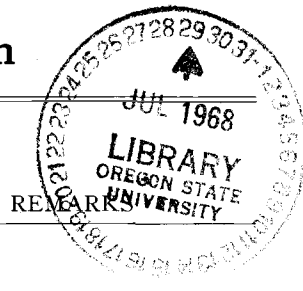


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1968 Weed Control Recommendations  
for Commercial Vegetable Crops in Oregon



| CROP   | CHEMICAL   | APPLICATION RATE<br>PER ACRE |  | TIME   |   |
|--|--|------------------------------|--|--|---|
|  |  | ACTUAL                       | FORMULA-<br>TION                                 |  |   |
| ARTICHOKES   | Simazine<br>Diuron<br>(Karmex)                   | 4 lbs.<br>3.2 lbs.           | 5 lbs.<br>4 lbs.                                 | Fall<br>Fall   |   |
| ASPARAGUS<br>Seedbed                                 | Dinitro amine<br>Stoddard<br>solvent             | 3 lbs.<br>50 gals.           | 1 gal.<br>50 gals.                               | Pre-emergence<br>Postemergence                                 | Apply before broadleaf weeds<br>have more than 4 true leaves  |
| Established<br>fields                                | Monuron<br>(Telvar)<br>or Simazine               | 1.6 to 3.2 lbs.              | 2 to 4 lbs.                                      | Fall or spring   | After ferns die down, before<br>spears emerge, or after cutting   |
|  | Dinitro amine<br>Sesone                          | 3 lbs.<br>1.8 to 3.6 lbs.    | 1 gal.<br>2 to 4 lbs.                            | Winter<br>Summer   | Before spears emerge<br>At end of cutting season after<br>cultivation   |
|  | 2,4-D (sodium)<br>Dalapon                        | 1.6 to 2 lbs.<br>8½ lbs.     | 2 to 2½ lbs.<br>10 lbs.                          | Spring<br>Spring   | For field bindweed control<br>Spot spray for grass control  |
|  | EPTC<br>(Eptam)                                  | 3 lbs.                       | 2 qts.   | Spring   | Before or after cutting   |
| BEANS, snap and<br>lima                              | Dinitro amine                                    | 3 to 6 lbs.<br>1½ to 4½ lbs. | 1 to 2 gals.<br>½ to 1½ gals.                    | Pre-emergence<br>Postemergence                                 | When most beans are in crook<br>stage; use low rate for high<br>temperature                                     |
| Snap beans only<br>(Incl. Romano)<br>Lima beans only | Trifluralin<br>(Treflan)                         | ½ to ¾ lbs.                  | 1 to 1½ pts.                                     | Preplant   | Work into soil immediately by<br>cross discing or rototilling   |
|  | DCPA<br>(Dacthal)                                | 9 lbs.                       | 12 lbs.  | Pre-emergence  |   |
|  | EPTC<br>(Eptam)                                  | 3 lbs.                       | ½ gal.   | Preplant   | Work into soil immediately by<br>cross discing or rototilling   |
|  | Amiben   | 4 lbs.                       | 2 gals.  | Pre-emergence  |   |
| BEETS  | Salt (sodium<br>chloride)<br>Stoddard<br>solvent | 200 lbs.<br>60 to 80 gals.   | 200 lbs. in 100<br>gals. water<br>60 to 80 gals. | Postemergence<br>Pre-emergence                                 | After beets have 2 or 3 leaves<br>Apply after weeds emerge but<br>before beets emerge                           |
|  | Dalapon  | 6 lbs.                       | 7 lbs.   | Preplant   | For grass control   |
|  | CDEC<br>(Vegadex)                                | 6 lbs.                       | 1½ gals.   | Pre-emergence  |   |
|  | Pyrazon<br>(Pyramin)                             | 4 lbs.                       | 5 lbs.   | Pre-or<br>Postemergence  |   |
|  | EPTC<br>(Eptam)                                  | 2 lbs.                       | ½ gal.   | Preplant   | Work into soil immediately by<br>cross discing or rototilling   |
|  | PEBC<br>(Tillam)                                 | 4 lbs.                       | ¾ gal.   | Preplant   | Work into soil immediately by<br>cross discing or rototilling   |
|  |  |                              |  |  |   |
