

Rutgers Horticultural Research Farm test results

The following test was devised to determine how Turf and Soil Solutions plant derived nutrients compared to traditional fertility at much lower rates. The following protocol was performed.

Weekly Fertility schedule and every other day irrigation
 Leaf tissue samples were collected day 21
 Root samples collected day 42
 50% Hoagland's Solution applied weekly
 Salinity stress derived from 150mM NaCl

The results show that Turf and Soil Solutions plant derived nutrients provide similar nutrition to the tissue at dramatically lower rates.

It is important to note that while Pro N 10 provided a similar level of Nitrogen, the sodium in the tissue was significantly reduced.

PRO CAL 20+ (3-0-0)

		Fresh Water Tissue Day 21	Salt Stress Tissue Day 42	Root Nutrient Level/Salt Stress Day 42
Pro Cal 20	48 Oz/Acre	0.65%	0.46%	0.31%
CN-9	87 Oz/Acre	0.59%	0.42%	0.34%

PRO K 0-0-20

		Fresh Water Tissue Day 21	Salt Stress Tissue Day 42	Root Nutrient Level/Salt Stress Day 42
Pro K	21 Oz/Acre	2.58%	0.90%	0.46%
0-0-30	4 Gal/Acre	2.88%	1.05%	0.39%

PRO N 10

		21 day N/Na	Salt Stress Tissue Day 42 N/Na	Root Nutrient Level N Day 42
Pro N 10	32 Oz/Acre	2.92%/3500	3.61%/4122	1.17%
46-0-0	10 lbs/Acre	3.00%/4990	3.52%/6575	1.14%