B.D. REINARD
for return to
Arthur Cronquist
New York Botanical Garden
Bronx, New York 10458

Scientific data, of no commercial value.
11518 - 2 June, 1976
Moffat Co., Colorado.
With sagebrush on sandstone substrate on the Yampa Plateau,
Slightly north east of Stintz Reservoir, about
securely 1/2 hour from the Utah border.
Tropic 64T, R. 104W, S. 35.
An. ca 23 cm. Petals white, stamina 10.
Stiles 5.

Cerastium arvense L.
15 1/2 - 2 June 1876.
Clinton Co., Utah.
Passure, northeast facing
clay slope beneath partly
sandstone rock in the
desert ca 6 km. in
northwest of Dinosaur,
Colorado, and shortly west
of the Utah Colorado state

Elev. ca. 1700 m.
Flowers bright light
yellow.

Eriogonum ovalifolium Nutt.
var. ovalifolium
115 20-2 June, 1976
Clintole Co., Utah.

Sandy clay flats in the desert with farco-
hatics and Artemesia, ca. 2-5
30.0m. Airline north of
Bananza, Trup. 7 S, R. 24 E,
S. 1. E. a. 1600 m.
Flowers yellow.

Mentzelia albicaulis
Doug. ex Hook.

Astragalus saurinus
Barneby
Det. R. C. Barneby

[Signature]
11522 - 2 June, 1936.
Ventana Co., Utah.
Semi-plano 6-11521.
Flowers yellow.

Cryptantha Flava (A. Nels.)
Parson
11525. 3 June, 1941

In Cache, Utah.

North facing may be

depicted just south of

the saddle at the south

end of smiling Mt.,

ca. 30 km. aerial

north-northwest of Vernon.

Twp. 4 N., R. 22 E., ca. 520.

Elev. ca. 2400 m. stones

solitary, or sometimes 2-3,

and thickened root.

Flowers blue.

Mertensia fusiformis

Greene

Mertensia
115 24-3 June, 1976.

Uintah Co., Utah. With sagebrush in the saddle at the south end of Limestone Mts. - wess 11523.
Flowers yellow.

Viola nuttallii Pursh
var. vallicola (A. Nels.)
St. John
11525-3 June 12th, S.S. "Waltz" L. J. A. W. W. L. 

Lamar polus at 11523.
Plants forming rather loose mats, with short, suberect flowering branches. Flowers relatively large, white to sometimes pink. Growing with #11526, P. hoodii var. canescens (L.FG.) M.E. ?

and apparently hybridizing without, but on the average flowering later, giant new forming cottonall blooms.

Phlox multiflora J. Nels.
11526 - 3 June, 1936.
Uintah Co., Utah.
Same place as 11523. Plants pulvinata caespitosa.
Flowers robusto pink.
Drawing note: 11525, P. multiflora A. Nels.
and apparently hybridizing
with it, but not clear enough.
Phlox flowering earlier, now
mostly pod maturing.
Phlox hoodii Richardson
Var. Canescens (T. J. G.) M. E. Peck
small plant (4)
11527-3 June, 1976.
Hood Co., Utah.
Same place as 11523.
Leaves glaucous.

Cymopterus longipes S. Wats.
11528-3 June, 1976

Uintah Co., Utah.

With scattered junipers
on Snake John Reef,
a rocky sandstone reef
in the desert at 6.6 m.

airline northwest of
Dinosaurs, Colorado,
and shortly west of the
Utah-Colorado state line.


Elev. ca. 1700 m. Stems clustered and woody base.

Leaves glassy, flavescence, flowers

bright yellow.

Stanleya pinnata (Pursh) Britton
var. integrifolia (James) Rollins

Stanleya 10 123
11/29 4 June, 1936.
Duchesne Co., Utah.
Pinyon-juniper woodland along the crest of the ridge ca. 2 km. west of the head of Wells Draw and ca. 50 km. airline south-southwest of Roosevelt. Twp. 11 S., R. 15 E., S.S. Elev. ca. 2200 m. Flowers at first dull whitish, becoming more pinkish in age.

Chamae chaenactis scaposa
(Eastw.) Rydb.

Chamae character

10/9
11530-4 June, 1976,
Duchesne Co., Utah.
Same place as 11529.
Flowers white with a yellow eye, new mostly postmature.
Nutlets deeply tuberculate-rugose-reticulate on both sides; scar elongate slightly constricted near or below the middle, and with an evident raised border

Cryptantha flausculata
(Ayll. el.) Payson

Cryptantha (6)
11531 - 4 June, 1976.
Duchesne Co., Utah.
Same place as 11530.
Growing with #
11530, C. flavoculata
(A. Nels.) Payson, but
distinctly smaller
both vegetatively and
florally.
Nutlets nearly or fully as long
as the style, evidently
tuberculate-rugose on both
sides, with a narrowly open
scar, not constricted.

Cryptantha humilis (A. Gray)
var. nana (Eastw.) Payson
Higgin 10
Haworth_Cryptantha
11532 - 4 June, 1976.
Duchesne Co., Utah.
Loc. no. 11532.
Flowers lavender.

Astragalus pubentissimus
T. & G.
det. R. C. Barney

Fuzzy Astragalus 10
11533 - 4 June, 1976.
Same place as 1529.
Flowers bright pink-purple, the banner with a central pale spot.

Astragalus detractus

M. E. Jones
det. R. C. Barneby

Tiny Astragalus
June 4, 1976.

Sample 11579
Plants slightly congested. Flowers white.

Gilia Congesta Hook.
var. Congesta
11535 4 June 1971
Dechette Co., Utah.
Same place as 11539.
Flowers pink-purple.

