$5.00 REWARD

for return to

Arthur Cronquist
New York Botanical Garden
New York 5-8, N.Y.
9104-May 25, 1961. Rock Cressies in western Hel¬
slipry conglomerate reef, about 27 miles west of Little
River, along the road to Castle Dale (the Spanish
T Road), Emery Co., Utah.

Twp. 19S. R. 13 E,

light yellow. Pinus-Juniper Zone.

Eriogonum alatum Torr.

Hymenostyla aculea (Pursh) Parker
var. argyrea (Green) Parker

Chaenactis steviioides H. & A.

☑

*Erigeron pulcherrimus* Heller
var. *pulcherrimus*

Erigeron argutatus
9108. May 26, 1961 - Same place as 9107. Flowers white with a yellow eye. Inflorescence notably compact, forming a cylinder covered all around with flowers at anthesis, not opening up much at maturity.

Cryptantha marna (Eschrin.) Pays.
9/09 - May 26, 1961 - Sandy said

in open pinon - juniper
woodland at low summit
along highway 13 miles south of
Maah, San Juan Co., Utah.
Twp. 27S, R. 23E, S. 30, Elevation
5600 feet. Herbage glaucous.
Sepals pale greenish. Petals
bright purple.

Asclepias cryptoceras Wats.
var. cryptoceras

Asclepias Cryptoceras
9/15 - May 27 192
Thin soil on sandstone
ridges, with scattered ponderosa
pine, pinions, and junipers,
near Forest Camp, 10 miles
north of Blanding, San Juan
Co., Utah. Twp. 35 S., R. 23 E.;
S. 16. Elevation 7000 feet.
Heads yellow, Rays about 13.

Hymenotus leptochelis (Gray)
N.D. May 27, 1961 - same date
co 9110 - Hentschell - Ranks 7-1

Genesis neomexicanus Gray

Genesis aff. canis D
Saw plant as 9110. Stems solitary or several. Herbage glaucous. Flowers bright lavender to blue-lavender.

Penstemon pachyphyllus Tray, "NS. Lat."

Lygodesmia grandiflora (Nutt.)

T. J. G.
May 27, 1961.
Same place as 943. Flowers 6 or less often, pink.

Stephanomeria etigua Nutt.

Dolphinium scaposum Greene
9116 - May 27, 1941. Same place as 9113. Heads white.

Chamaecistis sternissidae H. A.

Chamaecistis 9
9117. May 27, 1861. Same place as 9113. Raperwhite.

Townsendia annua Beaman

Townsendia 3

✓
9/18 - May 27, 1861

Same place as 9/13. Rays white, mostly about 13, sometimes up to 18. Dish yellow.

Leucelene ericoides (Torr.) Greene
9114, May 27, 1961 - Sam Yablon as 9113. Flowers yellow.
Seeds angular, densely papillate.

Mentzelia albicaulis Doug.

Gilia Gunnisonii T. & G.
9121. May 27, 1961 Red, sandy gravelly east ridges in desert along
the west side of Comb Wash, 9 miles west of Bluff, San
Juan Co., Utah. Twp 40 or 41S, R. 20E. Elevation about 4,600
feet. Aromatic shrubs mostly
3-6 dm. tall. Heads yellow. 
Rays hairless, more or less about 8 or
about 13.

Encelia fronticora Gray
var. resinosa Jones
9/22 - May 27, 1961
Same place as 9/22.
Handwritten.

Brickellia ablongifolia Nutt.
var. linifolia (Eat.) Rob.

Brickellia 13
9123 - May 27, 1875. Same placer as 9121. Island widely ascending.

Astragalus tranciustii Barnby

1 Holotype
9 Iso-type
Astragalus 10

*Mentzelia pumila* (Nutt.) T. & G.
9125 - May 28, 196 - Sandy soil on bench overlooking desert wash 7 1/2 miles northeast of Mexican Hat, San Juan Co., Utah. Twp. 41 S., R. 19 E. Elevation about 4000 feet. Leaves bright green, not glaucous. Wings of the fruits extremely variable, straight to strongly crinkled, those on the races of the fruit sometimes scarcely developed (as in Tomatium). No other species of Cymopterus or Tomatium seen in the vicinity.

