



**GENERAL DIRECTIONS  
PERENNIAL WEED CONTROL**

CASORON® G-4 is recommended for control of certain perennial weeds such as ARTEMISIA, CANADA THISTLE, CURLY DOCK, FALSE DANDELION (CATSEAR), FESCUE, LEAFY SPURGE, ORCHARDGRASS, QUACKGRASS, RUSSIAN KNAWEED, TIMOTHY, WILD ARTICHOKE, WILD ASTER, WILD CARROT AND YELLOW ROCKET IN ESTABLISHED WOODY ORNAMENTALS, NUTS AND FRUIT and for control in non-crop areas such as roadways, around buildings and fences, railroad and utility rights-of-way and installations.

**SOIL SURFACE TREATMENT** Apply CASORON G-4 as a soil surface treatment in late fall from November 15 to February 15. Old weed growth should not be removed before application. Do not make surface application to areas which have been cultivated during the fall or summer prior to application.

**INCORPORATED TREATMENT** Apply CASORON G-4 and incorporate immediately after application in late fall or very early spring before May 1.

**ANNUAL WEED CONTROL**

CASORON G-4 is recommended for control of annual grassy and broadleaved weeds and certain perennial weeds such as ANNUAL BLUEGRASS (POA ANNUA), BLUEGRASS, BULLTHISTLE, CRABGRASS, CARPETWEED, CHICKWEED, CITRUS MELON, COCKLE, CRABGRASS, CUDWEED, DANDELION, DOGFENNEL, EVENING PRIMROSE, FIDDLENECK, FLORIDA PURSLANE (PURSLEY), FOXTAIL, GARDEN SPURGE, GROUNDSEL, HENBIT, HORSETAIL, JERUSALEM OAK, GOOSEFOOT, KNOTWEED, LAMBS QUARTERS, MAYPOPS, MILKWEED VINE (MORRHENIA ODOHATA), MINERS LETTUCE, NATALGRASS, OLD WITCHGRASS, PEPPERGRASS, PINEAPPLEWEED, PLANTAIN, PURSLANE, RAGWEED, RED DEONETLE, REDROOT, PIGWEED, ROSARYPLE, RUSSIAN THISTLE, SHEPHERDSPURSE, SMARTWEED, SPANISH NEEDLES, SPURGE, TEAWEED, TEXAS PANICUM (HUHRAHGRASS), WILD BARLEY, WILD MUSTARD, WILD RADISH AND YELLOW WOODSORREL.

Apply CASORON G-4 either in early spring before seeds of annual weeds germinate or after cultivation has removed the growing weeds. Distribute granules uniformly over the soil surface. If treatment is followed by application of 1/2 to 1 inch of water by overhead irrigation the lower rates are recommended. Shallow incorporation immediately after application is recommended in southern areas. In other areas, shallow incorporation or sprinkler irrigation is suggested when applications are made during periods of high temperatures.

**FRUIT AND NUTS IN ORCHARDS AND NURSERIES**

CASORON G-4 may be used on the following crops, do not allow livestock to graze treated orchards.

**A** Almond, Apple, Blueberry, Cherry, Grape, Mango, Nectarine, Peach, Pear, Prune, Plum, Filbert, Pecan (Do not use on pecan seedlings within 6 months of planting) and English Walnut. May be used on bearing, non-bearing and nursery stock. Do not apply within 4 weeks after transplanting. Do not make application within one month of harvest of nuts or stone fruits. Apply 100 to 150 pounds per acre for annual weed control based on area actually treated. For control of perennial weeds apply 150 pounds per acre. Follow General Directions above.

**B** Blackberry and Raspberry. For control of annual weeds follow General Directions above except use only on established plantings and do not apply more than 100 pounds per acre. Do not apply during new shoot emergence.

**C** Citrus (bearing and non-bearing oranges, grapefruit, tangerines, lemons and limes) in groves. Apply 75 to 150 pounds per acre and incorporate immediately to a depth of 1 to 2 inches by use of power driven rotary hoe. Do not apply less than one year after transplanting, do not apply before water ring is removed.