Astragalus mollissimus
Torr. var. thompsoniae (S. Wats) Barneby
def. R. C. Barneby

[Signature] Lent by Alex. N. [3]
11-5-36 - 5 June, 1976
Duchesse Co., Utah,
Same place as 11529.
Plants apparently biennial, mildly mephitic. Flowers scarlet, rarely acholeucous.

Gilia aggregata (Pursh) Spreng.
1153 7 5 June 1976
Duchesne Co., Utah
With sagebrush on sandy clay loams beneath sandy shale mantos along Yate Canyon, ca. 50+ km.
south-southwest of Roosevelt, Togo 11 S., R. 15 E., S. 16-17.
Elev. ca. 2000 m.
Flowers yellow.

Calylophus lavandulaefolius
(T. & G.) Raven

Yellow Orange
19538 - 5 June, 1976.
Duchesne Co., Utah.
Same place as 11539.
Bracts scarlet.

Castilleja scabrida
Eastw.
det. Noel H. Holmgren
11539 - 5 June, 1976
Duchesne Co., Utah
Sandy clay slopes and flats with juniper and sagebrush below (Badlands Cliffs) sandy shale outcrop along Gate Canyon, 50+ ft. amlin south southwest of Roosevelt.

Twp. 11S., R. 15E., S. 16-17.
Elev. 2000 m. Plants forming dense, loose mats or mounds.

Rays 5, white. Disk dull whitish
Parthenium liquetum
(M. E. Jones) Barney

Parthenium alopecuroides
11540 5 June 1976
Duchesne Co., Utah.

Sandy clay slopes below above the head of Erants Canyon
Sandy shale outcrops (Bad Lands Cliffs)
in Artemesia - Laricocales -
Atriplex desert ca.
50+ km. South of
Roosevelt. Twp. 115S,
R 161/5 E, 5 40. Elev.
Ca. 3160 m. Rays (24) 29-52, white to faintly lavender.

Erigeron pulcherrimus Heller
var. pulcherrimus, passing to
var. wyomingia (Rydb.) Cronq.
11541 - 5 April 1936.

Dried in ethanol.

Usually clay slopes
below Bad Sandy
Cliffs, ca 50 ft.
north of
Roosevelt, Twp. 115
R. 17 C. S. 19
Elev. ca. 1700
m. Stems clustered on a
Tamp and branchy crown.
Corolla white, ovate, elliptic or
pale yellow. 6 or 7
nearly smooth dorsally and centrally
only slightly roughened.

Cryptantha 10

Cryptantha

I. M. Johnston
June, 1972.

Duchesne Co., Utah.

Same place as 115 41.

Leaves glaucous.
Flowers yellow.

Linum Subteres (Treliese)

Winkler
11543 - 6 June, 1976
Duchesne Co., Utah.
Flannelly flat at the
fords of Francis Canyon,
ca 50+ km.
Roosevelt. Twp. 11S.,
1700 m. Flowers clipped
on a tape mat. Wings and
other barren schordes
on the hill cover the
people.

Astragalus racemosus
Pursh
var. treleasei C. L. Porter
det. R. C. Barneby
Duchesne Co., Utah. Gravelly, sandy clay slopes and benches between shaly Badlands Cliffs north of Mind-Mile Canyon, and ca. 50 km. (airline) south of Roosevelt. E. Temp. 11.5°, R. 17° E. 5.27. Elev., ca. 1650 m. Stems tufted or stout taproot and branching caudex. Flowers rather light yellow. Hymenopappus Filifolius Hook var. megacephalus Turner / Hymenopappus
11545 6 June, 1976. Duschene Co., (last same place as 11544.
Plants apparently creeping by slender lateral
roots. Herbage glaucous.
Heads yellow. Rays mostly 8,
relatively large and sharp,
mostly 15-32 mm. long
and (7) 10-16 mm
wistle.

Thelesperma subnudum
A. Gray var. subnudum

Thelesperma 10
11546 6 June, 1976

Duchesne Co., Utah

Lake place as 1154.4.

Forming dense mats or mounds from about a stout taproot and branching caudex.

Perianth white or slightly pinkish.

Eriogonum shockleyi s. Wats. var. longilobum (M.E. Jones) Reveal
11547 - 6 June, 1976
Duchesne Co., Utah.
Same places as 11544

Euphorbia sendleri T. T. G.

Euphorbia
June 1976.
Duchesne Co., Utah.
Same place as 11544.
Stems clustered in a strict tapering and
branching caudex.
Heads liniar, yellow.

Machaeranthera grindelioides
(Nutt.) Shinners
11549 - 6 June, 1976
Cache Co., Utah. Red clay slopes with scattered pinon pines and Agropogon, just southwest of the summit between Soldier Creek and Nine Mile Creek, overlooking Whitmore Park, ca. 27 km. Airline northeast of Wellington. Taps. 12 S., R. 12 E., S. 27. Elev. ca. 2200 m. Flowers white, with light yellow stamens. Nutlets strongly rugose-tuberculate on both sides, or more tuberculate-muricate ventrally; scar with a high border, slightly constricted below the middle. Cryptantha mensana (M. E. Jones) Fassett.
11550 - 6 June, 1976
Carbon Co., Utah
East-facing benchgrass slope overlooking Soldier Creek, in Whitmore Park, ca. 27.26 km. airline northeast of Wellington. Twp 12S, R.12 E., S. 33. Elev. ca. 2150 m. Bracts yellow through gold to orange-reddish.

Castilleja Flava S. W. det Noel H. Holmgren
11551 - 7 June, 1976
Emery Co., Utah. Shaly sandstone slope at the lower edge of the Pinyon-pinon belt, east of airline southees.

39° 19' N. Twp. 21S R.7E.
Elev. ca. 1850 m.

Flowers yellow.
Nuttet smooth and shining, only one maturing.

