

FIELD EXPERIMENTS 1965

eNS/0954

Serial No. A. 5

Stat. File 9 IV

Crop: Sugar Beet

Field: Beeston Hyrne

Experiment: Wide spacing demonstration plots

Treatments and Layout: 5 treatments in single demonstration strips

- A. Sharpes Klein 'E' rubbed and graded 8-10/64ths @ 5" spacing
- B. Sharpes Klein 'E' pelleted 9-12/64ths @ 5" spacing
- C. Triplex rubbed and graded 8-10/64ths @ 5" spacing
- D. Triplex pelleted 10-13/64ths @ 5" spacing
- E. Bush Johnson genetic monogerm pelleted 9-12/64ths @ 5" spacing

Plot size: Treatment: 20 rows at 20 inches x length of field

Harvest: Hand : 9 samples of 2 adjacent rows of 5 yards
Machine: 12 rows at 20 inches x 725 ft.

Manuring with dates of: 5 cwt Kainit ploughed in
30 cwt lime
7 cwt 20: 10 : 10

Date of drilling: 8th April Variety: As above

Date of spraying: 8th April - Pyrazon Band sprayed @ 2.8 lbs a.i. per acre

Date of 100" counts: 25th May

Date of weeding: 17th June hand hoed to remove weeds only

Date of final plant populations counts: 23rd July

Date of bolter counts: 6th December

Date of hand harvesting: 8th December (S.K.E. pelleted and Bush pelleted only)

Date of machine harvesting: 20th and 21st December (S.K.E. pelleted and Bush pelleted only)

Remark:

Mean time taken to weed the plots was the equivalent of 5 hours 40 minutes per acre.

100" Counts 25th May

Variety and Treatment	Total Beet Inches	Singles	Doubles	Percentage		Plant counts at Emergence
				Singles	Doubles	
Sharpes Klein E Rubbed & graded	7.95	4.50	3.45	56.6	43.4	24,900
Sharpes Klein E Pelleted	8.30	5.60	2.70	67.5	32.5	26,000
Triplex Rubbed & graded	7.90	6.05	1.85	76.6	23.4	24,800
Triplex pelleted	7.55	5.70	1.85	75.5	24.5	23,700
Bush-Johnson Genetic Monogerm Pelleted	9.95	9.70	0.25	97.5	2.5	31,200

Final Plant Populations (July 23rd)

Variety and Treatment	Populations
S.K.E. Rubbed and Graded	21,200
S.K.E. Pelleted	24,300
Triplex Rubbed and Graded	23,100
Triplex Pelleted	24,800
Bush Pelleted	27,800

Summary of YieldsHand Lifted

	S.K.E. Pelleted	Bush Monogerm Pelleted
Yield Clean Beet tons/acre	20.2	15.1
Sugar Percentage	15.6	14.8
Yield Sugar cwt/acre	63.0	45.0
Dirt Tare Percentage	16.0	19.8

Machine Harvested

	S.K.E. Pelleted	Bush Monogerm Pelleted
Yield Clean Beet tons/acre	17.2	13.1
Sugar Percentage	16.0	15.4
Yield Sugar cwt/acre	55.0	40.3
Percentage Undertopping	2.7	1.6
Weight of Gleanings tons/acre	1.7	2.2
Dirt Tare Percentage	10.3	11.9

Bolter Counts (7th December)

Treatment	Numbers per acre	as % Bush pelleted
S.K.E. rubbed and graded	316	15.1
S.K.E. pelleted	229	10.9
Triplex rubbed and graded	1,766	84.2
Triplex pelleted	1,180	56.3
Bush monogerm pelleted	2,097	100.0