

**Chart 1. Selectivity of Annual Broadleaf Weeds to Herbicides
Registered in Pomegranates in California**

| | Preemergent herbicides | | | | Postemergent herbicides | | | | | |
|--------------------|--------------------------|---------------------------|---------------------------|---|-------------------------|------------------------|-------------------------------|-----------------------------|---------------------|--------------------------|
| | Isoxaben (Trellis®) - NB | Oryzalin (Surflan®, etc.) | Oxyfluorfen (Goal®, etc.) | Pendimethalin (Prowl H ₂ O®) | Carfentrazone (Shark®) | Diquat (Reglone®) - NB | Fluazifop (Fusilade DX®) - NB | Glyphosate (Roundup®, etc.) | Pyraflufen (Venue®) | Sehtoxydim (Poast®) - NB |
| Annual broadleaves | | | | | | | | | | |
| Cheeseweed | C | P | C | P | C | C | N | P | P | N |
| Chickweed | C | C | P | C | C | C | N | C | C | N |
| Clovers | P | N | P | N | P | P | N | P | P | N |
| Cocklebur | -- | N | P | N | C | C | N | C | C | N |
| Cudweed | C | N | N | N | P | C | N | C | C | N |
| Fiddleneck | C | C | C | C | C | C | N | C | P | N |
| Filaree | C | P | C | N | C | C | N | P | P | N |
| Goosefoot | C | C | C | C | C | C | N | C | C | N |
| Groundcherry | C | N | C | N | C | C | N | C | C | N |
| Groundsel, common | C | P | C | N | C | C | N | C | C | N |
| Hairy fleabane | C | N | P | N | P | P | N | P | P | N |
| Henbit | C | C | C | C | C | C | N | C | C | N |
| Horseweed | C | N | P | N | P | P | N | P | P | N |
| Knotweed, common | C | C | P | C | P | P | N | P | C | N |
| Lambsquarters | C | C | C | C | C | C | N | C | C | N |
| London rocket | C | P | C | P | C | C | N | C | C | N |
| Morningglory | C | P | C | N | C | P | N | C | C | N |
| Mullein, turkey | C | N | P | N | P | P | N | P | P | N |
| Mustard | C | N | C | P | C | C | N | C | C | N |
| Nettle | C | P | C | N | C | P | N | N | C | N |
| Nightshade | C | N | C | N | C | C | N | C | C | N |
| Pigweed | C | C | C | C | C | C | N | C | C | N |
| Prickly lettuce | C | N | C | N | C | C | N | C | C | N |
| Primrose, evening | C | P | P | P | P | C | N | N | C | N |
| Puncturevine | C | C | P | P | P | C | N | P | P | N |
| Purslane | C | C | C | C | N | C | N | N | C | N |
| Russian thistle | C | P | P | P | P | P | N | N | C | N |
| Shepherd's-purse | C | N | C | P | P | C | N | N | C | N |
| Sowthistle | C | P | C | N | N | C | N | C | C | N |
| Spotted spurge | C | P | P | P | P | C | N | C | C | N |
| Wild radish | C | P | C | N | P | C | N | C | C | N |
| Willowherb | P | P | C | -- | P | P | N | P | P | N |

NB = NB = non-bearing only

C = control, P = partial control, N = no control, -- = no information

This is not an endorsement for of any trade names listed, nor does the omission of specific trade names reflect the view of the author. Please refer to your local dealer or chemical representative for specific herbicide products available but not listed. Always read and follow the label directions carefully before using any pesticide. Ratings reflect appropriate timing and dose according to label recommendations. Kurt Hembree, UCCE, Fresno County. January 2012. <http://cefresno.ucdavis.edu>

**Chart 2. Selectivity of Annual Grass and Perennial Weeds to Herbicides
Registered in Pomegranates in California**

| | Preemergent herbicides | | | | Postemergent herbicides | | | | | |
|---------------------------------|--------------------------|---------------------------|---------------------------|---|-------------------------|------------------------|-------------------------------|-----------------------------|---------------------|-------------------------|
| | Isoxaben (Trellis®) - NB | Oryzalin (Surflan®, etc.) | Oxyfluorfen (Goal®, etc.) | Pendimethalin (Prowl H ₂ O®) | Carfentrazone (Shark®) | Diquat (Reglone®) - NB | Fluazifop (Fusilade DX®) - NB | Glyphosate (Roundup®, etc.) | Pyraflufen (Venue®) | Setoxydim (Poast®) - NB |
| Annual grasses | | | | | | | | | | |
| Annual bluegrass | N | C | C | P | N | P | N | C | N | N |
| Barnyardgrass | N | C | C | P | N | P | C | C | N | C |
| Bromegrass | N | C | C | N | N | P | P | C | N | P |
| Canarygrass | N | C | C | P | N | P | C | C | N | C |
| Crabgrass, large | N | C | C | N | N | C | C | C | N | C |
| Fescue | N | C | C | N | N | C | P | C | N | P |
| Foxtail | N | C | C | N | N | P | C | C | N | C |
| Junglerice | N | C | C | P | N | P | C | C | N | C |
| Lovegrass | N | C | C | P | N | P | C | C | N | C |
| Ryegrass, Italian | N | C | C | N | N | P | C | C | N | C |
| Sandbur | N | P | C | N | N | P | C | C | N | C |
| Sprangletop | N | C | C | N | N | N | C | C | N | C |
| Wild barley | N | C | C | P | N | P | C | C | N | C |
| Wild oats | N | C | P | P | N | P | C | C | N | C |
| Witchgrass | N | C | C | P | N | P | C | C | N | C |
| Perennials (seedling) | | | | | | | | | | |
| Bermudagrass | N | C | C | N | N | P | C | C | N | C |
| Dallisgrass | N | C | C | N | N | P | C | C | N | C |
| Johnsongrass | N | C | C | N | N | P | C | C | N | C |
| Field bindweed | C | P | P | N | C | P | N | C | P | N |
| Perennials (established) | | | | | | | | | | |
| Bermudagrass | N | N | N | N | N | N | P | P | N | P |
| Dallisgrass | N | N | N | N | N | N | P | P | N | P |
| Johnsongrass | N | N | N | N | N | N | P | P | N | P |
| Field bindweed | P | N | N | N | P | P | N | P | P | N |
| Nutsedge, purple | N | N | N | N | N | P | N | P | N | N |
| Nutsedge, yellow | N | N | N | N | N | P | N | P | N | N |

