



PLANT TISSUE ANALYSIS - 2020 Season A-B Testing - 9 months

Client: HCT, LLC
 7032 EAST CORTEZ DRIVE
 SCOTTSDALE, ARIZONA 85254

Material: ALMONDS - LEAVES

Grower: LOST HILLS, CA - Adjacent Blocks - 2 blocks of 8 total

Results:	Sample Dates	-----PERCENT-----										-----PPM-----							
		N	UCD-ESP	P	K	Ca	Mg	Cl	Na	C	S	Zn	Mn	Fe	Cu	B	Al	Co	Mo
Non-Treated Tissue	09-02-20	2.07		0.13	1.94	3.86	0.77	0.66	0.05	44.3	0.13	39	83	319	10	59	359	<0.5	0.7
	06-03-20	2.87		0.17	2.57	3.21	0.67	0.29	0.03	44.7	0.10	75	63	95	11	49	99	<0.5	1.3
	03-20-20	3.39	2.54	0.39	2.20	1.38	0.36	0.29	0.03	40.5	0.06	65	45	41	8	50	43	<0.5	<0.5
WaterSOLV™ Treated Tissue	09-02-20	1.97		0.13	2.20	3.86	0.77	0.50	0.04	44.5	0.13	57	54	175	7	53	213	<0.5	<0.5
	06-03-20	2.85		0.17	2.50	2.93	0.60	0.34	0.03	44.8	0.13	63	66	122	13	52	135	<0.5	1.7
	03-20-20	3.75	2.63	0.48	2.12	1.61	0.42	0.26	0.04	40.1	0.05	140	72	43	9	55	68	<0.5	<0.5

Agronomical Observations

NOTE: the Treated side shows about the same amount of Phosphate and Calcium as the Non-treated side did. The difference is the amount of Fe and Al that is showing on the Non-treated side - as these levels are greatly influenced by the amount of soluble Calcium in the root zone - in order for these Elements to be lower in the treated side. Fe 45% greater as the Non-treated and Al 41%, there has to be more soluble and available Calcium. It appears the HCT program has made and/or released more soluble, available Calcium for plant uptake - thus blocking the excess uptake of Al and Fe, of which these two elements, that follow each other closely, when they get out of balance can and do block/restrict the flow of other nutrients up into the tree branches and/or to the fruit.

Summations:

WaterSOLV™ Treated
 Leaf size 30% bigger, no tip burn
 Yield 9, 13 and 16% greater by size and weight (surely some weight my moisture content I'd assume)
 ppm's - More Zinc
 ppm's - Less Manganese, Iron, Copper, Boron, Aluminum, and Molybdenum - yet 9-16% more yield, mass and weight.
 Percentages Equal: WOW, equal on P, Ca, Mg, C and S
 Percentage Variances: More P, less Cl, Less Na, slightly more C.

What titrants/solutes were used to extract the elements and how thorough were they?
 So does more Fe and Al mean better? NO! Less produced more yield.
 Quite evident our plants know what they like and how to deal with it if we make it available.

Treated - WaterSOLV Curative & BC

Untreated - Sulfuric & Gypsum

