C·J Metalosate

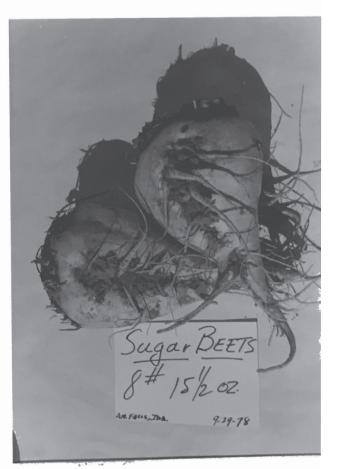
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Balchem[®] Plant Nutrition Research Paper



Treated beets grew well all summer.

27.8 tons per acre 16.9% sugar content



Investigator: Bud Sanford

Grower: Anderson Area: Bellrapids, Idaho

> Crop - Sugar Beets Acreage - 160 treated 240 control

Pre-planting

Treated

Control

150 Units N Per acre 75 Units P Per acre 25 lbs. Texal Contains 25% sulfur 25% calcium

300 Units N Per acre 150 Units P

At Planting

16 oz. Albion Foliar Manganese Metalosate * Broadcast 16 oz. Albion Foliar Iron Metalosate *

Foliar Application (Sugar beets approx. 8" tall)

16 oz. Albion Foliar Manganese Metalosate *
16 oz. Albion Foliar Iron Metalosate *
6 oz. Crop Plus
5 lbs. elemental sulfur

Results

Treated

Control

26 tons per acre 17% sugar content

19 tons per acre 13% sugar content

Evaluation: The application of sulfur and metalosates * increased the yield by 7 tons per acre and sugar content 4% over controls on 140 less units nitrogen.

	2043 KI	TEST, INC MBERLY ROAD .5, IDAHO 83301 208) 734-2303	D.		REPORT NUMBER: DATE RECEIVED: DATE REPORTED:	T 25026 9/16/78 11/16/78		
LAIL REPORT TO								
		LABORATORIE	99. 4 10	SAMPLED FOR:	ANDER	SON-WILSON		
	101 NO	MAIN	C/O ASHMEAD					
	CLEARFI	ELD, UT	84015					
AMPLE TYPE: SUGAR BEETS AMPLE IDENTIFICATION: ROOTS, LARGE BEETS						DATE SAM	PLED:	
	Protein, %		and an and all the	LAB RESULTS		DESIR	ABLE LEVEL	
Digestib	e Protein, %							
Total N Crude F	at, %							
Lignin								
Ash, °o Nitroge	n Free Extract ((NFE), %						
Total D I Dry Ma	igestible Nutrier tter, °o	nt (TDN), %						
Moistur Nitrate	e, º'o							
Phospho Potassiu	prus, °o							
Calcium	, °′o							
Sulfur,								
Sodium	°6 as:, 6,	'c		17.5				
Zinc, p. Iron, p.								
	nese, p.p.m.							
Boron,	p.p.m. lenum, p.p.m.							
Cobalt,	p.p.m.							
Selenior	m, p.p.m.							
ed on sample moisture plus dry matter as 100%. All other results are reported on a dried sample basis. Parts per million.								
bort is for the exclusive use of the client(s) to whom it is addressed. Its communication or disclosure to others or use in advertising is not ted. These results refer only to the specific sample tested and not to other apparently similar material. Unused sample portions are re- for a maximum of 30 days unless other arrangements are agreed to. 17								

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AGRI-TEST, INC. REPORT NUMBER: 2043 KIMBERLY ROAD T 25024 TWIN FALLS, IDAHO 83301 DATE RECEIVED PHONE (208) 734-2303 9/16/78 DATE REPORTED: 11/16/78 AAIL REPORT TO: ALBION LABORATORIE SAMPLED FOR ANDERSON-WILSON 101 NO MAIN C/O ASHMEAD CLEARFIELD, UT 84015 SAMPLE TYPE: SUGAR BEETS SAMPLE IDENTIFICATION: ROOTS, SMALL BEETS Crude Protein, % Digestible Protein, % Total N, % Crude Fat, % SUGAR BEETS DESTRABLE LEVEL Crude Fat, % Crude Fiber, ºo Lignin, % Ash, % Nitrogen Free Extract (NFE), % Total Digestible Nutrient (TDN), % : Dry Matter, °o Moisture, ºo Nitrate, p.p.m. Phosphorus, % Potassium, °o Calcium, % Magnesium, °o Sulfur, % Sodium, % Servere, Cro 12.01 Zinc p.p.m. Iron, p.p.m. Manganese, p.p.m. Copper, p.p.m. Boron, p.p.m. Malybdenum, p.p.m. Cobalt, p.p.m. Selenium, p.p.m. d on sämple moisfure plus dry matter as 100%. All other results are reported on a dried sample basis. arts per million. ort is for the exclusive use of the client(s) to whom it is addressed. Its communication or disclosure to others or use in advertising is not an Theorem 1997 and the client of the client of the model of the model of the model of the second of the second td. These results refer only to the specific sample tested and not to other apparently similar material. Unused sample portions are re-tria materials

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Investigator: Richard Michaelson

Grower: Wade Povey Aberdeen, Idaho

Crop - Sugar Beets

Number Acres: Field #1 - 30 Field #2 - 160

History: Field #1 is a very alkaline soil. It has a very low calcium content too.

