

FIELD EXPERIMENTS 1969

Serial No. 33

Stat. File 6 IV

CROP: Sugar Beet

Field -

EXPERIMENT: Assessment of Seed types I

TREATMENTS AND LAYOUT:

3 Randomised blocks.

All combinations of

1. 4 types of Manotri beet seed

- Raw seed
- Knolls pelleted seed
- Link " "
- Tullin " "

2. 3 moisture levels

Plot Size: Treatment: } Each plot consisted of a 5" x 6" x 2" deep  
 plastic seed box, containing 50 seeds  
 Harvest: }

~~XXXXXXXXXXXXXXXXXXXX~~  
 Manuring with dates of:

~~XXXXXX~~  
 Date of

~~XXXXXXXX~~  
 variety:

Commencement of trials: August 28th

Remarks:

The compost used was made from 1 cwt of Fisons Garden Peat + 56 lbs of sieved Morley loam.

Moisture levels were obtained as follows:

- A. Left damp with no further watering.
- B. Kept moist by light watering every 2-3 days
- C. Kept at field capacity by watering every day

~~XXXXXX~~  
 Remark:

Field capacity = 169 gms H<sub>2</sub>O per 100 gms dry soil

Moistures on August 28th      A = 44.6% Field capacity  
    B = 93.0% F.C.  
    C = 100% W.C.

Assessment of Seed X

% Germination at 7 days

Seed type	Soil moisture conditions			Means ± 0.81
	A.	B.	C.	
Raw M notes	42.0	22.7	17.3	27.3
Knolle	53.3	4.7	0	19.3
Linx	53.3	34.7	3.3	30.4
Tullin	62.0	18.7	3.3	28.0
Means	52.7	20.2	6.0	
	± 0.73			

S.E. per plot = ± 2.52 or 9.59%

% Germination at 12 days

Seed type	Soil moisture conditions			Means ± 1.53
	A.	B.	C.	
Raw Menet#1	63.3	41.3	38.0	47.6
Knolle	84.0	20.7	0.7	35.1
Linx	85.3	56.0	13.3	51.6
Tullin	89.3	40.7	5.3	45.1
Means	80.5	39.7	14.3	
	± 1.33			

S.E. per plot = ± 4.60 or 10.27%

Assessment of seed I

% Germination 14-28 days (when trays left to dry out)

Seed type	Soil moisture conditions			Means ± 1.58
	A	B	C	
Raw Monstri	0	0.7	5.5	2.0
Knolle	0.7	16.0	8.7	8.5
Linn	0	2.0	8.7	3.6
Pullin	0	3.5	8.0	3.8
Means	0.2	5.5	7.7	
± 1.37				
± 2.78				

1.5% per plot ± 4.7%