ~~more~~ colored.



Pods and to succeed-  
spreading

*Thelypodopsis* ✓  
*wyomingensis* (A. Nels.) Rydb.

*Arabis* (?)

*Cyrtanthe flavoculata* (A. Nels.) Payson

11386 - 17 May, 1976

~~11386~~ Duchesne Co. Idaho

Woody, gravelly soil on  
volcanic tuff substrate;  
in <sup>6</sup>terminal bunch grass  
along sand wash  
height ca 35 cm

Vegetation Southeast of H. J. ...  
Twp. 11 S., Range 17 E,  
about S. 15. Teton Co.

200 m. Stem erect and  
anthesis and branching  
erect. Corolla salverform,  
with a flat, white lacinage  
obovate, pink ...  
evident yellow eyes. Maturing  
nutlets evidently raised rugose reticulate on  
both sides; scar with ... margin  
Name at top

11387 - 17 May, 1976.

Duchesne Co., Utah

Along the bottom of a  
sandy-gravelly dry wash  
leading into Sand Wash, in  
sagebrush-bunchgrass  
country ca 35 km. or less  
southeast of Monticello, UT  
100° 12' W, about S. 15.

Dist ca ~~1700~~<sup>1700</sup> m. Stems numerous,  
curved-ascending from taproot and  
branching caudex. Flowers  
purple. The leaves  
are large, central pale spot.  
*Lupinus wyetii* S. Wats. ✓

Lupinus (10)

11388 - 18 May, 1976

Beckwith Co. Utah, sandy  
slopes on shale  
sandstone substrate in  
sagebrush bunchgrass  
community along Sand  
Wash, ca 35 km. aerial  
southwest of Alton,  
Twp. 11 S., Range 17 E.,  
about S. 15, Elev. ca.  
1700 m.

Flowers light pink

*Phlox longifolia* Nutt. ✓  
var. *longifolia*

*Phlox longifolia* (5)

11389 - 18 May, 1976

*Oenothera l. nitida*

Same place as 11386.

Petals ~~white~~ <sup>white</sup> or <sup>cardinal</sup> red,  
white, withering  
pink.

*Oenothera caespitosa*

var. *jonesii* Munz

*Oenothera* cf. *caespitosa* (5)

11390 - 18 May 1976

Sampl. places 11388

except sl. ca.

1750 m. Bracts  
vermillion. red to  
scarlet.

*Castilleja chromosa*

A. Nels.

det. Noel H. Holmgren

*Castilleja*

(D)



11391. 18 May, 1976.

Same place as 11388.

Flowers rich pink-purple

*Astragalus*

*chamaeleuce* A. Gray

det. R. C. Barneby

*Astragalus*

~~4~~

(4)

11392. 18 May, 1976

Pinckney Co., Miss. In gravelly  
soil among sandy limestone  
substrata in sagelush-  
-bunchgrass community,  
along Sand Wash, ca. 35  
km. southeast of Hattiesburg,  
Twp. 15 S. R. 17 E., about S.  
15 W., ca. 1200 m.

Plants spreading and becoming  
perennial by long, slender,  
horizontal roots. Herbage  
glabrous. Flowers yellow.

Same as above

Grass

Schubertia (12)



11593 - 18 May, 1976.

Duchesne Co., Utah.

Same place as 11392.

Stems clustered on a

taproot and branching

erect. Flowers white,

inconspicuously marked  
with purple.

*Oxytropis sericea* Nutt.

det R.C. Barneby

*Oxytropis* (5) 298

11394-20 May 1976

Utah Co. Idaho

with 2 specimens

mainly on slopes

at high altitude

11 km southeast of

Lower Twp. 2 S. R.

24E. S. 5 or 7.

Slip via 1550 m.

Leaves white, on 7 heads

35, 46, 49, 71,

and 55, 76 in number.

*Erigeron engelmannii* A. N. S.

var. *engelmannii* ✓

*Erigeron engelmannii* (10)

11575 20 Aug 1956  
Montana Co. - U.S.A.

Leaves greenish  
Petals white to deep  
pink-lavender, with  
a thin red crescent  
near the top of the  
yellow-lavender

*Calochortus nuttallii*  
T. & G.

11575

(5)

11396 - 20 May 1971

Monte Co, Utah. Rocky  
dry slopes, about where  
a ~~main~~ <sup>main</sup> ~~highway~~ <sup>highway</sup>  
triplex and ~~to~~ <sup>to</sup> ~~Sarco~~  
~~potentially~~ <sup>ca 1120m</sup>  
northwest of Junction  
R.D. R. 245. S 5 or 6.

Alt. ca. 1550m.

*Sarcocolla*

All in *Sarcocolla*  
✓

*Sarcocolla* (6)

- 70000000

state to state with  
scattered

23  
~~Penstemon~~ ~~montanus~~

Penstemon  
montanus

Penstemon fremontii Torr. & Gray

det. Noel Holmgren

Penstemon (7)

11398 20 May 1976

Went to water

Same place as 11397.

Small, mostly small,

some larger. Several

with

a yellow eye. Only one  
or two mitlets maturing.

Mature mitlet evidently  
longer to barely shorter

than the style, strongly  
recurved basally, dorsally

more tuberculate ventrally.

*Cryptantha humilis* (A. Gray) Payson  
var. *nana* (Payson) Payson

*Cryptantha*

11399 20/11/1952

Wintale Co. 1506

Sample 11397

Leaves blue glaucous,  
soft and brittle.

Flowers yellow.

*Cymopterus duchesneensis*

M. E. Jones

*Cymopterus* (6)

11400 - 20 May, 1976

Hintala Co., Utah

Same place as 11373.

Leaves green, not glaucous.

~~Plant very young.~~

*Cymopterus purpureus*.

S. Wats.

11400 - 20 May, 1976 (5)



~~11401~~ 11401 - 20 May, 1976,

Vinto Co., Utah.

Same place as 11397.

F Aging flowers white  
or ochroleucous  
with a purple tipped  
head.

