

PLANT ANALYSIS

Send To:	Grower:	Report No.: 18-094-0017 Cust No.: Lab No: 276658 Report Date : 4/5/2018 Page : 1 of 5
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Sample Id : **1-3 Sup**

Growth Stage : **Full-bloom**

Farm:

Crop : **Grape, Table European**

Field id:

Plant Part:

Test	Analysis	Plant Test Ratings					Normal Range	Actual Ratio		Expected Ratio	
		Deficient	Low	Sufficient	High	Very High					
Nitrogen	%	3.12						1.70 2.99	N/S	13.0	10.0
Sulfur	%	0.24						0.18 0.29	N/K	1.9	1.3
Phosphorus	%	0.30						0.15 0.49	P/S	1.3	1.4
Potassium	%	1.61						1.50 1.99	P/Zn	56.6	51.2
Magnesium	%	0.19						0.30 1.49	K/Mg	8.5	1.9
Calcium	%	1.45						1.00 2.99	K/Mn	230.0	193.9
Sodium	%	0.14						0.00 0.19	Ca/B	241.7	498.8
Boron	ppm	60						30 50	Fe/Mn	3.5	1.9
Zinc	ppm	53						25 100	Ca/K	0.9	1.1
Manganese	ppm	70						30 150	Ca/Mg	7.6	2.2
Iron	ppm	247						40 300			
Copper	ppm	4						5 50			
Aluminum	ppm										

Comments:

02028) These plants are low or deficient in copper. Low copper availability may be caused by high soil organic matter, high soil pH, or sandy soils with low organic matter. Copper may be foliar applied at .5 to 1 lb per acre. If a chelated material is used, apply according to manufacturer specifications. Repeated application may be necessary.

02019) These plants are low or deficient in magnesium. This condition may be due to low soil magnesium and/or excess soil potassium, low soil pH, or poor drainage. Magnesium may be foliar applied at 1 to 2 lbs per acre. If a chelated material is used, apply according to manufacturer specifications. Repeated applications may be necessary.

PLANT ANALYSIS

Send To:	Grower:	Report No.: 18-094-0017 Cust No.: Lab No: 276659 Report Date : 4/5/2018 Page : 2 of 5
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Sample Id : **1-3 SR**



Growth Stage : **Full-bloom**

Farm:

Crop : **Grape, Table European**

Field id:

Plant Part:

Test	Analysis	Plant Test Ratings					Normal Range	Actual Ratio		Expected Ratio	
		Deficient	Low	Sufficient	High	Very High					
Nitrogen	%	2.80						1.70	N/S	10.8	10.0
								2.99			
Sulfur	%	0.26						0.18	N/K	1.8	1.3
								0.29			
Phosphorus	%	0.42						0.15	P/S	1.6	1.4
								0.49			
Potassium	%	1.57						1.50	P/Zn	56.0	51.2
								1.99			
Magnesium	%	0.25						0.30	K/Mg	6.3	1.9
								1.49			
Calcium	%	1.58						1.00	K/Mn	145.4	193.9
								2.99			
Sodium	%	0.34						0.00	Ca/B	181.6	498.8
								0.19			
Boron	ppm	87						30	Fe/Mn	2.2	1.9
								50			
Zinc	ppm	75						25	Ca/K	1.0	1.1
								100			
Manganese	ppm	108						30	Ca/Mg	6.3	2.2
								150			
Iron	ppm	240						40			
								300			
Copper	ppm	7						5			
								50			
Aluminum	ppm										

Comments:

02019) These plants are low or deficient in magnesium. This condition may be due to low soil magnesium and/or excess soil potassium, low soil pH, or poor drainage. Magnesium may be foliar applied at 1 to 2 lbs per acre. If a chelated material is used, apply according to manufacturer specifications. Repeated applications may be necessary.

02114) One or more nutrients are very high at this time. Please monitor.

PLANT ANALYSIS

Send To:	Grower:	Report No.: 18-094-0017 Cust No.: Lab No: 276660 Report Date : 4/5/2018 Page : 3 of 5
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Sample Id : **Blk 4**

Growth Stage : **Full-bloom**

Farm:

Crop : **Grape, Table European**

Field id:

Plant Part:

Test	Analysis	Plant Test Ratings					Normal Range	Actual Ratio		Expected Ratio	
		Deficient	Low	Sufficient	High	Very High					
Nitrogen	%	3.08						1.70 2.99	N/S	12.8	10.0
Sulfur	%	0.24						0.18 0.29	N/K	2.3	1.3
Phosphorus	%	0.30						0.15 0.49	P/S	1.3	1.4
Potassium	%	1.35						1.50 1.99	P/Zn	96.8	51.2
Magnesium	%	0.23						0.30 1.49	K/Mg	5.9	1.9
Calcium	%	1.44						1.00 2.99	K/Mn	287.2	193.9
Sodium	%	0.17						0.00 0.19	Ca/B	276.9	498.8
Boron	ppm	52						30 50	Fe/Mn	2.9	1.9
Zinc	ppm	31						25 100	Ca/K	1.1	1.1
Manganese	ppm	47						30 150	Ca/Mg	6.3	2.2
Iron	ppm	135						40 300			
Copper	ppm	10						5 50			
Aluminum	ppm										

Comments:

02018) These plants are low or deficient in potassium. Possible causes include low soil potassium level, poor drainage, droughty soil conditions or compaction. In season surface application of potassium on row crops may have limited effectiveness except on sandy soils where leaching may readily occur. For severe deficiencies, sidedress and incorporate 30 to 50 lbs of K2O per acre as early in the season as possible.

