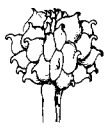









Table 1—Characteristics of common buttercups in the Pacific Northwest

Name	Life cycle	Distribution	Growth habit	Leaves	Fruit ^a	
Creeping buttercup (<i>R. repens</i> L.)	Perennial	West of the coast range and occasionally in wet areas elsewhere in the PNW	Often creeping, rooting at nodes	Long stalks, blades lobed or divided into 3 segments.	⅛ in. long, flattened, rounded, with short backward-turned beak. Individual fruits shown for other species are arranged on a small head as shown here for creeping buttercup.	
Crowfoot buttercup (<i>R. sceleratus</i> L.)	Annual	East of Cascades in semiaquatic, often brackish areas	Erect, up to 2 ft.	Long stalks, cut into 3-5 toothed lobes.	⅓ in., small, smooth, scarcely beaked.	
Bur buttercup (<i>R. testiculatus</i> Crantz)	Annual	East of Cascades, roadsides, cropland	Erect, up to 7 in.	All basal, somewhat woolly to several parted, divisions narrow, all withered by time fruit is mature.	Elongated woolly head, fruits woolly; stiff, slightly curved beak.	
Corn buttercup (<i>R. arvensis</i> L.)	Annual	Sparingly distributed in region	Erect, up to 1¼ ft.	Basal and lower leaves have long stalks. Blade cut into narrow toothed divisions. Sometimes first leaves are scarcely divided.	Fruits spiny with stiff beak.	
Western field buttercup (<i>R. occidentalis</i> Nutt.)	Perennial	Western OR, WA	Erect, 6 to 18 in.	From base of plant, long stalked, blade with 3 main lobes.	⅛ in., curved beak, smooth.	
Tall buttercup (<i>R. acris</i> L.)	Perennial	Pastures east and west of Cascades	Erect, up to 3 ft.	Lower leaves 3-5 deeply cut lobes, sharply toothed; upper leaves reduced to 3-4 narrow segments.	Flat with short broad beak.	
Birdfoot buttercup (<i>R. orthorhynchus</i> Hook.)	Perennial	Wetland west of Cascades. One variety is found east of Cascades.	Erect, up to 2 ft.	Mostly basal, long stalked. Blades cut into narrow divisions that are toothed. Stem leaves are similar but smaller.	Beak on fruit is long, narrow, and straight.	
Roughseed buttercup (<i>R. muricatus</i> L.)	Annual, sometimes perennial	West of Cascades. One variety is found east of Cascades.	Erect, up to 1 ft.	Leaves have 3-5 toothed lobes, but cuts aren't deep. Leaf stalks about same length as leaf. Leaves are often withered at flowering.	¼ inch with smooth border, stout awned beak and spiny surface.	

^aThe drawing of tall buttercup is reproduced, with permission, from C. Leo Hitchcock and Arthur Cronquist, *Vascular Plants of the Pacific Northwest, Part 2: Salicaceae to Saxifragaceae*, Publications in Biology vol. 17 (Seattle: University of Washington Press, 1990); © 1964 by University of Washington Press. The

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taste for buttercup and consume fatal quantities.

Sheep seem to tolerate more protoanemonin than cattle, and to derive substantial early spring feed from native buttercups growing on hillside pastures.

IDENTIFICATION

Buttercup flowers are mostly yellow, regular, and showy, commonly with 5 petals but occasionally with up to 10 (figure 3). Leaves are commonly 3- or 5-parted or deeply cut into long, narrow divisions. Individual fruits are

small, usually horned, hooked, or beaked, and arranged in a head.

Creeping buttercup is a perennial that spreads by seeds and by stems that root at lower nodes. Leaf blades are divided into 3 toothed lobes attached to long stalks, and they're

hairy. Flowers have 5 or up to 10 shiny yellow petals on long stalks.

A second variety (*R. repens* var. *pleniflorus* Fern.) has double flowers with 10 or more petals; it's less common in the Pacific Northwest. Table

1 offers help with buttercup identification.

PLANTS THAT RESEMBLE BUTTERCUPS. Some plants in the rose family can be confused with the buttercups. However, when flowers are present, use the sepals to distinguish the families (se-

pals are the outermost set of flower leaves). Members of the rose family have fused sepals; sepals of the buttercup family are free from each other.

Members of the *Potentilla* genus are most likely to be confused with buttercups because both have showy

yellow flowers and favor wet places. Silverweed or cinquefoil (*Potentilla anserina* L.) is mainly found east of the Cascades; Pacific silverweed (*P. pacifica* Howell) grows in coastal areas.

CONTROL

Creeping buttercup is seen mostly as a problem in pastures, so this publication discusses controls only in a pasture environment.

- Most livestock owners seem unaware that buttercup is an undesirable plant. It's commonly allowed to increase until livestock become ill or die.
- Most pasture management techniques such as competitive planting, close mowing, or controlled grazing aren't effective against creeping buttercup.
- Because it's a creeping perennial, it grows low enough to escape control by mowing. The continual movement and rooting of stems allows buttercup to gradually invade even the densest pasture.
- Buttercup is so irritating that it's avoided by grazing animals; thus, it's given an advantage over pasture species that are closely grazed.

MECHANICAL. Creeping buttercup is easy to kill by cultivation if the ground can

USE PESTICIDES SAFELY!

- **Wear** protective clothing and safety devices as recommended on the label. **Bathe or shower** after each use.
- **Read** the pesticide label—even if you've used the pesticide before. **Follow closely** the instructions on the label (and any other directions you have).
- **Be cautious** when you apply pesticides. **Know** your legal responsibility as a pesticide applicator. You may be liable for injury or damage resulting from pesticide use.

be worked up and tilled several times during a fallow period. New plants will appear from seed when the land is again used as a pasture.

Most of the pastures infested with creeping buttercup are in coastal areas where the land

rarely gets dry enough to make repeated tillage an option.

CHEMICAL. Creeping buttercup can be controlled in pastures containing grasses or clovers by using selective herbicides. Not all herbicide labels permit the same uses, even those with the same active ingredient. Be sure the label of the product you're considering permits use on the intended site.

No herbicide may be used on a site or crop for which it's not labeled. However, the absence of a particular weed from the label doesn't prevent use of the herbicide on that weed.

Herbicide registrations change frequently; therefore, this publication doesn't contain specific herbicide uses. Registered uses are summarized each year in the *Pacific Northwest Weed Control Handbook*.

In addition, detailed instructions for herbicide use are provided on herbicide container labels and in other literature provided by herbicide manufacturers.

Photos courtesy of Robert Hawkes.

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