

APPLICATION GUIDELINES

ACADIAN® for General Use: ACADIAN® is extracted exclusively from marine plants harvested from the cold, clean North Atlantic coast of Nova Scotia, Canada. Consistent use of ACADIAN® supplements a well-balanced crop nutrition program. Use ACADIAN® to increase desirable yield, improve overall plant nutritional health, improve root growth and development, improve plant vigor, and maximize crop potential during periods of stresses. To achieve the desired results, the levels of major and minor nutrients must be adequate to support the increase in production. The following rates and timings of application are recommended for maximum efficacy.

Compatibility: ACADIAN® is compatible with most insecticides, fungicides and fertilizers. Some pH adjustments may be required with acidic mixtures. Add surfactants after the product has completely dissolved in the tank solution. When mixing with calcium products, thoroughly mix ACADIAN® with the water in the tank prior to adding the calcium product. If interaction of chemicals is unknown, a "jar" compatibility test is recommended.

Storage and Handling: Store in cool dry place away from direct sunlight. Avoid spillage as product is very slippery and may create a hazard.

This product contains no preservatives. It has been manufactured and packaged under strict sanitary conditions to be stable during transportation and storage. Once opened, use product immediately to avoid risk of contamination. Use within the season purchased.

DIRECTIONS FOR USE

ACADIAN® fully dissolves in water and is suitable for use in liquid foliar, soil applied, and irrigation water applications. Crop recommendations are provided on the following pages.

Foliar Applications: Fill half the spray tank with water, begin agitating and gradually add recommended amount of ACADIAN® with remainder of water and spray solution. Use enough water for good spray coverage. The foliar spray should be applied as a fine mist, with low fluid velocity until the foliage is wet. Do not foliar apply during times of moisture or heat stress. For best results apply during the cool part of the day or when temperatures are below 85 degrees F. Do not spray just before or after rainfall or sprinkler irrigation. Use a surfactant for maximum dispersal and leaf adherence.

Soil applications: Soil applied treatments can be made by mixing with soil-applied fertility, directed sprays to the soil, side-dress treatments, applications through the irrigation systems or other methods which effectively apply ACADIAN® to the soil. Dilute 1 gallon of ACADIAN® in a minimum of 5 gallons of finished solution and agitate thoroughly. ACADIAN® can be applied through drip, microjet, sprinkle, overhead, furrow, flood and other types of irrigation. For micro sprinkler, solid set or drip irrigation, apply after the system is fully pressurized, 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 ACADIAN® at the rate of 10 to 25 fluid ounces per 20 gallons of water prior to transplanting.

Post Harvest Application: ACADIAN® is an excellent way to strengthen and prepare perennial crops for next season's growth. Apply to the soil or foliar using above methods.

ADDITIONAL APPLICATIONS SHOULD BE MADE IMMEDIATELY PRIOR TO OR FOLLOWING STRESS PERIODS

WARRANTY STATEMENT: The manufacturer warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions under normal conditions of use. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials or the manner of use or application, all of which are beyond the control of the manufacturer. In no case shall the manufacturer be liable for consequential, special or indirect damages resulting from the use or handling of this product. The manufacturer makes no warranties of merchantability or fitness for a particular purpose or any other express or implied warranty except as stated above.

GENERAL CROP APPLICATION RATES

Perennial Crops (Trees, vines, bushes): Apply 2 to 8 pints of ACADIAN® per acre starting at regrowth in the spring, with repeat treatments every 7 to 30 days, as required. At transplanting, a root treatment can be used. Post harvest applications can be made every 1 to 4 weeks from harvest to dormancy. Applications can be made either foliar or to the soil. Apply 3 to 5 days prior to an anticipated plant stress.

Other Fruit, Vegetable and Field Crops: Apply 2 to 4 pints of ACADIAN® per acre starting at planting, with repeat treatments every 7 to 30 days, as required. Applications can be made either foliar or to the soil. Apply 3 to 5 days prior to an anticipated plant stress.

