



Crop Program : Grapes



CROP FERTILITY PROGRAM¹

SEND	SOIL APPLICATIONS ²		FOLIAR APPLICATION ³				POST HARVEST
Seeding Dip or Root Drench	Bio-Activator ⁴	Bulk N-P-K ⁵	Stage I Bud Break	Stage II Early to Full Bloom	Stage III Berry Sizing	Stage IV Pre-Harvest 7 and 21 days	Bio-Activator

ZAP® 1-2 qt. Per Acre	ZAP® 1-2 gal. Per Acre	SUPER PHOS™ 1-5 gal. Per Acre	BREAKOUT® 2-4 qt. Per Acre	VITOL® 2-4 qt. Per Acre	VITOL® 2-4 qt. Per Acre	JACKPOT® 21 days 1-2 qt. Per Acre	BLEND™ 1-2 qt. Per Acre
+	+ / OR	+ / OR	+	+	+	+	
VITOL® 1-2 qt. Per Acre	LASE™ 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	JACKPOT® 7 days 1-2 qt. Per Acre	
+		+ / OR				+	
START-L™ 1-2 cup Per Acre		X-TEND® 1-2 qt. per 20 gal. of 32-0-0				CALCIUM 1-2 pt. each Per Acre	
						+	
						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	2.70	.27	2.20	2.20	.27	.27	75	36	70	12	31
Sufficiency Level Growth Stage II	3.00	.30	2.40	2.40	.30	.30	75	36	70	12	31
Sufficiency Level Growth Stage III	2.80	.28	2.60	2.60	.28	.28	75	36	70	12	31
Sufficiency Level Growth Stage IV	2.40	.24	2.40	2.40	.24	.24	75	36	70	12	31
Minus (-) Lab Foliar Analysis ⁶											
Equals (=) Amount Deficient											
Divided (/) by Deficiency Factor	/ .10	/ .008	/ .075	/ .025	/ .025	/ .01	/ 2.5	/ 2.5	/ 2.5	/ 1	/ 2.5
Equals (=) Recommended Application Rate in oz. per Acre ⁷											
Multiply (*) by Number of Acres (X)	*X	*X	*X	*X	*X	*X	*X	*X	*X	*X	*X
Divided (/) by 128 oz. per gallon	/ 128	/ 128	/ 128	/ 128	/ 128	/ 128	/ 128	/ 128	/ 128	/ 128	/ 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:

- 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.
- For soil born diseases or nematode problems, apply PROMAX biopesticide at 1-2 gallons per acre as needed.
- For foliar diseases, mites, or soft bodied insects, apply PROUD 3 biopesticide at 1-2 quarts per acre as needed.
- For maximum benefit, apply every 15-30 days during the growing season. For additional carbon source, consider using HUMA GRO Organic Acid products.
- 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.
- If greater than sufficiency level ignore. If excessive, call a HUMA GRO Representative for assistance.
- 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.

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