On citrus nurseries CASORON G-4 may be used for control of annual weeds in the following citrus root stocks: Cleopatra mandarin, coum lemon, sour orange and sweet orange. Apply CASORON G-4 to weed free soil at 100 to 150 pounds per acre. Make first application in early spring after removal of banks and second in early summer, not less than 90 days after the first. Apply broadcast and irrigate lightly with overhead systems (1/2 to 1 inch).

Do not apply CASORON G-4 during 6 months following possible freeze damage on any citrus.

**WOODY ORNAMENTALS, SHELTERBELTS AND FOREST PLANTINGS ESTABLISHED AND IN NURSERIES**

For control of annual weeds CASORON G-4 may be used on the following plants. Apply 100 to 150 pounds of CASORON G-4 per acre, based on area actually treated. Do not apply until 4 weeks after transplanting. Follow General Directions above.

For control of perennial weeds listed, apply 150 to 200 pounds per acre. Do not apply more than 150 pounds per acre on AZALEA, BOXWOOD, EUONYMUS, FORSYTHIA, HEATHER, HOLLY, IVY, LILAC, LEUCOTHOE. Do not apply more than 150 pounds per acre on plantings less than one year old. Follow General Directions listed above.

Amur Corktree	Filbert	Mountain Ash
Arbor Vitae	Flowering Almond	Nandina
Ash	Flowering Quince	Oak
Azalea <sup>1</sup>	Forsythia	Osmanthus
Barberry	Gardenia	(Holy olive)
Beauty Bush	Goldenrain tree	Pachistima
Birch	Hackberry	Pecan
Buxus	Heather	Photinia
Bonwood	Holly (Ilex spp.) <sup>2</sup>	Pittosporum
Canoeia	Honeysuckle	Poplar
Caragana	Ivy (Hedera helix)	Privet
Cleyera japonica	Juniper	Pyracantha
Coloniaaster	Kinkunuck	Rhododendron
Cottonwood	Laurel	Rockrose
Crabapple	Leucothoe	Rose
Deutzia	Lilac	Russian Olive
Dogwood	Linden	Sprea
Eastern Red Cedar	Locust	Squaw carpet
Elm	Magnolia	Wegelia
Elwood Cypress	Maple	Willow
English Walnut	Mock Orange	Yew (Taxus)
Euonymus		

<sup>1</sup>Kurume, Mollis, Hardy hybrid types and hardy native species only.  
<sup>2</sup>Except 1 crenata, 1 rotunda, 1 vomitoria.

**PRECAUTIONS**

Do not use in seed beds, transplant or cutting beds or greenhouses. Do not apply until 6 months after rooting of cuttings in the field, or after planting rooted cuttings. Do not apply CASORON G-4 or fruit stock within 3 months prior to or following grafting or budding of root stocks or planting of new grafts. Do not apply more than the maximum recommended amount of CASORON G-4 per growing season. Do not use on St. Louis fine sand, Arzell fine sand, or other light sand soil. Do not graze livestock in treated areas. Store in a tightly closed container in a dry place.

**WEED CONTROL IN ESTABLISHED ALFALFA SEED AND LADINO SEED PRODUCING FIELDS**

(For Seed Alfalfa in Northwest Area, Seed Ladino Clover in Pacific Coast Area.)

For control of all species of dodder and certain grassy and broadleaved weeds such as lambsquarters, pigweed, green foxtail, buckhorn plantain, prickly ox-tongue, thistle, annual ryegrass, chickweed, shepherdspurse, knotweed, curly lettuce, sow thistle and germinating seeds of these weeds, apply CASORON G-4 at 35 to 50 lbs. per acre. Use the lower rate on moist soils and the higher rate on heavier soils. Distribute uniformly by use of either ground or aerial granule distribution equipment. Do not slip or overlap.