Cymopterus newberryi
(Wats.) Jones

Cymopterus

8
Flowers pale lavender.
Plants mephitic. Seeds not becoming mucilaginous when wetted.

Silica hutchinsifolia Rydb.
9127 - May 28, 1861
Same place as 9125.
Flowers blue. Plant mephatic.

Phacelia coronata Torr.,
var. lat. (P. coronata A. Mels)
9128 - May 28, 1941, same place as 9126. Rays 13, yellow.

Helianthus petiolaris Ait. (H. fallax Heiser)
9129 - May 28, 1961 Sandy soil at edge of desert wash, 71/2 miles northeast of Mexican Hat, San Juan Co., Utah. Twp. 41 S, R. 19 E. Elevation about 4,000 feet. "Flora" about 1 m. tall. Heads yellow, with 8 rays.

Senecio longifolius Bentth.
9/30 - May 28, 1961 Sandy
sail along desert wash 7½ miles northeast of Mexican Hat, San Juan Co., Utah.
Twp. 41 S., R. 19 E. Elevation about 4,000 feet. Flower yellow.
Fruits indiglobose.

Lesquerella gordonii (Gray) Walp.
91.3 / May 28 1961
same place as 91.30.
leaves pale green, with
deep green speckles. Flowers
yellow.

Aenothera walkerii (A. Nels.) Panum
ssp. walkerii

Aenothera 0
9132 - May 28, 1961

Landy soil along desert
wash 7/8 miles northwest of
Mexican Hat, San Juan Co.,
Utah. Twp. 41S, R. 11E.
Elevation about 4400 feet.

Aromatic Turbo 2-6 cm. tall.
Flowers light blue lavender,
with some deeper purple dots
at the base of the lower lips.

Poliomintha incana (Torr.) Gray
1933–May 28, 1861—Same plan as 1913.1, Flammoryllo.

Cryptantha flavus (A. Nels.) P. T. Print
9/13/4 - May 28, 1961 Desert
3 miles north of Mexican Hat, San Juan Co., Utah.
T 41S, R. 19E. Elevation:
about 4000 feet. Rays yellow,
mottly about 8 or about 13.
Disk red-brown.

Gaillandia pinnatifida Torr.

*Sphaeralcea grassulariifolia*  
(H. & A.) Rydb.  
vnr. pedata (Torr.) Kearney
9-25 - May 28, 1941. Study
wafer tops in sandstone country
at south end of Monument
Valley, — mile north of Kayenta, Navajo Co., Arizona.

Plants nearly prostrate.
Corolla dull greenish-white,
with snow-white stamens.

*Chamaesaracha coronopus*
(Dunal) Gray

Solanum 3
9137  May 26 1961  Lamalice
as 9136  Corolla Pink-purple

Astragalus amphioxys
var. amphioxys

det. R.C. Barneby

Astragalus (ten spp) 〇 ✔
9138. May 28, 1961 Along the edge of a dry wash near the desert at the south end of Monument Valley, miles north of Kayenta, Navajo Co., Ariz.

Stems clustered and tapering and freely branched and 20 or occasionally 9 rays.

Hymenocarpa richardsonii (Hook) Cochrella

var. floridana (Gray) Parker

Petals rich yellow, marked with red toward the base on the inside. Flowers closing at night.

Calochortus metallicus

var. aureus (Wats.) Cronkry
May 29, 1961

Very sandy soil in desert 14 miles northeast of Tuba City, Coconino Co., Arizona.


Stephanomeria exigua Nutt.

Chaenactis macrantha Sat.
Perianth yellow

Eriogonum diversicatum Hook.

Phacelia lemissaGray

Psilostrophe sparsiflora (Gray) A. Nelson.

3, 2

Zimm
9145 May 30, 1961 Sandy banks along Cottonwood Creek, about 25 miles southeast of Cannonville, Kane Co., Utah. Rays about 13, white or nearly so.

Towmsendia incana Nutt.

Eum piceas 7/45. Flowers white.

Gilia congesta Hook.

var. frutescens (Rydb.) Coop.
9147. May 30, 1961 with scattered pinons and junipers
on barren clay slopes along Cottonwood Canyon, 21 miles
southeast of Cannonville
Kane Co., Utah. Dish yellow,
Rays 4-11, white.

