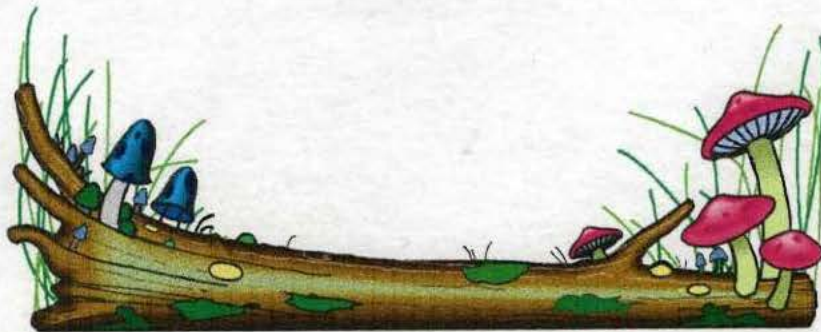


Vascular Plants of  
Feather Falls Trail

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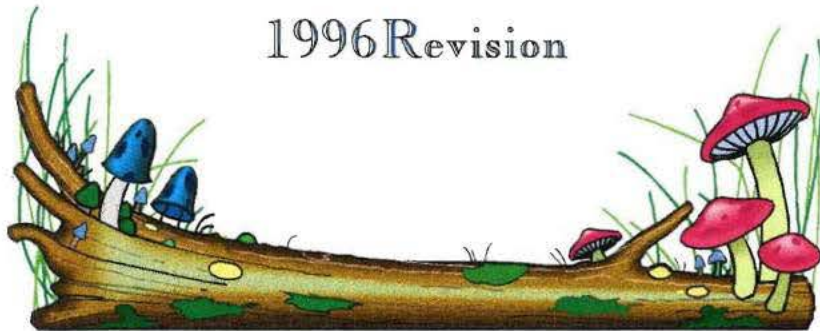


Vascular Plants of  
Feather Falls Trail

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## INTRODUCTION

A formal survey of the vascular flora of Feather Falls Trail was carried out between early October, 1989 and early September, 1990. These data were supplemented by brief lists recorded during recreational hikes in October, 1988 and May, 1989. The primary purpose of the survey was to collect data for a continuing study of the vascular flora of Butte County, which has now been published (Oswald & Ahart, 1994).

Feather Falls Trail is within the Feather Falls Scenic Area of Plumas National Forest in Butte County, California (T20N R6E section 2 and T21N R6E section 35). The trail (Forest Trail 6E33) leads from a trailhead at the end of Bryant Ravine Road, about 1.5 miles north of the town of Feather Falls, to an overlook above Fall River, the goal of most hikers. Just before reaching the overlook, the trail intersects with Forest Trail 7E20.3, which leads to the head of the falls (herein referred to as Cooper's Point) and to a camping area at an abandoned homestead on Fall River. The latter areas are also included in this survey.

From the trailhead, the trail winds along mostly shaded slopes of Frey Creek Canyon through a mixed coniferous forest belonging to the yellow pine forest community characterized by Munz (1973). This portion of the trail is fairly steep, dropping about 650 feet during the first mile. After passing over Frey Creek, the trail more or less parallels the creek along mesic slopes, dropping gradually an additional 300 feet during the second mile into Wagners Valley. An impressive view of Bald Rock Dome appears at one point along this section of trail. Evidence of a long-abandoned homestead is also visible along the trail in Wagners Valley. The last section between Wagners Valley and the overlook is again relatively steep, ascending about 500 feet through dry forest, brushy slopes and granitic outcrops, before dropping 150 feet to the overlook.

TABLE 1. Numerical analysis of the vascular flora of Feather Falls Trail.

FAMILIES	GENERA	SPECIES	VARIETIES*	TOTAL	NON-NATIVE	CNPS LISTED
68	194	279	8	287	38 (13.2%)	5

\*Includes both varieties and subspecies.

A total of 287 plant taxa in 68 families and 194 genera was recorded during the survey (see Table 1). About 13 percent of the plants are non-native introductions to the California flora. No study of this kind is ever complete—since the survey is based on only nine visits, a number of species have undoubtedly not been recorded.

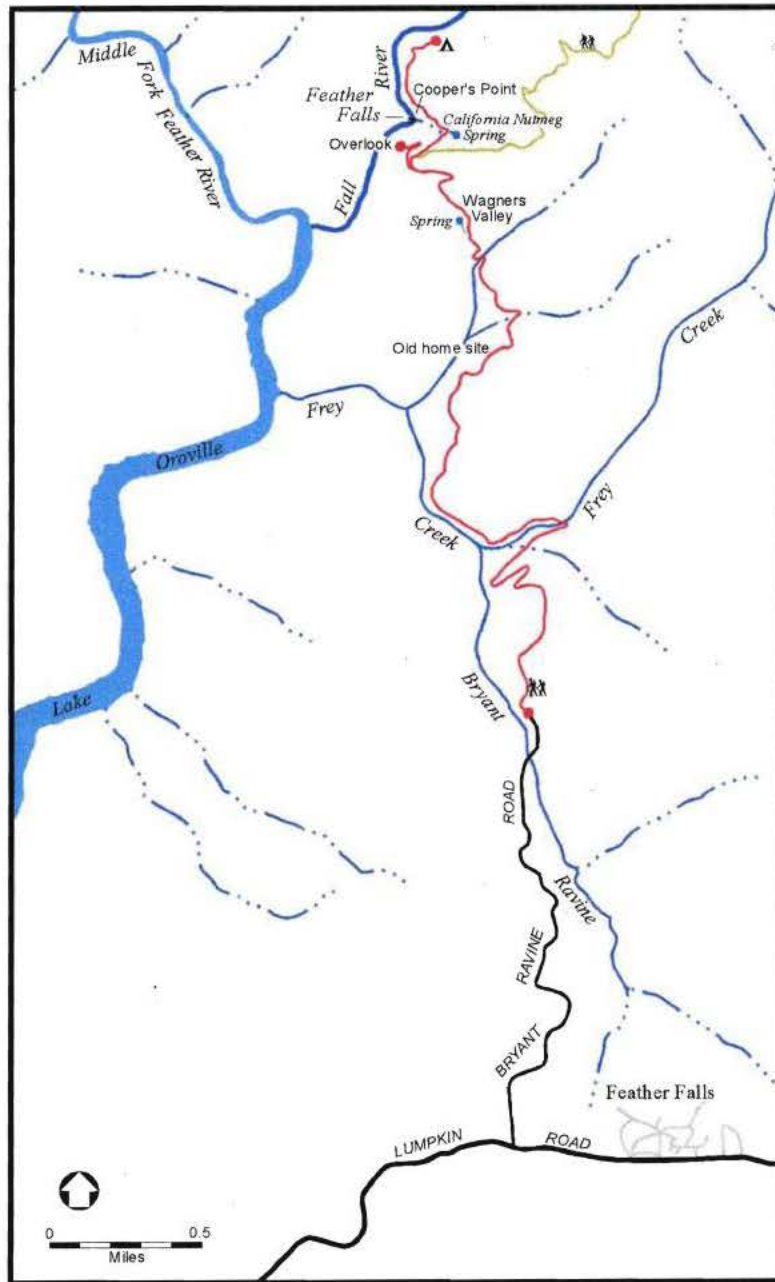


FIGURE 1. Feather Falls Trail with some of its features.

Five of the plants recorded in the survey are in the CNPS *Inventory of Rare and Endangered Vascular Plants of California* (Skinner & Pavlik, 1994). These include True's manzanita (*Arctostaphylos mewukka* ssp. *truei*, List 4), Butte County fritillary (*Fritillaria eastwoodiae*, List 1B), Mildred's clarkia (*Clarkia mildrediae*, List 4), and cut-leaved monkey-flower (*Mimulus laciniatus*, List 4). The inclusion of the Northern California black walnut in the Inventory (List 1B) is based upon native stands in Contra Costa, Napa, and Sacramento counties. The walnuts scattered along the trail in Wagners Valley are probably descendants of a tree planted at the site of an old homestead and are of little or no significance.

Several of the plants along the trail are of interest to the Butte County flora. California sweet-cicely (*Osmorhiza brachypoda*) is a new record for Butte County and an apparent northward extension of its previously known range. A form of iris with a distinct perianth tube separating the throat from the ovary occurs along a section of the trail and apparently corresponds to the Plumas iris (*Iris hartwegii* ssp. *pinetorum*)—it has not previously been collected in Butte County.

Nomenclature in the plant list is based upon *The Jepson Manual* (Hickman, 1993). Some synonyms used in *A California Flora* (Munz, 1973) are included in brackets. Common names are mostly those of Abrams (1923-1960). The date(s) associated with each plant indicate the flowering interval for the plant at the study site, in so far as it could be determined from limited observations. *Early* is applied to days 1 through 10, *mid* to days 11 through 20, and *late* to days 21 through the end of the month. The flowering intervals, together with locations and habitats in which the plants were found, should be considered to be positive but not inclusive statements. Thus, a particular plant might be found at some location other than the ones mentioned in the plant list, or the plant might be found blooming before or after the date or interval indicated. Words such as rare, common, abundant, etc., are entirely subjective.