SPECIFIC APPLICATION RATES: FRUIT CROPS

Crop	Application Rates and General Recommendations
Avocados	2 TO 8 PINTS PER ACRE PER APPLICATION <i>1st application:</i> at start of regrowth in the spring <i>2nd application:</i> 2 weeks pre-bloom <i>3rd application:</i> 2 weeks after petal fall <i>4th application:</i> before summer fruit drop <i>Repeat:</i> every 2-4 weeks during summer months <i>Post harvest application:</i> 2-4 weeks after harvest
Bushberries (Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, etc.)	2 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> 4 weeks pre-bloom (soil) <i>2nd application:</i> 2 weeks pre-bloom <i>3rd application:</i> petal fall <i>Repeat:</i> every 2-4 weeks during summer months <i>Post harvest application:</i> 2-4 weeks after harvest
Caneberries (Blackberry, Caneberry, Raspberry, etc.)	2 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> at start of growth in the spring <i>2nd application:</i> 2 weeks pre-bloom <i>3rd application:</i> petal fall <i>Repeat:</i> every 2-4 weeks during summer months <i>Post harvest application:</i> 2-4 weeks after harvest
Citrus (Grapefruit, Lemons, Limes, Mandarins, Oranges, etc.)	2 TO 8 PINTS PER ACRE PER APPLICATION <i>1st application:</i> at start of growth in the spring (feather growth) <i>2nd application:</i> 2 weeks pre-bloom <i>3rd application:</i> petal fall <i>Repeat:</i> every 2-4 weeks during summer <i>Fall:</i> Apply with gibb sprays on mid and late season varieties <i>Post harvest application:</i> 2-4 weeks after harvest
Cranberries	2 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> 4 weeks pre-bloom (soil) <i>2nd application:</i> 2 weeks pre-bloom <i>3rd application:</i> petal fall <i>Repeat:</i> every 2-4 weeks <i>Post harvest application:</i> 2-4 weeks after harvest
Grapes (Wine)	2 TO 8 PINTS PER ACRE PER APPLICATION <i>1st application:</i> 1-4 inch shoot growth (foliar AND soil) <i>2nd application:</i> 10-12 inch shoot growth (foliar AND soil) <i>3rd application:</i> 5 days pre-bloom (foliar) Avoid foliar pre-bloom application in varieties that are prone to under shatter. Use high rate in pre-bloom sprays on varieties that tend to over shatter. <i>4th application:</i> BB sized berries (2-3 mm) (foliar) <i>5th application:</i> veraison (foliar AND soil) <i>Repeat:</i> every 2-4 weeks during summer months <i>Post harvest application:</i> 2-4 weeks after harvest
Grapes (Table, Raisin and Juice)	2 TO 8 PINTS PER ACRE PER APPLICATION <i>1st application:</i> 1-4 inch shoot growth (foliar AND soil) <i>2nd application:</i> 10-12 inch shoot growth (foliar AND soil) <i>3rd application:</i> 5 days pre-bloom (foliar) Avoid foliar pre-bloom application in varieties that are prone to under shatter. Use high rate in pre-bloom sprays on varieties that tend to over shatter <i>4th-6th applications:</i> sizing sprays (foliar) <i>7th application:</i> veraison (foliar AND soil) <i>Repeat:</i> every 2-4 weeks during summer months <i>Post harvest application:</i> 2-4 weeks after harvest
Kiwi	2 TO 8 PINTS PER ACRE PER APPLICATION <i>1st application:</i> at start of growth in the spring <i>2nd application:</i> 2 weeks pre-bloom <i>3rd application:</i> petal fall <i>Repeat:</i> every 2-4 weeks during summer months <i>Post harvest application:</i> 2-4 weeks after harvest
Olives	2 TO 8 PINTS PER ACRE PER APPLICATION <i>1st application:</i> late winter (foliar) <i>2nd application:</i> 2 weeks pre-bloom <i>Repeat:</i> every 2-4 weeks through to harvest <i>Post harvest application:</i> 2-4 weeks after harvest