Machaeranthera glabriscapa (Nutt.)
Crong. + tech
var. confertifolia Crong.

Macranthera tortifolia (T. & G.) Craig & Keck var. imberbis Craig.

(w) 21. 69
Macranthera

Asclepias cryptoceras var. cryptoceras

Astragalus praecoxus ssp. and
det. R.C. Barney
May 31, 1961: Grandly soil in open ponderosa pine woods below Table Cliff Plateau, 17 miles southeast of Escalante, Garfield Co., Utah. Twp. 36 S., R 1 E. Stems prostrate or nearly so. Flowers small, white with a yellow eye.

Cryptanthus abata Johnst. (C. modesta Pays.)

Cryptantha bakeri (Greene) - Pays.

Same place as 9152. Stems several, ascending.

Flowers white with a yellow eye.

Cryptantha jamesii (Torr.)
May 31, 1961. Same place as 9153. Flowers ranging from white to bright lavender-pink, even on the same plant.

Phlox austromontana
Corville
9/156 - May 31, 1961 Same
place as 9/152. Rasp. bluish
outside, nearly white inside.

Erigeron flagellaris 'tray
var. flagellaris'
1157-May 30, 1961—Roadside banks in sandstone country 5 1/2 miles south of Cannonville, Kane County, Utah, F. Engler’s bright purple, the flower with a central pale spot.

Oxypolis lambertii Penc. var. bigelowii Gray

def. P. C. Barneby
Lithospermum incisum Lehm.

Rays 4-11, often irregularly arranged, typically 8 when regular.

Senecio multilobatus T. S. G.
9/6/0 - May 31, 1931
Clothlark - juniper community
4 1/2 miles west of Escalante,
Garfield Co., Utah, Twp. 35 S.,
R. 25. Eleven inches above 5500 feet
Stems clustered on a
Tapered and branched
Caules. Flores white
Fruits pendulous

Astragalus biculatus (Hook.) Gray
Det. R. C. Bowden

Astragalus (C)
Cymopterus purpureus Water

9/61. May 31, 1961. Same place as 9/60. Leaves green, not glaucous
01/22 - May 31, 1961. Found place
as 9160. Flowers bicolor
bright pink-purple and
yellow.

Polypogala subspinoso Wats.
Rays mostly 13.

Hymenostyis leptocladus (Gray)

Maclura americana "glabriuscula" (Nutt.) Crong. & Keck var. confertifolia Crong.

1 Holotype
8 Isotypes

Astragalus lanceolatus Tony

det. R.C. Barnaby
9166 - June 1, 1961 With
Antonisia arbuscula in open
Flatlands atop the plateau
along the highway 2 miles
north of the entrance to Bryce
Canyon National Park,
miles southeast of
Panguitch, Garfield Co.,
Utah. Twp. 36 S., R. 3 W., about 5.7
Elevation about 7800 feet.
Rays white to faintly lavender

Eragrenium pumilus Nutt.
ssp. concinnoide Crong
var. condensatus (Eul.) Crong.
June 1, 1961. Barragran-Cly slopes in Red Canyon, cut the highway tunnel 12 miles southeast of Parowan, Garfield Co., Utah. Twp. 35N, R. 4 1/2 W. Stems clustered; flowers glaucous; sepals and petals blue.

Elevation about 7000 feet.

Aquilégia scopolianum

Tidestrom
916-B June 1, 1961 Gravelly bottom of wash at volcano point just below the mouth of Red Canyon, 10 miles southeast of Panguitch, Garfield Co., Utah. Elevation about 7000 ft.
Tangs 35 S, R. 4 1/2 W.
Herbage: glamorous. Flowers: the

Penstemon pachyphyllus Gray

Penstemon 56 35
June 1, 1961. With vegetation on rocky, rhyolitic ridgetop overlooking the east fork of the Sanier River, 33 miles northeast of Panguitch, Pinte Co., Utah. Tüps. 30 S., R. 2 1/2 W. Elevation about 6,000 feet. Growing with #9170, E. pernnius bar condensatus, and looking very much like it but except for the absence of rays.

Erigeron aphananthis (Gray) E., var. congestus (Greene) E.,}
June 1, 1961. Seneacena. #169. Growing with #9169, E. aphanaestis var. congestus, and looking very much like it—except for the presence of rays.

