

Herbicide Recommendations for Peach, Nectarine, Plum, and Cherry

| Weed Problem | Material & Rate | Notes and Comments |
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| <i>Preemergence</i> | | |
| Annual and perennial grasses and broad-leaves | Casoron 4G (granular) (dichlobenil 4% ai) at 100-150 lb | <u>Cherry Only</u> : For perennial weeds, apply from Nov. 15 to Feb. 15 as a soil surface application at 150 lb. There is no need to remove old weed growth before application. Can also be applied incorporated in late fall or early spring before May 1 and incorporated immediately. For annual weeds, apply in early spring after cultivation before weeds emerge. Rain or irrigation is needed for activation. A shallow incorporation is recommended. Apply 4 weeks after transplanting after soil has completely settled. |
| Annual grasses and broadleaves | Devrinol 50DF (napropamide 50% ai) at 8 lb in min. 20 gal of water | Apply from late fall prior to soil freeze-up to early spring prior to weed emergence. If no rainfall occurs within 24 hours after treatment, cultivate or irrigate 1" to activate. Apply alone to weed-free soil in tank mix with Roundup or Gramoxone. Do not allow spray to contact fruit or foliage. Max. 1 application per season. PHI = 35 days. |
| Annual broadleaves and suppression of grasses | Goal 2XL (oxyfluorfen 2 lb ai/gal) at 5-8 pt in min. 40 gal of water | <u>Dormant Application Only</u> : Effective both preemergence (5-8 pt) and postemergence (2-8 pt) as a directed spray on weeds <4". Do not apply from bud swell until harvest completion. Can be mixed with other preemergence herbicides or with Roundup or Gramoxone. Max. rate is 8 pt per yr. |
| Annual grasses and broadleaves | Karmex 80DF diuron (80% ai) at 2-5 lb in 25-40 gal of water | <u>Peach only</u> : Effective both preemergence and postemergence (min 70F with high humidity). Apply under trees established at least 3 years. Max. 1 application per year. PHI = 3 months. For IL and MO, PHI = 20 days. May be tank mixed with Sinbar (2 lb each) in orchards established at least 2 yr. Karmex/Sinbar can be applied in the spring before weeds emerge or after harvest in the fall. |
| Annual and perennial grasses and certain broadleaves | Kerb 50WP (pronamide 50% ai) at 3-6 lb on light soils to 4-8 lb on heavy soils in 40-50 gal of water | Apply as a directed spray in the fall after harvest and prior to solid freeze-up or early winter when temperatures are below 55 F. Rainfall or irrigation is required to activate. Max. 1 application per year and 8 lb per yr. Kerb has early postemergence activity also. <u>Restricted use pesticide.</u> |
| Annual grasses and broadleaves | Princep 4L (simazine 4 lb ai/gal) at 1.6-4 qt in min. 40 gal of water | Apply under trees established at least 1 year. Apply in spring before weeds emerge avoiding contact with fruit, foliage, or stems. <u>Peach only</u> : use only in AR, MO and states east of the Mississippi River. <u>Plum and sweet cherry only</u> : use only in MO and states east of the Mississippi River. |
| Annual grasses and broadleaves | Sinbar 80WP (terbacil 80% ai) at 2-4 lb in min. 20 gal of water | <u>Peach only</u> : Apply either in the spring before weeds emerge or during early stages of seedling growth or after harvest in the fall. Trees must be established at least 3 years. Do not contact foliage or fruit with spray or mist. PHI = 60 days. <u>Non-Bearing (young, newly-planted) Stone Fruits</u> : Apply at 0.5-1 lb. Make the first application after a significant rainfall or irrigation event that will allow the ground to settle around the base of the trees. Make 1-2 applications per season. Max. rate is 1 lb per year. Do not use on soils with <1% OM. |
| Annual grasses and broadleaves and suppression of yellow nutsedge | Solicam DF (noraflurazon 78.6% ai) at 3.75-5 lb in min. 20 gal of water | Apply a directed spray to settled and firm soil from fall to early spring before weeds emerge. Soil should be settled and firm. Rainfall or irrigation 0.5" is needed within 4 weeks. Do not contact fruit or foliage. Do not apply after bud break on sandy loam soils. Check label for maximum amount allowed per year depending on soil type. <u>Peach, Nectarine</u> : min. 6 months; <u>Plum</u> : min. 12 months, <u>Cherry</u> : min. 18 months after planting before first application. PHI = 60 days. |

