PREEMERGENCE HERBICIDE OPTIONS FOR COMMON WEEDS OF CONTAINER AND LANDSCAPE ORNAMENTALS

Assistant Weed Scientist

Email: Jatinder.Aulakh@ct.gov
Hairy bittercress (*Cardamine Hirsuta*)
Family: Brassicaceae

- Good to excellent control: Biathlon, Broadstar, Casoron, Dimension, Freehand, Gallery, Gemini, Goal, HGH 75, Marengo, OH2, Regal OO, Ronstar, Rout, Snapshot TG, Specticle, Surflan, Sureguard, Tower.

- Fair control: Barricade, Pendulum, Princep, Regalkade, XL.

- Poor control: Dacthal, Pennant magnum, Trifluralin.
Common chickweed (*Stellaria media*)
Family: Caryophyllaceae

✓ Good to excellent control:
  Barricade, Biathlon, Broadstar,
  Casoron, Devrinol, Dimension,
  Freehand, Gallery, Gemini, HGH 75,
  Marengo, OH2, Pendulum, Princep,
  Regalkade, Regal Star II, Rout,
  Snapshot TG, Specticle, Sureguard,
  Surflan, Tower, Trifluralin, XL.

✓ Fair control: Goal, Pennant
  magnum, Regal OO.

✓ Poor control: Ronstar.
Mouse-ear chickweed (*Cerastium vulgatum*)
Family: Caryophyllaceae

- Good to excellent control:
  Barricade, Biathlon, Broadstar, Casoron, Dimension, Freehand, Gallery, Gemini, HGH 75, Marengo, OH2, Pendulum, Regalkade, Regalstar II, Rout, Snapshot TG, Specticle, Sureguard, Tower, Trifluralin, XL.
- Fair control: Regal OO.
- Poor control: Devrinol, Princep, Ronstar, Surflan.
Yellow woodsorrel (*Oxalis stricta*)
Family: Oxalidaceae

- Good to excellent control: Barricade, Biathlon, Broadstar, Casoron, Dimension, Freehand, Gallery, Goal, HGH 75, OH2, Pendulum, Regalkade, Regal OO, Regal star II, Ronstar, Rout, Snapshot TG, Sureguard, Surflan, Tower.

- Fair control: Gemini, Marengo, Specticle, Trifluralin, XL.

- Poor control: Devrinol, Pennant magnum, Princep.
Spotted spurge (*Chamaesyce maculata*)
Family: Euphorbaceae

- Good to excellent control: Barricade, Broadstar, Casoron, Dimension, Freehand, Gemini, Marengo, Specticle, Regalkade, Sureguard, Surflan, Tower.
- Fair control: Biathlon, Dacthal, Gallery, Goal, HGH 75, OH2, Pendulum, Princep, Regal OO, Regal Star II, Rout, Snapshot TG, XL.
- Poor control: Devrinol, Pennant magnum, Ronstar, Trifluralin.
Common purslane (*Portulacca oleracea*)
Family: Portulacaceae

- Good to excellent control: Barricade, Biathlon, Broadstar, Casoron, Devrinol, Freehand, Gallery, Gemini, Goal, HGH 75, Marengo, OH2, Pendulum, Princep, Regalkade, Ronstar, Rout, Snapshot TG, Specticle, Surflan, Sureguard, Tower, Trifluralin, XL.
- Fair control: Dimension, Pennant magnum.
Common groundsel (*Senecio vulgaris*)
Family: Asteraceae

- Good to excellent control: Biathlon, Broadstar, Casoron, Devrinol, Goal, HGH 75, Marengo, OH2, Princep, Regal OO, Rout, Specticle, Sureguard, Trifluralin.
- Fair control: Freehand, Gallery, Gemini, Snapshot TG, Surflan, Tower, XL.
- Poor control: Barricade, Dimension, Pendulum, Pennant magnum, Regalkade, Ronstar, Trifluralin.
Horseweed (Conyza canadensis)  
Family: Asteraceae

- Good to excellent control: Biathlon, Broadstar, Casoron, Freehand, Gallery, Gemini, HGH 75, Marengo, OH2, Princep, Regal OO, Rout, Snapshot TG, Specticle, Sureguard.
- Fair control: Barricade, Devrinol, Dimension, Goal, Pennant magnum, Regalkade, Surflan.
- Poor control: Pendulum, Ronstar.
Fleabane (*Erigeron bonariensis*)
Family: Asteraceae

✓ Good to excellent control: Biathlon, Casoron, Gallery, Gemini, Marengo, OH2, Snapshot TG, Specticle, Surflan.
Willowherb (Epilobium ciliata)  
Family: Onagraceae

- Good to excellent control: Broadstar, Freehand, Marengo, Regal OO, Ronstar, Specticle, Sureguard, Surflan.
- Fair control: Biathlon, Goal, HGH 75, OH2, Rout, Tower, XL.
- Poor control: Barricade, Gallery, Gemini, Pendulum, Pennant magnum, Regalkade, Snapshot TG, Trifluralin.
Mulberry weed (Fatoua villosa)  
Family: Moraceae

✓ Good to excellent control:  
  Biathlon, Broadstar, Freehand,  
  Gallery, Gemini, Goal, HGH 75,  
  OH2, Regal OO, Rout, Sureguard,  
  Surflan.

