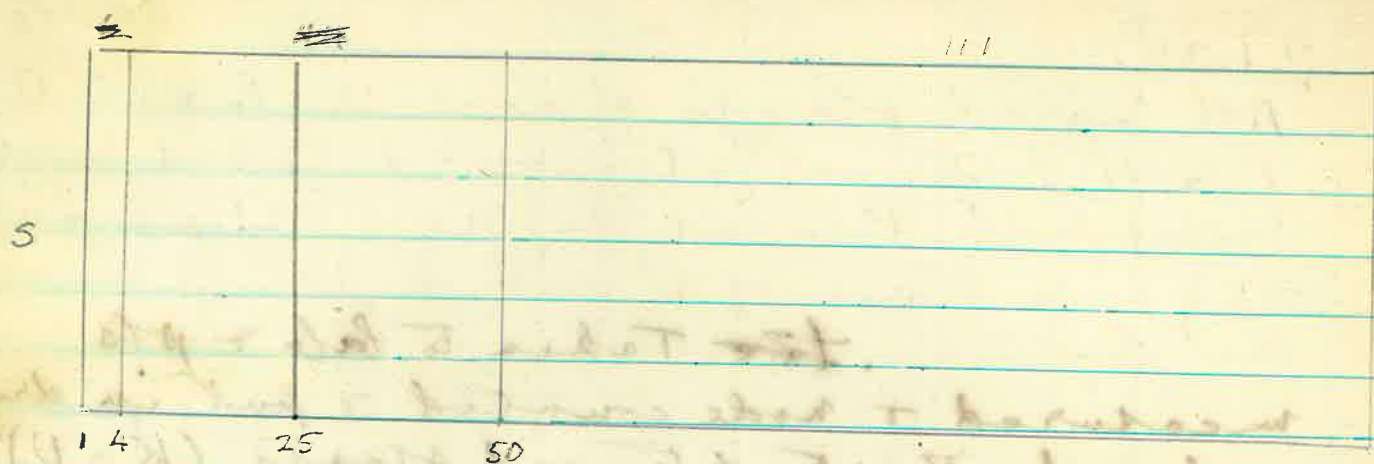


C3a



Rather rough & fair number of depressions
? due to insufficient harrowing.

22.11.34.

50 lines (right across) from S end
hand planted with 920 S.B. acid
treated seed at 3 seeds per hole.
2' X 3'6" spacing.

23.11.34.

Rest of field planted as above.

26.11.34.

Germination counts on 16 of the lines
(planted 22.11.34.) at 5.30 p.m. More than
50% showing but most of them only
just showing. ∴ 26.11.34 may safely
be taken as germination date.

4.1.35.

Thinned to one per hole.

5-6.1.35.

All plants of rows Nos 4-25 (from S end)
tagged. Plants of No 25 tagged Z1, Z2, Z3 --
-- Z84 from E to W. No 24 similarly tagged
A1 A2 etc; No 23 B1, B2 etc; -- No 4 tagged
U1, U2 etc..

7.1.35.

All tagged plants of rows Z, A, B, C, D, E, F, G, H, I, J cut ^{at} ground level before breakfast. Placed in trays (21 pls per tray) in tiers of 4 with sack ~~over~~ over the top tray. ~~the~~ Taken to lab & pls measured & node counted & put in drying cupboards. Rest of tagged plants (K-V) cut after breakfast & put in large billy cans (21 per can) & taken to lab. All cut by about 11.30 am. The plants of rows Z-J all measured & put in drying cupboards before lunch but rather wilted nevertheless, especially the top trays (i.e. plants Nos 64-84), ~~although~~. The plants of rows K-Q measured & put in drying cupboards during afternoon.

8.1.35

Plants of rows R-V measured & put in drying cupboards ~~At~~ in morning. All perfectly fresh. Seems probable that loss in wt. due to respiration overnight would not be important. (N.B. of Ht/dry wt ratios of rows killed yesterday with those killed today).

10.1.35.

Lamps in drying cupboard put out at 5 pm. All ~~the~~ plants appeared perfectly dry & had done so since 9.1.35 in morning.

12.1.35.

Z & A Transferred to paper bags & strung up.