NB = NB = non-bearing only
C = control, P = partial control, N = no control, -- = no information

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**Chart 3. Herbicide Use Rates, Mode-of-Actions, PHI, and Other Label Recommendations
in Pomegranates in California**

| Preemergent Herbicide | Use Rate Per Acre | Mode-of-Action | PHI | Application Information |
|--|---|--------------------|----------|--|
| Isoxaben (Trellis®) | 0.66-1.33 lb/App 4 lb/Season | Group 21 (WSSA) | 365 days | Non-bearing only; ½” rain in 21 days; spray volume 20-40 gpa; can tank-mix. |
| Oryzalin (Surflan A.S.®, etc.) | 2-6 qt/App 12 qt/Season 2.4-7.1 lb/App 14 lb/Season | Group 3 (WSSA) | 0 days | Bearing/non-bearing; ½-1” rain within 21 days; spray volume 20-40 gpa; chemigation ok; can tank-mix. |
| Oxyfluorfen (Goal®, GoalTender®, etc.) | 4-6 pt/App (2 lb/gal) 6 pt/Season (2 lb/gal) 2.5-4 pt/App (4 lb/gal) 4 pt/Season (4 lb/gal) | Group 14 (WSSA) | 7 days | Bearing/non-bearing; ¼” rain in 21-28 days; spray volume 20-40 gpa (40 gpa for 4F); Don’t treat after February 15 or near bud swell; chemigation ok; can tank-mix; don’t disturb soil. |
| Pendimethalin (Prowl H ₂ O®) | 2-4.2 qt/App 4.2 qt/Season | Group 3 (WSSA) | 60 days | Bearing/non-bearing; before transplanting and mechanically mixed 2” deep; after transplanting activated with ½” rain in 21 days; spray volume 20-40 gpa; can tank-mix. |
| Postemergent Herbicide | | | | |
| Carfentrazone (Shark EW®) | 1-2 fl oz/App 7.9 fl oz/Season | Group 14 (WSSA) | 3 days | Bearing/non-bearing; weeds <4” tall; COC, NIS, or MSO adjuvant is used; spray volume at least 30 gpa; broadleaf weeds are small; sucker control; can tank-mix; spray pH at 5-8. |
| Diquat (Reglone®) | 1.5-2 pt/App 4 pt/Season | Group 22 (WSSA) | 365 days | Non-bearing only; broadleaves and grasses are small and may need to retreat grasses; repeat treatment on perennial grasses; NIS adjuvant used; spray volume at least 30 gpa. |
| Fluazifop (Fusilade DX®) | 16-24 fl oz/App 72 fl oz/Season | Group 1 (WSSA) | 365 days | Non-bearing only; grasses before they tiller; repeat treatment on perennial grasses; COC or NIS adjuvant used; spray volume at least 30 gpa. |
| Glyphosate (Roundup®, etc.) | 0.5-1.5 lb ai/App 10.5 lb ai/Season | Group 9 (WSSA) | 3 days | Bearing/non-bearing; weeds <6” tall; AMS and/or buffering agents to bring pH t 5-6; spray volume 5-40 gpa; can tank-mix. |
| Oxyfluorfen (Goal®, GoalTender®, etc.) | 2-6 pt/App (2 lb/gal) 6 pt/Season (2 lb/gal) 1-4 pt/Season (4 lb/gal) 4 pt/Season (4 lb/gal) | Group 14 (WSSA) | 7 days | Bearing/non-bearing; spray volume 40 gpa; Do not use after February 15 or near or during bud swell; can tank-mix; weeds have 4-6 true leaves. |
| Pyraflufen (Venue®) | 0.7-4 fl oz/App 6.8 fl oz/Season | Group 14 (WSSA) | 365 days | Non-bearing only; broadleaf weeds <4” tall; COC or NIS adjuvant is used; spray volume at least 30 gpa; can tank-mix; spray pH below 7. |
| Sethoxydim (Poast®) | 2.5 pt/App 7.5 pt/Season | Group 1 (WSSA) | 365 days | Non-bearing only; grasses before they tiller; repeat treatment on perennial grasses; COC or NIS adjuvant used; spray volume at least 30 gpa. |
| <p><i>This is not an endorsement for any of the trade names listed, nor does the omission of specific trade names reflect the view of the author. Refer to your local chemical dealer or manufacturer for specific herbicide products available. Numerous factors influence the performance of herbicides, so consult charts 1 and 2 along with the manufacturer’s labels for specific treatment recommendations.</i></p> <p><i>Kurt Hembree, UCCE, Fresno County. January 2012. http://cefresno.ucdavis.edu</i></p> | | | | |

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