

# 2013



**Tissue: Sugarbeet - All Stages**  
 Grower Name **METZGER**  
 Field Name **233**  
 Crop **Sugarbeet**  
 Sample Date **7/22/2013**

Test Date **7/25/2013**  
 Field Rep **Rick Swenson**  
 Sample ID **10929**  
 Subfield

		Very Low	Low	Optimum	High	Excessive	
Total N	4.90	[Bar chart showing level in Optimum range]					Optimum
Total P	0.33	[Bar chart showing level in Optimum range]					Optimum
Total K	2.60	[Bar chart showing level in Optimum range]					Optimum
Macronutrients		Very Low	Low	Optimum	High	Excessive	
Ca	0.98	[Bar chart showing level in Optimum range]					Optimum
Mg	0.93	[Bar chart showing level in Optimum range]					Optimum
Na	2.87	[Bar chart showing level in Optimum range]					Optimum
S	0.60	[Bar chart showing level in High range]					High
Micronutrients		Very Low	Low	Optimum	High	Excessive	
Zn-ppm	39.00	[Bar chart showing level in Optimum range]					Optimum
Mn-ppm	77.00	[Bar chart showing level in Optimum range]					Optimum
Fe-ppm	99.00	[Bar chart showing level in Optimum range]					Optimum
Cu-ppm	20.00	[Bar chart showing level in Optimum range]					Optimum
B-ppm	52.00	[Bar chart showing level in Optimum range]					Optimum
Petioles		Very Low	Low	Optimum	High	Excessive	

Very Low
Low
Optimum
High
Very High

Comments:

## Before

- Awaken
- NutriSync Zinc Plus
- RiseR (2 & 5 GPA)
- Check

**Tissue: Sugarbeet - All Stages**

Grower Name **METZGER**  
 Field Name **PLOT 233**  
 Crop **Sugarbeet**  
 Sample Date **8/13/2013**

Test Date **8/16/2013**  
 Field Rep **Rick Swenson**  
 Sample ID **14250**  
 Subfield



		Very Low	Low	Optimum	High	Excessive	
Total N	4.80	[Bar chart showing level in Optimum range]					Optimum
Total P	0.26	[Bar chart showing level in Low range]					Task Force-2 @ 1 qt/A or Riser 1 g/A if micros lo
Total K	2.60	[Bar chart showing level in Optimum range]					Optimum
Macronutrients		Very Low	Low	Optimum	High	Excessive	
Ca	1.04	[Bar chart showing level in Optimum range]					Optimum
Mg	1.13	[Bar chart showing level in Optimum range]					Optimum
Na	3.04	[Bar chart showing level in Optimum range]					Optimum
S	0.67	[Bar chart showing level in High range]					High
Micronutrients		Very Low	Low	Optimum	High	Excessive	
Zn-ppm	75.00	[Bar chart showing level in Optimum range]					Optimum
Mn-ppm	89.00	[Bar chart showing level in Optimum range]					Optimum
Fe-ppm	99.00	[Bar chart showing level in Optimum range]					Optimum
Cu-ppm	21.00	[Bar chart showing level in Optimum range]					Optimum
B-ppm	58.00	[Bar chart showing level in Optimum range]					Optimum
Petioles		Very Low	Low	Optimum	High	Excessive	

