

AgroVantage[®] System Foliar Feeding Products Recommendations and Application Rates*

Crop/Product	Application Rate*
Alfalfa:	
Foliar Fertilizers: Feast [®] Yield Master™ 9-18-9 or 3-18-18	Spring: apply 3 to 5 gallons per acre to live ground cover following dormancy. After each cutting: apply 2 to 5 gallons per acre to good ground cover within 5-14 days, but before there is 3" to 4" of regrowth. Follow soil and plant tissue analysis to determine a need for Feast [®] Micro Master™ micro and secondary nutrients.
Feast [®] Side-Kick™ 0-0-25-17S	Spring: apply 2 to 6 quarts per acre to live ground cover following dormancy. After each cutting: apply 2 to 6 quarts per acre to good ground cover within 5 to 14 days but before there is 3" to 4" of regrowth.
Feast [®] Yield Master™ 3-18-18	In the fall: apply 2 to 5 gallons per acre before dormancy (prior to a killing frost).
Feast-XL [®] Profit Master™ 26-0-0-0.5B	7 to 10 days before harvest: apply 3 to 6 gallons per acre.
Foliar-Applied Plant Growth Regulator: Foliar X-CYTO [®] Plant Growth Regulator	Broadcast 10 to 20 oz./ acre as new growth is initiated (4 th to 6 th leaf stage), or after each cutting with insecticide to stimulate new growth. May be applied with Feast [®] foliar fertilizer. If water is used as carrier, adjust pH to between 5.0 and 6.5, using Kombind [®] .
Citrus:	
Foliar Fertilizers: Feast [®] Yield Master™ 9-18-9	Apply 3 gallons per acre at the following growth stages: <ul style="list-style-type: none"> • Bud • Post petal • ½ size fruit
Feast-XL [®] Profit Master™ 26-0-0-0.5B	Apply 1 to 5 gallons per acre at early fruit development. Repeat application as necessary.
Foliar-Applied Plant Growth Regulator: Foliar X-CYTO [®] Plant Growth Regulator	Three applications: broadcast 30 ounces per acre 30 days prior to bloom, at petal drop, and prior to fruit drop. Adjust pH of water to between 5.0 and 6.5, using Kombind [®] .

NOTE FOR ALL CROPS: Foliar feeding is designed as a supplement in a complete fertility program and will ordinarily NOT, by itself, replace or meet all of the nutritional needs of a plant.

Conklin recommends a complete AgroVantage[®] System soil and/or plant tissue analysis to determine total nutrient requirements.

Foliar feeding has been proven, however, to provide an important boost at critical growth stages that can lead to earlier maturity, higher yields, and improved quality.

Crop/Product	Application Rate*
Cotton:	
Foliar Fertilizers: Feast-XL® Profit Master™ 26-0-0-0.5B	Apply 1 to 3 gallons per acre, beginning at early boll formation and repeat at 14 to 21 day intervals. Follow tissue analysis recommendations.
Feast® Side-Kick™ 0-0-25-17S	Apply 6 to 8 quarts per acre (ground) beginning the second week of bloom and then every 7 to 10 days for 3 to 4 applications.
Foliar-Applied Plant Growth Regulator: Foliar X-CYTO® Plant Growth Regulator	One application only: 8 oz./acre broadcast or 5 oz./acre band at pinhead square Three to four applications: Broadcast three to four 2 oz./acre applications beginning at pinhead square and continuing at 7 to 10 day intervals. If water is used as carrier, adjust pH to between 5.0 and 6.5, using Kombind®.
Field Corn:	
Foliar Fertilizers: Feast® Yield Master™ 9-18-9 or 3-18-18 OR Feast-XL® Profit Master™ 26-0-0-0.5B	2 to 3 gallons per acre may be applied at each of the following growth stages: <ul style="list-style-type: none"> • 3rd to 5th leaf prior to ear initiation (V3-V5) • 8th to 12th leaf prior to tasseling (V8-V12) • After pollination between white blister and dough but prior to roasting ear stage (R2-R4)
Feast® Side-Kick™ 0-0-25-17S	2 to 5 quarts per acre (aerial) or 2 to 6 quarts per acre (ground) may be applied at each of the following growth stages: <ul style="list-style-type: none"> • 8th to 12th leaf prior to tasseling (V8-V12) • second application 7 to 10 days later
Foliar-Applied Plant Growth Regulator: Foliar X-CYTO® Plant Growth Regulator	Apply 10 to 30 oz./acre broadcast or 5 to 10 oz./acre band at the 4 th to 6 th leaf stage (V4-V6). May apply with Feast® foliar fertilizers. If applied alone (in water) use 30 to 50 gallons per acre of water and do not use adjuvants. If water is used as carrier, adjust pH to between 5.0 and 6.5, using Kombind®.
Grass Hay and Pastures:	
Foliar Fertilizers: Feast® Yield Master™ 9-18-9 or 3-18-18	Spring: apply 3 to 5 gallons per acre to live ground cover following dormancy. After each cutting or grazing period: apply 3 to 5 gallons per acre to good ground cover within 5-14 days, but before there is 3" to 4" of regrowth. Follow soil and plant tissue analysis to determine a need for Feast® Micro Master™ micro and secondary nutrients.
Feast® Yield Master™ 3-18-18	In the fall: apply 2 to 5 gallons per acre before dormancy (prior to a killing frost).
Feast-XL® Profit Master™ 26-0-0-0.5B	7 to 10 days before harvest or grazing period: apply 2 to 3 gallons per acre.