| BROCCOLI   | CDEC<br>(Vegadex)                                | 4 lbs.                       | 1 gal.   | Immediately<br>after seeding                                   | When crop is grown by direct<br>seeding   |
| BRUSSELS<br>SPROUTS                                  |  | 6 lbs.                       | 1½ gals.   | After trans-<br>planting                                       | Direct the spray to base of<br>plants   |
| CABBAGE  | Trifluralin<br>(Treflan)                         | ½ to ¾ lbs.                  | 1 to 1½ pts.                                     | Before seeding or<br>before or after<br>transplanting          |   |
| CAULIFLOWER  | DCPA<br>(Dacthal)                                | 9 lbs.                       | 12 lbs.  | After seeding<br>or transplanting                              |   |
|  | Tok E-25   | 3 to 6 lbs.                  | 1½ to 3 gals.                                    | After seeding<br>or transplanting                              | Use 3-pound rate after emer-<br>gence or transplanting.   |
| CANTALOUPE   | NPA<br>(Alanap 3)                                | 4 lbs.                       | 2 gals.  | Immediately<br>after seeding                                   | Requires soil surface moisture  |
| CUCUMBERS  | DCPA<br>(Dacthal)                                | 9 lbs.                       | 12 lbs.  | 4 to 6 weeks after<br>seeding                                  |   |
| WATERMELONS  |  |                              |  |  |   |
| CARROTS  | Stoddard<br>solvent                              | 60 to 80 gals.               | 60 to 80 gals.                                   | Postemergence  | Apply when crop plants have<br>3 leaves and weeds have emerged  |
| CELERY   | Linuron<br>(Lorox)                               | 2 lbs.                       | 2½ lbs.  | Pre-emergence<br>or<br>Postemergence                           | For carrots or parsnips   |
| DILL   |  |                              |  |  | For carrots only  |
| PARSLEY  |  |                              |  |  |   |
| PARSNIPS   |  |                              |  |  |   |
| CORN, sweet  | Atrazine   | 1.6 lbs.<br>4 lbs.           | 2 lbs. of 80%<br>5 lbs. of 80%                   | Pre-emergence<br>to weeds and<br>within 3 weeks<br>of planting | Use shallow soil incorporation<br>or follow application with light<br>irrigation (1 inch) for best re-<br>sults |
|  | Dinitro amine                                    | 6 lbs.<br>1½ to 3 lbs.       | 2 gals.<br>½ to 1 gal.                           | Pre-emergence<br>Postemergence                                 | For control of quackgrass or<br>other perennials<br>May be delayed until just be-<br>fore corn emerges          |
|  | Dinitro amine<br>plus                            | 1½ lbs.                      | ½ gal.   | Pre-emergence<br>or early<br>postemergence                     | When corn is spike stage (1<br>to 2 inches tall); use low rates<br>for high temperatures                        |
|  | 2,4-DEP<br>(Falone)                              | 2 lbs.                       | ½ gal.   |  | Mixture available as Falodin  |
|  | Propachlor<br>(Ramrod)                           | 5 lbs.                       | 7½ lbs.  | Pre-emergence  |   |
|  | EPTC<br>(Eptam)                                  | 2 to 3 lbs.                  | ½ to ½ gal.                                      | Preplant   | Work into soil immediately by<br>cross discing or rototilling   |
|  |  |                              |  |  | Plant corn shallowly  |
|  |  |                              |  |  | For control of nutgrass and<br>barnyardgrass  |
|  | 2,4-D amine                                      | ½ lb.                        | 1 pint   | Postemergence  | After corn is up and until<br>lay-by time<br>Direct spray to base of plants<br>after corn is 1 ft. tall         |