Cryptantha Flava (A. Nels.)
Payson

Yellow Cryptantha
1155 2-7 June, 1976
Emery Co., Utah,
Sample no. 11551.
Plants with a strong
taproot, forming
dense cushion-mounds
1-3 dm. wide.
Flowers white.

Arenaria hookeri Nutt.
var. desertorum Maguir
11553 - 7 June, 1970
Emery Co., Utah
Barren, gravelly clay
 shallow west to southeast
of the Coal Cliffs, and
ca. 8-10 km. west of the Coal Cliffs, and
ca. 8-10 km. northwest
Southeast of Emery.
Truw. 215, R. 7 E., S. 35-36
Elev. ca. 1800 m.
Rays 25-43, white or
pale lavender

between Coal Cliffs and
Molen Reef
Erigeron pulcherrimus Heller
var. pulcherrimus

Erigeron pulch w.p. 14
11554-7 June 1926
Every Co., Utah. Barren and flats
shaly clay slopes with
Scattered Artemisia, Ephedra,
and Astragalus, west, northeast
of South Salt Wash, ca
14 km airline due west of
Moron. Twp. 23 S, R. 8 E, S24. Elevation ca. 1800 m.
Rays 8 (-10) yellow.
With yellow, a little
darker than the rays
(more golden)

Gaillardia spathulata A. Gray
July 5th 1976

Suvi Co., Utah.

Along a north-facing road at the east foot of the mountains, ca. 18 km.

South-southeast of Empire.

Twp. 23S, R. 5E, Sec. 15.

The corner of Section 27, 2D, 33, 1st 34. Elevation ca. 1950 m. Colonial shrubs mostly 2-3 m tall.

*Salix exigua* Nutt.

vari. *stenophylla* (Ryd.) Schneider.
11556 7 June, 1976
Sevier Co., Utah.
Travelling flats along a north-trending weak well above the scaly bottom
--- in 11555.
Corolla white with yellow foliage
Nucleus strangely rugose-
tuberculate-reticulate
on both sides. Stem with an elevated border,
slightly contracted below the middle.

Cryptantha flavoculata
(A. Nels.) Payson

Cryptantha
11557-8 June, 1936
Sevier Co., Utah. A week in a broad, low dry meadow like draw ca 23 km, air line
southwest of Emery.
Tugs 245, R. 5 E., 8.6 m.
Elev ca. 2100 m.
Flowers: lavender, pinkpole.

Malcomia africana R. Br.
11558  8 June, 1976
Leviër Co., Utah. Open
pinon-juniper slopes on both
some places sandstone and
volcanic boulder substrate.

Plants growing forming
white mats on
the ground. Flower
white  white, faintly
Canadian alkali pink, white

ca. 23 km, airline southwest
Elev. ca. 2100 m. stems clustered
on tufa, curved, ascending.

Flowers pink-purple.
Astragalus lentiginosus Doug.
var. araneosus (Sheld.) Barneby
det R.C. Barneby

Casting: Lentig 10
11559 - 8 June, 1976
San Juan Co., Utah
Same place as 11557
Flowers yellow.
Peppes bright yellow.
2 of the bristles
stronger and more
persistent than the others.

Malacothrix torreyi A. Gray
11 May - 8 June, 1976
Sevier Co., Utah. In open pinyon-juniper woodland on a south-facing slope, stream with volcanic boulders ca. 33 km. east line southwest of Emery. T2S R.5E, S.6 E. Elev. 2100
m. Plants becoming colonial by slender, elongate creeping roots. Flowers red-orange.

Sphaeralcea coccinea (Pursh) Rydb.

var. dissecta (Nutt.) Kearney

Sphaeralcea coccinea (10)
11561 - 8 June, 1976
Sevier Co., Utah. Just below the edge of the
pinyon-juniper woodland, an mixed
shaly sandstone and
volcanic boulder substrate
along a broad, shallow
drain ca. 23 km south-
west of Emery. Twp. 24S,
R 5 E., S. Cont.

Lesquerella intermedia
(S. Wats.) Heller

Lesquerella Z 7
11562 - 8 June, 1976
Sevier Co., Utah. Along
just south of on
the fringe of the juniper
- juniper woodland
- as in 11561
Flowers lavender
Plants just beginning
to bloom.

Penstemon jamesii Benth.
subsp. ophianthus (Pennell) Keck
det. Noel H. Holmgren
11563 - 8 June 1976
Scriber Co. Wash.
Surname: 11561.

Plants laying prostrate, forming small mats on the surface of the ground. Banner white, wings faintly lavender, almost white, heel blue-purple.

Astragalus castaneiformis S. Wats.

Var. Consobrinus Barneby
det. R. C. Barneby

Astragalus ①

Senecio multilobatus T. & G.
11565.  8 June, 1976
Fenner Co., Utah.  North slope with mixed
Pinyon, juniper, 
Cedars and 
Ponderosa pine, ca.
33 km.  airline northeast 
of Sola, and shortly north 
of Paradise Valley.  Traps.
25 5°.R. 4E., almost 5.14 
Elo.  ca. 2350 m.
Plants colonial, spreading 
below ground.  Tepals 
swell blue.

Clematis pseudoalpina (Kuntze)
A. Hels.

Clematis 9
11526 - 8 June, 1976

Lenier Co., Utah.
Same place as 11525. Corolla white.

Androsace septentrionalis L. var. glandulosa (Wooton & Standley) St. John
11567. 30 April, 1977.
Clinton Co., New York
On limestone substrate in mixed hardwood forest ca. 4 km. northwest of Fiota. Elevation 1600 + ft. Tepals most commonly 6, sometimes 8.

Hepatica acutiloba
11568. 30 April, 1977.
Clinton Co., NY.
Same place as 11567.
Petals white or pinkish, with deeper pink.