Crop/Product	Application Rate*
Grass Hay and Pastures (continued):	
Foliar-Applied Plant Growth Regulator: Foliar X-CYTO [®] Plant Growth Regulator	Apply as a broadcast at 8 oz./ acre at the following times: <ul style="list-style-type: none"> • Spring: just after breaking dormancy. • After each cutting: within 5 to 14 days after harvest or grazing period. May be applied with Feast [®] foliar fertilizers. If water is used as carrier, adjust pH to between 5.0 and 6.5, using Kombind [®] .
Milo/Sorghum:	
Foliar Fertilizers: Feast-XL [®] Profit Master™ 26-0-0-0.5B	Apply 2 to 3 gallons per acre at each of the following growth stages: <ul style="list-style-type: none"> • 8th to 12th leaf • 1 to 2 weeks after bloom through early seed filling
Foliar-Applied Plant Growth Regulator: Foliar X-CYTO [®] Plant Growth Regulator	Apply 10 to 30 oz./acre broadcast or 5 to 10 oz./acre band at the 4 th to 6 th leaf (V4 to V6). If water is used as carrier, adjust pH to between 5.0 and 6.5, using Kombind [®] .
Peanuts:	
Foliar Fertilizer: Feast [®] Yield Master™ 3-18-18	Apply 2 to 3 gallons per acre at each of the following growth stages: <ul style="list-style-type: none"> • Just prior to bloom • At embryo development • 2 weeks after embryo development • After first pods mature
Foliar-Applied Plant Growth Regulator: Foliar X-CYTO [®] Plant Growth Regulator	Two applications: apply 8 oz./acre broadcast or 6 oz./acre band at 1 st bloom and 14 to 21 days later. If water is used as carrier, adjust pH to between 5.0 and 6.5, using Kombind [®] .
Potatoes:	
Foliar Fertilizers: Feast [®] Yield Master™ 9-18-9 or 3-18-18	Apply 2 to 3 gallons per acre at each of the following growth stages: <ul style="list-style-type: none"> • When plants are 4" to 6" tall • At 10 to 14 day intervals until after bloom • Every 7 to 10 days until vine kill or die-down
Feast-XL [®] Profit Master™ 26-0-0-0.5B	Apply 1 to 3 gallons per acre at tuber initiation.
Feast [®] Side-Kick™ 0-0-25-17S	May apply 2 to 5 quarts per acre (aerial) OR 2 to 6 quarts per acre (ground) at each of the following growth stages: <ul style="list-style-type: none"> • tuber initiation • 2 to 3 weeks following tuber initiation • at tuber bulking
Foliar-Applied Plant Growth Regulator: Foliar X-CYTO [®] Plant Growth Regulator	One application only: broadcast 20 oz./acre or band 10 oz./acre at tuber initiation. May apply with Feast [®] foliar fertilizers. If water is used as carrier, adjust pH to between 5.0 and 6.5, using Kombind [®] .
Rice:	
Foliar Fertilizer: Feast-XL [®] Profit Master™ 26-0-0-0.5B	Apply 1 to 5 gallons per acre at flag leaf emergence.