Some voucher specimens have been collected. They are indicated by collection number and are deposited in the herbarium at California State University, Chico (CHSC).

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- Oswald, V.H. & L. Ahart. 1994. *Manual of the Vascular Plants of Butte County, California*. California Native Plant Society, Sacramento.
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The following sequence of locations, with their approximation elevations, are used in the plant list.

Parking lot, restroom, and trailhead (Forest Trail 6E33) at the end of Bryant Ravine Rd.: 2460 ft.  
Trail sign-in station: 2520 ft.  
0.5 mile post: 2260 ft.  
1.0 mile post: 1920 ft.  
Bridge over Frey Creek: 1800 ft.  
1.5 mile post: 1700 ft.  
Bald Dome Vista: 1720 ft.  
2.0 mile post: 1500 ft.  
Site of old homestead in Wagners Valley: 1500 ft.  
Spring in Wagners Valley: 1720 ft.  
Junction of trail to overlook and trail to Cooper's Point and camping area on Fall River: 2020 ft.  
Overlook: 1840 ft.  
California Nutmeg Spring: 2020 ft.  
Cooper's Point (head of falls): 1900 ft.  
Camping area at old homestead on Fall River: 1900 ft.

Plant names printed in a non-serif typeface, e.g., *Stellaria media*, are not native to the California flora. Plant names underlined are in the CNPS *Inventory*.

## THE PLANT LIST

### FERNS AND FERN ALLIES

#### ISOETACEAE – QUILLWORT FAMILY

*Isoetes nuttallii* A.Braun ex Engelm. – Nuttall's quillwort. Locally common herbaceous perennial in wet moss along a drainage at Cooper's Point. Early Apr. [Oswald & Ahart 4158]

#### SELAGINELLACEAE – SPIKE-MOSS FAMILY

*Selaginella hansenii* Hieron. – Hansen's spike-moss. Locally abundant perennial on exposed outcrops from Wagners Valley to the overlook.

*Selaginella wallacei* Hieron. – Wallace's spike-moss. Locally abundant on shaded, moss-covered rocks from Frey Creek to Fall River. It seems to prefer more shaded exposures than *S. hansenii*.

#### EQUISETACEAE – HORSETAIL FAMILY

*Equisetum hyemale* L. ssp. *affine* (Engelm.) Calder & R.L.Taylor – Western scouring-rush. Rhizomatous perennial on brushy slopes near the spring in Wagners Valley. [Includes var. *californicum* Milde & var. *robustum* A.A.Eaton]

*Equisetum laevigatum* A.Braun – Smooth scouring-rush. Rhizomatous perennial in moist soil at California Nutmeg Spring and along Fall River. [*E. funstoni* A.A.Eaton and *E. kansanum* J.H.Schaffn.]

#### POLYPODIACEAE – FERN FAMILY

[This broad family concept is not followed in many recent floras]

*Adiantum jordanii* Müll.Hal. – California maidenhair. Locally common on shaded slopes and outcrops from fall into spring.

*Cheilanthes intertexta* (Maxon) Maxon – Coastal lip fern. Rare in crevices in granitic boulders near the head of the falls.

*Cystopteris fragilis* (L.) Bernh. – Fragile fern. Occasion delicate fern on shaded banks in Wagners Valley.

*Dryopteris arguta* (Kaulf.) Maxon – Coastal wood fern. Common on shaded forest floor between the trailhead and Frey Creek.

*Pellaea mucronata* (D.C.Eaton) D.C.Eaton – Common bird's-foot fern. Scattered on dry, exposed outcrops from Wagners Valley to Fall River.

*Pentagramma triangularis* (Kaulf.) Yatsk., Windham, & E.Wollenw. ssp. *semipallida* (J.T.Howell) Yatsk., Windham, & E.Wollenw. – Silver-backed fern. Common on semi-shaded to open forest floor and outcrops. [*Pityrogramma triangularis* (Kaulf.) Maxon var. *semipallida* J.T.Howell]

*Polypodium calirhiza* S.A. Whitmore & A.R. Sm. – Intermediate polypody. Locally abundant on moist, shaded slopes and mossy rocks from fall into spring. [*Polypodium californicum* Kaulf., in part]

*Polystichum imbricans* (D.C. Eaton) D.H. Wagner ssp. *imbricans* – Narrow-leaved sword fern. Common on shaded forest floor and outcrops. [*P. munitum* (Kaulf.) C. Presl var. *imbricans* (D.C. Eaton) Maxon]

*Pteridium aquilinum* (L.) Kuhn var. *pubescens* Underw. – Western bracken. Common and often forming large colonies on forest floor and in openings in forest.

*Woodwardia fimbriata* Sm. – Giant chain fern. Common large fern along intermittent streams from Wagners Valley to Fall River.

## CONIFERS

### CUPRESSACEAE – CYPRESS FAMILY

*Calocedrus decurrens* (Torr.) Florin – Incense-cedar. Common evergreen tree in mixed coniferous forest. [*Libocedrus decurrens* Torr.]

### PINACEAE – PINE FAMILY

*Pinus ponderosa* Douglas ex Lawson & C. Lawson var. *ponderosa* – Ponderosa pine. Common large tree in mixed coniferous forest.

*Pseudotsuga menziesii* (Mirb.) Franco var. *menziesii* – Douglas-fir. Common large tree in mixed coniferous forest.

### TAXACEAE – YEW FAMILY

*Torreya californica* Torr. – Californica-nutmeg. Common small to medium-sized tree on shaded slopes.

## DICOT FLOWERING PLANTS

### ACERACEAE – MAPLE FAMILY

*Acer macrophyllum* Pursh – Big-leaved maple. Common tree on shaded forest slopes and in ravines. Early Apr–May.

### ANACARDIACEAE – SUMAC FAMILY

*Toxicodendron diversilobum* (Torr. & A. Gray) Greene – Poison-oak. Occasional to locally common shrub at scattered locations along the trail. Late Apr–May. [*Rhus diversiloba* Torr. & A. Gray]



## APIACEAE – CARROT FAMILY

## [Umbelliferae]

*Angelica californica* Jeps. – California angelica. Uncommon herbaceous perennial on wooded slopes. Early Jul. [*A. tomentosa* S. Watson var. *californica* Jeps.]

*Lomatium utriculatum* (Nutt. ex Torr. & A. Gray) J.M. Coult. & Rose – Bladder lomatium. Herbaceous perennial seen with binoculars on the cliffs at the overlook. Early Apr.

*Osmorhiza brachypoda* Torr. – California sweet-cicely. Locally common herbaceous perennial along the trail between the trailhead and the 0.5 mile post where it grows with *O. chilensis*. This is a new record for Butte County that was brought to my attention by Olle Pellmyr (pers. com., 1990), and it represents a northward extension of the range in Munz (1973). Early May. [Oswald 4258]

*Osmorhiza chilensis* Hook. & Arn. – Mountain sweet-cicely. Common herbaceous perennial on forest floor all along the trail. Early Apr–May.

*Perideridia lemmonii* (J.M. Coult. & Rose) T.I. Chuang & Constance – Lemmon's yampah. Herbaceous perennial in open brush along the trail near the trailhead. Early Sep. [*P. parishii* (J.M. Coult. & Rose) A. Nelson & J.F. Macbr., in part]

*Sanicula bipinnatifida* Douglas ex Hook. var. *flava* Jeps. – Purple sanicle. Scattered to common herbaceous perennial along the trail. Butte County plants in coniferous forest are typically the yellow-flowered variety. Early Apr–May.

*Sanicula graveolens* Poepp. ex DC. – Sierra sanicle. Locally abundant in brushy and semi-open places all along the trail. These plants have a tuberous root and differ from typical *S. graveolens* of higher elevations in Butte County. Early Apr–May.

*Tauschia hartwegii* (A. Gray) J.F. Macbr. – Hartweg's tauschia. Herbaceous perennial noted on moist soil at California Nutmeg Spring (between the overlook and Fall River). Mid Mar.

*Torilis arvensis* (Huds.) Link ssp. *purpurea* (Ten.) Hayek – Purple hedge-parsley. Common annual weed in disturbed places. Late May–Jun. [*T. heterophylla* Guss. as treated in Munz]

## APOCYNACEAE – DOGBANE FAMILY

*Apocynum androsaemifolium* L. – Mountain dogbane. Occasional herbaceous perennial noted on semi-shaded slopes between Bald Dome Vista and Wagners Valley. Vegetative when noted in mid Oct.

*Vinca major* L. – Periwinkle. Perennial ground-cover persisting at the site of the homestead on Fall River. Late Apr–May.

## ARALIACEAE – GINSENG FAMILY

*Aralia californica* S. Watson – Elk-clover. Tall herbaceous perennial along Frey Creek. Early Jul.