**ALFALFA** Apply CASORON G-4 in spring as a surface application just prior to dodder and weed seed germination. To insure continued control of dodder, make a second application four to six weeks after the first, using 50 pounds per acre in the standing alfalfa without incorporation. Just before irrigating CASORON G-4 can be used for dodder control under either sprinkler or furrow irrigation.

**LADINO CLOVER** Make application after harvest when adequate rainfall or supplemental irrigation is assured, when crop is berndormant to dormant.

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#### PRECAUTION

Use only in fields devoted exclusively to seed production. Do not apply CASORON G 4 if any part of the crop or subsequent cuttings are used for food or feed purposes. Do not graze or use forage from treated area. Do not use seed for food or feed purposes. Apply only to established stands. Do not apply more than 50 pounds of CASORON G 4 at any one time or more than 100 pounds per season.

#### WEED CONTROL IN CRANBERRIES

Control of perennial and annual broadleaved and grassy weeds (including rushes and sedges) in cranberries can be obtained by use of CASORON G-4. The following weeds are controlled: Sensitive Fern, Bracken Fern, Royal Fern, Hair Cap Moss, Common Horsetail, Water Horsetail (papes), Rush (Juncus spp.), Dodder, Bluejoint grass, Rattlesnake grass (Manna grass), Summer grass, Velvetgrass, Bent Grasses, Little Hairgrass, Crabgrass, Rice Cutgrass, Bunch grass, Muskral grass, Nutsedge (Nutgrass), Short Wiregrass, Wideleaf grass, Stargrass, Woodgrass, Cotton grass, Needle grass, Onongrass, Arrow-leaved Tear Thumb, Beggersticks, Knotweed, Loosestrife, Marsh St. Johnswort, Tideland clover, Ragweed, Sorrel, Wild Strawberry, Aster, Buckbean, Hawkweed, Western Liliopsis, Marsh Pea, Plantain, Smartweed (Marshpepper, Pennsylvania, Spotted, Swamp and Water).

Application should be made in early spring while perennial weeds are still dormant and annual weeds have not started to germinate or in late fall after crop has been harvested. Apply pre-bloom or post-harvest.

#### Spring Treatment

**AREAS OTHER THAN PACIFIC NORTHWEST**—Apply 100 pounds of CASORON G-4 per acre. Do not make spring application if treatment was made the previous fall. See specific directions for spring treatment in the Pacific Northwest.

**PACIFIC NORTHWEST**—Two equal applications may be made in early spring with an interval of 3 to 6 weeks between treatments. Total application should be 100 pounds per acre.

#### Fall Treatment

In all growing areas apply 100 to 150 pounds of CASORON G-4 per acre in the fall after crop has been harvested. Do not make fall application if treatment was made the previous spring. Use high rate only on very weedy bogs, or on bogs abandoned because of weeds.

#### PRECAUTIONS

Distribute CASORON G 4 uniformly. Avoid over-application which may result from over-lapping during treatment. Temporary reddening of cranberry plants may occur especially with late spring application or when applied on sandy bogs. Do not apply after cranberry plants start to bloom as yields may be reduced. Do not use on young beds or newly sanded beds or on bogs prior to or immediately after mowing for vines.

#### OTHER USES

**NUTSEdge CONTROL** To control nutsedge (nutgrass) on mineral soils in areas on which containers of nursery stock are to be grown or held—and also for control in non-crop areas—apply 250 to 500 pounds of CASORON G-4 per acre and incorporate immediately to a depth of 4 to 6 inches. Seasonal control of annual weeds will also be obtained. Containers of plants listed above may be placed on treated soil immediately. Do not transplant into treated soil.

**UNDER ASPHALT** For general weed control under asphalt (in areas such as roadways, parking lots, recreation areas) after final grade is achieved, apply 250 to 300 lbs. per acre (5 1/2 to 7 lbs. per 1,000 sq. ft.). Treated area should be covered with asphalt as soon as possible. For re-surfacing work, existing weeds should be sprayed with a contact herbicide prior to CASORON G-4 application.