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| Weed Problem | Material & Rate | Notes and Comments |
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| Preemergence | | |
| Annual grasses and certain broadleaves | Surflan 4AS (oryzalin 4 lb ai/gal) at 2-6 qt in 20-40 gal of water | Make a single band of broadcast application to the ground beneath trees before weeds emerge. Apply alone to weed-free soil or postemergence mixed with Roundup or Gramoxone. Min. 0.5" rainfall or irrigation is required for activation. Min. 2.5 months between applications. Max. rate is 12 qt per yr |
| Annual grasses and broadleaves | Treflan HFP 4EC (trifluralin 4 lb ai/gal) at 1.5-4 pt in 5-40 gal of water | <u>Peach, Plum Only</u> : Incorporate within 24 hours to reduce loss of activity. <u>New Plantings</u> : apply 1.25-2 pt and incorporate before transplanting. <u>Established Plantings</u> : apply 2-4 pt and incorporate prior to period of weed germination or after removal of weeds with tillage of herbicides. |
| Postemergence | | |
| Annual broadleaves | Aim 2 EC (carfentrazone 2 lb ai/gal) at 2 fl.oz. in 20 gal of water | Apply any time during the season. Add non-ionic surfactant (2 pt/100 gal) or crop oil concentrate (1 gal/100 gal). Mix with Roundup or Gramoxone for broader weed control. Max. 7.9 fl.oz. per year. Min. 14 days between applications. PHI = 3 days. <u>Sucker Management</u> : Apply when suckers are green. Do not allow spray to contact fruit, foliage, or green bark. |
| Annual and some perennial broadleaves | Amine4 (2,4-D) or Saber at 3 pt in 5-25 gal of water | Apply as directed spray when annuals are 1-2" high and when perennial weeds are in pre-bud to early bud stage. Do not allow spray to contact leaves, fruit, or limbs of tree. Use coarse spray and low pressure to avoid drift. Non-bearing trees must be established 1 year. On bearing trees, PHI = 40 days. Do not apply during bloom, or after or before irrigation. Do not apply on bare ground. Max. 2 applications per year and 75 days between applications. |
| Most annual and perennial grasses | Fusilade DX 2EC (fluzifop-P 2 lb ai/gal) at 6-16 fl.oz. in 25 gal of water | Apply as a directed spray to actively growing grasses before tilling. Always add non-ionic surfactant 0.25% v/v or crop oil 1% v/v. Rainfast in 1 hour. Avoid contact with foliage. Max. rate is 72 fl.oz./yr. Min. 5 days between applications. PHI = 14 days. |
| Annual broadleaves | Goal 2XL | See 'Preemergence' section above for details. |
| Most annual grasses and broadleaves weeds and top kill of perennial weeds | Gramoxone Inteon 2L (paraquat 2 lb ai/gal) at 2.5-4 pt in min. 10 gal of water | Apply as directed spray to actively growing weeds. Repeat applications are necessary to give sustained control. Apply as a coarse spray. Always add non-ionic surfactant 0.25% v/v or crop oil 1% v/v. Do not allow spray to contact leaves, fruit, or green stems. Max. 3 applications per year. PHI = 14 days (peach), 28 days (nectarine, plum, cherry). <u>Restricted Use Pesticide</u> . |
| Annual grasses and broadleaves | Karmex 80DF | See 'Preemergence' section above for details. |
| Annual and perennial grasses | Poast 1.5E (sethoxydim 1.5 lb ai/gal) at 1.5-2.5 pt in 25 gal of water | Apply as a directed spray to actively growing grasses before tilling. Always add crop oil 1.25% v/v. Do not apply more than 2.5 pt per application and 5 pt per season. Peach, plum, and nectarine are very tolerant to Poast and may be applied over the top of small non-bearing trees. PHI = 25 days. |
| Annual and perennial grasses and broadleaves | Recoil 3.65EC (glyphosate +2, 4-D) at 1-4 qt in 15-100 gal of water | Apply as a directed and shielded spray with flat-fan nozzles and low pressures (20-25 psi). Avoid contact with fruit, foliage, stems, or lower limbs. Apply when soil is moist and do not irrigate for 5-7 days after application. Make up to 2 applications through the dormant or growing season as needed. PHI = 40 days. |

Herbicide Recommendations for Peach, Nectarine, Plum, and Cherry (cont.)