## ARISTOLOCHIACEAE – PIPEVINE FAMILY

*Aristolochia californica* Torr. – Pipevine. Woody vine noted on brush near the 2.0 mile post. Mid Oct (with old fruits).

*Asarum hartwegii* S. Watson – Hartweg's wild ginger. Locally abundant herbaceous perennial on moist, shaded forest slopes. Early Apr–May.

## ASCLEPIADACEAE – MILKWEED FAMILY

*Asclepias cordifolia* (Benth.) Jepson – Purple milkweed. Common herbaceous perennial on brushy and open slopes along the trail. Late Apr–Jun.

## ASTERACEAE – SUNFLOWER FAMILY

[*Compositae*]

*Achillea millefolium* L. var. *californica* (Pollard) Jepson – California yarrow. Locally common herbaceous perennial in openings along the trail. Similar the next variety but with distinctly larger flowers. *A. millefolium* is a variable taxon and varieties are not recognized in *The Jepson Manual*. Late May–Jul. [*A. borealis* Bong. ssp. *californica* (Pollard) D.D. Keck]

*Achillea millefolium* var. *lanulosa* (Nutt.) Piper – Woolly yarrow. Common herbaceous perennial in more or less open places. This variety is not recognized in *The Jepson Manual*. Late May. [*A. lanulosa* Nutt.]

*Adenocaulon bicolor* Hook. – Trailplant. Common herbaceous perennial on wooded slopes. Early Jul.

*Agoseris grandiflora* (Nutt.) Greene – Large-flowered agoseris. Herbaceous perennial noted on semi-open slopes in Wagners Valley. Late May–Jul.

*Agoseris retrorsa* (Benth.) Greene – Spear-leaved agoseris. Common herbaceous perennial on open brushy slopes. Early Apr–Jul.

*Artemisia douglasiana* Besser – Mugwort. Scattered to locally abundant herbaceous perennial in disturbed and brushy openings in forest. Early Sep.

*Aster eatonii* (A. Gray) Howell – Eaton's aster. Herbaceous perennial on the stony and brushy bank of Fall River just upstream from the falls. Early Sep. [*A. bracteolatus* Nutt.; *Oswald 4446*]

*Aster oregonensis* (Nutt.) Cronquist – White-topped aster. Occasional herbaceous perennial on openly wooded and brushy slopes between the 1.5 mile post and Fall River. Late Jul–Oct. [Includes ssp. *californicus* (Durand) D.D. Keck]

*Brickellia californica* (Torr. & A.Gray) A.Gray – California brickell-bush. Herbaceous perennial scattered along a small ravine between California Nutmeg Spring and Cooper's Point (at the head of the falls). Early Sep–Oct.

*Chamomilla suaveolens* (Pursh) Rydb. – Common pineapple-weed. Weedy annual noted at the trailhead. Late May. [*Matricaria matricarioides* (Less.) Porter]

*Cirsium vulgare* (Savi) Ten. – Bull thistle. Scattered to common weedy biennial at the trailhead and in disturbed openings along the trail. Early Sep–Oct.

*Conyza floribunda* Humb., Bonpl., & Kunth – Many-flowered horseweed. Occasional weedy annual noted at trailside on the slope between Wagners Valley and the overlook. Mid Sep.

*Erigeron inornatus* (A.Gray) A.Gray var. *inornatus* – California rayless daisy. Common herbaceous perennial on semi-open slopes and flats and on outcrops all along the trail. Late May–Jul.

*Eriophyllum lanatum* (Pursh) J.Forbes var. *croceum* (Greene) Jeps. – Sierra woolly-sunflower. Herbaceous perennial on wooded slopes near the 2-mile post. Late May–Jun.

*Eriophyllum lanatum* var. *grandiflorum* (A.Gray) Jeps. – Large-flowered woolly-sunflower. Occasional to locally common herbaceous perennial in dry, brushy and rocky openings. Early Apr–Jul.

*Filago californica* Nutt. – California filago. Inconspicuous annual on decomposed granite among the outcrops approaching the side trail to Fall River. Early Apr.

*Filago gallica* L. – Narrow-leaved filago. Annual forb near the drainage from California Nutmeg Spring at the head of the falls. Early Apr. [*Logfia gallica* (L.) Coss. & Germ.]

*Gnaphalium canescens* DC. ssp. *thermale* (E.E.Nelson) Stebbins & D.J. Keil – Small-headed cudweed. Common biennial to short-lived perennial on brushy and openly wooded slopes along the trail. Early Jul–Oct. [*G. microcephalum* Nutt. var. *thermale* (E.E.Nelson) Cronquist]

*Grindelia hirsutula* Hook. & Arn. var. *davyi* (Jeps.) M.A.Lane – Foot-hill gumplant. Occasional herbaceous perennial on brushy banks. Late May–Jul. [Included in *C. camporum* Greene in Munz]

*Helianthella californica* A.Gray var. *nevadensis* (Greene) Jeps. – Sierra Nevada helianthella. Herbaceous perennial in open brush between the trailhead and the 0.5 mile post. Late May.

*Hieracium albiflorum* Hook. – White-flowered hawkweed. Common herbaceous perennial on brushy banks and semi-open forest floor. Late May–Oct.

*Hieracium scouleri* Hook. var. *scouleri* – Scouler's hawkweed. Yellow-flowered hawkweeds with stellate pubescence are scattered on decomposed granite of brushy slopes between the overlook and Fall River. Early Jul. [*H. cynoglossoides* Arv.-Touv., misapplied to California plants; *Oswald 4358*]

*Hypochoeris glabra* L. – Smooth cat's-ear. Locally abundant annual on disturbed trailside between Wagners Valley and the overlook. Mid Mar–Jun.

*Lactuca serriola* L. – Prickly lettuce. Locally abundant to scattered annual weed in disturbed openings. Some plants are the var. *integrata* Gren. & Godr., which have entire rather than the pinnatifid leaves of the typical variety. Late Aug–Sep.

*Lessingia nemaclada* Greene – Slender-stemmed lessingia. Common annual on semi-open slopes between Wagners Valley and the overlook. Late Aug–Oct.

*Madia elegans* D.Don ex Lindl. ssp. *elegans* – Common madia. Locally abundant annual in semi-open, often disturbed places between the 0.5 and 1.0 mile posts and near the old homesite between the 1.5 and 2-mile posts. Early Jul–Sep. [*Oswald 4360*]

*Madia elegans* ssp. *vernalis* D.D.Keck – Spring madia. Locally abundant annual in open to semi-open places between the 1.5 mile post and Fall River. Late Apr–Jun.

*Madia exigua* (Sm.) A.Gray – Pigmy tarweed. Small annual noted on open granitic outcrops approaching the side trail to Fall River. Late May.

*Madia gracilis* (Sm.) D.D.Keck – Slender tarweed. Annual forb in brushy and rocky openings at several locations along the trail. Late May–Jul.

*Madia madioides* (Nutt.) Greene – Woodland madia. Scattered to locally abundant herbaceous perennial in more or less open woods from the trail-head to the overlook. According to Munz (1973), this plant is supposed to be found in the outer (rarely inner) Coast Ranges from Monterey County northward to Vancouver Island. Late Apr–Jul.

*Madia subspicata* D.D.Keck – Spiked tarweed. Annual forb noted along the trail between Frey Creek and the 1.5 mile post. Late May.

*Malacothrix floccifera* (DC.) S.F.Blake – Woolly malacothrix. Locally abundant annual in semi-open to open, often disturbed places. Late Apr–Jul.

*Senecio integerrimus* Nutt. var. *major* (A.Gray) Cronquist – Single-stemmed ragwort. Scattered to locally common herbaceous perennial on brushy to semi-open forest slopes. Early Apr–May. [*Oswald & Ahart 4157*]

*Solidago californica* Nutt. – California goldenrod. Scattered to common herbaceous perennial on open to semi-open slopes. Late May–Oct.

*Stephanomeria paniculata* Nutt. – Stiff-branched stephanomeria. Annual forb in the grassy opening in Wagners Valley. Early Sep.

*Stephanomeria virgata* Benth. ssp. *pleurocarpa* (Greene) Gottlieb – Wand stephanomeria. Locally common annual in brushy and disturbed openings and on granitic outcrops between Bald Dome Vista and the overlook. This species superficially resembles the previous taxon but is separated on differences in the akenes. Mid Jul–Oct. [Oswald 4445]

*Taraxacum officinale* Weber – Common dandelion. Herbaceous perennial found between Wagners Valley and the overlook. Early Apr.

*Uropappus lindleyi* (DC.) Nutt. – Silverpuffs. Occasional annual on outcrops and along trails near the overlook and falls. Early Apr–May. [*Microseris lindleyi* (DC.) A.Gray]

*Wyethia angustifolia* (DC.) Nutt. – Narrow-leaved mule’s-ears. Occasional herbaceous perennial on brushy and rocky slopes between the 1.5 mile post and the overlook. Late May–Jun.

