

# Sierra Nevada Wildflowers

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Content provided by Hartman Multimedia. Text by Steven L. Hartman

Of interest to mountain travelers and flower enthusiasts, this iPhone and iPod Touch application includes over 690 detailed images of 488 species of wildflowers and flowering shrubs of the entire Sierra Nevada Mountains in California, including plants found in Sequoia, Kings Canyon and Yosemite National Parks and Calaveras Big Trees State Park. Flowers can be selected by plant family, habitat or by flower color. Features include an index of common and Latin names. A text is provided for each plant describing the growth form, size, habitat, bloom period, distribution within the Sierra Nevada, elevation range and page references to useful guides and floras. Application also provides links to external pages on the Jepson interchange and CalPhotos.

The user interface is designed to give you multiple ways to quickly find the information you need. You can browse thumbnails arranged by color and family; search based on blooming period, plant type, habitat, name, or keyword; look through the alphabetic index of scientific and common name; and save bookmarks for quickly returning to plants you've found. The app includes an introduction, built-in help, and a glossary.

There are over 2,000 species of ferns and flowering plants known to occur in the region generally referred to as the Sierra Nevada. Nearly 500 species of wildflowers (and some shrubs) are included in this app, which covers the entire Sierra Nevada mountain range, which encompasses Yosemite, Sequoia and Kings Canyon National Parks, Calaveras Big Trees State Park, and southern mountains such as the Greenhorn and Piute Mountains and the Kern Plateau. There are 62 families represented, including Asteraceae and Liliaceae (both with 51 species), Scrophulariaceae (42 species), and Fabaceae (26 species). [See below for complete list of families.]

Most of the photographs were taken by Larry Norris, Jim Shevock, and Karen Callahan with a few provided by Edge of Eden and others. Many species have both close-up images of the flower as well as full plant images. As new and/or upgraded images become available they will be offered to users which can be added to this information system.

The elevation ranges are based on *The Jepson Manual*, and in converting to feet, were rounded down or up to the nearest 50' respectively for lower and upper ranges. (For example, for the elevation 1500 m, when it is the "floor" of an elevation range, it was converted to 4900'; but when it is the "ceiling" of an elevation range, it was converted to 4950'.) Keep in mind that the elevation range described in *The Jepson Manual* is for the full geographic range of the species, not just in the Sierra Nevada.

The bloom period is based on *A Flora of Southern California*, *A California Flora and Supplement*, and personal communications from Jim Shevock. The brief plant descriptions and habitat information were compiled and condensed from *The Jepson Manual*, *A Flora of Southern California*, *Sierra Nevada Wildflowers* by Karen Wiese and *A California Flora and Supplement*.

The numbers after the references listed for each species refer to page number for text description (**bold**), page and key letter for illustration (in italics). When indicating that a species is illustrated, the following "rule" applies: if a taxon is a species (not subspecies), that taxon will be considered illustrated if the species or any subspecies is illustrated; if a taxon is a subspecies, it will be considered illustrated only if that subspecies is illustrated.

Plant families included in this app: Apiaceae, Apocynaceae, Araliaceae, Aristolochiaceae, Asclepiadaceae, Asteraceae, Boraginaceae, Brassicaceae, Cactaceae, Calycanthaceae, Campanulaceae, Caprifoliaceae, Caryophyllaceae, Convolvulaceae, Cornaceae, Crassulaceae, Crossosomataceae, Cyperaceae, Ericaceae, Euphorbiaceae, Fabaceae, Gentianaceae, Geraniaceae, Grossulariaceae, Hydrophyllaceae, Hypericaceae, Iridaceae, Lamiaceae, Lentibulariaceae, Liliaceae, Limnanthaceae, Linaceae, Loasaceae, Lythraceae, Malvaceae, Nyctaginaceae, Nymphaeaceae, Onagraceae, Orchidaceae, Orobanchaceae, Paeoniaceae, Papaveraceae, Philadelphaceae, Polemoniaceae, Polygalaceae, Polygonaceae, Portulacaceae, Primulaceae, Ranunculaceae, Rhamnaceae, Rosaceae, Rubiaceae, Rutaceae, Salicaceae, Santalaceae, Sarraceniaceae, Saxifragaceae, Scrophulariaceae, Solanaceae, Sterculiaceae, Styracaceae, Violaceae.