*Astragalus purshii* Dougl.  
var. *purshii*

det R. C. Barneby

*Astragalus* (7)

1140 2-20 May, 1976.

Uintah Co., Utah.

Same place as # 1397.

Flowers yellow.

*Physaria australis* ✓

(Payson) Rollins

*Physaria* (10)

11423 - 20 May, 1935.

Uintah Co., Utah.

Same place as 11397.

Plants very loosely  
caespitose and coarse,  
woody taproot. Heads  
small. Gray (6/1/35).

*Haplophragma armerioides*

(Nutt.) A. Gray

*Haplophragma armer*

(5)

11404 - 21 May, 1970  
Cintah Co, Utah,  
along a shaly sandstone  
ridge in sagebrush  
country ca 7-8  
km south of Capitol Ridge  
ca 40 km, Airline  
west of + 5 larval, T up.  
15, R. 25E, ca. S. 19. Elev.  
ca. 1600 m. Days white,  
5-5-10-10-10-10

*Machaeranthera venusta* J.

(M.E. Jones) Grass Rock

8

*Machaeranthera venusta* J.

1405 - 21 May, 1946

St. Louis, Mo., U.S.A.

In sandy soil, shallow  
ground water

Country - as in 1406

Flowers pale blue or  
reddish-purple, the  
petals somewhat  
fringed, heavily veined  
with purple.

Stem very delicate, attached  
to the cluster of  
tuberous thickened roots.

Definitive name - Pritzl

at St. Louis

Asplenium

10

11406 21 May, 1976

Winters, Utah.

Same place as 11405 &  
Rays ca 12-22, light  
pinkish, nearly white.

Townsendia incana Nutt.

Townsendia

11407 - 21 May, 1976.

Same place as 11404.

Flowers pink-purple.

*Astragalus chamaeleuce*

A. Gray

det. R. C. Barneby

✓ ✓

*Astragalus* (5)

11408 21 May, 1976

Same place as 11404.

Faintest light yellow,  
fading to ochraceous  
in eye.

*Cynopterus fendleri*

J. Gray





17409. 23. May, 1976

Emery Co., Utah. Sandy,  
gravelly soil in pinon-  
-juniper woodland on the  
San Rafael Swell south

of Eagle Summit, ca 25 km.

airline southeast of

Moore. Twp. 22S., R. 9E., S. 33.

Elev. ca. 2100 m. Rays

on 12 heads 28, 32, 35, 38,

39, 40, 40, 42, 55, 56,

50, blue-lavender or

mostly white,

*Erigeron purpureus* Nutt.

*Suaeda concinnoidea* Cronq.

var. *condensatus* (P.C. Eati

Cronq.

(11)

*Eriogonum fasciculatum* Link.

11410 - 23 May, 1976

Emery Co., Utah

Same place as 11409

Scapes solitary to  
several or numerous.

Head yellow, Rays  
mostly ca 13, solum  
as for 118.

*Hymenoxys acaulis* (Pursh)

K.T. Parker

*var. arizonensis* (N.S.P.)

K.T. Parker

*Hymenoxys acaulis* (Pursh)

11411 - 23 May, 1976.

Arroyo de, Utah

Same place as 11409.

Fronds white, with  
a dense eye stems  
clustered, ascending.

Notlets rugose tuberculate  
on both sides, the long,  
open scar with a con-  
striction below the  
middle and bordered by a  
raised rim.

*Cryptantha flavoculata*

(A. Nels.) Payson

*Cryptantha* (10)

11412 - 23 May, 1976

Emery Co., Utah,

Same place as 11409.

Stems numerous, closely  
clustered, short.

Flowers yellow.

*Lesquerella alpina* (Muhl.)

S. V. S.

var. *alpina*

10

11413 - 23 May, 1976

Emery Co, Utah  
Stems few, rather  
widely ascending.  
Flowers yellow  
Sample no. 11409

*Lesquerella kingii* S. Wats.  
subsp. *latifolia* (A. Nels.) V  
Rollins + Shaw

Large *Lesquerella* (7)

11414 - 23 May, 1976

Emery Co., Utah

Same place as 11409.

Ray white above,  
pinkish beneath,  
most by ca 13, ranging  
downward to a  
minimum of 8.

*Townsendia incana* Nutt.

*Townsendia*

(4)

11415-23 May, 1976  
Troy Co, W. Va.

Same place as 11409.

Flowers pinkish.

Plants mostly not  
flowering this year.

*Chamaeneris*

*scaposa* (Walters) Rydb.

✓

*Chamaeneris* 2

11416 - 23 May, 1976,

Emery Co., Utah

Same place as 11409.

Flowers lavender,

the banner with a

central pale spot.

Pods thick-walled, with

a small central cavity.

*Astragalus cymboides*

M. E. Jones

det R. C. Barneby ✓

*Astragalus*

(6)



11417. 24 May, 1926

Emergy Co, Utah. In canyon

along road with scattered

shrubs, a large tree

at base of hill north of

South Fork of

Colorado River

at base of hill north of

South Fork of

Colorado River. Corolla limb

white with a yellow eye,

with a large 12-15 mm

wide, white, waxy nectary

in each and shining,

tending to be slightly

separated at the

Sharp margins.

✓  
*Cryptantha johnstonii*  
Higgins

151  
10  
*Cryptantha aff. jamesii*

11418. 24 May 1952.

in open, flat, shaly,  
sandy clay gentle slopes  
with *Atriplex confertifolia*,  
and *Ephedra* just north  
of the Salt Wash  
ground 11417.

... line to  
evidently *pinastifolia*,  
Flowers white.

*Silia congesta* Hook.

var. *congesta*, passing to

var. *frutescens* (Nutt.) Cronq.

*Silia* 10)

11419 - 24 May, 1976

Emery Co., Utah

~~2 mi. from as 11418~~

*Astragalus mesiniensis*

M. E. Jones

det. R. C. Barneby

*Astragalus* (2)

11420 - May, 1952

Emery Co., W. Va. on  
barren shaly gray  
slopes with scattered  
*Artemisia*, *Atriplex*, and  
*Ephedra*, just north of  
South Salt Lake, on 20  
mi. airline southeast of  
Honor Top 22 S, E. 5 E, S. 14.