#### BETULACEAE – BIRCH FAMILY

*Alnus rhombifolia* Nutt. – White alder. Occasional small to moderate sized tree along streamlets but common along Fall River. Mid Mar.

*Corylus cornuta* Marsh. var. *californica* (A.DC.) W.M.Sharp – California hazelnut. Occasional shrubby tree on shaded canyon slopes. Not observed in flower.

#### BORAGINACEAE – BORAGE FAMILY

*Cryptantha intermedia* (A.Gray) Greene – Common cryptantha. Locally common annual forb in openings on brushy slopes near the overlook. Late Apr. [Includes *C. hendersonii* (A.Nelson) Piper]

*Cynoglossum grande* Douglas ex Lehm. – Pacific hound’s-tongue. Occasional herbaceous perennial on shaded to somewhat open slopes. Mid Mar–Apr.

*Plagiobothrys tenellus* (Nutt. ex Hook.) A.Gray – Slender popcorn-flower. Common annual in grassy openings and on sandy slopes from Wagners Valley to Fall River. Mid Mar–Apr.

#### BRASSICACEAE – MUSTARD FAMILY

##### [Cruciferae]

*Arabis glabra* (L.) Bernh. Var. *glabra* – Tower-mustard. Fairly common biennial on wooded to open slopes. Early Apr–Jun.

*Arabis sparsiflora* Nutt. var. *arcuata* (Nutt.) Rollins – Arched rockcress. Perennial from a branching caudex found on rocks at the overlook. Early Apr–May.

*Athysanus pusillus* (Hook.) Green – Petty athysanus. Inconspicuous annual on banks along the trail. Early Apr.

*Cardamine oligosperma* Nutt. – Western bittercress. Delicate annual on moist soil around outcrops and on disturbed trail edges. Mid Mar.

*Cardamine pachystigma* (S.Watson) Rollins var. *pachystigma* – Stout-beaked toothwort. Common herbaceous perennial on shaded to semi-open slopes and outcrops. A few plants have their cauline leaves 3-foliolate as in the var. *dissectifolia* (Detling) Rollins, but they grow alongside plants with simple cauline leaves. Mid Mar. [*Dentaria pachystigma* S.Watson var. *pachystigma*]

*Draba verna* L. – Spring whitlow-grass. Inconspicuous annual along the trail between the overlook and Fall River. The fruits were too immature to determine the variety with certainty. Mid Mar.

*Erysimum capitatum* (Douglas) Greene ssp. *capitatum* – Western wallflower. Occasional herbaceous perennial on brushy slopes and in brushy openings. Early Apr–Jul.

*Streptanthus tortuosus* Kellogg var. *suffrutescens* (Greene) Jepson – Woody mountain jewelflower. Perennial from a branching caudex on granitic outcrops near the overlook. Small plants which bloom during the first or second year would probably be referred to the var. *tortuosus* were it not for the distinctly perennial plants in the same area. Late May–Jul.

*Thysanocarpus curvipes* Hook. var. *curvipes* – Claspingleaved fringe-pod. Uncommon annual on open, sandy slopes near the overlook. Mid Mar–Apr.

#### CALYCANTHACEAE – CALYCANTHUS FAMILY

*Calycanthus occidentalis* Hook. & Arn. – Western spicebush. Common deciduous shrub in shaded ravines and near streams. Late May–Jul.

#### CAMPANULACEAE – BELLFLOWER FAMILY

*Campanula prenanthoides* Durand – California harebell. Occasional herbaceous perennial on wooded slopes along the trail. Early Jul–Sep.

*Heterocodon rariflorum* Nutt. – Heterocodon. Inconspicuous delicate annual with mostly cleistogamous flowers on moist banks and along drainages from Wagners Valley to Fall River. Early Jul.

#### CAPRIFOLIACEAE – HONEYSUCKLE FAMILY

*Lonicera hispidula* (Lindl.) Douglas ex Torr. & A.Gray var. *vacillans* A.Gray – Hairy honeysuckle. Abundant perennial vine trailing on shaded forest floor or climbing on brush. Late May–Jul.

*Lonicera interrupta* Benth. – Chaparral honeysuckle. Perennial vine noted on brush in an opening between Frey Creek and Wagners Valley and on granitic outcrops at Cooper's Point. Late May–Jul.

*Symphoricarpos mollis* Nutt. – Creeping snowberry. Trailing perennial forming a localized colony on forest floor between the 0.5 and 1.0 mile posts. Late May. [*S. acutus* (A.Gray) Dieck]

#### CARYOPHYLLACEAE – PINK FAMILY

*Cerastium glomeratum* Thuill. – Sticky mouse-eared chickweed. Occasional annual weed in disturbed places at the trailhead and along the trail from the overlook to Fall River. Early Apr–May.

*Lychnis coronaria* (L.) Desr. – Mullein-pink. Common woolly perennial at the trailhead and extending for a short distance along the trail. Early Jul.

*Minuartia douglasii* (Fenzl ex Torr. & A.Gray) Mattf. – Douglas' sandwort. Locally abundant slender stemmed annual on granitic soils of openings near the overlook. Early Apr–May. [*Arenaria douglasii* Fenzl ex Torr. & A.Gray]

*Moehringia macrophylla* (Hook.) Fenzl – Large-leaved sandwort. Common herbaceous perennial on shaded slopes. Early Apr. [*Arenaria macrophylla* Hook.]

*Silene antirrhina* L. – Sleepy catchfly. Annual forb on the granitic outcrops approaching the overlook. Early Apr.

*Silene californica* Durand – Indian-pink. Common herbaceous perennial on semi-open slopes all along the trail. Mid Mar–Jul.

*Silene gallica* L. – Windmill-pink. Weedy annual at the trailhead. Late May.

*Silene lemmonii* S.Watson – Lemmon's catchfly. Common herbaceous perennial on shaded granitic outcrops near the overlook. Early Apr–Jun.

*Stellaria media* (L.) Vill. – Common chickweed. Weedy annual noted at the trailhead. Early Apr.

*Stellaria nitens* Nutt. – Shiny starwort. Inconspicuous slender-stemmed annual in openings along the trail. Early Apr.

#### CONVOLVULACEAE – MORNING GLORY FAMILY

*Calystegia occidentalis* (A.Gray) Brummitt ssp. *occidentalis* – Western morning-glory. Herbaceous vine climbing on brush between the 1.5 and 2.0 mile posts. Late May. [*Convolvulus occidentalis* A.Gray; *C. polymorphus* Greene; *Calystegia polymorpha* (Greene) Munz]

#### CORNACEAE – DOGWOOD FAMILY

*Cornus nuttallii* Audubon ex Torr. & A.Gray – Mountain dogwood. Common small tree on shaded forest slopes. Early Apr–May, occasional plants blooming again in the fall.

*Cornus sessilis* Torr. ex Durand – Black-fruited dogwood. Small, shrubby tree along Frey Creek and Fall River. Late Apr (plants with flowers and young fruits).

#### CRASSULACEAE – STONECROP FAMILY

*Dudleya cymosa* (Lem.) Britton & ssp. *cymosa* – Canyon dudleya. Succulent perennial on granitic cliffs at the head of the falls. Late Apr (in bud).

*Sedum spathulifolium* Hook. – Broad-leaved stonecrop. Common succulent perennial forming colonies on shaded forest floor and outcrops. Early Apr–Jun.

#### CUCURBITACEAE – GOURD FAMILY

*Marah watsonii* (Cogn.) Greene – Taw manroot. Herbaceous vine trailing on forest floor between the 0.5 mile post and Frey Creek. Late Apr.

#### ERICACEAE – HEATH AND WINTERGREEN FAMILY

[Includes *Pyrolaceae*]

*Arbutus menziesii* Pursh – Pacific madrone. Occasional small to moderate sized evergreen tree on shaded forest slopes. Early Apr–May.

*Arctostaphylos mewukka* Merriam ssp. *mewukka* – Indian manzanita. Pale-leaved manzanitas with basal burls are located between the trailhead and the 0.5 mile post and again on brushy slopes in Wagners Valley. Mid Mar.

*Arctostaphylos mewukka* ssp. *truei* (W.Knight) P.V.Wells – True's manzanita. Some of the manzanitas in Wagners Valley lack a basal burl but are not otherwise distinguishable from *A. mewukka*, which grows in the same area. Mid Mar. CNPS List 4.

*Arctostaphylos viscida* Parry ssp. *viscida* – White-leaved manzanita. Common evergreen shrub on brushy slopes from Wagners Valley to Fall River. Mid Mar–Apr.

*Chimaphila umbellata* (L.) Bartram – Pipsissewa. Locally abundant low evergreen perennial on shaded forest floor near Frey Creek. Vegetative when noted in Mid Oct. [Includes var. *occidentalis* (Rydb.) Blake]

*Rhododendron occidentale* (Torr. & A.Gray) A.Gray – Western azalea. Deciduous shrub along Fall River at the old homesite. Vegetative in late Apr.