Guidelines

Claytonia caroliniana
11569 30 April, 1977
Clinton Co., N.Y.
Same place as 11560
11578. Leaves not yet fully unfolded, slightly paler beneath than above. Flowers
waxing. Tepals loose, scarcely divergent, bright yellow.

Urenaíla grandiflora 2
15.70 1/1571 -
Amelanchier from
Uterica Flute-
ca. 15 May - dyrantul
1572 - 22 May, 1972
Clinton Co., N.Y. In fairly moist, shady places on mixed hardwood and coniferous forest, on limestone substrate, about 4.5 km. northwest of Fries, Elev. c. 100 m. Plants abundant, but many not blooming. Flowers short-lived, light greenish-yellow, in a determinate cyme about 2-6 (the central one flowering first), sometimes an additional pair of later blooming flowers present below the much

Clintonia

2
1573 5 June, 1775.
Franklin D., MA.
In second-growth mixed deciduous woods 1/2
km. northwest of Ruggles Park, Town of
Wendell. Elev. ca. 350 m.
Saxifraga, slender, ascending
Shrub mostly 4-12 dm. tall.
Flowers white.
11574 - 14 June, 1977

Cumberland Co., Pa.  
In oak woods on granitic  
substrate — in Mountain  
Creek valley, near South  
Mountain, ca 5 km.  
Southwest of Pine Grove  
Furnace, ca 25 km, airline  
Southeast of Carlisle, ca 300  
Shrubs 1-2 m. high. Young  
Twigs glaucous. Leaves  
Soft, the lower surface  
Pale and dotted  
with small, yellow glands.  
Flowers which...  

Haydenacea freedom
1575: 15 June, 1977
Perry Co., Pa. In mixed deciduous forest on stony, granitic slope ca 20 km. southwest of New Germantown. Elevation ca 400 m.
Slender, very small, suberect-trunked shrub 2-3.5 m tall. Stones mostly 4, sometimes 5.
11576 - 15 June, 1972
Centre Co., Pa. In open
hemlock-hardwood
forest on a siliceous
substrate, ca. 0.5 km. southwest
of Poal Valley campground,
Bald Eagle State Forest,
on Long Mountain.
Elev. ca. 400 m.
15 July 15 June, 1772
Same place as 15 July.
11578 - 12 Sept, 1977
Clinton Co., N.Y. Grassly
wale along an old woodland
road in mixed deciduous
forest and central forest,
on limestone substrate
2-4 km. northwest of
Leista. Elec. ca 100 m.
Plants annual, late
Consolation, Loc. Site pale
lavender with deeper
people guide lines, the
lower lip with a milky
negative area and two
yellow spots at the base.

Euphrasia Officinalis

Euphrasia officinalis
11579 - 31 June, 1878

Emery Co., Utah


Dens. ca. 1650-m. Plants evidently perennial, possibly creeping below-ground, but no distinct connecting stem.


Gaillardia spathulata A. Gray

Gaillardia © 415246
11580 - 21 June, 1975.
Emery Co., Utah. Rocky, west-facing slope beneath massive sandstone cliffs in Buckhorn Wash, ca. 10 km. above its confluence with the San Rafael River, and ca. 30 km. east of Castle Dale. Twp. 19S, R. 11E., S 29. Elev. ca. 1600-1650 m.

Encelya branched, rounded, almost 4-7 dm. tall. Rays less than 1 cm long, 5-13 in number, lemon yellow. Disk orange-yellow.

Encelia frutescens A. Gray

Encelia 10 3-2-75

Dot R. Barnecky 1/1972
21 June, 1978
Emery Co., Utah,

Same place as 1581.
Stems clustered on a
mother. Stems (1-) several
on a rather slender
taproot. Flowers white.

Cryptantha cinerea (Greene)
Cronq. var. cinerea
(C. jamesii)
1933. 21 June 1938, Emery Co. Utah. In deep sand along the wash in Wolf Canyon, a tributary of Buckhorn Wash, ca. 40 km. east-southeast of Castle Dale. Twp. 20 S., R. 11 E., S. 2. Elev. ca. 1600 m. Plants tap-rooted, perennial; no sign of creepers. Flowers bright purple or pink-purple.

*Cirsium pulchellum* (Greene) Wooton & Standley
1584 - 21 June, 1928
Elev. ca. 1600 - 1650 m.
Stems clustered on a taproot and branching caudex. Flowers rather light yellow, mostly 15 - 30 per head.
Hymenopappus Filifolius Hook.
var. Cinereus (Rydb.)
T. M. Johnston

Hymenopappus f.
Emery Co., Utah. Same
place as 11584. Altera
numerous, clustered on
a taproot and branching
cauline, coarse but
herbaceous especially
in the base. Yellow.
Rays 4-6.

Senecio spartioides /T.G.

Emery Co., Utah. Very sandy desert, ca 4.5 km west of the Flat Top, ca 25 km northeast of Hildale. Tugs. 74-N

Tugs. 265, R. 13E., S. 20. Elev. ca 1600 m.

Trepastet annual

Fast-mature callosas

Gilia Gunnisonii T. + G.
#s 11587-11640, late 1778, are in another lot.
11641  11 April, 1980.
Page Co., Virginia.
East slope of
Massanutten Mt.,
Shortly east of New
Market Gap. Understory
tree 6-10m. in mixed
deciduous woods.
Racemes tending to be
lax, nodding soon after
the twig is cut.
Petalous white

A melanchier arborea
(Michx.F.) Fern.

A melanchie arborea}
11642 - 11 May, 1980.
Franklin Co., Massachusetts. Second-growth mixed hemlock-hardwood forest shortly north of Ruggles Pond, town of Wendell, Arboriscient shrubs ca. 5 m tall.
Elev. ca. 300 m, leaves ringed with coppery-red.
Infloroscence had, soon tapering after a twig's cut. Petals white, 16-20 mm. long. With #5 11643, A. arborea, and 11644, A. canadensis.
Amelanchier laevis Wiege.
Someplace as 11642. Inflor- 
ence reduced, soon drooping 
after a twig is cut.
Petals white, 14-17mm 
long, crenate-glabrous on 
top. With #11642, 
A. leavis, and 11644, 
A. canadensis.
Arboretum 3旅220 cm. TML.