Fls. ca 18 mm. Plants  
mostly odorless. Corolla  
~~to~~ pale lavender, the  
erect filaments more  
strongly lavender-purple.

*Phacelia crenulata* Torr., s. n. lat.  
(*P. rufocincta* A. Wood)

*Phacelia crenulata* (10)

11421 - 24 May, 1976.  
Emery Co., Utah. In  
shallow washes in  
barren clay hills ~~with~~  
with scattered Artemis-  
ia, atriplex, and Ephedra  
--- as in 11420. Leaves  
~~blue green~~ blue glaucous,  
lower achromatic, the  
wings and keel lavender-  
purple.

*Astragalus asclepiadoides*  
M. E. Jones

det. R. C. Barneby

*Astragalus asclepiadoides*

(10)

11422-24 May, 1976

Emery Co., Utah. Same

place as 11420. Stems

loosely clustered on a

coarse, woody taproot

and branching caudex.

Leaves blue-green.

Stems 4, yellowish,

toothed across the upper

side towards tip, the

3 marginal teeth the

largest.

*Euphorbia paimeri*: Engelm.

Var. *subpaimeri*: (Engelm.) L. C. Wheeler

Wheeler

*Euphorbia*

(5)

(10)

✓

11425 24 May, 1976.

Emery Co., Utah - Barren

clay slopes and flats

in north part of 30 1/2

to 5 km. airline

to south of 30 1/2.

Traps 21 or 22 S, 11

7 E, Elev. ca 1850 m.

Herbage somewhat

glaucous. Flowers

yellow. Heads

erect to widely spreading

*Caulanthus divaricatus* Rollins

all stamens +



11426 - 2nd June 1962

Grand Co., Utah.

Abundant in clay, massive  
limestone bedrock of

Interstate Highway 12,  
and valley;

ca. 88 km. by road east

of Green River in striped

limestone plateau about 1000'

This site is about 1000'

above the highway

right of way, 1 square

Trapp. 205 1 m. Elev. ca

*Penstemon moffatii*

Eastw. var. *moffatii*

*Penstemon*

(10)

det Noel

et Holmgren

11472 25 Aug 1962

Mesa, Co., Durango

Common in riparian - low

in desert just east

of West Park Lake

1500' elevation

at West Park Lake

~~Common in riparian~~

Twp. 9S., R. 10W. <sup>Area 27</sup> 2E.

ca 1400m.

Flowers bright white.

Bracts dull pinkish or  
whitish

*Abronia elliptica* A. Nels.

*Abronia*

(11)

11428. May 1951

along a dry wash in Atriplex -  
Sarcobatus desert just  
east of West Salt Creek,  
ca. 1/2 km. airline northwest  
of Mt. Top 95, R 104W.  
Elev. ca. 1400 m.

Openly branched, spiny  
shrub ca. 1 m. tall  
Flamboyant

Tetradymia spinosa Hook. &  
Arn.

Tetradymia (3)

11429 - 25 May, 1976

Waco Co., Va. Same

place as 11428. Flowers

white with a yellow eye.

Petals narrow, sharply

marginated, strongly

rugose-reticulate on

the back, somewhat less

so ventrally, and with

an elongate, ventrally

closed scar.

*Cryptantha elata* (C. D. C.)

1270

*Cryptantha* (3)

May 25 May, 1971

Mesa, Chiricahua

~~Pinus~~ ...

...  
...  
...

...  
Temp 88, R 100, W ...

...  
...  
...

*Gilia inconspicua* (Smith)

Sweet,  
sens. lat.

*Gilia* (10)

1143/ 25 May 1936.

W. H. S. ...

... 1930.

*Cymopterus fendleri* A. Gray

11

*Cymopterus fendleri*

11452 - 25 May 1974

Monte Vista Co., Colorado

Same place as

Flora ...

...

...

...

...

...

...

Allium Nevadaense S. Wats.

... Nevadaense ✓

Allium (H) (10)

11433 - 25 May, 1976

Alameda Co., California

Sierra Nevada mountains

Sierra Nevada mountains

about 10 miles

from the summit

of Mount Dana

Sierra Nevada mountains

Sierra Nevada mountains

Sierra Nevada mountains

*Astragalus convallarius*

Greene

var. *convallarius* ✓

det. R. C. Barneby

*Astragalus*

(15)



11434 - 25 May, 1976

Mesa Co., Colorado

Same place as 11433.

Stems terete, ...

Short ssp. ...

... leaves ...

anthesis rather deep

... the ...

...

*Astragalus asclepiadoides*

M. E. Jones

det. R. C. Barneby

*Astragalus asclepiadoides*

(5)

11435 . 25 May, 1976

Mesa Co, Colorado

11435  
11435

*Chaerophyllum stevioides*, H. & A.

*Chaerophyllum* 11435

11436 25 May, 1976.

Mesa Co., Colorado.

11436 & 11430.

*Beetle scarab*

*Castilleja chromosa*

A. Nels.

det. Noel H. Holmgren

*Castilleja* (10)

11437 - 25 May, 1976

Mesa Co., Colorado

Rayco 13, perkins

Townsendia incana Nutt.

Townsendia (2)

11438 - 25 May, 1976

Mesa Co, Colorado

~~11439 - 25 May, 1976~~

~~Plants initiated in~~

~~the plants, but~~

~~in the mountains, and~~

~~some of the plants~~

" Involucres

4-lobed!

✓

*Eriogonum inflatum*

Torrey + Fremont

var. *fusiforme* (Small)

Reveal

*Eriogonum inflatum* (2)

11439 - 26 May, 1976

Rocky

scattered *Atriplex*, just west of West Salt Creek, ca 16 km. Airline north west of Mack, Twp. 8S., R. 104W., ca. S. 27, E. 1/4.

ca. 1450 m. Plants single-stemmed, *Cirsium* ~~truncatum~~ *manucarpis*. Corolla white; anthers and style faintly lavender. *Cirsium neomexicanum* / 5198

*Cirsium* (5) 10. 11. 11.