✓ Fair control: Barricade, Dimension,  
  Pendulum, Regalkade, Ronstar,  
  Snapshot TG, Tower.

✓ Poor control: Casoron, Devrinol,  
  Pennant magnum, Trifluralin.
Liverwort (*Merchantia polymorpha*) from spores
Family: Marchantiaceae

- Good to excellent control: Broadstar, Sureguard, Tower.
- Fair control: Freehand.
Pearlwort (*Sagina procumbens*)
Family: Caryophyllaceae

- Good to excellent control: Barricade, Biathlon, Freehand, Gallery, HGH 75, OH2, Pendulum, Pennant magnum, Regalkade, Regal OO, Rout.
- Fair control: Broadstar, Sureguard.
- Poor control: Casoron, Devrinol, Princep, Tower.
American burnweed (*Erechtites hieraciifolius*)
Family: Asteracea

- Good to excellent control: Biathlon, Broadstar, Freehand, Goal, HGH 75, Marengo, OH2, Rout, Specticle, Sureguard, Tower.
- Fair control: NA.
- Poor control: Barricade, Gallery, Pendulum, Regalkade, Snapshot TG, Trifluralin.
Annual sowthistle (*Sonchus oleraceus*)
Family: Asteraceae

- Good to excellent control: Biathlon, Broadstar, Casoron, Devrinol, Gallery, Gemini, Goal, HGH 75, Marengo, OH2, Pendulum, Ronstar, Rout, Specticle, Sureguard.
- Fair control: Freehand, Princep, Snapshot TG, Surflan, Tower.
- Poor control: Barricade, Regalkade.
Smartweed (*Polygnum sp.*)
Family: Polygonaceae

☑ Good to excellent control: Broadstar, Casoron, Devrinol, Goal, HGH 75, Princep, Ronstar, Snapshot TG, Sureguard.
☑ Fair control: Freehand, Gallery, Gemini, Pendulum, Pennant magnum, Surflan, Trifluralin.
Common ragweed (*Ambrosia artemisia*)
Family: Asteraceae

- Good to excellent control: Broadstar, Casoron, Princep, Ronstar, Snapshot TG, Sureguard.
- Fair control: Barricade, Devrinol, Freehand, Gallery, Goal, Marengo, Regalkade, Specticle, Surflan, Tower.
- Poor control: Dimension, Pendulum, Pennant magnum, Trifluralin.
Redroot pigweed (**Amaranthus retroflexus**)
Family: Amaranthaceae

- **Good to excellent control:**
  - Barricade, Biathlon, Broadstar, Casoron, Devrinol, Gemini, Goal, HGH 75, OH2, Pendulum, Princep, Regalkade, Regal-OO, Ronstar, Rout, Snapshot TG, Surflan, Sureguard, Tower, Trifluralin.
- **Fair control:** Freehand, Marengo, Pennant magnum, Specticle.
- **Poor control:** Dimension, Gallery.
Common lambsquarters (*Chenopodium album*)
Family: Chenopodiaceae

✓ Good to excellent control: Barricade, Broadstar, Casoron, Devrinol, Gemini, Goal, HGH 75, Marengo, Pendulum, Princep, Regalkade, Ronstar, Rout, Snapshot TG, Specticle, Surflan, Trifluralin.

✓ Fair control: Dimension, Freehand, Gallery, Pennant magnum, Sureguard, Tower.
Common primrose (Oenothera biennis)
Family: Onagraceae

✓ Good to excellent control: Biathlon, Casoron, Freehand, Goal, Marengo, OH2, Pendulum, Princep, Rout, Snapshot TG, Specticle, Surflan.

✓ Fair control: Gallery, Pennant magnum, Ronstar.

✓ Poor control: Barricade, Devrinol, Gemini.
Hairy galinsoga (*Galinsoga quadriradiata*)
Family: Asteraceae

✔ Good to excellent control: Broadstar, Devrinol, Freehand, Gallery, Gemini, Goal, HGH 75, Pennant magnum, Princep, Snapshot TG, Sureguard.

✔ Fair control: Barricade, Regalkade, Ronstar, Surflan, Tower.