#### FABACEAE – PEA FAMILY

[*Leguminosae*]

*Cercis occidentalis* Torr. ex A.Gray – Western redbud. Large shrub known only from a single plant at the trailhead. Early Apr–May.

*Lathyrus latifolius* L. – Everlasting pea. Perennial herbaceous vine at the old homesites in Wagners Valley and at Fall River. Late May–Jul.



*Lathyrus sulphureus* W.H.Brewer ex A.Gray – Snub pea. Perennial herbaceous vine in sunny openings in brush. Early Apr–May.

*Lotus argophyllus* (A.Gray) Greene var. *fremontii* (A.Gray) Ottley – Silver-leaved lotus. Locally common herbaceous perennial on granitic outcrops between Wagners Valley and the overlook. Late May–Jul.

*Lotus humistratus* Greene – Foothill lotus. More or less prostrate annual in sunny exposures on slopes between Wagners Valley and Fall River. Early Apr–May.

*Lotus micranthus* Benth. – Small-flowered lotus. Common and locally abundant erect annual in grassy and gravelly openings. Early Apr–May.

*Lotus nevadensis* (S.Watson) Greene var. *nevadensis* – Sierra lotus. Herbaceous perennial forming mats on semi-open slopes and granitic outcrops from Wagners Valley to the overlook. Late May–Sep.

*Lotus purshianus* (Benth.) Clem. & E.G.Clem. – Spanish lotus. Annual forb along the trail near Wagners Valley. Early Jul–Sep.

*Lotus strigosus* (Nutt.) Greene – Strigose lotus. Uncommon annual forb on open granitic outcrops approaching the overlook. Early Apr–May. [Includes var. *hirtellus* (Greene) Ottley]

*Lupinus albicaulis* Douglas ex Hook. – Sickle-keeled lupine. Uncommon herbaceous perennial on open slopes between the 1.5 mile post and Wagners Valley. Flowers are the dark purplish color typical of plants in the Feather River drainage. Late Apr–Jul.

*Lupinus albifrons* Benth. ex Lindl. Var. *albifrons* – Silver bush lupine. Common small shrub on open, dry slopes between Bald Dome Vista and the falls. Early Apr–May. [Includes var. *eminens* (Greene) C.P.Sm.]

*Lupinus bicolor* Lindl. var. *tridentatus* Eastw. ex C.P. Sm. – Bicolored lupine. Annual forb in open brush and on grassy slopes from Wagners Valley to Fall River. Early Apr–Jun.

*Lupinus grayi* (S.Watson) S.Watson – Gray's lupine. Herbaceous perennial on open forest floor between the 0.5 and 1.0 mile posts. Vegetative in early Jul.

*Lupinus nanus* Douglas ex Benth. var. *vallicola* (A.Heller) C.P.Sm. – Valley sky lupine. Annual forb at the trailhead and on granitic outcrops at the approach to the side trail to Fall River. Late Apr–Jul. [*L. vallicola* A.Heller]

*Lupinus polycarpus* Greene – Small-flowered lupine. Annual forb along the trail between Wagners Valley and the side trail to Fall River. Early Apr. [*L. micranthus* Douglas]

*Lupinus stiversii* Kellogg – Harlequin lupine. Colorful annual in openings in brush and on sunny outcrops between Wagners Valley and the overlook. Early Apr–Jun.

*Trifolium ciliolatum* Benth. – Foothill clover. Common annual on open slopes from Wagners Valley to the overlook. Late Apr–Jun.

*Trifolium dubium* Sibth. – Little hop clover. Weedy annual at the trailhead. Late Apr–Jun.

*Trifolium hirtum* All. – Rose clover. Weedy annual found at the trailhead. Late May.

*Trifolium microcephalum* Pursh – Small-headed clover. Annual forb on the granitic outcrops at the approach to the side trail to Fall River. Early Apr.

*Trifolium subterraneum* L. – Subterranean clover. Weedy annual in the grassy area at the trailhead. Late Apr.

*Trifolium variegatum* Nutt. – White-tipped clover. Annual forb along the moist edge of a drainage at Cooper's Point. Early Jul.

*Trifolium willdenovii* Spreng. – Tomcat clover. Occasional annual forb on semi-open slopes and outcrops between Wagners Valley and the overlook. Late Apr–Jun. [*T. tridentatum* Lindl., including var. *aiculare* (Nutt.) McDermott]

#### FAGACEAE – OAK FAMILY

*Lithocarpus densiflora* (Hook. & Arn.) Rehder var. *densiflora* – Common tan-oak. Common tree on wooded slopes. Early Jul.

*Quercus chrysolepis* Liebm. Var. *chrysolepis* – Canyon live oak. Common evergreen oak on canyon slopes. Flowering interval not determined.

*Quercus kelloggii* Newb. – California black oak. Common deciduous forest tree. Flowering interval not determined.

*Quercus wislizenii* A.DC. var. *wislizenii* – Interior live oak. Small evergreen oaks on granitic outcrops at the side trail to Fall River. Early Apr.

#### GARRYACEAE – SILK-TASSEL FAMILY

*Garrya fremontii* Torr. – Fremont's silktassel. Evergreen shrub on the brushy slopes near the head of the falls. Late Apr (females only seen, these already in fruit).

#### GENTIANACEAE – GENTIAN FAMILY

*Centaurium venustum* (A.Gray) B.L.Rob. – Canchalagua. Annual forb along a drainage at Cooper's Point. Early Jul–Sep. [Includes ssp. *abramsii* Munz]

#### GERANIACEAE – GERANIUM FAMILY

*Erodium cicutarium* (L.) L'Hér. – Red-stemmed filaree. Weedy annual on moist outcrops at Cooper's Point. Early Jul.

**GROSSULARIACEAE – GOOSEBERRY FAMILY**

[Included in Saxifragaceae in some floras]

*Ribes roezlii* Regel var. *roezlii* – Sierra gooseberry. Occasional shrub on dry slopes and forest floor. Mid Mar–Apr.

**HIPPOCASTANACEAE – BUCKEYE FAMILY**

*Aesculus californica* (Spach) Nutt. – California buckeye. Small shrubby tree scattered on semi-open, brushy slopes between Bald Dome Vista and the falls. Late May–Jun.

**HYDROPHYLLACEAE – WATERLEAF FAMILY**

*Hydrophyllum occidentale* (S. Watson) A. Gray – California waterleaf. Occasional herbaceous perennial on shaded to semi-open canyon slopes. Early Apr–May.

*Nemophila heterophylla* Fisch. & C.A. Mey. – Variable-leaved nemophila. Common and locally abundant annual forb on shaded slopes and outcrops. Mid Mar–May.

*Phacelia egea* (Greene ex Brand) J.T. Howell – Rock phacelia. Common perennial on granitic outcrops near the overlook. Early Apr–May.

*Phacelia imbricata* Greene ssp. *imbricata* – Imbricate phacelia. Locally abundant perennial on semi-open wooded slopes and outcrops. Late May–Jul.

**HYPERICACEAE – ST. JOHN’S-WORT FAMILY**

*Hypericum perforatum* L. – Klamathweed. Common weedy perennial in open to semi-open places. Late May–Oct.

**JUGLANDACEAE – WALNUT FAMILY**

*Juglans californica* S. Watson var. *hindsii* Jeps. – Northern California black walnut. Small to moderate sized trees volunteered along the trail in Wagners Valley, the parent tree probably planted at a former homesite located here. Late Apr. CNPS List 1B (native populations). [*J. hindsii* (Jeps.) R.E. Sm.]

**LAMIACEAE – MINT FAMILY**

[Labiatae]

*Monardella lanceolata* A. Gray – Mustang-mint. Common annual on semi-open slopes and outcrops all along the trail. Late May–Jul.

*Monardella sheltonii* Torr. – Shelton’s coyote-mint. Herbaceous perennial on open, brushy and rocky slopes and flats all along the trail. Mid Jul–Sep. [*M. villosa* Benth. ssp. *sheltonii* (Torr.) Epling]

*Scutellaria californica* A.Gray – California skullcap. Herbaceous perennial scattered on semi-open slopes and outcrops from Frey Creek to the overlook. Early Jul.

#### LAURACEAE – LAUREL FAMILY

*Umbellularia californica* (Hook. & Arn.) Nutt. – California bay. Common tree or tall shrub on shaded canyon slopes. Mid Mar–Apr.

#### ONAGRACEAE – EVENING PRIMROSE FAMILY

*Clarkia concinna* (Fisch. & C.A.Mey.) Greene ssp. *concinna* – Redribbons. Common annual forb on semi-open slopes. Late May–Jul.

*Clarkia mildrediae* (A.Heller) F.H.Lewis & M.R.Lewis – Mildred's clarkia. Occasional annual on granitic outcrops near the overlook. Early Jul. CNPS List 4.

*Clarkia rhomboidea* Douglas – Diamond clarkia. Fairly common annual on semi-open slopes. Late May–Jul.