| Weed Problem | Material & Rate | Notes and Comments |
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| Postemergence | | |
| Annuals and some perennial grasses and broadleaves | Roundup UltraMax II 5.5 EC (glyphosate 5.5 lb ai/gal) at 0.5-5 qt in 10-40 gal of water. Touchdown Total 4EC at 0.7-3.6 qt in 10-30 gal of water (many other formulations) | Rate depends on weed species and stage of growth. See label for details. Apply as preplant broadcast application or in fall for control of roots and rhizomes of perennial weeds or as a directed spray or wiper application (20-100% solution) to actively growing weeds in established plantings. Always add AMS 8.5-17 lb/100 gal in hard water or drought conditions. Do not allow spray to contact any part other than mature bark. Does not provide residual control; can be mixed with labeled preemergence herbicides. PHI = 14 days. |
| Annual and perennial grasses and broadleaves | Scythe 4.2E (pelargonic acid 4.2 lb ai/gal) at 3-10% spray mix | For contact non-selective control or burndown of a broad spectrum of actively growing weeds. Use low rate for annual weed control and high rates for maximum vegetative burndown. Use as a directed or shielded spray. Can be mixed with Roundup. |
| Annual and perennial broadleaves | Stinger 3EC (clopyralid 3 lb ai/gal) at 0.3-0.6 pt in min. 10 gal of water | Make 1-4 applications per crop per year, not to exceed a total of 2/3 pt. For control of Canada thistle, apply after majority of basal leaves have emerged but prior to bud stage and at least 30 days before harvest. Stinger may be tank mixed with other herbicides labeled on stone fruits. PHI = 30 days. |

Herbicide Recommendations for Non-Bearing Fruit Trees Only

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| Annual broadleaves and yellow nutsedge | Basagran 4L (bentazon 4 lb ai/gal) at 1.5-2 pt in min. 20 gal of water. | Apply as a directed postemergence. Always add crop oil 1% v/v. Avoid spraying stems, bark, or foliage. Max. 2 pt per application and 4 pt per season PHI = 1 yr. |
| Most broadleaves | Gallery 75DF (isoxaben 75% ai) at 0.66-1.33 lb in min. 10 gal of water | Apply in late summer to early fall; or preemergence in early spring prior to seed germination or immediately after cultivation. Do not apply to new transplants until soil has settled with no cracks present. Rainfall or irrigation 0.5" is needed within 21 days of application. Not effective on germinated weeds. Min. 60 days between applications. Max. rate is 4 lb per acre. |
| Annual grasses and broadleaves | MSMA 6 Plus at 2.66 pt in 50-100 gal of water | Not labeled for nectarines. Apply as a postemergence directed spray. Max. 3 applications per year. Do not allow spray to contact foliage, stems, or bark. PHI = 1 yr. |
| Annual grasses and certain broadleaves | Prowl 3.3 EC (pendimethalin 3.3 lb ai/gal) at 2.4 qt for short-term and 4.8 for long-term weed control in min. 20 gal of water | Do not apply if buds have started to swell. May be applied preplant incorporated, preplant surface, or preemergence. For best results, rain or irrigation is needed within 21 days of application. Not effective on germinated weeds. Do not allow spray to contact leaves, shoots, or buds. For new plantings, do not apply until soil has settled and no cracks are present. |
| Annual grasses and broadleaves | Reglone 2L (diquat 2 lb ai/gal) at 1.5-2 pt in min. 15 gal of water | Apply postemergence as a directed spray using a shield for contact burn of weeds. Complete coverage is essential for good control. Can be used during site preparations and up to 1 year of harvest. Do not allow contact with green stems, foliage, or fruits. Do not use for food or feed for 1 yr after application. |
| Most annual and perennial grasses | Select 2EC (clethodim 2 lb ai/gal) at 6-8 fl.oz. | Apply postemergence as a directed spray to actively growing grasses before tilling. Do not use crop oil. Always add non-ionic surfactant at 0.25% v/v. May be applied as a spot treatment at 0.65-1.3 fl.oz. per gal. Rainfast in 1 hr. Max. rate is 32 fl.oz. per yr. |
| Annual grasses and broadleaves | Showcase 1.25G (granular) (trifluralin + isoxaben + oxyfluorfen 1.25 lb ai/50 lb bag) at 100-200 lb | For use on stone fruits only, not labeled for apple or pear. Use as a dormant application for stone fruits only. Apply prior to weed germination or immediately after cultivation. |

Herbicide Recommendations for Non-Bearing Fruit Trees Only (cont.)

| Weed Problem | Material & Rate | Notes and Comments |
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| <i>Postemergence</i> | | |
| Annual grasses and certain broadleaves | Snapshot 2.5 TG (isoxaben + trifluralin 2.5% ai) at 100-200 lb | Apply preemergence on weed-free clean soil. For best results 0.5" rain or irrigation is needed within 3 days of application. Not effective on germinated weeds. Min. 60 days between applications. Max. rate is 600 lb per yr. |
| Annual grasses and broadleaves | XL 2G (granular) (benefin+oryzalin 1 lb ai/50 lb bag) at 200-300 lb | Apply only to established plantings. Apply preemergence to weed-free soil or immediately after cultivations. A 0.5" rainfall or irrigation is needed within 21 days of applications for herbicide activation. Min 4. months between applications. Max rate is 900 lb per yr. |