Previous year, grew potatoes on this 30 acres. The yield was very poor.

Field #2 was across the road. It was much better soil since drainage from Field #2 migrated to lower levels (Field #1) thus contributing to alkalinity on Field #1.

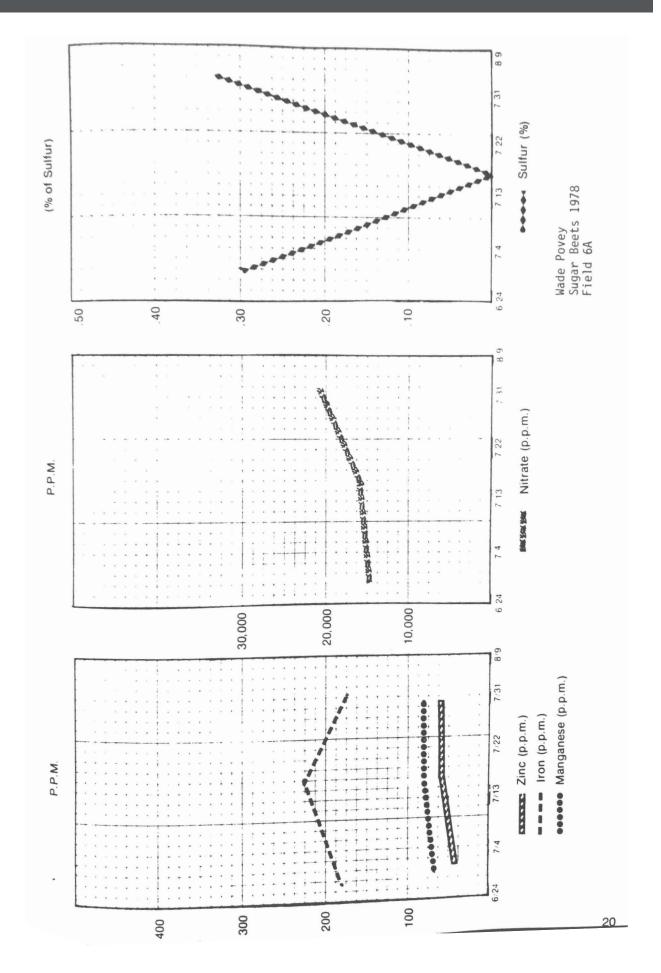
Pre-plant preparation: 120 - 140 units N, 100 units P is customary in Aberdeen area for sugar beets. However, due to poor soil, owner applied 250 units N to both fields.

Beets grew very slowly. On 6/10/78 beets were visibly very sick. On June 30, applied to Field #1, 4 lbs. Texal, 16 oz. Albion Foliar Zinc Metalosate^{*}, 16 oz. Manganese Foliar Metalosate^{*}, 4 lbs. Foliar Nutrient and 3 lb. sulfur.

Results: Field #1 yielded 23.7 tons/acre. Grower felt 17 tons would be maximum.

Sugar content - 13.2%.

Yield Field #2 on better ground and without foliars yielded ¹/₂ ton less per acre and sugar content averaged 16.5%.



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ALBION LABORATORIE	SAMPLED FOR	
IUI NU MAIN CZO ASHMEAD		
CLEARFIELD, UT 84015		
SUGAR BEETS NIPLE TYPE. RUDTS, AM FALLS	LAB RESULTS	DATE SAMPLED DESTROBLE LEVEL
Crude Protein 10 Digestible Protein. 10 Total N 10 Crude Fat. 10 Crude Fiber 10 Nitragen Free Extract (NFE), 70 Total Digestible Nutrient (TDN), 70 Total Digestible Nutrient (TDN), 70 Dry Matter. 10 Moisture. 10 Nitrate. p. p. m. Phospharus. 10 Potassium. 10 Calcium. 10 Sulfur, 70		
Sodium, % Succept, pp.m. Iron, pp.m. Manganese, pp.m. Copper, pp.m. Boron, pp.m. Molybdenum, p.p.m. Cobalt, pp.m. Selenium, pp.m.	13.	
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