*Epilobium canum* (Greene) Raven ssp. *latifolium* (Hook.) Raven – California-fuchsia. Herbaceous perennial on the rocky margin of Fall River near the head of the falls. Late Sep–Oct. [*Zauschneria californica* Presl ssp. *latifolia* (Hook.) D.D.Keck]

#### PAPAVERACEAE – POPPY FAMILY

[Includes *Fumariaceae*]

*Dicentra formosa* (Haw.) Walp. – Pacific bleedinghearts. Common herbaceous perennial on shaded slopes. Early Apr–Jun.

#### PHILADELPHACEAE – MOCK ORANGE FAMILY

[In *Saxifragaceae* in some floras]

*Philadelphus lewisii* Pursh – Mock orange. Deciduous shrub scattered on semi-open slopes from about the 1.5 mile post to Fall River. Late May–Jul. [Includes ssp. *californicus* (Benth.) Munz]

#### PLANTAGINACEAE – PLANTAIN FAMILY

*Plantago lanceolata* L. – English plantain. Common weedy perennial in disturbed places. Late Apr–Jul.

#### POLEMONIACEAE – PHLOX FAMILY

*Collomia heterophylla* Douglas ex Hook. – Variable-leaved collomia. Annual forb noted in open forest near the trailhead. Late May.

*Gilia capitata* Sims ssp. *pedemontana* V.E.Grant – Foothill globe gilia. Annual forb noted in open forest near the trailhead and on open, granitic outcrops approaching the overlook. Late Apr–Jul.

## POLYGALACEAE – MILKWORT FAMILY

*Polygala cornuta* Kellogg var. *cornuta* – Sierra milkwort. Common herbaceous perennial on wooded and brushy slopes. Late May–Jul.

## POLYGONACEAE – BUCKWHEAT FAMILY

*Eriogonum luteolum* Greene – Wicker buckwheat. Locally abundant annual on granitic outcrops approaching the overlook. Early Jul–Sep. [Similar to *E. vimineum* Douglas ex Benth.]

*Eriogonum nudum* Douglas ex Benth. var. *pubiflorum* Benth. – Hairy-flowered buckwheat. Locally common herbaceous perennial on open to semi-open slopes between Bald Dome Vista and Fall River. Late Aug–Oct.

*Rumex acetosella* L. – Sheep sorrel. Weedy perennial noted at the trailhead. Early Jul. [*R. angiocarpus* Murb.]

## PORTULACACEAE – PURSLANE FAMILY

*Claytonia parviflora* Douglas ex Hook. ssp. *parviflora* – Small-flowered miner's-lettuce. Locally common annual on shaded banks and outcrops. Mid Mar–Apr. [*Montia perfoliata* (Donn ex Willd.) Howell forma *parviflora* (Douglas ex Hook.) J.T.Howell]

*Claytonia rubra* (Howell) Tidestr. – Red-stemmed miner's-lettuce. Locally common annual on semi-open banks and forest floor. Early Apr. [*Montia perfoliata* (Donn ex Willd.) Howell var. *depressa* (A.Gray) Jeps.]

*Montia diffusa* (Nutt.) Greene – Spreading montia. Rare annual in a disturbed opening near the creek in Bryant Ravine just south of the trailhead. This is the second recorded population in Butte County, the plant having previously been collected about a half mile to the east. Early Jul. [Oswald 4361]

*Montia fontana* L. ssp. *chondrosperma* (Frenzl) Walters – Water montia. Common annual in a wet drainage at Cooper's Point. Early Apr–Jul. [*M. minor* C.C.Gmel.; *M. verna* Neck]

*Montia parvifolia* (Moç. ex DC.) Greene – Small-flowered montia. Locally abundant herbaceous perennial on moist, shaded slopes near Frey Creek. Late Apr–Jun.

## PRIMULACEAE – PRIMROSE FAMILY

*Dodecatheon hendersonii* A.Gray – Henderson's shootingstar. Common herbaceous perennial in brush and on forest floor. Mid Mar–Apr. [Includes ssp. *parvifolium* (Kunth) H.J.Thomps.]

*Trientalis latifolia* Hook. – Pacific starflower. Common herbaceous perennial on shaded forest floor. Flowers are mostly white, but plants with dark pink flowers also occur in some colonies. Early Apr–May.

## RANUNCULACEAE – CROWFOOT FAMILY

*Delphinium gracilentum* Greene – Slender larkspur. Common herbaceous perennial on shaded to semi-open banks and forest floor. Early Apr–Jun. [*D. patens* Benth. ssp. *greenei* (Eastw.) Ewan]

*Isopyrum occidentale* Hook. & Arn. – Western rue-anemone. Locally abundant herbaceous perennial on mossy outcrops and semi-open slopes between Bald Dome Vista and the 2.0 milepost. Mid Mar–Apr.

*Kumlienia hystricula* (A.Gray) Greene – Waterfall buttercup. Locally abundant herbaceous perennial in wet crevices in granite boulders at the head of the falls. Early Apr. [*Ranunculus hystriculus* A.Gray]

*Ranunculus occidentalis* Nutt. – Western buttercup. Common herbaceous perennial in open forest and brush. Mid Mar–May. [Includes var. *eisenii* (Kellogg) A.Gray]

## RHAMNACEAE – BUCKTHORN FAMILY

*Ceanothus cuneatus* (Hook.) Nutt. var. *cuneatus* – Buckbrush. Fairly common shrub on brushy slopes near California Nutmeg Spring. Mid Mar–Apr.

*Ceanothus integerrimus* Hook. & Arn. – Deerbrush. Common and widespread shrub all along the trail. Early Apr–Oct.

*Rhamnus ilicifolia* Kellogg – Holley-leaved redberry. A single individual of this evergreen shrub was found in brush at Cooper's Point. Early Jul (with ripe fruit). [*R. crocea* Nutt. ssp. *ilicifolia* (Kellogg) C.B.Wolf]

*Rhamnus rubra* Greene – Sierra coffeeberry. Occasional shrub on brushy slopes. Late Apr. [Includes ssp. *obtusissima* (Greene) C.B.Wolf]

## ROSACEAE – ROSE FAMILY

*Fragaria vesca* L. – Woodland strawberry. Common herbaceous perennial forming colonies on semi-open forest floor all along the trail. Early Apr–Jun. [*F. californica* Cham. & Schtldl.; *F. vesca* ssp. *californica* (Cham. & Schtldl.) Staudt]

*Heteromeles arbutifolia* (Lindl.) M.Roem. – Toyon. Occasional shrub on brushy slopes from Bald Dome Vista to Fall River. Early Jul (with both flowers and young fruit).

*Horkelia tridentata* Torr. ssp. *tridentata* – Three-toothed horkelia. Common herbaceous perennial in openings in brush and forest. Early Apr–Jul.

*Potentilla glandulosa* Lindl. ssp. *glandulosa* – Sticky cinquefoil. Herbaceous perennial at scattered locations from the trailhead to Wagners Valley. Late Apr–Jun.

*Rosa bridgesii* Crép. – Bridges' rose. Common low rose in open forest between the trailhead and the 0.5 milepost. Late May–Jun.

*Rosa gymnocarpa* Nutt. – Bald-hip rose. Common shrubby perennial on forest slopes from about the 0.5 milepost downward into the canyon. Late May–Jun.

*Rubus discolor* Weihe & Nees – Himalayan blackberry. Weedy bramble at the trailhead and near drainages along the trail. Late May–Jul. [*R. procerus* P.J.Müll.]

*Rubus glaucifolius* Kellogg – Creeping raspberry. Occasional perennial with trailing canes on forest floor near Frey Creek. Late Apr–May.

*Rubus parviflorus* Nutt. – Thimbleberry. Occasional deciduous shrub on wooded slopes. Late May–Jun.

#### RUBIACEAE – MADDER FAMILY

*Galium aparine* L. – Cleavers. Occasional annual along the trail between Bald Dome Vista and Wagners Valley. Early Apr–May.

*Galium bolanderi* A.Gray – Bolander's bedstraw. Common herbaceous perennial on brushy and semi-open slopes all along the trail. Late Apr–Jul.

*Galium parisiense* L. – Wall bedstraw. Weedy annual at Cooper's Point. Early Jul.

*Galium triflorum* Michx. – Sweet-scented bedstraw. Herbaceous perennial in moist and shaded places between Frey Creek and Wagners Valley.

#### SALICACEAE – WILLOW FAMILY

*Populus fremontii* S.Watson ssp. *fremontii* – Fremont's cottonwood. Deciduous tree along a moist drainage at the trailhead. Early Apr.

*Salix gooddingii* C.R.Ball – Black willow. Occasional tree along Fall River. Early Apr. [Includes var. *variabilis* Ball]

*Salix lasiolepis* Benth. – Arroyo willow. Shrubby willow along Fall River. Mid Mar.

*Salix lucida* Muhl. ssp. *lasiandra* (Benth.) E.Murray – Yellow willow. Small tree to large shrub at the trailhead. Flowering interval not determined. [*S. lasiandra* Benth.]