Very Low
Low
Optimum
High
Very High

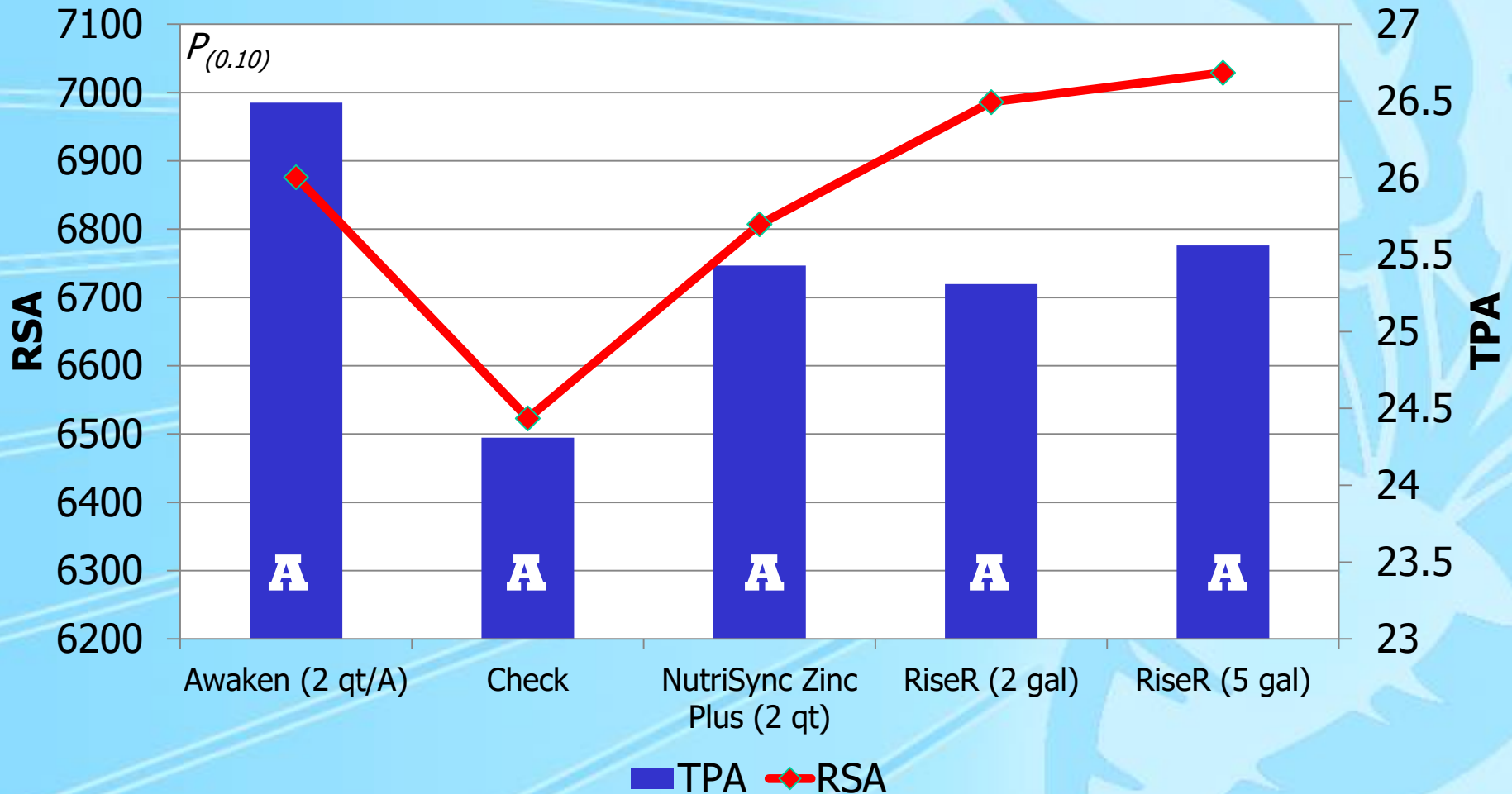
Comments:

## After

# Non-Traditional Products...

Plot Number	Treatment Applied	Total	Total	Total	Macronutrients				Micronutrients				
		N	P	K	Ca	Mg	Na	S	Zn	Mn	Fe	Cu	B
132	Awaken (2 qt)	-0.5	-0.1	-0.3	0.12	0.07	-0.7	-0.1	29	13	-32	-3	-5
230	Awaken (2 qt)	-0.8	-0.1	0	0.26	0.26	0.44	0.12	51	17	-10	-2	-11
332	Awaken (2 qt)	-0.5	-0.3	-0.3	0.26	0.19	0.34	0.08	24	9	4	-4	3
130	Check	0.3	0.17	0.1	0.58	0.31	0.33	0.18	11	31	11	3	7
231	Check	0.6	0	0.6	0.2	0.14	0.29	0.03	5	13	9	3	0
334	Check	0.2	0.13	0.1	0.53	0.42	0.31	0.1	8	24	1	2	12
131	NutriSync Zinc Plus (2 qt)	-1	-0.1	0.5	0.23	0.06	-0.6	0	1	8	189	-2	-4
234	NutriSync Zinc Plus (2 qt)	0	-0.1	-0.4	0.4	0.21	-0.5	0.01	3	24	-16	-5	-2
330	NutriSync Zinc Plus (2 qt)	0	0	0.4	-0	-0.1	-0.6	-0	40	-22	-2	4	3
133	RiseR (2 gal)	-0.3	0.01	0.7	-0.4	-0.4	-1.5	-0.1	15	-37	1	1	-5
233	RiseR (2 gal)	-0.1	-0.1	0	0.06	0.2	0.17	0.07	36	12	0	1	6
331	RiseR (2 gal)	-0.4	-0.2	0	0.27	0.35	-0	0.14	13	7	11	0	14
134	RiseR (5 gal)	0.1	-0	0.8	0.06	-0.4	-1.5	0	63	22	22	2	-7
232	RiseR (5 gal)	-0.6	-0.1	0.4	0.53	0.48	0.27	0.28	47	37	23	5	13
333	RiseR (5 gal)	-0.8	-0.3	0.2	0.69	0.51	0.66	0.09	77	30	8	1	12