Erigeron pusillus Nutl.
ssp. concinnulus Cronq.
var. condensatus (Eat.) Cronq.

2612
scapitalize Erigeron

C
Elevation about 7500 feet.
Flowers white with a yellow eye.

Cystanthus echinodes (Jones) / Paya.
9172 - June 3, 1961 - Same place as 9171. Plants disciform, very shortly radiate, and normally radiate, all in one small local population.

*Erigeron aphanactis* var. congestus (Greene) Craig, passing to *E. pumilus* ssp. *concinna*ides var. *condensatus* (Eckl.) Craig.

Senecio multilobatus T. & G.
Elevation about 6400 feet.
Hends yellow, with 14-18 rays.

Encebiopsis medicallia (Gray)
A. Kele

Encebiopsis 3

*Erigeron ritchiei* var. *ritchiei*
Plants spreading by creeping roots. Flowers white, faintly greenish.

Asclepias labriformis Jones

Asclepias labriformis 6

Hymenopappus filifolius Hook. Connecting form between var. cenisius (Pfeff.) Johnst. and var. pauciflora (Johnst.) Torrey, the heads of the former, the habit of the latter.
June 3, 1951 - With Atriplex an open, rocky slope in the desert 28
miles southwest of Hanksville,
Wayne Co., Utah. (Tpx 27S,
R.8E., S.30). Elevation 5,000
feet. Plants spreading by
cleaving roots. Herbage
glabrous. Heads yellow.
Rays mostly 8.

Thelesperma subrubrum Gray

Township 29S, R. 8E, S. 30, Elevation 5,125 feet. Flowers bright lavender.

Phacelia demissa Gray
9180 - June 3, 1961.
Same place as 9179. Petals yellow, finely red-dotted toward the base.

Oenothera castrovidae
(Menz) Raven

Cryptantha fulvoconescens

(Gray) Pay. 
June 3, 1961.
Same places as 9178. Stems 3-6 cm. Tall heads yellow.

Tetradynamia glabrata Gray
918.3 - June 3, 1961. Clay
bouow in the desert 28 miles
northwest of Hanksville,
Wayne Co., Utah. Twp. 27S,
R. 8E, S. 30. Elevation 5,000
feet. Heads yellow, with 8-13
rays.

*Hymenoxys richardsonii* (Hook.)
Cochrane f. var. richardsonii

*Hymenoxys* (3)
9184 - June 3, 1964. Same place as 9178. Flowers 3 to 5, white to pinkish.

Lygodemia exigua Gray

Cleomella cornuta Rydb. Near the type locality.

Phacelia demissa Gray
9187 - June 3, 1961. same place as 9186. Flowers blue-lavender.

Phacelia crenulata Torr., sens. lat. (P. orbicularis Rydb., an extreme form, very different in appearance from the more common forms of P. crenulata, and perhaps taxonomically separable)

Taller Phacelia ☑
9/188 June 3, 1961

Very sandy, dune-like

east slope in the desert

6 miles north of Hanksville

Wayne Co., Utah. Twp. 27 S.,

R. 11 E. Elevation about 5,000 feet.

Rays yellow, 7-11, most

commonly B. Dark bark.

Helianthus anomalus Blake

Mentzelia pumila (Nutt.)

T. G.
Rays bright blue – lavender.

Machaeranthera tanacetifolia (HBK) Nees
9191 - June 4, 1961 - In sandy soil about Talmage Valley, north of
Shanksville, Emery Co., Utah.
Tngs. 26S., R. 11E. 5, 10.
Elevation about 5,000 feet.
Rays and dish yellow, the
rays 7-10, most often 8.
Plants spreading by
creeping roots.

Saillardiia spathulata Hay
2172 Sandy bank at the
edge of Goblin Valley,
North of Hanksville, Emery
Co., Utah. Traps 126 S., R. 11 E.,
S. 10. Elevation about 5000 feet.
Rays about 34, bright
blue-lavender. Stems
clustered and taper at and
branching caudally, these
specimens from a single
large plant nearly 1 m.
across.