#### SAXIFRAGACEAE – SAXIFRAGE FAMILY

*Boykinia occidentalis* Torr. & A.Gray – Western brookfoam. Locally abundant herbaceous perennial on mossy rocks along Frey Creek. Early Jul.

*Darmera peltata* (Torr. & A.Gray) Voss – Indian-rhubarb. Herbaceous perennial on the rocky edge of Fall River. Flowering interval not determined. [*Peltiphyllum peltatum* (Torr. ex Benth.) Engl.]

*Heuchera micrantha* Douglas ex Lindl. – Crevice alumroot. Locally abundant on shaded outcrops and trailside banks from Frey Creek to Fall River. Early Apr–Jun. [Includes the var. *erubescens* (A. Braun & C. D. Bouché) Rosend.]

*Lithophragma bolanderi* A. Gray – Bolander's woodlandstar. Occasional herbaceous perennial with spreading petals on brushy banks and semi-open slopes from Frey Creek to Fall River. Early Apr–Jun.

*Lithophragma campanulatum* Howell – Bell-shaped woodlandstar. Locally common herbaceous perennial with suberect petals on semi-open, brushy slopes from the trailhead to near Bald Dome Vista. Olle Pellmyr (pers. comm., 1990), who has collected *Lithophragma* over a wide area of the Pacific States, prefers to consider these plants as atypical *L. bolanderi*, tending towards *L. campanulatum* here in Butte County. Early Apr–May. [Oswald & Ahart 4156]

*Lithophragma parviflorum* (Hook.) Nutt. ex Torr. & A. Gray var. *parviflorum* – Small-flowered woodlandstar. Common on semi-open slopes from about the 1.0 milepost to about the 1.5 milepost. These plants have basal leaves divided to the base, which is typical of *L. parviflorum*. However, Butte County is in a transitional area between *L. affine* to the south and *L. parviflorum* to the north, and Olle Pellmyr (pers. comm., 1990) would associate the Feather Falls plants more closely to the former, based upon characteristics of the pistil. Early Apr–May. [Oswald & Ahart 4155]

*Saxifraga californica* Greene – California saxifrage. Locally abundant herbaceous perennial on mossy outcrops and semi-open slopes from Bald Dome Vista to Wagner's Valley. Mid Mar–Apr.

*Saxifraga fallax* Greene – Greene's saxifrage. Herbaceous perennial on wet rock along a drainage at Cooper's Point. Late Apr. [Included in *S. californica* Greene in some floras]

*Tellima grandiflora* (Pursh) Douglas ex Lindl. – Fringecups. Locally common herbaceous perennial on shaded slopes and outcrops. Late Apr–May.

#### SCROPHULARIACEAE – FIGWORT FAMILY

*Castilleja applegatei* Fernald ssp. *pinetorum* (Fernald) T. I. Chuang & Heckard – Wavy-leaved Indian-paintbrush. Common herbaceous perennial in sunny openings in brush and on outcrops. Mid Mar–Sep.

*Castilleja attenuata* (A. Gray) T. I. Chuang & Heckard – Valley-tassels. Annual forb found on an open, grassy slope between the overlook and Fall River. Early Apr. [*Orthocarpus attenuatus* A. Gray]

*Collinsia tinctoria* Hartw. ex Benth. – Sticky Chinese-houses. Fairly common annual on brushy and rocky slopes from about the 1.5 mile post to the overlook. Late May–Jul.



*Cordylanthus pilosus* A.Gray ssp. *trifidus* (B.L.Rob. & Greenm.) T.I.Chuang & Heckard – Trifid bird's-beak. Locally abundant in brush near the trailhead and on granitic outcrops near the overlook. Late May–Sep.

*Keckiella breviflora* (Lindl.) Straw var. *glabrisepala* (D.D.Keck) N.H.Holmgren – Gaping keckiella. Small shrub on rocky slopes and outcrops from Wagners Valley to Fall River. Late May–Jul. [*Penstemon breviflorus* Lindl. ssp. *glabrisepalus* D.D.Keck]

*Mimulus aurantiacus* Curtis – Bush monkey-flower. Common small shrub on semi-open to open slopes and outcrops from just past Frey Creek to the falls. Late Apr–Jul. [*M. bifidus* Pennell; *Diplacus grandiflorus* (Lindl.) Groenl.]

*Mimulus guttatus* Fisch. ex DC. – Seep monkey-flower. Annual forb on wet outcrops at Cooper's Point. Early Jul–Sep.

*Mimulus kelloggii* (Curran ex Greene) Curran ex A.Gray – Kellogg's monkey-flower. Locally abundant annual on sunny banks. Mid Mar–May.

*Mimulus laciniatus* A.Gray – Cut-leaved monkey-flower. Locally abundant annual on wet seepage at Cooper's Point. Late Apr. CNPS List 4. [Oswald 4175]

*Mimulus nasutus* Greene – Snouted monkey-flower. Locally abundant annual on wet granitic boulders at Cooper's Point. Late Apr. [Included in *M. guttatus* Fisch. ex DC. in some floras]

*Pedicularis densiflora* Benth. ex Hook. – Indian-warrior. Locally common herbaceous perennial in brushy places. Early Apr.

*Penstemon laetus* A.Gray var. *leptosepalus* Greene ex A.Gray – Western gray beardtongue. Herbaceous perennial on semi-open slopes and outcrops. Late May–Jul.

*Verbascum thapsus* L. – Woolly mullein. Scattered biennial weed in openings along the trail. Early Sep–Oct.

*Veronica americana* (Raf.) Schwein. ex Benth. – American brooklime. Herbaceous perennial along Frey Creek near the bridge. Flowering interval not determined.

#### SOLANACEAE – NIGHTSHADE FAMILY

*Solanum parishii* A.Heller – Parish's nightshade. Small, shrubby perennial on brushy slopes approaching the overlook. Early Apr–May.

#### STYRACACEAE – STORAX FAMILY

*Styrax officinalis* L. var. *rediviva* (Torr.) H.W.Howard – California snowbell. Fairly common shrub on open slopes from Frey Creek to Fall River. Late Apr–May. [Includes var. *californica* (Torr.) Rehder]

## VALERIANACEAE – VALERIAN FAMILY

*Plectritis macrocera* Torr. & A.Gray – White plectritis. Uncommon, inconspicuous annual found at the base of an outcrop near Bald Dome Vista. Early Apr.

## VIOLACEAE – VIOLET FAMILY

*Viola lobata* Benth. ssp. *lobata* – Pine violet. Common herbaceous perennial on forest floor. Some plants have barely lobed leaves, approaching the ssp. *integrifolia* (S.Watson) J.R.Little. Early Apr–Jul.

*Viola purpurea* Kellogg ssp. *purpurea* – Purple-stemmed mountain violet. Common herbaceous perennial in brush or open forest. Mid Mar–May.

*Viola sheltonii* Torr. – Shelton's violet. Locally common herbaceous perennial in open brush between the trailhead and the 0.5 mile post. Early Apr.

## VISCACEAE – MISTLETOE FAMILY

[Loranthaceae in some floras]

*Phoradendron villosum* (Nutt.) Nutt. – Hairy mistletoe. Occasional parasite of California black oak (*Quercus kelloggii*), canyon oak (*Q. chrysolepis*), and interior live oak (*Q. wislizenii*). Flowering interval not determined. [*P. flavescens* (Pursh) Nutt. var. *villosum* (Nutt.) Engelm.]

## VITACEAE – GRAPE FAMILY

*Vitis californicus* Benth. – California wild grape. Climbing woody vine at scattered locations along the trail. Late May–Jun.

## MONOCOT FLOWERING PLANTS

## CYPERACEAE – SEDGE FAMILY

*Carex barbarae* Dewey – Santa Barbara sedge. Locally abundant rhizomatous sedge on a vernal moist but summer dry slope near the spring in Wagners Valley. Early Apr.

*Carex multicaulis* L.H.Bailey – Many-stemmed sedge. Common tufted perennial on dry forest floor. Mid Mar.

*Carex nudata* W.Boott – Torrent sedge. Densely tufted perennial on the rocky edges of Fall River. Vegetative when noted in Mid Oct.

*Cyperus eragrostis* Lam. – Tall cyperus. Herbaceous perennial at Cooper's Point along the drainage coming from California Nutmeg Spring. Early Jul.

## IRIDACEAE – IRIS FAMILY

*Iris hartwegii* Baker ssp. *hartwegii* – Hartweg's iris. Herbaceous perennial on wooded slopes between the trailhead and Frey Creek and again between Wagners Valley and Fall River. Late Apr–Jun.

*Iris hartwegii* ssp. *pinetorum* (Eastw.) L.W.Lenz – Plumas iris. An iris with the ovary distinctly below the throat is common from Frey Creek to Wagners Valley. Typical ssp. *hartwegii* was not seen along this section of the trail, but it does occur at either end. Late Apr–May. [Oswald 4176]

## JUNCACEAE – RUSH FAMILY

*Juncus tenuis* Willd. – Slender rush. Locally common caespitose perennial along the drainage at Cooper's Point. Early Jul.