Amelanchier arborea (Michx.f.) 
Fern.

3 Amelanchier arborea
11644. 11 May 1950.
Same place as 11642.
Dish-shaped thumbs
ca. 5 m. tall. Lochart with
pink compact, not
lax. Petals white,
10-13 mm long. Coarse
palerus cristatus.
With 11642, A. lacinius
and 11643, A. arborea.

Amelanchier canadensis
(L.) Medic.
11645 13 Jun, 1980.
Mesa County, Colorado.
With laccobolus and annual
Grasses on rather alkaline
gently slopes not far below
Sandstone cliffs at the
north side of the valley
of the Colorado River,
45 km. Airline
Ca 3 km. upstream
from Grand Junction
Junction, Twp. 85., R. 97 w.
El. ca. 1500 m. Short-
lived perennial. Heads
bright yellow. Rayo
5(-8), 7-17 mm long.
Ca 11 km. upstream (airline)
from the upper end of DeBoque
Psilostrophe bakeri Greene
Psilostrophe 10 239.2
116 00–13 Jan. 1930
Grand County, near with scattered Juncus near the east 
edge, a few
Then, near the Colorado-
Utah border, along the highway between 
Grand Junction and 
Green River. Twp. 195, R. 25 E., 
Elev. ca. 5,800 ft.
1450
Tapered point perennial. 
Heads sunflower, yellow. 
Rays 10-16, 1-2 cm long.

Viguiera multiflora (Nutt.)
S.E. Blake
V. aurea var. (a)

V.
Emery County, Utah.

Sheltered places among sandstone rocks in the right fork of the right fork of Pine Canyon, on the north edge of the San Rafael Swell. Elev. ca. 1700 m. Flowers distinctly reddish in bud, less so at anthesis. Sepals and spurs faintly lavender, petals bluish white. Only 3 plants seen, at widely scattered intervals in the canyon. These materials all taken from one plant. Aquilegia micrantha Eastw.
H.B.

Wyethia scalaris, at Calf. Spring Canyon has 13-17 rays. W. Amystheciacum, in Klein Basin, has 0-25 rays, 3.5-6 cm long. Arnica formosia has 4-14, often 13 rays, 12-20 mm long.
11645 20 June 1980
Echo Co., Nev., with sagebrush in volcanic area and along foot
Meadows Creek, shortly above
its confluence with the
Aurelyee River, about 25 mi.
by road southeast of
Mountain City, Ely. C.
ca 1800 m. True N, 44 N,
R. 54 E, S 23.

Perennial with 1-funnel
stam. Flowers bright
blue-lavender.
Phacelia sericea (Gravo)
16 & 9. 20 June 1880
Ellis Elko Co. Nv.
With sagebrush and volcanic slopes along South Madison Creek, etc.,
as in 116 & 8.

Perennial with a loosely branched corymb and mauve to purplish corolla blue to purplish
1165 D 28 June 1980
Elko Co., Nev. with ragbrush in volcanic area along Foot Meadows Creek etc. as in 11658.

Hackelia patens
(Nutt.) I.M. Johnston

Perennial with usually 2- several ascending stems. Corolla white, each lobe with a pair of blue spots at its base.

Hackelia patens
Same place as 11649

Intricately branched shrubs 1-2 cm tall.
Pettals white, 7-9 mm long

Amelanchier utahensis

Koehne
20 June, 1980
Ellis Co., Nev. With
Antenisia arbuscula in low, stony (quartzite, rhyolite, igneous) clay ridge in Bull Run Basin, east of the reservoir, about 24 km airline southeast of Mountain City. Temp. 43 N, R. 52 E., S 10. Ellis Co. 1900m. Heads Heads bright yellow.

Eriogonum bloomeri A. Gray var. bloomeri

Eriogonum bloomeri
11453 - 20 June, 1960
Echo Co., Me.
Same plant will place as
11657. Broads and
rounded light greenish.

Castilleja pallescens
var. inverta (Nels. + Macbr.)
Edwin
det. N. H. Holmgren

Castilleja
11654 - 26 June, 1980
Elko Co., Nev. With
Wyethia amplecticaulis and
Artemisia arbucula
on story (quartzite and
dark igneous) clay slope
overlooking Bull Run
Reservoir from the south-
est. Bull Run Basin
about 2.4 km air-line
Southwest of Mountain
City. Traps 48 N, R52E,
s. 90. Elev. ca 1900 m.
1 = tawes yellow.

Lomatium cues (S. Wats) Coulth.

Rose

Carrot

Lomatium leptocarpum (T. & G.) Coulter, + Rose
11 June 20, 1980
same place as 11652.
Flowers yellow. Fruiting with #11657.
C. modocensis Greene, 
but apparently distinct

Crepis occidentalis Nutt. 
var. occidentalis

Crepis barbata
114 57 - 26 June 1980
Elko Co. Nev.
From places 11652.
Flowers yellow.
Comparing with the
165C, L. occidentalis
Nutt.
It appears to be

Crepis mobocensis Greene
Var. mobocensis

Crepis diminutivus
11658  20 June, 1988
Elko Co., NV. With
Artemisia abrotanum on
law, stony ridge south
of Bull Dog Basin, ca
33 km northeast of
Mountain City.

Twp. 43N, R. 52E,
S. 28. Elev. ca 1850 m.
Rays (23-) 27-37, often
34, white to lavender.