Crop/Product	Application Rate*
Rice (continued):	
Foliar-Applied Plant Growth Regulator: Foliar X-CYTO [®] Plant Growth Regulator	One application only: apply 10 to 20 oz./acre at panicle initiation. If water is used as carrier, adjust pH to between 5.0 and 6.5, using Kombind [®] .
Soybeans:	
Foliar Fertilizers: Feast [®] Yield Master™ 9-18-9 or 3-18-18 OR Feast-XL [®] Profit Master™ 26-0-0-0.5B	May apply 2 to 3 gallons per acre at each of the following growth stages: <ul style="list-style-type: none"> • 3rd to 7th trifoliolate leaf (V4-V8) • Beginning pod to beginning seed (R3-R5)
Foliar-Applied Plant Growth Regulator: Foliar X-CYTO [®] Plant Growth Regulator	Apply 8 to 10 oz./acre broadcast or 5 oz./acre band between the 3 rd trifoliolate leaf and early bloom (V4-R1). May apply with Feast [®] foliar fertilizers. If water is used as carrier, adjust pH to between 5.0 and 6.5, using Kombind [®] .
Sugar Beets:	
Foliar Fertilizer: Feast [®] Yield Master™ 3-18-18	Apply 2 to 3 gallons per acre at the following growth stages: <ul style="list-style-type: none"> • One application only: 6th to 8th leaf stage • Two to three applications: beginning at the 2nd leaf stage, and then at 7-14 day intervals. • Optional: 30 days prior to harvest.
Foliar-Applied Plant Growth Regulator: Foliar X-CYTO [®] Plant Growth Regulator	Seed Production: One application only: apply 20 ounces/acre broadcast or 10 ounces/acre band at the initiation of bloom. If water is used as the carrier, adjust water pH to between 5.0 and 6.5 using Kombind [®] .
	Sugar Production: Three applications: apply 8 ounces/acre broadcast or 4 ounces/acre band beginning at the 2 leaf stage and then at 7 to 14 day intervals. If water is used as the carrier, adjust water pH to between 5.0 and 6.5 using Kombind [®] .
Wheat:	
Foliar Fertilizers: Feast [®] Yield Master™ 9-18-9	Apply 3 to 5 gallons per acre when plants are 3" to 8" in height, but before first joint.
Feast-XL [®] Profit Master™ 26-0-0-0.5B	Apply 2 to 3 gallons per acre at each of the following growth stages: <ul style="list-style-type: none"> • Feeke's 8.0 (flag leaf emergence) • Feeke's 10.0 (early boot) • Feeke's 10.5 (after heading is complete)
Feast [®] Side-Kick™ 0-0-25-17S	2 to 5 quarts (aerial) or 2 to 6 quarts (ground) may be applied at the onset of tillering to the early boot stage.
Foliar-Applied Plant Growth Regulator: Foliar X-CYTO [®] Plant Growth Regulator	Apply 8 oz./acre at the transition to flowering (Feeke's 2.0). If water is used as carrier, adjust pH to between 5.0 and 6.5, using Kombind [®] .

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Home Gardens and Houseplants:

Feast® 9-18-9 Houseplant Fertilizer

Growing outdoor plants: dilute 1/2 to 1 ounce (1 to 2 tablespoons) of fertilizer in one gallon of water. Thoroughly apply to the foliage of plants (avoiding run-off). Make applications at 2 to 4 weeks intervals. It is best to apply in the evening.

Houseplants: dilute 1/2 ounce (1 tablespoon) of fertilizer in one gallon of water. Apply to plants 1 to 2 times per month.

For sensitive plants such as African violet or azaleas, use 1 teaspoon per gallon of water and apply only 1 time per month.

Foliar-Applied Plant Growth Regulator:

Foliar X-CYTO® Plant Growth Regulator

Transplant use: apply prior to transplanting in a single application of 4.8 cc (1 teaspoon) to 38.4 cc (2 and 2/3 tablespoons) in one gallon of water. Mist leaves thoroughly with the spray, but not to the point of excessive run-off.

Adjust pH of water to between 5.0 and 6.5, using Kombind®.

Nursery and container use: apply to container-grown plants at the rate of 4.8 cc (1 teaspoon) to 38.4 cc (2 and 2/3 tablespoons) in one gallon of water at intervals of 1 to 4 weeks. Mist leaves thoroughly with the spray, but not to the point of excessive run-off.

Adjust pH of water to between 5.0 and 6.5, using Kombind®.

Ornamental Trees and Shrubs:

Foliar-Applied Plant Growth Regulator:

Foliar X-CYTO® Plant Growth Regulator

Two weeks after emergence or at transplant: Apply at the rate of 8 ounces (16 tablespoons) per acre broadcast or 4 ounces (8 tablespoons) per acre minimum, if banded or as a foliar-directed spray, beginning 14 to 20 days prior to desired bloom period and then every 7 days.

If water is used as carrier, adjust pH to between 5.0 and 6.5, using Kombind®.

Shade Trees:

Foliar-Applied Plant Growth Regulator:

Foliar X-CYTO® Plant Growth Regulator

Initiation of new growth: Apply at the rate of 1 to 8 pints per 100 gallons of water using conventional spray equipment. If using low volume ground or air equipment, adjust concentrate to achieve proper per tree or per acre rate.

Adjust pH of water to between 5.0 and 6.5, using Kombind®.

Repeat application: this can be done at 2 week intervals, with the final application just prior to dormancy.

Adjust pH of water to between 5.0 and 6.5, using Kombind®.

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*For more detailed application recommendations, refer to the product labels or application guides.

Please call the office at these extensions, 952-496-4224, to obtain foliar recommendations for Feast® 9-18-9, 3-18-18 and X-CYTO® on several vegetable and fruit crops.