FRUIT CROPS CONTINUED

Crop	Application Rates and General Recommendations
Figs	2 TO 8 PINTS PER ACRE PER APPLICATION <i>1st application:</i> at start of growth in the spring <i>Repeat:</i> every 2-4 weeks <i>Post harvest application:</i> 2-4 weeks after harvest
Pome Fruits (Apples, Pears and Quince)	2 TO 8 PINTS PER ACRE PER APPLICATION <i>1st application:</i> pre-pink <i>2nd application:</i> pink bud <i>3rd application:</i> 7-10 days post petal fall <i>4th application:</i> 1/2-3/4" fruit <i>Repeat:</i> every 2-4 weeks during summer months <i>Post harvest application:</i> 2-4 weeks after harvest
Stone Fruits (Peaches, Nectarines, Apricots, Plums, Prunes, etc.)	2 TO 8 PINTS PER ACRE PER APPLICATION <i>1st application:</i> pink or white bud <i>2nd application:</i> petal fall <i>3rd application:</i> jacket split <i>Repeat:</i> every 2-4 weeks during summer months <i>Post harvest application:</i> 2-4 weeks after harvest
Cherries	2 TO 8 PINTS PER ACRE PER APPLICATION <i>1st application:</i> pink or white bud <i>2nd application:</i> petal fall to shuck fall <i>3rd application:</i> exposed young fruit <i>4th application:</i> straw color Apply with gibberellin sprays. Avoid sprays after straw-colored fruit on non-gibberellin blocks where early market is desired. <i>Repeat</i> during times of stress <i>Post harvest application:</i> 2-4 weeks after harvest
Pomegranate	2 TO 8 PINTS PER ACRE PER APPLICATION <i>1st application:</i> at start of growth in the spring <i>2nd application:</i> 2 weeks pre-bloom <i>3rd application:</i> petal fall <i>Repeat:</i> every 2-4 weeks <i>Post harvest application:</i> 2-4 weeks after harvest
Strawberries	4 PINTS PER ACRE PER APPLICATION <i>Pre-plant:</i> dip roots in a solution of 10 to 25 fluid ounces of ACADIAN® per 20 gallons of water prior to transplanting <i>Repeat:</i> soil applications every 14 days until harvest is complete

SPECIFIC APPLICATION RATES: VEGETABLE CROPS

Crop	Application Rates and General Recommendations
Asparagus	3 TO 4 PINTS PER ACRE PER APPLICATION <i>Pre-plant:</i> dip roots in a solution of 10 to 25 fluid ounces of ACADIAN® per 20 gallons of water prior to transplanting <i>1st application:</i> for newly established plants, make a soil or foliar application at emergence <i>Repeat:</i> soil or foliar applications every 14-21 days until harvest is complete
Brassica Vegetables (Broccoli, Cabbage, Kale, etc.)	3 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> soil or transplant treatment at planting <i>Repeat:</i> soil or foliar applications every 14-21 days until harvest is complete
Bulb Vegetables (Garlic, Leeks, Onions, and Shallots)	3 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> soil applied treatment at planting <i>Repeat:</i> soil or foliar applications every 14-21 days until harvest is complete
Corn (Fresh, Sweet, and Pop)	2 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> soil treatment at planting <i>2nd application:</i> soil or foliar at the 12-24 inch stage
Cucurbit Vegetables (Cucumbers, Melons, Squash, etc.)	3 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> soil or transplant treatment at planting <i>Repeat:</i> soil or foliar applications every 14-21 days until harvest is complete
Fruiting Vegetables (Eggplant, Tomatoes, Peppers, etc.)	3 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> soil or transplant treatment at planting <i>Repeat:</i> soil or foliar applications every 14-21 days until harvest is complete. Use adequate water for very good coverage. Minimum 40 GPA for mature plants is recommended.

VEGETABLE CROPS CONTINUED

Crop	Application Rates and General Recommendations
Leafy Vegetables (Celery, Lettuce, Spinach, etc.)	3 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> foliar application at the 2-4 leaf stage. <i>Repeat:</i> foliar applications every 14-21 days until harvest is complete
Legume Vegetables - fresh, dry and processing (Beans, Lentils, etc.)	3 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> soil applied treatment at planting <i>Repeat:</i> soil or foliar applications every 14-21 days until harvest
Potatoes	3 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> soil applied treatment at planting <i>Repeat:</i> soil or foliar applications every 21-30 days until harvest
Peanuts	3 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> soil applied treatment at planting <i>Repeat:</i> soil or foliar applications every 14-21 days until harvest
Root and Tuber Vegetables (Beets, Carrots, Sweet Potatoes, etc.)	3 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> soil applied treatment at planting <i>Repeat:</i> soil or foliar applications every 14-21 days until harvest

