

SUGAR BEET

ASSESSMENT OF PELLET TYPE

NAS 142 ML 73

SUMMARY

At the first count Knolle I gave the lowest percentage establishment and Knolle III the highest, Knolle I gave the lowest final seedling establishment.

OBJECT

To assess the effect of pellet type on percentage germination, rate of seedling emergence and establishment.

TREATMENTS

0=Rubbed and graded.
1=Knolle I
2=Knolle II
3=Knolle III
4=Kultura Standard
5=Kultura
6=Germain 4.00 - 5.00mm.
7=Cérès
8=Maribo
9=Hilleshog I

LAYOUT

4 randomised blocks
Plot size 1 row x 163' x 20in.

SOIL TYPE

Ashley (sandy clay loam.) Field Skippers

BASAL MANURING

5 cwt per acre kainit. 20 September
5 cwt per acre 23-10-11. 13 March
2 cwt per acre Kieserite. 13 March

VARIETY

Monohill. The same stock used for all pellet types.

SUGAR BEET

THE PERFORMANCE OF DIFFERENT TYPES OF PELLETT (NAS 142 ML 73)

Method

The pellets were drilled on 17 April into a stale but fine and firm seedbed. As the pellets did not differ greatly in size the same belt (Belt 16, hole 18) was used to drill all the pellets at 6.25in. spacing. The rubbed and graded seed was drilled using belt 13, hole 18 at the same spacing using a Stanhay Mark II precision drill. 320 seeds were placed in each unit and those remaining after 157ft were counted and removed. Pellet type was randomised between seeder units of the drill. Weed control was achieved by an overall application of pyrazone at 2.2lb a.i. per acre.

Results

Pellet type	% Seedling Establishment	
	8 May	18 May
	(± 3.88)	(± 3.69)
Rubbed and graded	58.3	67.5
Knolle I	36.0	55.4
Knolle II	58.1	73.5
Knolle III	64.4	72.7
Kultura Standard	48.8	63.6
Kultura	51.3	62.4
Germain	58.5	68.2
Ceres	56.2	69.8
Maribo	53.0	68.0
Hilleshog I	56.0	67.3
S.E. per plot (27df)	± 7.76	± 7.38
as % G.M.	14.4	11.0

1. There was little evidence of any difference in the rate of seedling emergence between the pellet types or the rubbed and graded seed. At the first count on the 8 May the Knolle I pellet gave the lowest seedling numbers whilst the Knolle III pellet gave the highest.

2. With the exception of Knolle I the final seedling establishment from all pellets were at least as good as from the rubbed and graded seed.

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