02019) These plants are low or deficient in magnesium. This condition may be due to low soil magnesium and/or excess soil potassium, low soil pH, or poor drainage. Magnesium may be foliar applied at 1 to 2 lbs per acre. If a chelated material is used, apply according to manufacturer specifications. Repeated applications may be necessary.

PLANT ANALYSIS

Send To:	Grower:	Report No.: 18-094-0017 Cust No.: Lab No: 276661 Report Date : 4/5/2018 Page : 4 of 5
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Sample Id : **Blk 5 MB**

Growth Stage : **Full-bloom**

Farm:

Crop : **Grape, Table European**

Field id:

Plant Part:

Test	Analysis	Plant Test Ratings					Normal Range	Actual Ratio		Expected Ratio
		Deficient	Low	Sufficient	High	Very High				
Nitrogen	% 3.25						1.70 2.99	N/S	13.0	10.0
Sulfur	% 0.25						0.18 0.29	N/K	2.1	1.3
Phosphorus	% 0.47						0.15 0.49	P/S	1.9	1.4
Potassium	% 1.58						1.50 1.99	P/Zn	90.4	51.2
Magnesium	% 0.19						0.30 1.49	K/Mg	8.3	1.9
Calcium	% 1.14						1.00 2.99	K/Mn	216.4	193.9
Sodium	% 0.13						0.00 0.19	Ca/B	150.0	498.8
Boron	ppm 76						30 50	Fe/Mn	2.8	1.9
Zinc	ppm 52						25 100	Ca/K	0.7	1.1
Manganese	ppm 73						30 150	Ca/Mg	6.0	2.2
Iron	ppm 204						40 300			
Copper	ppm 14						5 50			
Aluminum	ppm									

Comments:

02019) These plants are low or deficient in magnesium. This condition may be due to low soil magnesium and/or excess soil potassium, low soil pH, or poor drainage. Magnesium may be foliar applied at 1 to 2 lbs per acre. If a chelated material is used, apply according to manufacturer specifications. Repeated applications may be necessary.

02114) One or more nutrients are very high at this time. Please monitor.

PLANT ANALYSIS

Send To:	Grower:	Report No.: 18-094-0017 Cust No.: Lab No: 276662 Report Date : 4/5/2018 Page : 5 of 5
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Sample Id : **Blk 5 Sup**

Growth Stage : **Full-bloom**

Farm:

Crop : **Grape, Table European**

Field id:

Plant Part:

Test	Analysis	Plant Test Ratings					Normal Range	Actual Ratio		Expected Ratio
		Deficient	Low	Sufficient	High	Very High				
Nitrogen	% 3.63						1.70 2.99	N/S	13.0	10.0
Sulfur	% 0.28						0.18 0.29	N/K	2.5	1.3
Phosphorus	% 0.45						0.15 0.49	P/S	1.6	1.4
Potassium	% 1.48						1.50 1.99	P/Zn	88.2	51.2
Magnesium	% 0.22						0.30 1.49	K/Mg	6.7	1.9
Calcium	% 1.55						1.00 2.99	K/Mn	192.2	193.9
Sodium	% 0.16						0.00 0.19	Ca/B	281.8	498.8
Boron	ppm 55						30 50	Fe/Mn	2.9	1.9
Zinc	ppm 51						25 100	Ca/K	1.0	1.1
Manganese	ppm 77						30 150	Ca/Mg	7.0	2.2
Iron	ppm 226						40 300			
Copper	ppm 9						5 50			
Aluminum	ppm									

Comments:

- 02018) These plants are low or deficient in potassium. Possible causes include low soil potassium level, poor drainage, droughty soil conditions or compaction. In season surface application of potassium on row crops may have limited effectiveness except on sandy soils where leaching may readily occur. For severe deficiencies, sidedress and incorporate 30 to 50 lbs of K2O per acre as early in the season as possible.
- 02019) These plants are low or deficient in magnesium. This condition may be due to low soil magnesium and/or excess soil potassium, low soil pH, or poor drainage. Magnesium may be foliar applied at 1 to 2 lbs per acre. If a chelated material is used, apply according to manufacturer specifications. Repeated applications may be necessary.
- 02114) One or more nutrients are very high at this time. Please monitor.