Erigeron utahensis Gray
var. utahensis

Erigeron utahensis 4
9/1933  June 4, 1961  Pele gray

Damp soil along ridge-top just
north of Hanksville, Emery
Co., Utah. Tums. 265, R. 11E,
S. 10. Elevation 5200 feet;
Flowers bright pink-purple.

Astragalus amphitrichus gray
var. amphitrichus

def. R. C. Barneby

29 Apr. 00 2

(2)

Thelesperma subnudum Gray

drawn Thelesperma 23
9195 - June 4, 1961 - Same place as 9193. Plants spreading by creeping roots. Heritage Gilmanux. Heads yellow, with mostly 8 rays. Growing with # 9196, T. subnudum (discoid), and looking very much like it except for the presence of grey.

Thelesperma subnudum Gray
June 4, 1761

Some heads with one or two rays, the others discoid. Growing with radiate and discoid forms of the species.

Thelesperma subulatum Gray

Town 25 S., R. 11 E., about S. 23.

Elevation 5,100 feet.

Plants spreading by creeping roots, flowering freely, but only sparsely fruiting.

Leaves blue-glaucous, sensitive, but reacting only after some delay. Flowers yellow, the upper petal marked with red.

Hoffmannseggia repens (Easter) Cockerell

Hoffmannseggen
Elevation 6000 feet. Plants smelling of selenium. Flowers blue-lavender.

Astragalus moenkupensis

Det. R. C. Barnley
Selindeum cressonii 1


Phacelia crenulata Torr., sens. lat. (P. crenulata A. Nelson)
July 20 - June 1, 1961
Glen, rocky (Sandstone) hillside in pinch - juniper
30m, on the San Rafael Swell 46 miles north of Duchesne,

Erigeron pumilus Nutt.
ssp. concinnsides Craig.
var. encinnensisides,
passing toward var. Call-
densatus (E. ft.) Craig.

7/18/65
Erigeron aff. pumilus (20)

*Cenotheca lavandulaefolia*

var. *glandulosa* Merz
9262 - June 4, 1961.
Same place as 9201.
Hades yellow, with 4-9 rays.

Haplopappus armeroides (Nutt.) Gray

Haplopappus santanum

[Signature]
9203 - June 4, 1961.
Same place as 9201.
Rays pale lavender almost white.

Erigeron compactus Blake
var. nemorilis (Crong.) Blake

Erigeron compactus □
Same place as 9/301.
Camellia white with a
yellow eye.

Cryptantha paradoxa (D. Nel.)
Pays.
9205 - June 4, 1961.

Same as 9201. Flowers yellow.

Lesquerella alpina (Nutt.) Wats., sens. lat.
48. at Coos Bay 51.5
65.75 at Tillamook
74.75 at Tillamook
85.35 at Caspergaile
91.45 at west Caspergaile
94.25 at Garfield Columns
97.8 at Cannanville
526.45 at Esperanza
27.5 at highway
441 at Escalante

<table>
<thead>
<tr>
<th>KIW</th>
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<td>530</td>
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651.2 at Mackena
675 at 7 acres
39.2 at Pacific
415 of Fig. 10.

Zinia yrs 3.2
5 6.7 at highway jet
6 4.0 at Pkwy
7 7.0 at Oregon
8 2.0 at antenna jet
7 8.7 at Encorp
8 0.7 at Capitol Pk Boundary
8 19.65 at Eugene Mill Dk
22 out at Park Boundary
22 7 at first mass
23.45 at Hymenoptera
23 6 at next mass
23 9 at Henry Mt jet
26 2 at third pinnate
30.65 at Peace
54.8 in Newville
76.75 at jet
7 9 3 in Macken
89.55 at Abiline
96.95 at jet
911.65 at Jet intake near
22.35 at Draba etc
22 9 182 vs Abilene
2 3 6
131.6 at Eastern Camp U. Landing
160.55 at Hyanadesma
64.3 at Deives
64.6 at Bluff
73.55 at Encelia
89.15 at Encelia
92.7 at Jet
73.5 at Mr. Link's
96.9 at Midnight Flat
22.4 at Tarpley
40.2 at Galen
43.9 at Raymond
15.3 at Yuma
50.3 at Kagula
78.5 at Hohowina
315.15 at Euphraneura
29.6 at Lulu
52.9 at Last Resort