11440 - 26 May, 1976.

Mesa Co., Colo. With

scattered *Atriplex* and  
*Artemisia* on open,  
prowly clay slopes  
and swales just west  
of West Salt Creek, ca.  
16 km. airline north-  
west of Meach. Twp. 8 S,  
R. 104 W., ca. S. 27. Elev.  
ca. 1450 m. Petals white  
rich lavender pink,  
with a slim red accent  
near the top of the yellow  
basal area. Head  
sessile, ovoid.

than high.

*Calochortus nuttallii*

T. & G.

( )

*Calochortus*

(10)



11441 - 26 May, 1976  
Mesa Co., Colorado.

With scattered *Atriplex*  
and *Sarcobatus* on clay  
benches just west of  
West Salt Creek, ca 16 km.  
airline north-west of  
Black Top 85, R. 104 W, ca.  
S. 27. Elev. ca. 1450 m.

Plants extensively creep-  
ing below ground. Flowers  
8-14, pink to rich pink-  
purple, rarely white.

*Lycium grandiflorum*  
(Nutt.) T. & G. ✓

*Lycium grandiflorum* (10)

11442 - 26 May, 1976.

Wick Co., Colo. Wick

... strip on  
... slope just  
...  
... north  
...  
...  
...  
... purple

*Penstemon moffatii* Eastw.

var. *moffatii* ✓

det. North Holmgren

*Penstemon* (41)

11443-25 May, 1976

Mesa, Florida Open,

gravelly clay slopes  
with scattered cypripedium,  
and some salt  
marsh in the distance.

Plants forming small  
clumps surrounded  
by grass. Heads yellow.  
Ray 8-13.

*Bahia nudicaulis* A. Gray

*Bahia nudicaulis* (7)

11444 - 20 May, 1976

Near 25, Palawan

Wet forest (striped)

...

...

... 11442.

*Rapanea palawanensis*

34-50 (5 counts)

*Erigeron pulcherrimus* Heller

var. *wyomingia* (P. D. Cronq.)

*Erigeron pulcherrimus* (10)

July 26, 1911, 1911.

Cherish Co., Colorado.

Same place as 1141.

Flowers ochraceous  
to nearly white,  
the base with a  
purple internal spot  
or pale spot near the  
tip.

*Astragalus flavus* Nutt.

var. *flavus*

det R. C. Barneby ✓

*Astragalus flavus* (6)

11445 - 26 May, 1976.

Manitou, Colorado.

Very scattered *Atriplex*  
in the clay river.

Large plant with small  
leaves, very common.

Petals ~~yellow~~, white.

Stipules glaucous  
complanate, yellow.

*Arenaria eastwoodiae* Rydb.

var. *eastwoodiae*

*Arenaria*

(107)

11447 - 26 May, 1976

Mesa Co, Colorado. On

barren clay slopes in  
flourishing grassland

to west of Wood Salt

water as in 11442;

flowers yellow.

*Oenothera scapoidea*

T. & G.

var. *scapoidea*

*Oenothera* F.

11445 - 26 May, 1976

Mesa Co., Colorado. With

scattered *Alnus* on  
barren granitic  
slopes just west of West  
Salt Creek. as in ~~11442~~

11442. Perianth pinkish  
to rose-purple.

*Eriogonum bicolor*

M.F. Lowe

*Eriogonum*



11449-26 May 1944

Wash. Co. Oregon

Barren gravelly clay  
slope with scattered  
Atriplex, just west of  
Mt. Laird Peak.

in 11442.

flowers pink purple

*Astragalus amphioxus*

A. Gray

var. *vespertinus* (Sheld.)

M. E. Jones

det. R. C. Barneby

*Astragalus* 

11450. 26 May 1976

Rio Blanco Co., Colorado,

Juniper woodland  
position northeast-facing  
sandstone slope overlooking  
in gully + Evacuacion Creek,  
ca. 5 km. airline north  
of Arch. Truss, U.S. R. 103  
W., T. 5. 19. Elev. ca. 1000 m.  
Flowers white

*Androsace septentrionalis* L.  
sens. lat. ✓

*Androsace*

(6)

11451-27 May, 1976

Rio Blanco Co., Colombia  
On clay embankment  
~~with~~ of West Evacu-  
ation Creek, with  
*Artemisia*, *Chrysothamnus*,  
and *Larrea trichus*, ca. 5 km  
airline north of Misch. Top  
S. 133 W.,  $\frac{1}{2}$  ca. S 19.

Elev. ca. 1900 m. Herbage  
glaucous. Flowers  
blue purple.

*Penstemon osterhoutii* Pennell  
det. Noel H. Holmgren

*Penstemon* (1)

11492 27 May, 1926

Rio Blanco Co. Colorado.

Same place 11450.

Corolla white with  
a yellow eye. Nectary  
strongly tuberculate  
reticulate on both sides;  
scar open, with a strongly  
raised border, slightly con-  
stricted below the middle.

*Cryptantha flavoculata*  
(A. Nels.) Gray

*Cryptantha* (7)

1145 - 27 May, 1976.

Rio Blanco Co., Colo.

Same place as 11450.

Plants forming loose

clumps from an acaulescent

perennial. Leaves persistent

Parolla white to light pink,

often white with a

small pink eye.

Fls. sessile, white to pink.

Phlox 11450

114151 77 May, 1976.

Kio Blanco Co, Colorado.

Same place as 114150.

Approximately 10-16,  
white or pinkish

*Townsendia mensana* M.E. Jones

var. *MENSANA*

*Townsendia* (?)

11650 - 27 May, 1970

Rio Blanco Co., Colorado,

Same place as 11650.

Flower: lavender purple.