✔ Poor control: Casoron, Pendulum, Trifluralin.
Cudweed (Gnaphalium sp.)
Family: Asteraceae

☑ Good to excellent control: Biathlon, Casoron, Devrinol, Freehand, Gallery, Gemini, HGH 75, Marengo, OH2, Pendulum, Princep, Regal OO, Snapshot TG, Specticle.
☑ Fair control: NA.
☑ Poor control: Pennant magnum, Surflan.
Datura (Datura stramonium)
Family: Solanaceae

✓ Good to excellent control: Broadstar, Gemini, Goal, HGH 75, Princep, Snapshot TG, Sureguard.
✓ Fair control: Gallery.
✓ Poor control: Biathlon, Casoron, OH2, Pendulum, Pennant magnum, Rout, Surflan, Trifluralin.
Large crabgrass (*Digitaria sanguinalis*)
Family: Poaceae

- Good to excellent control: Barricade, Biathlon, Casoron, Devrinol, Dimension, Freehand, Gemini, HGH 75, Marengo, OH2, Pendulum, Pennant magnum, Regal OO, Regal Star II, Ronstar, Regalkade, Rout, Snapshot TG, Specticle, Surflan, Tower, Trifluralin, XL.
- Fair control: Broadstar, Dacthal, Goal, Sureguard.
- Poor control: Gallery, Princep.
Annual bluegrass (\textit{Poa annua})
Family: Poaceae

✓ Good to excellent control:
  Barricade, Biathlon, Casoron, Devrinol, Dimension, Freehand, Gemini, HGH 75, Marengo, OH2, Pendulum, Pennant magnum, Princep, Regal OO, Regal Star II, Ronstar, Regalkade, Rout, Specticle, Snapshot TG, Surflan, Tower, Trifluralin, XL.

✓ Fair control: Broadstar, Goal, Sureguard.

✓ Poor control: Gallery.
Barnyardgrass (Echinochloa crus-galli)
Family: Poaceae

✓ Good to excellent control:
  Barricade, Biathlon, Devrinol,
  Dimension, Freehand, Gemini,
  HGH 75, Marengo, OH2,
  Pendulum, Pennant magnum,
  Regal OO, Ronstar, Regalkade,
  Rout, Snapshot TG, Specticle,
  Surflan, Tower, Trifluralin, XL.
✓ Fair control: Broadstar, Goal,
  Princep, Sureguard, .
✓ Poor control: Gallery.
Goosegrass (*Eleusince indica*)
Family: Poaceae

✓ Good to excellent control: Barricade, Biathlon, Devrinol, Dimension, Freehand, Gemini, HGH 75, Marengo, OH2, Pendulum, Pennant magnum, Princep, Regal OO, Regal Star ll, Ronstar, Regalkade, Rout, Snapshot TG, Specticle, Surflan, Tower, Trifluralin, XL.

✓ Fair control: Broadstar, Goal, Sureguard, .

✓ Poor control: Casoron, Dacthal, Gallery.
Foxtails (Setaria sp.)
Family: Poaceae

✓ Good to excellent control: Barricade, Biathlon, Casoron, Devrinol, Dimension, Freehand, Gemini, HGH 75, Marengo, OH2, Pendulum, Pennant magnum, Ronstar, Regalkade, Rout, Snapshot TG*, Specticle, Surflan, Tower, Trifluralin, XL.

✓ Fair control: Broadstar, Goal, Princep, Sureguard.

✓ Poor control: Gallery.

* Fair control of green and yellow foxtails.
Fall panicum (*Panicum dichotomiflorum*)
Family: Poaceae

- **Good to excellent control:**
  - Devrinol, Gemini, HGH 75,
  - Pendulum, Pennant magnum,
  - Princep, Ronstar, Rout,
  - Snapshot TG, Surflan, Tower.
- **Fair control:** Broadstar,
  - Freehand, Sureguard.
- **Poor control:** Gallery.
Sandbur (*Cenchrus sp.*)
Family: Poaceae

- **Good to excellent control:** Devrinol, Freehand, HGH 75, Marengo, Pendulum, Rout, Snapshot TG, Specticle, Tower, Trifluralin, XL.
- **Fair control:** Pennant magnum.
- **Poor control:** Gallery, Princep.
Yellow nutsedge (*Cyperus esculentus*)
Family: Cyperaceae

- **Good to excellent control:** Casoron.
- **Fair control:** Freehand, Pennant magnum, Tower.
- **Poor control:** Barricade, Biathlon, Broadstar, Dacthal, Devrinol, Dimension, Gallery, Gemini, Goal, HGH 75, Marengo, OH2, Pendulum, Princep, Regalkade, Regal OO, Ronstar, Rout, Snapshot, Specticle, Sureguard, Surflan, Trifluralin, XL.
Annual sedge *(Cyperus compressus)*
Family: Cyperaceae

- **Good to excellent control:** Freehand, Pennant magnum, Tower.
- **Fair control:** Biathlon, Marengo, OH2, Pendulum, Rout, Specticle.
- **Poor control:** Barricade, Broadstar, Gallery, Regalkade, Sureguard, Trifluralin.
Rice flatsedge (*Cyperus iria*)
Family: Cyperaceae

- Good to excellent control: Freehand, Pennant magnum, Tower.
- Fair control: Biathlon, Marengo, OH2, Pendulum, Rout, Specticle.
- Poor control: Barricade, Broadstar, Gallery, Regalkade, Sureguard, Trifluralin.