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Yields of the Field Experiments 1939-1947 Volume 2



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U Kok-saghyz

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KOK - SAGHYZ

Hoosfield 1943

Taraxacum kok-saghyz is a dandelion Effects of fertilizers and spacing. found wild at an altitude of 7,000 feet in Kazakstan and cultivated in Russia as a source of latex. The rubber content of the roots is about 4% and 200 lb. per acre of rubber has been obtained in Russia.

Design; 12 randomized blocks of 4 plots each, certain interactions being confounded between blocks.

Area of each plot: For early harvesting, 0.00055 acre; for late harvesting, 0.00179 acre.

Treatments

Sulphate of ammonia: None, 0.6 cwt. N per acre (0.2 cwt. N in Autumn and 0.4 cwt. N in Spring).

Superphosphate: None, 0.6 cwt. P205 per acre Muriate of potash: None, 1.0 cwt. K20 per acre.

Spacings (applied to blocks): 18" between rows, 4" in row (i.e. between adjacent plants)

18" between rows, 8" in row. 12" between rows, 12" in row.

Crop Notes

Seed sown: Oct. 16. This sowing was not successful and the crop was Harvested: Sept. 7 ('Early') and Nov. 8 ('Late'). resown on March 22. Previous crop, Ryegrass.

Standard errors: between blocks, applicable to spacings:

Roots (early harvest) 1.56 cwt. per acre or 20.5%, 6 d.f. Roots (late harvest) 1.64 cwt. per acre or 16.2%, 6 d.f.

applicable to artificials:

Roots (early harvest) 1.47 cwt. per acre or 19.4%, 18 d.f.

Roots (late harvest) 3.63 cwt. per acre or 35.9%, 18 d.f. Plant number (early harvest) 9.51 thousands per acre or 19.9%, 18 d.f. Plant number (late harvest) 7.27 thousands per acre or 16.1%, 18 d.f.

The seed used for the second sowing had been soaked and kept at 0°C for 14 days. This treatment increased the field germination (50% germination in 2 days compared with 5 days for untreated seed).

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Kok-Saghyz

Differential Responses

ondsign a si sis	Mean	Sulph. amm. Abs. Pres.		Superphosphate Abs. Pres.		Mur. Abs.	Pot. Pres.
Roots, early harvest, cwt. per acre. Mean, 7.6							
	±0.42		od sam red	±0.59			
Sulphate of ammonia	0.0		4.16				1.3
Superphosphate Muriate of Potash	0.1		1 0.1 4 2.2			-0.4	0.6
Roots, late harvest, cwt. per acre. Mean, 10.1							
Culmbata of ammonia				1		0.1	0 (
Sulphate of ammonia Superphosphate	0.5	-1.	7 0.9	-0.8	1.0	0.4	0.6
Muriate of Potash	0.1	0.		-0.1	0.3		
Plant number, early harvest, thousands per acre. Mean, 47.9							
	±2.75 ±3.88						
Sulphate of ammonia	-4.2			-0.6	-7.8	-4.4	-4.0
Superphosphate Muriate of Potash	0.5	4.	1 -3.1	1.5	77	-2.6	3.6
Plant number, late harvest, thousands per acre. Mean, 45.1							
THE COST WITH BEING	±2.10			±2.97			
Sulphate of ammonia Superphosphate	-8.2 1.9	1	0 2.8	-9.1	-7.3	- 5.9 - 0.6	-10.5
Muriate of Potash	2.2		5 -0.1	-9.1 -0.3	4.7	-0.0	4. 4
Plant no							
	Roots, cvrt.per acre thous.per acre						
Spacing			Early	Late	Early	Lat	е
			±0.78	±0.82		9 9 9	
18" between rows, '4" in row			7.6	9.5	48.2	47.	0
18" between rows, 8" in row			6.7	9.9	40.8	40.	1
12" between rows, 12" in row			8.5	10.9	54.7	48.	3

The first spacing involved a seed-rate per unit area double that of the other two spacings.