*Arabis crandallii* B.L. Robinson

*Arabis* (10) 71°

27 May, 1976

Montealegre Co, Utah

With scattered junipers  
and sagebrush on  
open, stony ridge  
just east of Emancipation  
mine and just west  
of Park Canyon, ca 2<sup>3</sup> km  
inland <sup>southeast</sup> south of Boreana

Trwp. 11 S., R. 25 E., S. 28.

Elev. ca. 1700.

flowers blue

*Penstemon osterhoutii*

Pennell

det. Noel H. Holmgren

*Penstemon* (S) 10



11457 - 27 May, 1976

Monte S. Uto

Samplings 1136

Flora

*esquerella alpina* (Nutt.)

S. Wats.

var. *alpina*

*esquerella* (3)

11458 - 27 May, 1976

Wasatch Co., Utah

With sagebrush on a very  
gentle slope just east of  
Carrington Creek and

just south of Park

Highway, ca. 2<sup>3</sup> km. airline

south of  
~~base~~ of Bannock

Twp. 11 S., R. 25 E. ~~Sec. 10~~

Elev. ca. 1650 m.

Ray 1" 16, white to  
pinkish

*Townsendia incana* Nutt.

*Townsendia* (15)

11 May 1976. Gintah  
Gintah - Open, shaly flats  
in sagebrush zone, ca  
3 mi. <sup>VA</sup>

... with  
...  
... <sup>southeast</sup> ... of

... Twp 11S., R. 25E.  
... 15-16. Elev ca. 1800m.

Herb: yellow. Rays 8-15,  
... 8 ...

... (Furshi)

K.T. Parker

var. caespitosa (A. ...)

K.T. Parker

...  
Hesperis matronalis

(7)

100 27 May 1916

Uintah Co, Utah

~~Sam. ...~~  
Flowers lavender.

*Astragalus pubentissimus*

Tit G.

det. R.C. Barneby



*Astragalus* D

11461-27 May, 1976. Vicuña

Co. Utah, same place

11459. - Same place

Leaves: shallowly stem  
channeled or nearly  
flat below, rounded  
apex.

Allium textile Nees.

✓ Macbr.

Allium textile (2)

11462-27 May, 1976.

Wirta Co. Utah.

Shaly slopes and scree  
with sagebrush.

ca. 15 km. airline

<sup>south east</sup>

~~South of~~ <sup>of</sup> ~~Wauanza~~.

Temp. 12.5, 2.0 +

S 23-33. Elev. just under

17000 ft. Flowers lavender.

*Penstemon comarrhenus* A. Gray

det. R. S. Holmgren

*Penstemon* (10)

11463-2 = May 1957

Windsor Co. Vt.

*Saxifraga*

*Astragalus chamaeleuce*

A. Gray

det. R. C. Barneby ✓

*Astragalus* (?)

11464. 27 May, 1976  
Cedar Co, Utah.

Barren, shaly knolls in  
sagebrush zone on  
low acidic soil about  
Barren, map 105, 1958,  
S. 29. Elev. ca 1750 m.

Plants mostly single stems  
with some branching  
at the base. Small roots  
with greenish yellow  
the color of the soil  
flat

*Cryptantha rollinsii* I.M. Johnston

*Cryptantha* (4)



11465 - 27 May, 1975

Utah Co. State Game

perennial. Deep-rooted,  
colonial perennial,  
presumably creeping  
below ground. Perianth  
rich pink to pale  
pink-lavender. Plants  
succulent. Leaves  
glaucous.

*Hermidium alipes* S. Wats.

var. *pallidum* C. L. Porter

*Hermidium*

(4)

11466 - 28 May, 1976.

Uintah Co., Utah

On open, stately slopes,  
with sagebrush, ca 2 km

north of Bannock

Twp 9S, R. 24E, S. 14.

Sea, just under 16000

m. Flowers blue to  
blue-purple.

Penstemon fremontii Torr. & Gray

det. Noel Holmgren

Penstemon



11467. 28 May 1956.

Wentworth Natl.

near place above.

Flowers pink purple.

*Astragalus mollissimus*  
Torr.

var. *thompsoniae* (S. Wats.)  
Barneby

det R.C. Barneby ✓

det R.C. Barneby

11468-28 May 1970

Wendell Co. Idaho

Same place as 11466.

Plant monocarpic,

perhaps living 3

years. This is the first

of this species. Corolla

white, ~~with~~ with a

yellow throat. Plants

only slightly uprooted.

*Gilia stenothyrsa* A. Gray

Flowers white (10)

11469 - 28 May, 1972

with scattered junipers

and sagebrush on barren

dry knolls just north

of Deadman Bench

Divide, ca. 20 km

~~on~~ ~~an~~ ~~airline~~ northwest

of Beranza. Twp 75,

R. 25 E. S. 22 E.

ca. 1700 m. Leaves

conspicuously bluish-

-argenteous. Corolla

white with a yellow

eye. Nutlets marinate on base of

*Cryptantha breviflora* (Osterh.)

*Cryptantha* (10)

Payson

11470 - 28 May 1976

Sierra Nevada

Scarp area 467

Flowers white with  
a yellow eye.

Petals strongly

rugose, especially at the

apex, with an elevated

border, slightly crenulate

below the middle.

*Cryptantha flavoculata*

(A. Nels.) Payson

*Phacelia*



11471-28 May 1976

Yintah Co. Utah

Same place as 11469.

Flowers white.

Plants somewhat mesophytic.

*Gilia congesta* Hook. ✓

var. *congesta*

*Gilia*

(10)

~~Yintah Co. Utah~~

11472 - 28 May, 1956

Hinckley Co, Utah.

Same place as 11459

Flowers purple

*Astragalus spatulatus*

Sheld.

var. *spatulatus*

det. R.C. Barneby



*Astragalus* (3)

341



11473-29 May, 1976

Wentworth Co., Wash

Barren red clay slopes

along the southern side

Antelope Draw

~~Antelope Draw~~, ~~Wentworth Co.~~, ~~Wash.~~

across road at Bamanga,

Twp. 8 S., R. 2 E., S. 15.

