

# BRANDEMAR

## Crop Specific Application Rates & Timings

Crop		Timing of Application	Rate/ Acre
FRUITS	<b>Avocados</b>	<ol style="list-style-type: none"> <li>1. Start of regrowth in spring</li> <li>2. 2 weeks pre-bloom</li> <li>3. 2 weeks after petal fall</li> <li>4. Before summer fruit drop</li> <li>5. Every 2 -4 weeks during summer months</li> <li>6. 2-4 weeks after harvest</li> </ol>	1 - 4 quarts
	<b>Caneberries</b> (Blackberry, Loganberry, Raspberry etc.)	<ol style="list-style-type: none"> <li>1. Start of growth in spring</li> <li>2. 2 weeks pre bloom</li> <li>3. Petal fall</li> <li>4. Every 2-4 weeks during summer months</li> <li>5. 2-4 weeks after harvest</li> </ol>	1 - 4 quarts
	<b>Cherries</b>	<ol style="list-style-type: none"> <li>1. White bud</li> <li>2. Petal fall to shuck fall</li> <li>3. Exposed young fruit</li> <li>4. Straw colour apply with gibberellin sprays (avoid sprays where early market is desired)</li> <li>5. Repeat in times of stress</li> <li>6. 2 - 4 weeks after harvest</li> </ol>	1 - 4 quarts
	<b>Citrus</b> (Oranges, Mandarins, Lemons, Limes and Grapefruit)	<ol style="list-style-type: none"> <li>1. At pre-bloom</li> <li>2. At petal fall where fruitlets are 0.5cm</li> <li>3. When fruit 2.0cm (Olive size)</li> <li>4. Every 2-4 weeks during summer months</li> <li>5. Apply with gibberellin sprays in mid &amp; late season varieties</li> <li>6. 2 -4 weeks after harvest</li> </ol>	1 - 4 quarts
	<b>Cranberries</b>	<ol style="list-style-type: none"> <li>1. 4 weeks pre bloom soil</li> <li>2. 2 weeks pre bloom</li> <li>3. Petal fall</li> <li>4. Every 2-4 weeks</li> <li>5. 2-4 weeks after harvest</li> </ol>	1 - 4 quarts
	<b>Grapes</b> (Wine)	<ol style="list-style-type: none"> <li>1. Prior to pruning</li> <li>2. At 10-15cm plant height</li> <li>3. At 2-4 weeks before bloom</li> <li>4. When fruit 2-3mm</li> <li>5. After 2-3 weeks</li> <li>6. 2-4 weeks after harvest</li> </ol>	1 - 4 quarts
	<b>Grapes</b> (Table, Raisin, Juice)	<ol style="list-style-type: none"> <li>1. 10cm shoot growth</li> <li>2. 20-30cm shoot growth</li> <li>3. 5 days pre bloom</li> <li>4. Sizing sprays</li> <li>5. Veraison</li> <li>6. Every 2-4 weeks during summer months</li> <li>7. 2-4 weeks after harvest</li> </ol>	1 - 4 quarts
	<b>Hydroponics</b> (Cucumbers, Lettuce, Peppers, Tomatoes and Strawberries)	<ol style="list-style-type: none"> <li>1. Apply continuously with each fertigation cycle in substrate culture system</li> <li>2. Every 7-14 days in closed systems</li> </ol>	0.25 to 0.50 ounces per 100 gallons of water
	<b>Pome Fruits</b> (Apples and Pears)	<ol style="list-style-type: none"> <li>1. At Green tip formation</li> <li>2. At pre-bloom</li> <li>3. At full bloom</li> <li>4. At first fruit appearance</li> <li>5. Can be repeated every 3 weeks until harvest</li> </ol>	1 - 4 quarts
	<b>Pomegranate</b>	<ol style="list-style-type: none"> <li>1. Start of growth</li> </ol>	1 - 4 quarts

