

## Sugarbeet Spacing Test

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Phil Ladra Farm, Rainbow Valley, Arizona

Elevation: 1100 feet

### Crop History:

Planted: September 23, 1971 2 rows per bed  
 Thinned: October 25, 1971  
 Harvested: June 26, 1972  
 Soil Type: Sandy loam  
 Previous Crop: Wheat  
 Insecticide: 1/3 lb. Lannate per acre - for Army Worms  
 October  
 15 lbs. Thimet per acre - for Aphid control  
 February 11  
 Herbicide: RoNeet preplant  
 Fertilizer: Side dressed 40 lbs. nitrogen and 50 lbs. P<sub>2</sub>O<sub>5</sub>/acre  
 preplant  
 Side dressed 45 lbs. nitrogen per acre as urea  
 November 7  
 Side dressed 50 lbs. nitrogen per acre as ammonium  
 nitrate February 10  
 Side dressed 33 lbs. nitrogen per acre as ammonium  
 nitrate April 4  
 Total: 178 lbs. nitrogen per acre SO P<sub>2</sub>O<sub>5</sub>/acre  
 Irrigation: Preplant September 10, additional irrigations:  
 September 25, September 30, October 8, October 16,  
 October 28, November 10, December 1, December 21,  
 January 14, February 10, March 3, March 21, April 7  
 April 20, April 27, May 3, May 13, May 19, June 2.  
 Rainfall: June 9, 3/4"  
 Total water to grow crop: 6 acre feet per acre

Spacing (inches in row)	Field Beets (lbs./plot)					Field Beets (T/A) $\frac{1}{2}$	Sucrose (%) $\frac{1}{2}$	Sucrose (lbs/acre) $\frac{1}{2}$
	Rep. 1	Rep. 2	Rep. 3	Rep. 4	Ave.			
8.1"	630	532	549	576	572	37.4 a	13.6 a	10180 a
10.6"	687	572	433	488	545	35.6 a	13.9 a	9900 a
13.3"	708	558	467	454	547	35.8 a	12.9 a	9240 a
19.8"	602	509	448	432	498	32.5 a	13.2 a	8580 a