Elev. ca. <sup>1450</sup>~~1400~~ ft. Flowers

hermaphroditic, full bloom

flowers

*Eriogonum salsuginosum* (Gray)

Hook.

*Polygonum* (13)

11474 - 29 May 1976

Clint Co, Utah

same place as 11473

Corolla dark

longer in color, the

light yellow

*Phacelia demissa* A. Gray

*Phacelia* (3)

11475 - 29 May, 1976,

Montana Co., Idaho  
Same place as 11473.  
Flowers yellow.

*Oenothera scapoidea* T. & G.  
var. *scapoidea*

*Oenothera* (6)

11476 May, 1946  
Cintah Co, Miss  
Same place as 11473

All in textile  
✓

All in textile (3)

11477 - 29 May, 1976

Montealegre Co., Utah

Sandy clay benches <sup>(Glen Bench)</sup> with

Sarcobatus ~~sp.~~ <sup>crispus</sup> striping,

Tilladymia, etc., shortly

~~south of A. apt. 1000~~

~~area~~ <sup>24</sup> ~~1000~~

west of Bonanza Top 85.

N 22 E, S <sup>15</sup> ~~17~~ E. Slope <sup>1500</sup> ~~1400~~ m.

Flowers white, the marginal ones slightly enlarged.

Chaenactis ~~sp.~~ <sup>sp.</sup>

Chaenactis (10)

1976 May 29  
1976 Uintah Co., Utah  
Samuelson 11477.

Flowers white.

Maturing nutlets all  
alive, longer than the  
style, with scattered  
small tubercles dorsally,  
less so ventrally.

*Cryptantha ambigua* (A. Gray)

Greene

*Cryptantha* (10)

11479. 29 May, 1976  
Kane Co., Utah  
Sandy clay benches <sup>(Glen Beach)</sup> with  
Sarcobatus, Grayia,  
Atriplex, etc. -- as in  
11472. Openly branched  
shrubs to ca. 6 dm. tall.  
Flowers bright yellow.

*Tetradymia spinosa* Hook. &  
Arn.

*Tetradymia* (4)

11450 - 29 May, 1976,  
Glendale Co., Utah. In  
the sandier parts of  
sandy clay. <sup>16' low</sup>  
~~just~~ ~~shortly~~ ~~south~~  
~~of~~ ~~the~~ ~~road~~ ~~and~~ ~~ca.~~  
<sup>24</sup> ~~24~~ <sup>northwest</sup> ~~24~~ <sup>1500</sup> ~~1450~~ <sup>11</sup>  
along a ~~line~~ <sup>line</sup> ~~west~~ <sup>west</sup> of  
Bannock, with *Sarco-*  
*calus*, <sup>Grayia</sup> ~~Gray~~, *Tetradymia*,  
*etc.*, 7 up 8 S., R. 20 E.,  
S. <sup>15</sup> ~~14~~ <sup>1500</sup> ~~1450~~ <sup>11</sup>  
Flowers yellow. Pappus  
wholly deciduous.  
*Malacothrix souchoides* (Nutt.)  
*Malacothrix* (2)



11481-29 May 1961

Winda G. F. T. B. Barren

rocky clay knolls ca. 17

km. airline west of Bonanza.

Tray. 9 S, R. 22 E, S. 24

Elev. ca. 1500 m. Plants

Colonial by more or less  
deep-seated creeping roots.

Heads yellow. Rays

♂ 15, ♀ 13.

*Bahia nudicaulis* A. Gray

*Bahia nudicaulis* (6)

11482 29 May, 1936

Same place as 11481,  
Rays white to pink,  
8-17, after 13.

*Townsendia strigosa* Nutt ✓

*Townsendia*

(10)

11483 - 29 May, 1976  
Uintah Co., Utah. Barren  
clay knolls ca 15 km.  
airline west of Bannock,  
Twp. 9 S., R. 23 E., S. 30.  
Elev. ca 1500 m. Rays  
25-44 white to pale  
lavender.

*Erigeron pulcherrimus* Heller  
var. *wyomingia* (Rydb.) Cronq.

*Erigeron p. wyomingia*

9

11484 - 30 May, 1936.

Monte L. de la Cruz. Around  
the borders of swamps,  
alkaline, somewhat alkaline  
around pond in the  
forest ca 11 km. air line  
west of Rancho. Temp.  
15, R. 25E, S. 22, Elev.  
ca 1500 m.

*Eleocharis palustris* L.

*Eleocharis* (?)

11485. 30 May, 1936.

Wintoh Co., Utah.

Same place as 11484. Rhizomes  
producing very hard tubers.  
Stem sharply trigonous.

The same species growing  
much robustly (6 dm tall  
and more) in highly al-  
kaline seep below the dam.

*Scirpus maritimus* L.

var. *paludosus*

(A. Nels.) Kuekenhal

*Scirpus* (12)

11456 - 30 May, 1976.

Wintah National Forest, Oregon

Day slopes in pine-juniper  
or woodlands <sup>along Kings River</sup> shortly

south of Cliff Ridge

and ca. 40 km. west of

east-southeast of Tualatin

Elev. ca. 1800 m.

Stems solitary. Herbage

strongly glaucous. Petals

atropurpureous, with

pale margins

Twp. 55. R 25E, S. 33

*Caulanthus crassicaulis* (Torr. ex) S. Wats.

*Caulanthus* (10) ✓

11487 30 May, 1976

Hinds Co., Utah.

Same place as 11486.

Stems solitary. Flowers yellow. Fruits mostly suberect, owing to sometimes more or less widely spreading.

*Erysimum asperum* Nutt.,

sens. lat.

*Erysimum capitatum* (10)

11453 - 30 May, 1976

Uintah Co., Utah

Same place as 11452.

Stems pubescent

- cespitose. Flowers

white, the bracts

with lavender guide-

lines.

*Astragalus spatulatus*

Sheld.

var. *spatulatus*

det. R C Barneby

*Astragalus* ?



11489 - 30 May, 1976

Uintah Co, Utah

Same place as 11456.

Flowers yellow.