		<ol style="list-style-type: none"> <li>2. 2 weeks pre bloom</li> <li>3. Petal fall</li> <li>4. Every 2-4 weeks</li> <li>5. 2-4 weeks after harvest</li> </ol>	
	<b>Stone Fruits</b> (Nectarines, Apricots, Peaches, Plums etc.)	<ol style="list-style-type: none"> <li>1. Pink/white bud</li> <li>2. Petal fall</li> <li>3. Jacket split</li> <li>4. Every 2-4 weeks during summer months</li> <li>5. 2-4 weeks after harvest</li> </ol>	1 - 4 quarts
	<b>Strawberries</b>	<ol style="list-style-type: none"> <li>1. Pre-bloom</li> <li>2. Repeat every 3 weeks until harvest</li> </ol>	1 - 2 pint
	<b>Pomegranate</b>	<ol style="list-style-type: none"> <li>1. Start of growth</li> <li>2. 2 weeks pre bloom</li> <li>3. Petal fall</li> <li>4. Every 2-4 weeks</li> <li>5. 2-4 weeks after harvest</li> </ol>	1 - 4 quarts
	<b>Pineapple</b>	<ol style="list-style-type: none"> <li>1. At planting</li> <li>2. Every 2-4 weeks during growth and fruit development stages</li> </ol>	1 - 4 quarts

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	Crop	Timing of Application	Rate/Acre
<b>VEGETABLE</b>	<b>Brassica Vegetables</b> (Broccoli, Cauliflower, Cabbage,)	1. 7 days after transplanting 2. Repeat every 2 weeks until harvest	1-4 quarts
	<b>Curcubit Vegetables</b> (Watermelon, Cucumber, Melons, Cantaloupe Pumpkins etc.)	1. Post-transplant 2. 10 days before flowering 3. Repeat 2 more times at 15 day intervals	1-4 quarts
	<b>Fruiting Vegetables</b> (Table Tomatoes, Processing Tomatoes, Eggplant and Peppers)	1. 21-day old plants 2. 2 weeks after planting 3. Repeat every 3 weeks until harvest	1-4 quarts
	<b>Leafy Vegetables</b> (Celery, Lettuce, Spinach etc.)	1. At 4- 6 leaf stage 2. Pre-bloom 3. At first pods	1-4 quarts
	<b>Legumes</b> (Beans, Lentils, Peas etc.)	1. At 4- 6 leaf stage 2. Pre-bloom 3. At first pods	1-24quarts
	<b>Potatoes</b>	1. 6 <sup>th</sup> leaf on main stem unfurled 2. 1 <sup>st</sup> Flower opened 3. 30 days after spray 2	1-4 quarts
	<b>Root Crops</b> Carrots, Turnips, Onions, Leeks, Sugar Beet)	1. Two weeks after emergence 2. At root enlargement 3. Repeat every 10 -15 days to harvest	1-4 quarts

	Crop	Timing of Application	Rate/Acre
<b>NUTS</b>	<b>Almonds</b>	1. Pink bud 2. Petal fall 3. Before summer heat stress 4. Every 2-4 weeks during summer 5. 2-4 weeks after harvest	1 - 4 quarts
	<b>Hazelnuts</b>	1. At 4 leaf stage 2. Second internode visible 3. First Flower bud opened 4. Every 2-4 weeks during summer 5. 2-4 weeks after harvest	1 - 4 quarts
	<b>Pistacchios</b>	1. End of tillering 2. Second node 3. Booting 4. Every 2-4 weeks during summer 5. 2-4 weeks after harvest	1 - 4 quarts
	<b>Tree Nuts</b> (Cashews, Macadamia, Pecans, Walnuts etc.)	1. At 4-6 leaf stage 2. Second node 3. End of flowering 4. Every 2-4 weeks during summer 5. 2-4 weeks after harvest	1 - 4 quarts

Crop		Timing of Application	Rate/Acre
Field Crops	Alfalfa	<ol style="list-style-type: none"> <li>1. At planting</li> <li>2. After each cutting</li> </ol>	1-4 quarts
	Canola	<ol style="list-style-type: none"> <li>1. At 4 leaf stage</li> <li>2. Second internode visible</li> <li>3. First Flower bud opened</li> </ol>	1-4 quarts
	Cereals (Barley and Wheat)	<ol style="list-style-type: none"> <li>1. End of tillering</li> <li>2. Second node</li> <li>3. Booting</li> </ol>	1-4 quarts
	Corn (Grain, Feed, Forage and Silage)	<ol style="list-style-type: none"> <li>1. At 4-6 leaf stage</li> <li>2. Second node</li> <li>3. End of flowering</li> </ol>	1-4 quarts
	Cotton	<ol style="list-style-type: none"> <li>1. At planting</li> <li>2. Every 2-3 weeks</li> </ol>	1-4 quarts
	Rice	<ol style="list-style-type: none"> <li>1. At 30-40 days after seeding</li> <li>2. Emergence of early panicle</li> <li>3. Apply 3-4 days before anticipated stress</li> </ol>	1-4 quarts