Erigeron nevadensis Blake

Erigeron nevadensis Blake
with Sagebrush on rocky, volcanic soil on a low
ridge about 8 to 9 km
south-southwest of Tuscarora.
Tuscarora and 58 road
km. east of Midas. Twp 39 NV,
R. 51 E. About 5,280. Elan
ca. 1,800 m. Corolla tube
purple, the lips (or calyx
upper lip) blue.

Penstemon kingii S. Wats.
det. N. H. Holmgren

Rutlemoen 10
11660 - 21 June, 1980, Elko Co., Nev. Larras place as
11659. Stems clustered, closely ascending. Flowers ochroleucous.

Astragalus curvicarpus
(A. A. Heller) J. F. Macbride
var. curvicarpus
det. R. C. Barney

Astragalus (red) 10
11661 21 June, 1980
Elko Co., N.V. Same place as 11659. Forms nearly prostrate, only the tips ascendent. Flowers lavender.

Astragalus iodonanthus S. Watson
det R. C. Barneby

Date in 1966.
Plants colonized by rather deep-rooted creepers. Flowering lavender.
1663 - 31 June, 1880
Echo Co., Min. An
story, quartzite north
south slope with
little sagewort, along a
ing tributary to
William Creek, ca. 20 km
airline southwest of Tuscarora, and 30 km E. of Miles
Elev. 1700 m.
T upo. 39 N., R. 49 E., ca. 535.

Penstemon humilis Nutt. ex
A. Gray
det. N. H. Holmgren
11664 21 Jan. 1980
Humboldt Co., Nev.
with Sagelbrush and
Atriplex, in sandy-clay
soil in the desert, Ca.
30 km aerolne
northeast of Yalcunda,
Twp. 37 N., R. 43 E.,
count S. 4.
El. ca. 1400 m
Flowers white
Stems mostly
ascending to top
ca. 10 km. east of the Argus Wells
DSgood
Camissonia clavaeformis (Torr. & Frem.) Raven var. integrrior (Raven)
Clyotheca Chyselina
11 665 21 June, 1980
Humboldt Co., Nev.
Sample no. 11 664.
Petals white.

Camissonia boothii (Doug.) Raven
var. villosa (S. Wats.)
(= subsp. alyssoidea)
1166-21 June, 1980
Hennikdon & Co., Inc.
Same place as 11664.
Petito's menu to rite

Camissonia minor
(A. Nels.) Raven

emollient
Penstemon speciosus
O.oug. ex Lindl.
det. N. H. Holmgren
Pershing Co., Nevada.
Same place as 11667. Plants perennial, with (1-) several or rather many loosely curved, ascending to suberect stems. Corolla small, salverform, white with a yellow eye, the limb 5-8 mm wide, or smaller in later flowers. Nutlets strongly roughened on both sides, the scar narrow, virtually closed except near the base, its margins not ornate-elevate.
Cryptantha spiculifera (Piper) Payson

Cryptantha spiculifera

[Signature]
1669 22 June, 1980
Pooching Co., Nev. Edge
of the canyon wall
in rhyolitic porphyry and
along Buena Vista Creek
in the Wee-Nmhdldld
Mtns. 1 + km. above
Unionville. Town 30 N.,
R. 3 E., 5280 ft. Elev.
ca. 1600 m. Stems
several from a modest
root. Flowers mauve
stem, mauve mauve, mauve
til little longer than
purple.
Scrophularia desertorum
(Munz) Shaw
Scrophularia
1770 11670 22 June, 1920


Town 30 N. R. 34 E. S. 20.

Ele. 1800 m. Intricately branched, broad, cream blooms up to about 1 m. Flowers perished, held beneath the twigs.

Symphoricarpos oreophilus parishii (Ryd.) Cronq. [w] B. Gray
15 = hensia (Ryd.) Walt.
1167 (22 June, 1780
Penitenc {o. Nevada
Saw flowers 1670.
Keds yellow. Rap
mostly 8, seldom 7
on 9, mostly 11-17
mm long.

Eriophyllum lanatum (Pursh)
Forbes
var. integrifolium (Hooker)

Smiley

Encysta incurvata
11 June 1980
Mons Co., Calif.

Crumbly, pebbly soil, with sagebrush and scattered Jeffrey Pine on the north side of Devil's Gate Pass, south end of the Sweetwater Hills.

Clear, pleasant under 2,300 m. Flowers open at least during the day. Fritillaria salverformis, the slender tube, yellowish, 12-15 mm long, the lobes 3-3.5 mm long, pink lavender, with a terminal spot just above the stigmas...
yellowwise teas

Linanthus bicolor (Nutt.) Greene

Linanthus (D)
1673 - 26 June, 1980, Mono Co., Calif. Same place as 11672, but near elev. 2300 m. Plants enephotic. Corolla deep blue, funneliform, salverform, the lobes 2 mm long.

\[\text{Gilia gilioides (Benth.) Greene}
\text{var. violacea (A. A. Heller) Crowe}\]
11674 - 1 July, 1950
Inyo Co., Calif.
Pinyon-juniper woodland
at the south end of the
White Mts., ca 9 km. by
Road North of Westgate
Pass.
Elev. ca 2500 m.
Flowers lavender, openly
Salverform - Campanulate.
Seeds

Phacelia vallis-mortae Voss

647.3
Phacelia vallis-mortae
1675 1 July, 1900
Inyo Co., Cali.
Pinyon-juniper woodland at the south end of the
White Mts., ca. 6 km by road
north of Westgard Ass.
Elev., ca. 2350 m.
Heads yellow

Hymenopappus filifolius Hook
var. nanus (Rydb.) Turner
1976 (July 1980
Inyo Co., Calif.
shale outcrop in
pinyon-juniper woods at
the south end of the
White Mts., ca. 6 km by
road north of Westyard
Pass.
Elev., ca. 2350 m.
Leaves and stems
strongly blue-glaucous.
Inflorescence somewhat
second. Corolla rich
pink-purple, very showy.
Penstemon floridus T.S. Brandegee
var. floridus
det. N. H. Holmgren

Penstemon
14 July, 1980
Inyo Co., Calif.
Same place as 11675.
Flowers white

Camissonia boothii
(Doug.) Ravey
var. desertorum (Munz)
11678 1 July 1980

Penstemon scopoides

Keck
det. H. H. Holmgren

Penstemon
11 June 79, 1 July, 1980
Inyo Co., Calif.