✓  
*Physaria australis*

(Payson) Rollins

*Physaria* (8)

940

11490 - ~~30~~ May, 1976

Uintah Co., Utah

Juniper wood-  
land <sup>above Miner's Draw,</sup> near the base of

Cliff Ridge, ca. 40 km.

airline east-southeast

of Vernal Elev. ca. ~~1900~~ 1900

map. Twp 5 S., R. 25 E.,

S. 27.

Plants caespitose, mostly  
biennial, sometimes  
blooming twice.

Corolla scarlet.

*Gilia aggregata* (Pursh) ~~Spreng~~

Spreng.

*Gilia aggregata* (15)

1491 - 31 May, 1976

Uintah Co., Utah.

Rocks generally light-colored  
Miner's Draw, in shadow of high rock

~~draw~~ draw, shortly  
south of Cliff, ~~ridge~~

Ridge and ca. 40 km.

airline east-southeast

Bernal. Twp. 25, R. 25E,

S. 27. Elev. ca. 1350 m.

Stems clustered and upright

and branching caudex

Herb yellow, with ~~leaves~~

10-14 rays.

*Hymenoxys richardsonii* (Hook.)

Cockerell

var. *richardsonii*

*Hymenoxys* ⑧

11492 31 May 1976

Utah Co., Utah.

Large rock openings in  
pinon-juniper wood-  
land ~~along a road~~  
Miner's Draw,

shortly south of Cliff  
Ridge and ca. 40 km.

airline east-southeast

ofernal. Twp 6 N. R15 E.

S. 27, Deer, CA 1850 m.

light yellow

✓

*Crepis occidentalis* Nutt.

var. *occidentalis*

*Crepis* (3)

11493 31 May, 1976  
Uintah Co., Utah, on  
barren gray clay slope  
in pine-juniper zone  
along <sup>Millers Drain</sup> ~~drain~~ shortly  
south of Hill Ridge and  
ca 40 km. or more  
east-southeast of  
Vernal, Twp. 55. R. 25E. S. 22E.  
Elev. ca. 1850 m. Plants  
colonial, with long, slender,  
subterranean creepers.  
Flowers lavender  
*Vicia americana* Muhl. ex Willd.

*Vicia*

(10)

~~11094~~ 11094 31 May 1976

Uintah Co., Utah.

Pinon-juniper woodland  
along the base of Cliff  
Ridge, ca. 1/2 mi. east  
southeast of Vernal.

Twp. 55., R. 25 E., S. 27.

Elev. ca. 1900m. Rays

8-14, often 11 or 13, pinkish  
brownish, nearly white  
abaxial.

Townsendia incana Nutt.

Townsendia (1)

11495 3 May, 1976

Altiplano near Rosario

sagebrush openings in  
pinon-juniper woodland  
shortly south of Cliff  
Ridge and ca. 40 km.

airline east-southeast  
of ~~the~~ Verud.

Rays mostly 18-24,  
white.

Twp. 5 S. R. 25 E S. 1

Elev. ca. 1850 m.

*Machaeranthera verudata*.

(M. E. Jones) Cronq. & Keck

*Machaeranthera* (3)

11496 - 31 May 1976

Uintah Co., Utah

Pinyon-juniper woodland  
Miner's Draw

about 2 miles south of C.C. (Coff)  
Kings and ca. 40 km.

east-southeast of Pernal.

Twp. 5 S., R. 25 E., S. 11 N.

Elev. ca. 1800 m.

Stems few, widely  
ascending. Flowers  
yellow.

*Lesquerella rectipes* Wootton ✓

+ Standley

*Lesquerella* (10)



11497 - 31 May, 1976.

Winters Co., Utah.

Same place as 11496.

Herbage strongly  
glaucous. Flowers  
blue to lavender-purple.

*Penstemon osterhoutii*

Pennell

Det. Noel H. Holmgren

*Penstemon* (4.) 1202

1947 31 May, 1976.

Utah Co., Utah. Found  
the base of brown clay  
~~slope~~ slopes in canyon  
grasses meadow just  
south of Cliff Ridge and  
a short distance east-  
southwest of camp.

Twp 5 S., R. 25 E., S. 33.

Elev. ca. 1800 m.

Flowers blue.

*Lupinus crevicalis* S. Wats.

Annual lupine (19)

11499-3; May, 1916.

Vintola Co. Utah.

Barren clay slope  
and about 1000 feet south  
of Hill Top and a 40  
foot section east-southeast  
of Vernal, Trip. 55. ~~11499~~,  
S. 33. Elev. ca. 1810 m.

*Thermopsis principis-gauche*

Plants densely colonial,  
erecting freely below  
ground, lower yellow, more  
or less white.

*Thermopsis rhombifolia* Nutt.

*Thermopsis?* (10)

11500 31 May, 1976.

Uintah Co., Utah.

Scattered in pinjun

juniper woodland

along Miner's Draw,

about 1/2 mile N of Cliff

mine, 1/2 mile W of

airline east-southeast

of Kernal, Twp 5 S, R 25 E,

S. 33. Elev. ca. 12000 ft.

Soils of mixed texture, silty

loam, somewhat

*Streptanthus cordatus*

*Streptanthus* (3)

11501-3, May, 1976.

Uintah Co., Utah. On

barren clay slopes of a  
knoll in piñon juniper  
zone just south of Wolf  
Ridge, area ca. 40 km.

mine last southeast of  
Kronat. Twp. 55, R 25E,

S. 33. Elev. ca. 1800 m.

Petals white. Antepodium  
glands conspicuous,  
yellow.

*Arenaria eastwoodiae* Rydb.  
var. *eastwoodiae*

*Arenaria* (7)

11507: 1 June, 1936

Vintail Co., Utah

(Mines' Wash)

In dry wash in piney

juniper woods

shortly south of Cliff

mine and ca 40 km,

distance east-southeast

of "Mines" - approx. 11.5

S 33. E. ca 180 m.

shrub-covered shrub ca

2 m tall. Bark

white, inconspicuously

marked with black in

*Leptodactylon pungens* (Torr.)