APPLICATION METHODS		Direction for Use	Rate
APPLICATION METHODS	FOLIAR	<p>Fill half the spray tank with water, agitate and gradually add recommended amount of <b>Brandemar</b> with remainder of water and spray solution. Use enough water for good spray coverage. Spray should be applied as a fine mist, with low fluid velocity until the foliage is wet. Do not foliar apply during times of heat or water stress. For best results apply during the cool part of the day or when temperatures are below 85 degrees Fahrenheit. Do not spray just before or after rainfall or sprinkler irrigation. Application rates should be adjusted according to plant size and leaf area.</p>	
	SOIL	<p>Application can be made by mixing with soil applied fertility, directed sprays to the soil, through the irrigation systems or other methods which effectively apply <b>Brandemar</b> to the soil. Dilute 1 part <b>Brandemar</b> in a minimum of 100 parts of finished solution and agitate. Continuous agitation of supply tank is recommended. <b>Brandemar</b> can be applied through all types of irrigation systems at the suggested rates. For micro sprinkler or drip irrigation, apply after the system is fully pressurised, inject finished solution for at least one hour and follow with clean water for at least two hours, Avoid heavy irrigations immediately following application.</p>	
	ROOTING/TRANSPLANT SOLUTION	<p>To encourage root growth of new transplants treat roots with a solution of <b>Brandemar</b> at the rate of 0.05 – 0.33% solution prior to transplanting.</p>	
	LATE SEASON & POST-HARVEST	<p><b>Brandemar</b> is an excellent way to stimulate root growth and prepare perennial crops for the next season's early growth. Apply to the soil or foliar using methods above.</p>	

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## GENERAL RECOMMENDATIONS

The following general principles apply to all applications of BRANDEMAR

### General Crop Application Rates & Timings

- **Woody Perennial Crops (tree, vines, Bushes etc.):** Apply 1-4 quarts of BRANDEMAR per acre starting at regrowth in the spring. Repeat every 7 -28 days. At transplanting a root dip solution (0.05 -0.33%) can be used. Post-harvest applications can be made every 1-4 weeks from harvest to dormancy. Applications can be made either foliar or to the soil. Apply 3-5 days ahead of anticipated stress event.
- **Other Fruit, Vegetable and Field Crops:** Apply 1-4 quarts of BRANDEMAR per acre starting at planting with repeat treatments every 7 -28 days. Applications can be made either foliar or to the soil. Apply 3-5 days *ahead of anticipated stress event*.

### Best Practice:-

- "Little and Often" is the general principle of use. Research and feedback from growers has shown that best results are achieved by frequent, low dose applications\*.
  - Minimum dilution 1:100, never apply neat.
  - Apply morning or evening, not in midday sun.
  - For best results, apply 3-5 days prior to or when the plant is under stress
- \* it might be more appropriate to time application along with other sprays as per standard farming practice in order to minimize the number of sprays (as long as they are tank compatible) needed.

### Compatibility:-

- Can be tank mixed with most other crop inputs.
- As a precaution with new mixes a jar test is recommended.
- Half fill your sprayer with water, then add the extract, then add any other materials and top up volume to required amount. For a homogenous mix, agitation whilst adding extract is advisable.

### Guideline Rates:-

- All rates and timings are approximate and should be adjusted to take into consideration local conditions regarding soil, climate and practices.
- BRANDEMAR is NOT a total feed and should be used as part of a good management program.
- Efficacy maybe achieved at lower rates. Rates suggested are optimal.

### Storage and Handling:-

- Store out of direct sunlight.
- Handle with care taking normal best practice health and safety precautions.
- Do not leave in cold storage area – may form crystals if stored at less than 40C.
- If crystals form, dissolve with warm water before using in sprayer.