Same place 12 11 675.
Foliage blue-green.
Banner pink-purple;
wings white; keel
purpleish. Pods
relish-mottled.

Astragalus oophorus 5. Wats
var. oophorus
det. R.C. Barneby

[Signature]
11/07/80  1 July, 1980
Inyo Co., Calif.
Some places 11/05.
Leaves green.
Petals white; anthers dark purple.

Cymopterus aboriginum
M.E. Jones

Cymopterus 32
1/68/ 1 July 1988
Inyo Co., Calif.

with Artemisia arbuscula
in pinyon–juniper woodland
at the south end of the
White Mts., ca 6 km by
road north of Westgard
Pass.

Elev. ca. 2350 m.

Boots bright red.

Castilleja chromosa A. Nels.
det. N. H. Holmgren

Castilleja (3)
11682 - 1 July, 1980

Inyo Co., Calif. The Corn made in north-facing basaltic cliffs along the canyon ca 9 km east of Westgard Pass, at the south end of the Whitneys. Exposed part, with several or many box, freely grown and stones or rising from the base. Cleaner white.

Elev. 1800 m.

Holimiobus diffusa var. jaegeri (Munz) Rollins
det. P.K. Holmgren
June 11, 1975
Inyo Co, California. Rocky, bottom in basaltic canyon ca. 9 km. east of Westgard Pass, at the south end of the White Mts. Elev. 1800 m. Intricately branched plants with several or many stems from a taproot. Flowers 5 (C). Pink, soon becoming scarlet.

Stephanomeria tenuifolia
(Torr.) Hall

[Handwritten checkmarks]
11 June 1 July, 1980
Gunnison Co., New.
With atypical app. in sandy, pebbly soil on west slope of valley opposite and east of the White Mts., toward the north end, ca. 25 km west of Coaldale.
Elev. ca. 1600 m.
Stems several and stout tapering, suberect. Petals pink-lavender to violet.
Sphaeralcea ambigu A. Gray
var. monticola (Kearney)
11/66-1 July 1920
Carroll Co., Iowa
Tiquilia nuttallii
(Hook.) B. Richardson
11686-2 July, 1980
Nye Co., Nev. With a few scattered Junipers and Junipers on tuffaceous brown clay slope at the east side of Big Smoky Valley, ca. 2 km., south of Round Mountain, and across the valley from Mahogany Mountain, ca. 90 km. by road northeast of Tonopah Tqrp. W.I. & R. Yre, S.31
Elev. ca. 1900 m.

Astragalus beckwithii T. & G. var. purpureus M.E. Jones
det. R.C. Barney


Number 21, 27, 31, 36.

Reps 6-7 mm long, 4-5 mm wide.

Baileya pleniadiata

Harvey & A. Gray
11688. 2 July, 1980.
Nye Co., Nevada.
Same place ca. 11687.
Plants annual. Heads white.

Chaenactis stejcriodes
Hook. & Arn.

Chaenactis 3
11639 - 3 July, 1988
White Pine Co., Nev.
Rocky (limestone) north slope, with pinon, juniper, Cascarsorus, and
sagebrush, overlooking Timber Creek, just down-
stream from the forest camp. Schell Creek MT.
sect of McGill Twp 16 S, R. 65 E. Elev. ca 2500m.
Plants short-lived, with flowering at least twice. Leaves
strongly glaucous. Inflores-
cence not evident. Flowers
blue.

Penstemon pachyphyllus
var. congestus (M.E. Jones) N. H. Holm
det. H. H. Holmgren
Pen. 5 cm, glob. 6 grey

Physaria chambersii
Rollins
1691 3 July, 1980.
White Pine Co., Nev.
Same place as 1689.

Penstemon eatonii A. Gray
var. eatonii
det. N. H. Holmgren
1692 5 July, 130

White Pine Co., Nebr.
New place as 11689,
Sprawling law stock
up to about 1 m tall.

Symphoricarpus oreospiculatus
var. utahensis (Ryd. 6) A. Nels.
3 July, 1980
White Pine Co., Nevada.

In pinyon-juniper - Cercocarpus woodland on granitic substrate at south side of Schellbourne Pass, in the
Schell Creek Range, ca. 60 km. north of Ely.
Twp. 12 S., R. 65 E.,
about S. B., Elev.
ca. 2300 m. Stems loosely clustered and branching, fibrous-rooted
tender, no basal leaves. Flowers blue.

Penstemon

Penstemon watsonei A. Gray
det. N. H. Holmgren

Penstemon watsonei
1869 3 July, 1900
White Pine Co., Nevada.
Same place as 18693.
Rays white, (20-) 26-41
(-418).

Erigeron jonesii Crong. [Checkmark]

Erigeron mansonioides
11695 - 3 July, 1980
White Pine Co., Nevada.

Same place as 11693.
Inflorescence record.
Flowers blue.

Penstemon speciosus Doug. ex Lindl.
det. N. H. Holmgren

Penstemon Hohen
16/76 - 16 July, 1986
Nanney Co., Oregon. Burnout put between highway and irrigated hay - mowed in the lava plains ca.
4/3

1/2 km 2.17 Riley

Elev. ca 1250 m.
Corolla knight blue.

lavender, the lower lip

with 2 large, golden,
white - margined spots.
(C 77) 16 July 1950.
Hemery Co., Oregon.
Sample 31676.
(2 rolls on left)
Lakes remunerated,
rather narrowly sublong.
the tip rounded. subtruncate
to slightly emarginate.