Nutt.

*Leptodactylon* p. 2

11503 - 1 June, 1976

Uintah Co., Utah.

In open piñon-juniper  
along Miner's Wash,  
westward from south  
of Cliff Lodge and ca 40  
km. airline east-southeast  
of Vernal. Twp. 50S., R. 25E,  
S. 33. Elevation 1800m.

Flowers white,  
withering pink.

*Oenothera trichocalyx* Nutt.

ex T. & G.

*Oenothera* 3 (7)

11504 - 1 June, 1976

Monte Vista Co., Utah, U.S.A.

~~pinus~~ juniper woodland  
on a broad low ridge

shortly south of the east  
end of Cliff Ridge, ca 45

km. or more east-southeast  
of ~~the~~ <sup>less than</sup> 1 km. west

of the Nevada state line,

Elko, ca. 2,200 m.

Twp. 5 S., R. 25 E., S. 29

Plants forming loose, ~~mat~~  
rooted mats on the ground.

~~Penstemon~~ Penstemon caespitosus  
Nutt. ex A. Gray

var. caespitosus

Penstemon (9)



11505 1 June 1976

Hinton Co., Utah. Same  
place as 11504. Flowers  
yellow. Corolla lobes  
erose and crisped-twisted.

*Lithospermum incisum* Lehm.

*Lithospermum* (10)

11506 / June, 1976

*Urtica cubilota*

Open sagebrush mesa

Toward the head of

Stuntz Draw, on the

Yampa Plateau,

~~ca. 1 km. less than 1 km.~~

from the Colorado

state line Twp. 4 S.,

R. 25 E., S. 25. Elev. ca.

2300 m. Flower 5-35;

tepals white with a

purplish median

*Urtica brandegei* S. Wats.

*Urtica brandegei* (10)

11507 1 June, 1976

~~Same~~ Same place  
as 11506. Herbage  
slightly glaucous.  
Flowers white.

*Thlaspi* (1)

11508 1 June, 1976.

Same place as 11506

Flowers deep blue,  
the upper petals paler,  
with blue veins.

*Delphinium nuttallianum*

Pritzl et Walpers

Larkspur (3)

11509 1 June 1976.

Mentale, Uta

Samoa 11506.

~~Ferns blue~~

Corolla blue,  
glabrous within.

*Mertensia oblongifolia*

(Nutt.) G. Don

*Mertensia*

(19)

11510 | June 1976

Mintak Co., Utah.

Sample no. 11506.

Corolla white with a  
light yellow eye.

Gymnosteris parvula Heller ✓

Gymnosteris parvula (10)

11511-1 June 1976  
Mintak Co., Utah.  
Same place as 11506.

Ranunculus glaberrimus Hook.  
var. ellipticus Greene

Ranunc. glaber. (4)

11512 - 1 June 1976

Clinton Co. N.Y.

Woods scattered *Pinus strobus*  
pines atop Cliff Ridge,  
ca. 40 km. distance east-  
southeast of Warren.

Map 55, R. 2, S. 21.

24. 4. 43. m.

*Pinus strobus* ~~sp. nov.~~

Stems forming

3 to 6 dm. tall

leaves bright green

terminal cones

*Arctostaphylos* *pauciflora*

*Arctostaphylos* *pauciflora*



11513 - 2 June 1966

Uintah Co., Utah.

Sagebrush table-land  
shortly northeast of  
Cliff Ridge, and ca. 40+  
km. east-northeast of  
Vernal. Twp. 35 S., R. 25 E.,  
~~ca. S. 10 or 15.~~ S. 10 or 15.  
Elev. ca. 2300 m.

Petals white; anthers  
yellow. Developing  
fruits ribbed all around.

*Lomatium nevadense* (S. Wats.)

Coult. & Rose

Messinger? (4)

11514 - 2 June, 1976

Uintah Co., Utah.

Same place as 11513.

Flowers whitish, with  
a trace of anthocyanin

*Trifolium gymnocarpon* Nutt.

var. *gymnocarpon* Nutt.

*Trifolium* (10)

11515 - 2 June, 1976

Uintah Co., Utah

Sagebrush table land of Blue

Mountain Nation, ca 5 km

north of the more easterly

part of Cliff Ridge, and

ca. 45 km. airline

east-southeast of Vernal

5, 10, 11, or 15.

Trps 55 R. 25E. ca. 5.5

Elev. ca. 2300 m.

Corolla rich pink-purple;

filaments tube yellow;

anthers atropurpureous

*Dodecatheon pauciflorum*

(Durand) Greene

*Dodecatheon* (10)

11516 2 June, 1976

Uintah Co, Utah

Same place as 11515.

Petals 8-10, pure white.

Stigmas 5-7.

*Lewisia pygmaea* (A. Gray)

B. L. Robinson

*Lewisia*

(4)

11517 2 June, 1976

Moffatt Co., Colorado,

Grasslands in sandstone  
soil on a roughly  
table land shortly north-  
west of ~~Stuntz~~ Stuntz  
Reservoir, on the Yampa  
Plateau, scarcely  $\frac{1}{2}$  km  
from the Utah ~~border~~ border.

Twp. 6 N., R. 10 W., S. 35.

Elev. ca 2300 m. Petals  
light yellow. Parnous (5)

*Ivesia gordonii* (Hook.)

T. & G.

*Ivesia* (1)

1146



59  
 30 31 5137  
 25  
 39 46  
 40

Banana, in 95, R. 24E, S23

55, 25E, S. 33, NE 1/4  
 NE 1/4. 1974. BLM

55, 25E, S. 33, NE 1/4  
 NE 1/4. 1974. BLM

801-374-1211

et. 2582

BYC

June 14-15

7E	5E	7E	2E	CE	1E
5E	7E	CE	2E	6E	5E
7E	5E	7E	2E	6E	5E
5E	7E	CE	2E	6E	5E
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Handwritten scribbles

54

Handwritten notes on the left side, including the word "TIME" at the bottom.



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