# Non-Traditional Products...



**2013**

**Tissue: Sugarbeet - All Stages**

Grower Name METZGER  
 Field Name 617  
 Crop Sugarbeet  
 Sample Date 8/19/2014

Test Date 8/19/2014  
 Field Rep Kristine Tedrow  
 Sample ID 13659  
 Subfield



**2014**

	Very Low	Low	Optimum	High	Excessive	
Total N	3.50					Optimum
Total P	0.28					Task Force-2 @ 1 qt/A or Riser 1 gl/A if micros lo
Total K	3.40					Optimum
Macronutrients	Very Low	Low	Optimum	High	Excessive	
Ca	0.93					Optimum
Mg	0.65					Optimum
Na	2.73					Optimum
S	0.45					Optimum
Micronutrients	Very Low	Low	Optimum	High	Excessive	
Zn-ppm	42.00					Optimum
Mn-ppm	76.00					Optimum
Fe-ppm	91.00					Optimum
Cu-ppm	13.00					Optimum
B-ppm	34.00					Optimum
Petioles	Very Low	Low	Optimum	High	Excessive	

Very Low
Low
Optimum
High
Very High

Comments:

**Before**

**Tissue: Sugarbeet - All Stages**

Grower Name METZGER  
 Field Name 617  
 Crop Sugarbeet  
 Sample Date 8/28/2014

Test Date 9/2/2014  
 Field Rep Kristine Tedrow  
 Sample ID 14270  
 Subfield



	Very Low	Low	Optimum	High	Excessive	
Total N	3.40					N-Pact @ 1 gls/A or Riser 1 gl/A if micros low
Total P	0.34					Optimum
Total K	4.00					Optimum
Macronutrients	Very Low	Low	Optimum	High	Excessive	
Ca	0.92					Optimum
Mg	0.71					Optimum
Na	1.90					Optimum
S	0.48					Optimum
Micronutrients	Very Low	Low	Optimum	High	Excessive	
Zn-ppm	74.00					Optimum
Mn-ppm	97.00					Optimum
Fe-ppm	66.00					Optimum
Cu-ppm	14.00					Optimum
B-ppm	29.00					Optimum
Petioles	Very Low	Low	Optimum	High	Excessive	

Very Low
Low
Optimum
High
Very High

Comments:

**After**

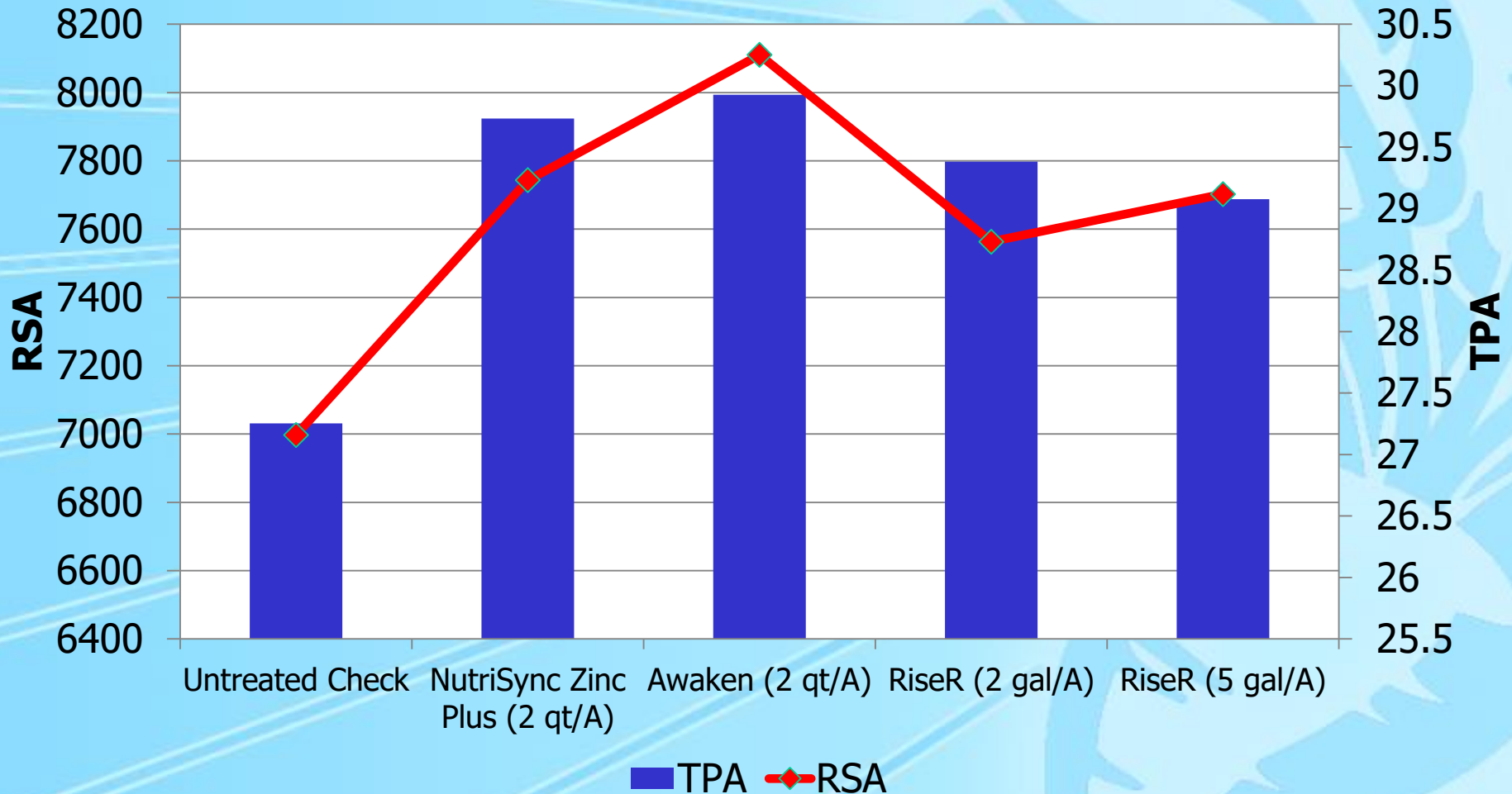
- Awaken
- NutriSync Zinc Plus
- RiseR (2 & 5 GPA)
- Check



