Understanding the Soilless Media Report * - *additional information:* www.ncagr.gov/agronomi/pdffiles/umedia.pdf

This report provides data on chemical properties relevant to use of soilless media for container crop production. Desired pH, soluble salt and nutrient levels vary based on crop, growth cycle of crop and management practices such as type of fertilizer used, fertilizer rate, time since last irrigation or fertigation event (Warncke 1998):

EC (electrical conductivity) is a measure of salinity, or total dissolved salts; **pH** is a measure of basicity/acidity; **BD** is bulk density in lb/yd^3; **SAR** (sodium adsorption ratio; no units) indicates relative balance among Ca, Mg & Na, which can predict tendency for concerns with Na. **Ratios** (no units) predict imbalances between nutrients; **Nutrient Balances** indicate concentration of nutrients as a percentage of EC. The designations **L, A, O, H** & **VH** indicate Low, Acceptable, Optimal, High & Very High, respectively.

NO3-N = nitrate nitrogen; **NH4-N** = ammonium nitrogen; **P** = phosphorus; **K** = potassium; **Ca** = calcium; **Mg** = magnesium; **S** = sulfur; **Fe** = iron; **Mn** = manganese; **Zn** = zinc; **Cu** = copper; **B** = boron; **Mo** = molybdenum; **Na** = sodium; **Cl** = chloride

Sample Information

Sample ID: storch

Media Code: NUR

Media Type:

Fertilizer Type:

Sample Type: Sample

Crop:

Comments:

Nutrient Measurements *(given in units of parts per million, unless otherwise specified)*

N (ppm)	
Inorganic N	0.56
NH4-N	0.21
NO3-N	0.34
Organic N	
Urea	

P (ppm)	*K (ppm)*	*Ca (ppm)*	*Mg (ppm)*	*S (ppm)*	*Fe (ppm)*	*Mn (ppm)*	*Zn (ppm)*	*Cu (ppm)*	*B (ppm)*	Mo (ppm)
2.40	17.1	2.67	0.91	1.58	0.23	0.09	0.02	0.00	0.12	

Other Results

Na (ppm)	*Cl (ppm)*	*EC (10 $^{-5}$ S/cm)*	*EC (mS/cm)*	pH	BD
0.80	4.16	8	0.08	4.40	

Nutrient Balances

NH4-N (%EC)	*NO3-N (%EC)*	*K (%EC)*	*Ca (%EC)*	*Mg (%EC)*	*Na (%EC)*	*Cl (%EC)*
0.37	0.59	29.5	4.61	1.58	1.37	7.19

Nutrient Ratios

K:Ca	6.4 : 1
Ca:Mg	2.9 : 1
K:Mg	18.7 : 1