This is one of a series of *Fact Sheets* reporting Cooperative Extension work in agriculture and home economics, Gene M. Lear, director. Printed and distributed in furtherance of Acts of Congress of May 8 and June 30, 1914. Oregon State University, Oregon counties, and U. S. Department of Agriculture cooperating.

| CROP   | CHEMICAL                          | APPLICATION RATE<br>PER ACRE |   | TIME   | REMARKS   |
|--|-----------------------------------|------------------------------|---|--|---|
|  |                                   | ACTUAL                       | FORMULA-<br>TION                            |  |   |
| GARLIC   | Potassium cyanate                 | 7½ to 15 lbs.                | 8 to 16 lbs. in 100 gals. of water          | When weeds are small                         | Use low rate on garlic with less than 3 leaves  |
|  | Dinitro selective                 | 1 lb.                        | 1 gal. in 75 gals. of water                 | Postemergence                                | Before garlic is 6 in. high   |
|  | DCPA (Dacthal)                    | 9 lbs.                       | 12 lbs.                                     | Pre-emergence                                |   |
| LEAF CROPS<br>Beet greens<br>Collards<br>Kale<br>Mustard<br>Rape<br>Spinach<br>Turnip greens | Ro-Neet CDEC (Vegadex)            | 4 lbs.<br>3 to 4 lbs.        | ¾ gal.<br>3 to 4 qts.                       | Preplant<br>Pre-emergence                    | For spinach only<br>Follow application immediately with light irrigation (1 inch)<br>For fall plantings<br>Lower rate satisfactory only when crop is seeded in cool wet weather of late fall  |
|  | CIPC                              | 1 lb.                        | 1 qt.                                       | Pre-emergence                                |   |
|  | DCPA (Dacthal)                    | 9 lbs.                       | 12 lbs.                                     | Pre-emergence                                |   |
|  |                                   |                              |   |  |   |
| LETTUCE  | CDEC (Vegadex)                    | 4 lbs.                       | 1 gal.                                      | Pre-emergence                                | Follow application immediately with light irrigation  |
|  | IPC                               | 6 lbs.                       | 1½ to 3 gals.                               | Preplant or Pre-emergence                    |   |
|  | Benefin (Balan)                   | ¾ to 1 lb.                   | 2 to 3 qts.                                 | Preplant                                     | Work into soil immediately by cross discing or rototilling  |
| ONIONS   | CIPC                              | 4 to 6 lbs.                  | 1 to 1½ gals.                               | Pre-emergence or until flag stage            | Mineral soils   |
|  | CDAA (Randox)                     | 6 lbs.                       | 1½ gals.                                    | Pre-emergence or Postemergence               | Organic soils (more than 20% organic matter) or mineral soils   |
|  | DCPA (Dacthal)                    | 6 to 9 lbs.                  | 8 to 12 lbs.                                | Pre-emergence                                |   |
|  | Potassium cyanate                 | 7½ to 15 lbs.                | 8 to 16 lbs.                                | When weeds are small                         | Use low rate on onions with less than 3 leaves  |
| PEAS   | MCPA                              | ½ to ¾ lb.                   | ½ to ¾ qt.                                  | Postemergence                                | Apply when peas are 6 to 8 inches and before bloom<br>Use 12 gals. water<br>Use before flower buds form<br><br>Before peas bloom; air temperature must be less than 85° F.<br>For wild oat control work into soil by cross discing<br>For wild oat control work into soil by cross discing<br>For wild oat control<br>Apply when wild oats have 2 to 3 leaves |
|  | MCPB                              | 1 lb.                        | 1 qt.                                       | Postemergence                                |   |
|  | Dinitro amine                     | 3 to 6 lbs.<br>¾ to 1½ lbs.  | 1 to 2 gals.<br>¼ to ½ gal.                 | Pre-emergence<br>Postemergence               |   |
|  | IPC                               | 5 lbs.                       | 6.8 lbs.                                    | Preplant                                     |   |
|  | DATC (Avadex)                     | 1½ lbs.                      | 1½ qts.                                     | Preplant                                     |   |
|  | Barban (Carbyne)                  | ½ lb.                        | ½ gal.                                      | Postemergence                                |   |
| PEPPERS  | Diphenamid                        | 3 to 5 lbs.                  | 3¾ to 6¼ lbs. of 80% or 6 to 10 lbs. of 50% | Pre-emergence or 1 month after transplanting | Use low rate on light soil  |
|  | Amiben                            | 4 lbs.                       | 2 gals.                                     | After transplanting                          | Only on transplanted crop   |
|  | Trifluralin (Treflan)             | ½ to ¾ lbs.                  | 1 to 1½ pts.                                | Before or after transplanting                |   |
|  | DCPA (Dacthal)                    | 9 lbs.                       | 12 lbs.                                     | After transplanting                          |   |
| SQUASH<br>Summer squash and <i>Cucurbita pepo</i> var.                                       | Amiben<br>Same as for cantaloupes | 4 lbs.                       | 2 gals.                                     | Pre-emergence                                |   |
| TOMATOES   | PEBC (Tillam)                     | 4 lbs.                       | ¾ gal.                                      | Preplant                                     | Work into soil immediately by cross discing or rototilling<br>Use low rate on light soil  |
|  | Diphenamid                        | 4 to 6 lbs.                  | 5 to 7½ lbs. of 80% or 8 to 12 lbs. of 50%  | Immediately after seeding or transplanting   |   |
|  | Amiben                            | 4 lbs.                       | 2 gals.                                     | After transplanting                          | Only on transplanted crop   |

NOTE: 1. The chemical rates suggested are for complete coverage applications. For band applications reduce the quantity of material used proportionate to the area actually sprayed.  
2. For spray applications use 20 or more gallons of water per acre.  
3. Pre-emergence applications of herbicides are more satisfactory if applied to moist soil and followed immediately by a light irrigation or rain.

The first line of defense against weeds is the use of good cultural practices. In fields with known weed infestations, where possible, select crops that respond to weed-control programs for the weed species present. Adequate seedbed preparation improves the effectiveness of chemical weed-control programs.

Use close row spacings, where it is not possible to cultivate between the rows, only if it is certain that an adequate chemical weed-control program is available.

Weeds are killed most easily when conditions favor germination of weed seeds and rapid plant growth. Satisfactory results can be expected if herbicides are applied as directed and under normal conditions. Unusual temperatures or rainfall at the time of, or soon after, application of herbicides may cause unsatisfactory results.

Soil characteristics, such as clay content and organic matter level, strongly influence the effect of some herbicides. Heavier soils usually require higher rates of application of pre-emergence herbicides to obtain weed control than do lighter, sandy soils.

**Remember:** All agricultural chemicals are dangerous if not handled properly. Store in locked compartments away from children and destroy empty containers. Follow manufacturer's safety recommendations as listed on the label.

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