

Results (Yield expressed in lbs/acres):

	Feb-Mar 2020							
<u>Lot</u> Treated (Lot 20)	<u>Total lbs</u> 230,938	<u>Lot Acres</u> 22.60	<u>lbs/acre</u> 10,218					
Untreated (Lot 21)	113,613	17.48	6,500					
Treated (Lot 20) v	s Untreated	(Lot 21) =	+57.2%					

<u>Source:</u> Urth Agriculture results; derived from Table 1

Table 1: , AZ Harvest Data

Total Lbs.	Actual_Ranch	Crop	Variety	Grower_Lot	Plant_Date	Est_Harvest	Acres	Cont. QTY	avg lbs./cont	Lbs./A	Cont.	Bed_Count	Hvst Date
62,947		SB	SUN ANGEL		02/15/20	03/17/20	7.60	180	350	8,283	Bins	36	3/23
85,119		SB	TRAIL BOSS		02/15/20	03/17/20	7.60	236	361	11,200	Bins	36	3/23
82,872		SB	CRATER		02/15/20	03/17/20	7.40	168	493	11,199	Bins	35	3/24
69,454		SB	MINKAR		02/16/20	03/18/20	8.74	4,200	16.54	7,947	RPC's	41	3/23
44,159		SB	TRAIL BOSS		02/16/20	03/18/20	8.74	102	433	5,053	Bins	40	3/24-3/25
		Source:											

Supplemental Info

Table 2: Spinach Tissue Analysis—"Trailboss" Variety—(Day 23 of 31)

			Lo	ts 20 & 21								
	Organic Spinacl	h, Tissue Analy	ysis - 3/13/2	0 for Sample 3/.	10/20	One cup of raw spinach contains:						
		Variety:	"Trailboss"	*								
	Logan Labs Target Ranges			Treated (L-20)	Untreated (L-21)	• 7 calories.						
	Low - Def	Sufficient	High			 0.86 grams (g) of protein. 						
N%		4.2 - 6.0%		5.86	5.96	30 milligrams (mg) of calcium.						
P%		0.30 - 0.55		0.53	0.56	• 0.81 g of iron.						
K%		3.0 - 4.0		4.77	4.64	24 mg of magnesium.						
Ca%		0.65 - 1.3		0.83	0.84	 24 mg of magnesiant. 167 mg of potassium. 2.813 interational units (IU) of Vitamin A. 						
Mg%		0.85 - 1.2		1.03	1.09							
S%						 58 micrograms of folate. 						
Na%												
B ppm		40 - 60		33.18	33.11	Jun 29, 2018						
Cu ppm		6 - 8		5.27	4.83	Spinach: Nutrition, health benefits, and diet - Medical News Today						
Fe ppm		220 - 400		235.7	290.9							
Mn ppm		35 - 65		69.48	74.19	https://www.medicalnewstoday.com > articles						
Zn ppm		50 - 75		85.25	88.43							

Notes:

- Nutrient values most meaningful in context of Treated vs Untreated harvest volume data;
- Samples collected on Day 23 of projected 31 day growth cycle;
- Values informative of spinach nutrition and soil nutrient adequacy;

Source: UrthAg; Logan Labs analysis; Notes attributed to UrthAg & Logan Labs.

Brix Data by variety:

BRI	x vaiu	espr	ocesse	ed 3-16	5-20 at	1PM		
rganic S	pinach							
1	2	3	4	5	6	7	8	Ave.
8.0	7.5	7.8	7.0	7.5	7.3	8.0	7.0	7.5
7.0	7.3	7.8	8.0	7.5	8.0	7.0	7.5	7.5
5.0	4.3	4.0	5.5	4.8	4.0	4.3	4.3	4.5
rganic S	pinach							
1	2	3	4	5	6	7	8	Ave.
3.5	4.0	3.3	4.3	3.0	3.3	3.5	3.3	3.5
4.0	3.0	3.5	3.3	3.5	3.3	4.3	3.3	3.5
	rganic S 1 8.0 7.0 5.0 5.0 rganic S 1 3.5	rganic Spinach 1 2 8.0 7.5 7.0 7.3 5.0 4.3 rganic Spinach 1 2 3.5 4.0	rganic Spinach 1 2 3 8.0 7.5 7.8 7.0 7.3 7.8 5.0 4.3 4.0 rganic Spinach 1 2 3 3.5 4.0 3.3	rganic Spinach 1 2 3 4 8.0 7.5 7.8 7.0 7.0 7.3 7.8 8.0 5.0 4.3 4.0 5.5 rganic Spinach 1 2 3 4 3.5 4.0 3.3 4.3	rganic Spinach 1 2 3 4 5 8.0 7.5 7.8 7.0 7.5 7.0 7.3 7.8 8.0 7.5 5.0 4.3 4.0 5.5 4.8 rganic Spinach 1 2 3 4 5 3.5 4.0 3.3 4.3 3.0	rganic Spinach 1 2 3 4 5 6 8.0 7.5 7.8 7.0 7.5 7.3 7.0 7.3 7.8 8.0 7.5 8.0 5.0 4.3 4.0 5.5 4.8 4.0 rganic Spinach 1 2 3 4 5 6 3.5 4.0 3.3 4.3 3.0 3.3	1 2 3 4 5 6 7 8.0 7.5 7.8 7.0 7.5 7.3 8.0 7.0 7.3 7.8 8.0 7.5 8.0 7.0 5.0 4.3 4.0 5.5 4.8 4.0 4.3 rganic Spinach 7 2 3 4 5 6 7 3.5 4.0 3.3 4.3 3.0 3.3 3.5	rganic Spinach 1 2 3 4 5 6 7 8 8.0 7.5 7.8 7.0 7.5 7.3 8.0 7.0 7.0 7.3 7.8 8.0 7.5 8.0 7.0 7.5 5.0 4.3 4.0 5.5 4.8 4.0 4.3 4.3 rganic Spinach 1 2 3 4 5 6 7 8 3.5 4.0 3.3 4.3 3.0 3.3 3.5 3.3

Notes:

- Samples collected on Day 30 of projected 31 day growth cycle;
- Each sample included three leaves from three different plants;
- Treated BRIX values exceeded Untreated by significant margin.

Source: UrthAg collected samples, performed tests and presents results.

Highlights from Urth Field Notes:

"That's the third ladybug I've seen on the Treated Lot 20.... I've seen few insects and fewer pests." Scott Seely, Urth Agriculture, 17 March 2020

"I like what I see on [the Treated] Lot 20, but I want to see the numbers."

, Field Manager, 17 March 2020

Select Photos reveal relative germination and density:



Treated Trailboss (Day 23)—IMG 1380

Untreated Trailboss (Day 23)—IMG 1392



Treated Trailboss (Day 30)—IMG 1428

Untreated Trailboss (Day 30)—IMG 1410

Source: Photos form UrthAg.