

Algamin[®] XTO

Crop Specific Application Rates & Timings

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

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

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VEGETABLE	Brassica Vegetables (Broccoli, Cauliflower, Cabbage,)	<ol style="list-style-type: none"> 7 days after transplanting Repeat every 2 weeks until harvest 	1-2 pints
	Curcubit Vegetables (Watermelon, Cucumber, Melons, Cantaloupe Pumpkins etc.)	<ol style="list-style-type: none"> Post-transplant 10 days before flowering Repeat 2 more times at 15 day intervals 	1-2 pints
	Fruiting Vegetables (Table Tomatoes, Processing Tomatoes, Eggplant and Peppers)	<ol style="list-style-type: none"> 21-day old plants 2 weeks after planting Repeat every 3 weeks until harvest 	1-2 pints
	Leafy Vegetables (Celery, Lettuce, Spinach etc.)	<ol style="list-style-type: none"> At 4- 6 leaf stage Pre-bloom At first pods 	1-2 pints
	Legumes (Beans, Lentils, Peas etc.)	<ol style="list-style-type: none"> At 4- 6 leaf stage Pre-bloom At first pods 	1-2 pints
	Potatoes	<ol style="list-style-type: none"> 6th leaf on main stem unfurled 1st Flower opened 30 days after spray 2 	1-2 pints
	Root Crops Carrots, Turnips, Onions, Leeks, Sugar Beet)	<ol style="list-style-type: none"> Two weeks after emergence At root enlargement Repeat every 10 -15 days to harvest 	1-2 pints

Crop		Timing of Application	Rate/Acre
NUTS	Almonds	<ol style="list-style-type: none"> Pink bud Petal fall Before summer heat stress Every 2-4 weeks during summer 2-4 weeks after harvest 	1 - 4 pints
	Hazelnuts	<ol style="list-style-type: none"> At 4 leaf stage Second internode visible First Flower bud opened Every 2-4 weeks during summer 2-4 weeks after harvest 	1 - 4 pints
	Pistacchios	<ol style="list-style-type: none"> End of tillering Second node Booting Every 2-4 weeks during summer 2-4 weeks after harvest 	1 - 4 pints
	Tree Nuts (Cashews, Macadamia, Pecans, Walnuts etc.)	<ol style="list-style-type: none"> At 4-6 leaf stage Second node End of flowering Every 2-4 weeks during summer 2-4 weeks after harvest 	1 - 4 pints

Crop		Timing of Application	Rate/Acre
Field Crops	Alfalfa	1. At planting 2. After each cutting	1-2 pints
	Canola	1. At 4 leaf stage 2. Second internode visible 3. First Flower bud opened	1-2 pints
	Cereals (Barley and Wheat)	1. End of tillering 2. Second node 3. Booting	1-2 pints
	Corn (Grain, Feed, Forage and Silage)	1. At 4-6 leaf stage 2. Second node 3. End of flowering	1-2 pints
	Cotton	1. At planting 2. Every 2-3 weeks	1-2 pints
	Rice	1. At 30-40 days after seeding 2. Emergence of early panicle 3. Apply 3-4 days before anticipated stress	1-2 pints

		Direction for Use	Rate
APPLICATION METHODS	FOLIAR	Fill half the spray tank with water, agitate and gradually add recommended amount of Algamin XTO 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.	
	SOIL	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 Algamin XTO to the soil. Dilute 1 part Algamin XTO in a minimum of 100 parts of finished solution and agitate. Continuous agitation of supply tank is recommended. Algamin XTO 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.	
	ROOTING/TRANSPLANT SOLUTION	To encourage root growth of new transplants treat roots with a solution of Algamin XTO at the rate of 0.05 – 0.33% solution prior to transplanting.	
	LATE SEASON & POST-HARVEST	Algamin XTO 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.	

Algamin XTO[®]

GENERAL RECOMMENDATIONS

The following general principles apply to all applications of ALGAMIN XTO

General Crop Application Rates & Timings

- **Woody Perennial Crops (tree, vines, Bushes etc.):** Apply 1-4 pints of ALGAMIN XTO 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 1-2 pints of ALGAMIN XTO 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.
- ALGAMIN XTO 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.