*Luzula comosa* E.Mey. var. *subsessilis* S.Watson – Sessile wood-rush. Common tufted herbaceous perennial on wooded slopes. Mid Mar. [*L. subsessilis* (S.Watson) Buchenau]

## LILIACEAE – LILY FAMILY

[Includes *Amaryllidaceae*]

*Brodiaea elegans* Hoover ssp. *elegans* – Elegant brodiaea. Herbaceous perennial on the outcrops at Cooper's Point. Early Jul.

*Calochortus monophyllus* (Lindl.) Lem. – Yellow star-tulip. Common herbaceous perennial on sunny slopes and in brushy openings all along the trail. Mid Mar–Jun.

*Chlorogalum pomeridianum* (DC.) Kunth var. *pomeridianum* – Wavy-leaved soap-plant. Herbaceous perennial on the outcrops at Cooper's Point. Early Jul (with both flowers and fruit).

*Dichelostemma multiflorum* (Benth.) A.Heller – Round-toothed ookow. Occasional herbaceous perennial on open brushy and wooded slopes. Late Apr–Jun. [*Brodiaea multiflora* Benth.]

*Dichelostemma volubile* (Kellogg) A.Heller – Twining ookow. Occasional herbaceous perennial with the flowering scape twining on brush and over outcrops. Late May–Jun. [*Brodiaea volubilis* (Kellogg) Baker]

*Erythronium multiscapoideum* (Kellogg) A.Nelson & P.B.Kenn. – Sierra fawn-lily. Occasional herbaceous perennial on shaded forest floor. Early Apr. [*E. hartwegii* S.Watson]

*Fritillaria eastwoodiae* Macfarlane – Butte County fritillary. Common herbaceous perennial on brushy slopes all along the trail. The plants are quite variable, and some have open campanulate flowers with the glands more than half as long as the tepals, thus approaching *F. micrantha* A.Heller. Entire plants or individual flowers with aborted pistils are common. Early Apr. CNPS List 1B. [*F. phaeanthera* Eastw.]

*Smilacina racemosum* (L.) Desf. – Western false solomon's-seal. Occasional herbaceous perennial on shaded slopes near the 1.0 mile post. Late Apr–May. [Includes var. *amplexicaulis* (Nutt.) S.Watson and var. *glabra* (J.F.Macbr.) H.St. John]

*Triteleia hyacinthina* (Lindl.) Greene – Wild hyacinth. Herbaceous perennial along a moist drainage at Cooper's Point. Early Jul. [*Brodiaea hyacinthina* (Lindl.) Baker]

*Triteleia ixioides* (W.T.Aiton) Greene ssp. *anilina* (Greene) L.W.Lenz – Mountain pretty face. Occasional herbaceous perennial on semi-open slopes from about the 2 mile post to Wagners Valley. Late May–Jun. [*Brodiaea lutea* (Lindl.) C.V.Morton var. *anilina* [sic] (Greene) Munz]

#### ORCHIDACEAE – ORCHID FAMILY

*Cephalanthera austini* (A.Gray) A.Heller – Phantom orchid. Saprophytic perennial seen on a shaded slope between the 1.0 mile post and the bridge over Frey Creek. Late Apr (in bud).

*Piperia elongata* Rydb. – Dense-flowered piperia. Occasional herbaceous perennial on dry, wooded slopes between Frey Creek and Wagners Valley. Early Jul. [*P. elegans* (Lindl.) Rydb., in part; *Habenaria elegans* (Lindl.) Bol. var. *elegans*, in part]

*Spiranthes porrifolia* Lindl. – Western lady's-tresses. Herbaceous perennial growing along a drainage at Cooper's Point. Early Jul. [*S. porrifolia romanzoffiana* Cham. var. *porrifolia* (Lindl.) Ames & Correll]

#### POACEAE – GRASS FAMILY

##### [Gramineae]

*Agrostis exarata* Trin. var. *monolepis* (Torr.) Hitchc. – Awned spiked bentgrass. Locally common in wet drainages at Cooper's Point. Early Jul.

*Agrostis pallens* Trin. – Leafy bentgrass. Common perennial at Cooper's Point where it forms tufts in moist crevices in granite. Early Jul. [*Agrostis diegoensis* Vasey; Oswald 4359]

*Aira caryophyllea* L. – Silver European hairgrass. Common delicate annual all along the trail. Early Apr.

*Avena barbata* Brot. ex Link – Slender wild oat. Annual grass noted on open, brushy outcrops approaching the overlook. Early Apr.

*Bromus carinatus* Hook. & Arn. Var. *carinatus* – California brome. Locally common annual grass in disturbed places along the trail. Late Apr. [*Bromus marginatus* Steud.]

*Bromus diandrus* Roth – Rippgut brome. Weedy annual at the trailhead and in other disturbed places along the trail. Early Apr.

*Bromus hordeaceus* L. – Soft chess. Occasional weedy annual at the trailhead and in other disturbed places. Early Apr. [*Bromus mollis* L.]

*Bromus madritensis* L. ssp. *rubens* (L.) Husn. – Red brome. Weedy annual on open, granitic outcrops on the approach to the overlook. Early Apr.

*Bromus orcuttianus* Vasey – Orcutt's brome. Common perennial on wooded to semi-open slopes. Late May.

*Bromus tectorum* L. – Cheatgrass. Common weedy annual on open slopes from Wagners Valley to the overlook. Early Apr.

*Cynosurus echinatus* L. – Hedgehog dogtail. Weedy annual noted at the trailhead and in other disturbed places along the trail. Late May.

*Dactylis glomerata* L. – Orchardgrass. Weedy perennial at the trailhead and in other disturbed places along the trail. Late May.

*Elymus stebbinsii* Gould – Stebbins' wheatgrass. Fairly common perennial forming small tufts on brushy, open slopes between Wagners Valley and the overlook. Late May. [*Agropyron parishii* Scribn. & Sm.; *A. laeve* (Scribn. & Sm.) Hitchc.]

*Elytrigia intermedia* (Host) Nevski ssp. *intermedia* – Intermediate wheatgrass. Rhizomatous perennial at the trailhead. Late May. [*Agropyron intermedium* (Host) P.Beauv.]

*Elytrigia intermedia* ssp. *barbulata* (Shur) Á.Löve – Hairy wheatgrass. Growing with the previous variety from which it differs in having stiff hairs on the lemmas. Late May. [*Agropyron trichophorum* (Link) K.Richt.]

*Festuca arundinacea* Schreb. – Tall fescue. Weedy perennial at the trailhead. Late Apr.

*Festuca californica* Vasey – California fescue. Uncommon tufted perennial on an openly wooded slope near the 0.5 mile post and again near Wagners Valley. Late Apr.

*Festuca occidentalis* Hook. – Western fescue. Common tufted perennial on wooded slopes. Late Apr.

*Festuca rubra* L. – Red fescue. Uncommon tufted perennial on wooded slopes. Late Apr.

*Gastriidium ventricosum* (Gouan) Schinz & Thell. – Nitgrass. Annual noted near the head of the falls. Mid Oct (plants dead).

*Melica californica* Scribn. – California melic. Occasional tufted perennial on granitic outcrops approaching the overlook. Early Apr.

*Melica harfordii* Bol. – Harford's melic. Common perennial on semi-open slopes. Late Apr.

*Muhlenbergia rigens* (Benth.) Hitchc. – Deergrass. Tufted perennial in a dry drainage near Wagners Valley.

*Panicum acuminatum* Sw. – Western panicgrass. Tufted perennial on the rocky edge of Fall River and along the drainage at Cooper's Point. Early Jul. [*Panicum occidentale* Scribn.; *P. pacificum* Hitchc. & Chase.]

*Poa annua* L. – Annual bluegrass. Weedy annual in the parking lot at the trailhead. Early Apr.

*Poa secunda* J.Presl ssp. *secunda* – One-sided bluegrass. Locally abundant tufted perennial in an opening in brush near the trailhead. Late Apr. [*P. scabrella* (Thurb.) Benth. ex Vasey]

*Poa sierrae* J.T.Howell – Sierra bluegrass. Common perennial on wooded slopes between the trailhead and Frey Creek. Early Apr.

*Vulpia microstachys* (Nutt.) Munro var. *microstachys* – Small fescue. Annual along the trail near the overlook. Late Apr. [*Festuca microstachys* Nutt.]

*Vulpia microstachys* var. *pauciflora* (Scribn. ex Beal) Lonard & Gould – Few-flowered fescue. Annual along the trail between the overlook and Fall River. Late Apr. [*Festuca pacifica* Piper; *F. reflexa* Buckl.]

*Vulpia myuros* (L.) C.C.Gmel. var. *myuros* – Rattail fescue. Weedy annual noted on the granitic outcrops on the approach to the overlook. Early Apr. [*Festuca myuros* L.]

*Vulpia myuros* var. *hirsuta* (Hack.) Asch. & Graebn. – Foxtail fescue. Common annual on disturbed trail edges. Late Apr.

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