



Crop Program : Cucumbers (Multiple Harvest)



CROP FERTILITY PROGRAM¹

SEND	SOIL APPLICATIONS ²		FOLIAR APPLICATION ³				POST HARVEST
Greenhouse Seedlings	Bio-Activator ⁴	Bulk N-P-K ⁵	<u>Stage I</u> Post Transplant	<u>Stage II</u> Early Bloom	<u>Stage III</u> Fruit Sizing	<u>Stage IV</u> Pre-Harvest	Bio-Activator

ZAP® 1-2 fl. oz. Per 1,000 sq.ft.	ZAP® 1-2 gal. Per Acre	SUPER PHOS™ 1-5 gal. Per Acre	VITOL® 1-2 qt. Per Acre	BREAKOUT® 1-2 qt. Per Acre	VITOL® 2-4 qt. Per Acre	VITOL® 2-4 qt. Per Acre	LASE™ 1-2 qt. Per Acre
+	+ /OR	+ /OR	+	+	+	+	
BREAKOUT™ .5-1 fl. oz. Per 1,000 sq. ft.	BLEND™ 1-2 qt. Per Acre	SUPER K™ 1-3 gal. Per Acre	Other HG Nutrients as needed below	Other HG Nutrients as needed below	Other HG Nutrients as needed below	CALCIUM 1-2 qt. Per Acre	
+		+ /OR				+	
START-L™ .25-.50 fl. oz. Per 1,000 sq. ft.		X-TEND® 1-2 qt. per 20 gal. of 32-0-0				Other HG Nutrients as needed below	

FOLIAR NUTRIENT RECOMMENDATIONS

Instructions for Treating Foliar Nutrient Deficiencies	In Percentages						In Parts Per Million				
	N	P	K	Ca	Mg	S	Fe	Zn	Mn	Cu	B
Sufficiency Level Growth Stage I	4.00	.40	3.90	3.20	.40	.40	300	48	85	16	45
Sufficiency Level Growth Stage II	4.40	.44	3.52	3.52	.44	.44	300	48	85	16	45
Sufficiency Level Growth Stage III	3.80	.40	3.20	3.20	.40	.40	300	48	85	16	45
Sufficiency Level Growth Stage IV	3.40	.36	3.20	3.20	.40	.40	300	48	85	16	45
Minus (-) Lab Foliar Analysis ⁶											
Equals (=) Amount Deficient											
Divided (/) by Deficiency Factor	/ .20	/ .015	/ .15	/ .05	/ .05	/ .02	/ 5	/ 5	/ 5	/ 2	/ 5
Equals (=) Recommended Application Rate in oz. per Acre ⁷											
Multiply (*) by Number of Acres (X) Divided (/) by 128 oz. per gallon	*X /128	*X /128	*X /128	*X /128	*X /128	*X /128	*X /128	*X /128	*X /128	*X /128	*X /128
Equals (=) Number of gallons needed for Treatment											
HUMA GRO Product	X-TEND +32-0-0	SUPER PHOS	Super K	CALCIUM	44 MAG	SULFUR	IRON	Z-MAX	MANGA- NESE	COPPER	BORON

NOTES:

- 1 This is a standard program and may be expanded or abbreviated. Adjustments may be needed based on soil type, pH, environmental factors and personal experience.
- 2 For soil born diseases or nematode problems, apply PROMAX biopesticide at 1-2 gallons per acre as needed.
- 3 For foliar diseases, mites, or soft bodied insects, apply PROUD 3 biopesticide at 1-2 quarts per acre as needed.
- 4 For maximum benefit, apply every 15-30 days during the growing season. For additional carbon source, consider using HUMA GRO Organic Acid products.
- 5 Application Rate based on needs identified by experience or Soil Analysis. Additional doses of these products may be foliar or soil applied during the growing season.
- 6 If greater than sufficiency level ignore. If excessive, call a HUMA GRO Representative for assistance.
- 7 If applied to the soil rather than to foliage, multiply these amounts by 3. If applied in band, reduce the rate by the appropriate percentage. Please ignore anything under 2 ounces per acre.

201 South Roosevelt Chandler, Arizona 85226 | phone 480-961-1220 | toll-free 800-961-1220
| fax 480-961-3501 | info@biohumanetics.com | www.biohumanetics.com