Navarretia minima Nutt.
Psilocarphus brevissimus
Nutt.
16-17 - 16 July, 1982
Harney Co., Oregon
Same place as 116 96.
Coryolla minor, white.
Plants loosely erect - ascending.

Plagiobothrys Scouleri
(Hook. + Arn.) E.M. Johnston
var. penicillatus (Greene) Crone
Penitron palm as a seasonal visitor associated with Breakfast and other events.

Charmed in the hills on snow-leaves between Breakfast and Loloja Falls.

Locomina f. racemose the 10 of little condensation. Leaves scaleless. Corolla 4 cm including the 1.5 cm open (1cm by 2 cm)

Same area a 116 96.
Plants tending to be
Stoloniferous. Corolla
Climb 9-10mm wide, 5
White with a yellow
Eye.

Plagiobothrys mollis
(A. Gray) I. M. Johnston
11751 16 July 1980

Hansby Co., Oregon.

Pressed on the margins of a roadside pond in the desert country. Low plains ca 32 km. north of Riley. 31.54 km. east of the Co. line. Elev. ca 1350 m.

Flowers bright golden yellow.

Orthocarpus campestris Benth.

det. N. H. Holmgren
Monday 16 July
86.0.1.8

Monday 16 July
86.0.1.8

Wednesday 16 July
86.0.1.8

Wed 16 July
86.0.1.8

19.4 400 17

Thursday
86.0.1.8

15 cfalor Comrany. 87312
Light House north
2 leagues and 1/2 to little
Essex Head

North edge alliance
inward, nearly
a little north the middle like close that
in to the North of the
coast.

Alden Billings
adjoining us to the north.
C A. Stee.  
Cite F Blackburn.  
Cite J. H. Smith.  
Cite C. Brown.  
Cite J. E. I. RHI.  
Cite V. K.  

England 1818.  
1867.  

---  
01.00
Our south edge aligns with the south edge of the street that runs to town by the south 1st street.

131 W 5 E 531

N 1 / 15 E 1/4
208 459 5011
College of Idaho

Independence 84117 25
1st Edition in fall 84133
P.O. Box 434

Big P. 91656 26
A., B., C., D.

Tempe 85281 21
305
E. 8527 14 75 2
Tinder Creek Ranch 69ER
Wendover 85189 6822

Leigan 4 July 85525

SYV 9 July 85817
8.3 441.1 21°. Jack Tenderfoot
449.9 at Jacker Jet.
47.6 47 accumulation.
7 39 4.5 to 50.3.
1800 m.
W C lean 446 4576.
Midas 8351 2.75.
Wenig 8358 1.12.8 East.
Lovelock 25 June 8365 7
Orakei 7.5
Penstock 81.6
87.4 beam north.
Reno 23III 83845
7:15 AM, 23 83826 AM
Reno 24AM III, 83865.
Reno laser 26 III 83867
19.7 90.1 light.
Allium asene
clustered, bulbs deep
 Eylül to Un
/ Is pink bracts all

A Sim, / min
Spring - bulbs just
breath surface. Is white
at higher alt; but
at lower alt. there
are mixed pink colors
+ yellow to pink populations
414.5 at Maggie Summit.
15 June
8:25-8:11 a.m. Falcon
16 June AM
8:2793 a.m. L.C

Zelle's office phone
581-8836
581-8836

17 June AM 2:01 p.m.
8:2887 208-11 x 282

19 June AM for gas
8:0971
13.2 gal x SLC 6:2875
12.2 Eiko 309

20 June: near Mt. City 53383
8.6 gal 500 feet
Inasmuch as I wrote an unfavorable review of Karlesz's earlier compendium of lists of endangered species, I should point out that I find the new checklist to be a very respectable job. Many individual decisions are necessarily mine. There are inevitably more debatable decisions, but the overall performance is commendable.
21 June 1970
44 50 15.5 n. 1
300.3 at pteridophytes

20 Jan
44 60 14.0 c. 26.5
44 60 11.5 c. 26.5
4 1667.1 c. 2200
4 75 5.5 c. 2200
4 156 7.0 c. 2200
4 1667.1 c. 2200
4 386 (Kunststoff)
6 70 7 25.0 c. 1300
6 70 7 25.0 c. 1300
6 98.0 c. 1300
8 June 1980, 79.75 ct 7.27 A.

9 June 80-97 at Enid, Ok.
19.8 oz. = 0.7411
13.3 oz. = 0.7411

10 June 80-90 at Atkisson, Mo.
18.2 gal. = 81043
15.2 gal. = 81319

11 June 81435 at Kearney, Neb.
15.2 gal. = 81607

12 June 81811 at Kearney, Neb.
13.1 oz. = 81811

13 June 82056 at the top of Os.
1 June 82426
at Eagle Creek,
San Rafael Swell = 5.5
45-3046 - HJ

484-94-70 = 234

571-75 = 171 Switzerland

268 R.

260 vs. London

R. vs. General

258 C. vs. General

240 Conservative

245.2 M. vs. Tory
Where is Fennec Falls, Little Lida? Don’t go, Gilda, I’m not kidding. Gilda, please don’t.
914-694-1622
Hank Klein.

Cranquist
10/7/25

7 Jun.
22 S. 8E

\[
\begin{array}{c|c|c|c|c|c|c|c|c|c|}
6 & 5 & 2 & 7 & 2 & 1 \\
5 & 4 & 3 & 6 & 5 & 2 & 3 & 2 & 1 & 0 \\
7 & 8 & 9 & 10 & 11 & 12 \\
\end{array}
\]