SPECIFIC APPLICATION RATES: FIELD CROPS

Crop	Application Rates and General Recommendations
Alfalfa	2 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> soil or foliar application at planting or early season growth <i>Repeat:</i> soil or foliar applications after each cutting or every 3-4 weeks
Corn (grain, feed, forage and silage)	2 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> soil treatment at planting <i>2nd application:</i> soil or foliar at the 12-24 inch stage
Cotton	2 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> soil applied treatment at planting <i>Repeat:</i> soil or foliar applications every 7-21 days
Hops	2 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> at start of training in the spring <i>Repeat:</i> every 2-4 weeks
Rice	2 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> 30-40 days after seeding <i>2nd application:</i> at early panicle emergence
Wheat	2 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> soil applied treatment at planting <i>Repeat:</i> soil or foliar treatments at the 6 and 12-18 inch growth stage

For your convenience, ACADIAN® product information is available on Agrian database (<http://agrian.com/home/>) as well as in Crop Data Management Systems database (<http://www.cdms.net/>).

SPECIFIC APPLICATION RATES: NUTS

Crop	Application Rates and General Recommendations
Almonds	2 TO 8 PINTS PER ACRE PER APPLICATION <i>1st application:</i> pink bud <i>2nd application:</i> petal fall <i>3rd application:</i> before summer heat stress (late May - early June) <i>Repeat:</i> every 2-4 weeks during summer months <i>Post harvest application:</i> 2-4 weeks after harvest
Hazelnuts	2 TO 8 PINTS PER ACRE PER APPLICATION <i>1st application:</i> at ovule growth initiation <i>2nd application:</i> first leaf expansion <i>Repeat:</i> every 2-4 weeks until harvest <i>Post harvest application:</i> 2-4 weeks after harvest
Pistachios	2 TO 8 PINTS PER ACRE PER APPLICATION <i>1st application:</i> at early bud break <i>2nd application:</i> at bloom <i>3rd application:</i> fully leafed out <i>Repeat:</i> every 2-4 weeks during summer months <i>Post harvest application:</i> 2-4 weeks after harvest
Tree Nuts (Pecans, Walnuts, Chestnuts, etc.)	2 TO 8 PINTS PER ACRE PER APPLICATION <i>1st application:</i> 1% bloom <i>2nd application:</i> 30% bloom <i>3rd application:</i> 2 weeks after previous application <i>Repeat:</i> every 2-4 weeks during summer months <i>Post harvest application:</i> 2-4 weeks after harvest

SPECIFIC APPLICATION RATES: OTHER CROPS

Crop	Application Rates and General Recommendations
Herbs and Spices	2 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> soil or transplant treatment at planting <i>Repeat:</i> every 14-21 days until harvest is complete
Vegetable Seed Crops (all varieties)	2 TO 4 PINTS PER ACRE PER APPLICATION <i>1st application:</i> at planting (soil) <i>Repeat:</i> every 14-21 days. Apply as foliar spray pre-bloom and 7-10 days before beginning "dry down" prior to harvest.

SPECIFIC APPLICATION RATES: HYDROPONIC CROPS

Dilute 2 to 4 fluid ounces of ACADIAN® in 100 gallons of water. Add recommended solution to the fertigation system. Maintain desired ratio when new water is added. Continue to monitor other fertilizer salts in hydroponic solution to ensure total hydroponic solution salinity (Electrical Conductivity, EC) is suitable for each species.

It is easy to have access to Acadian's years of scientific research - visit www.acadianseaplants.com and follow the link to request a username and password to the Acadian Information Portal.



ORGANIC
LIQUID SEAWEED CONCENTRATE
0.1 | 0.0 | 5.0

GUARANTEED ANALYSIS

TOTAL NITROGEN (N) 0.1%

0.1% WATER SOLUBLE NITROGEN

SOLUBLE POTASH (K₂O) 5.0%

DERIVED FROM *ASCOPHYLLUM NODOSUM*

Compliant with 7 CFR, Part 205 of NOP requirements.



OMRI
Listed

NET CONTENT:
2.5 U.S. Gal
9.4 Liters
NET WEIGHT:
24.4 lb
11.1 Kg

PRODUCT OF CANADA

Manufactured by:

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