



Plant Analysis Report

Grower: Farmer, Joe
c/o Farmer's Produce
4 Backwoods Rd
Rolesville, NC 27571

Copies to:

Farm:
Wake County

Received: 06/18/2008

Completed: 06/20/2008

[Links to Helpful Information](#)

Sample Information	Laboratory Results																	
Sample ID: TOM1	N%	P%	K%	Ca%	Mg%	S%	Fe-ppm	Mn-ppm	Zn-ppm	Cu-ppm	B-ppm	Mo-ppm	Cl%	Na%	Ni-ppm	Cd-ppm	Pb-ppm	
	3.40	0.20	2.23	2.68	0.67	1.03	324	98.5	35.6	23.1	45.0			0.07				
Crop: Tomato, Trellis	Interpretation Indexes											Ratios			Petiole(ppm)			
	N	P	K	Ca	Mg	S	Fe	Mn	Zn	Cu	B	Mo	N:S	N:K	Fe:Mn	Nitrate N		
Plant Appearance: Blossom-end rot	47-L	34-L	37-L	91	70	87	78	56	57	67	58		3.30	1.52	3.29			
	DRIS Interpretation: Most limiting--						--Least limiting											

Recommendations:

Phosphorus and potassium concentrations are below the desired ranges in your tomato sample; nitrogen is marginally low. As the fruit load increases, the concentrations of K and P in the leaf blade may decline due to nutrient reallocation from vegetative tissue to reproductive tissue. Soil P and K levels, environmental conditions, and plant maturity will determine the need for corrective action. Additionally, low K levels may also be the result of high levels of calcium (Ca). The main concern with high levels of Ca is an imbalance with the uptake of K and magnesium (Mg). Symptoms of K deficiency are interveinal chlorosis and marginal necrotic spotting or scorching on the lower, mature leaves that progresses inward and upward. Deficient P causes stunting and dark green to bronzed leaves.

The blossom end rot that you mentioned could be due to dry soil, big fluctuations in soil moisture, or high relative humidity especially since calcium concentration is very high in this sample. Further assistance, please contact Charles Mitchell at 919.562.7700.

Brenda R. Cleveland, Agronomist
Completed June 20, 2008



Reprogramming of the laboratory-information-management system that makes this report possible is being funded through a grant from the North Carolina Tobacco Trust Fund Commission.

Thank you for using agronomic services to manage nutrients and safeguard environmental quality.