# Non-Traditional Products...

Treatment Applied	Difference											
	Total	Total	Total	Macronutrients				Micronutrients				
	N	P	K	Ca	Mg	Na	S	Zn	Mn	Fe	Cu	B
Awaken (2 qt/A)	0.6	-0.06	0.1	0.04	0.01	-0.02	0.04	133	8	11	5	4
Awaken (2 qt/A)	-1.2	-0.17	0.1	0.08	0.05	-0.15	-0.03	50	-2	-34	-1	-13
Awaken (2 qt/A)	1.2	0	0.3	0.1	0.12	-0.27	0.12	88	12	27	9	6
Awaken (2 qt/A)	-0.2	0.01	1.2	0.54	0.49	0.88	0.2	80	66	-6	2	8
NutriSync Zinc Plus (2 qt/A)	-0.1	0.02	1.1	0.26	0.22	-0.55	0.06	80	45	-10	4	4
NutriSync Zinc Plus (2 qt/A)	-0.3	-0.08	0.4	0	-0.06	-0.3	-0.05	20	-7	-33	3	-2
NutriSync Zinc Plus (2 qt/A)	0.8	0.02	-0.3	-0.42	-0.42	-1.01	-0.07	19	-37	-1	4	-32
NutriSync Zinc Plus (2 qt/A)	0.7	-0.02	0.6	0.45	0.35	0.43	0.17	55	26	26	7	9
RiseR (2 gal/A)	-0.1	0.06	0.6	-0.01	0.06	-0.83	0.03	32	21	-25	1	-5
RiseR (2 gal/A)	-0.3	0.07	1.4	0.26	0.24	0.01	0.11	52	12	-3	6	12
RiseR (2 gal/A)	0.2	-0.09	1.1	0.21	0.05	0.11	0.11	18	13	-5	3	-1
RiseR (2 gal/A)	0.5	-0.02	-0.6	0	-0.01	-0.38	0.02	54	-10	-6	6	-9
RiseR (5 gal/A)	-0.9	-0.08	0.9	0.2	0.2	0.95	-0.04	9	7	-40	-3	-2
RiseR (5 gal/A)	-0.7	-0.01	0.5	0.04	-0.09	-0.2	-0.05	24	-12	-20	4	-7
RiseR (5 gal/A)	0.3	0.04	0.8	0.21	0.16	0.1	0.12	56	9	10	5	2
RiseR (5 gal/A)	0.2	0.06	0.6	0.02	0	-0.39	0.07	36	7	19	9	9
Untreated Check	-0.1	-0.01	-0.4	-0.2	-0.23	0.16	-0.07	-4	-21	-22	0	-10
Untreated Check	1.2	0.14	0.7	-0.4	-0.24	-1.32	-0.03	12	-32	-3	7	-14
Untreated Check	0.3	-0.04	0.3	0.15	0.04	-1.22	-0.04	-4	-21	-28	0	1
Untreated Check	0.5	0	-0.1	-0.19	-0.14	-0.4	-0.1	-7	-23	-33	-4	-2

# Non-Traditional Products...



**2014**