29.1 - 2.2.35

All plants of rows 27-48 (from S end) tagged. Plants of No 48 tagged a1 a2 a3 -- a83 & 84 from E to W. No 47 similarly tagged b1 b2 etc. No 27 tagged v1 v2 etc.

4.2.35.

All tagged plants of rows a b c d e f g h cut off at ground level before breakfast. Placed in trays (five trays per row) & taken to lab, each tray separately. No covering used. Rest of tagged plants cut after breakfast — i to o put in trays (four per row) & p to v put in large billy cans (six per row). The plants of rows a - o all measured & put in drying cupboards. The later rows somewhat wilted, but not seriously as it was a cool day.

5.2.35.

Plants of rows p - v measured & put in drying cupboards. Plants all unwilted but had great tendency to shed leaves & squares on handling. As far as possible the shed ls & sqs placed with the plants from which they came, but some loss unavoidable.

Note. The plants of C3a very irregular in size but did not appear more so than on many of the experiments e.g. Protⁿ (loam) a & Comp Expt. If anything however, there was ^{slightly} more irregularity between adjacent plants (as distinct from good & bad "patches") on C3a than on the expts i.e. correlation between adjacent plants would be less on C3a*.

Note.

Plants cut 7.1.35 were a) put in drying cupboard until dry b) string up in paper bags ^{till June} c) oven dried for at least 8 hrs aggregate (& at at least 2½ hrs immediately before weighing) d) weighed on 5g Joly balance & wts recorded in cms (1 cm = .168 grams)

the good & bad patches (See air photo)

* This impression may have been due to Protⁿ (loam) expt. C2a & old road on C2a

All the plants of one row were dried at the same time & in the same oven, but the early numbers were weighed first i.e. the late numbers had longer cooking (further loss in weight on re-cooking negligible, however).

Plants cut 4.2.35 were a) put in drying cupboard until dry b) strung up in paper bags in chemistry lab until July c) weighed ~~in~~ on beam balance to 0.1 gm (using the 0.05 g weight). During ^{all} the time weighings were being done ~~for~~ no ovens were going in the Chem. lab so that the temperatures or humidity conditions all over the ceiling should have been similar. Weighings done in July & Aug

Note:

Compactness Expts: 7 row plots (2' x 3'6" spacing). Middle 22 pls kept for yields. 32 pls on each side of these used for samples. 2 plants at each end as edge plants. Total 90 plants in a row.

Rotation Expts: 11 row plots (2' x 3'6" spacing). 3 edge plants at each end leaving 31 pls per row for samples.

Oven drying 6-8.3.35

Row A 1-20

cooked 10 am. to 5 pm. Wed.

9 am to 11.30 Thurs.

Row Z weighed. 11.30-4.45 pm.

cooked 9 am to 3 pm Fri.

Re-weighed: -

New wt 1st wt

13.40 13.50

10.80 10.90

12.95 13.00

2.60 2.50 Bad.

4.90 4.90

4.60 4.60

11.50 11.55

4.35 4.40 x x

3.50 3.55

3.25 3.25

i.e. for all except 26, 67 & 68

further loss is less than 1%.

The exceptions probably due to

loss of material.

Z 21-84 Cooked 10-5 Wed

9-5 Thurs 9-3.20 Fri. Then weighed.

Samples Plotⁿ (loam) a.

3.12.34

	IV				V				VI			
	Soy	M	T	S	M	C	C	Soy	F			
Start	38 16 9 38	36 27 1 44	23 47 29 3	44 23 44 23	49 34 16 37							
Fin	43 44 45 46	47 48 55 56	57 58 59 60	67 68 69 70	71 72							
	F	S	C	T	Soy	F	T	M	S			
Start	47 21 43 45	32 34 6 35	16 22 2 37	44 31 21 2	42 48							
Fin	37 38 39 40	41 42 49 50	51 52 53 54	61 62 63 64	65 66							

Begin in N.E. corner of each plot & count towards S. Random start 1-49 & then every 49th pl. until 7 taken. After 1st pl. move across to next row & back 13 pls (going back to previous row if necessary).

Samples Plotⁿ (loam) a.

3.12.34

	road											
	C	Soy	T	Soy	M	S	T	F	C			
Start	15 4 2 16	38 42 47 45	29 14 34 20	5 37 9 45	4 35							
Fin	7 8 9 10	11 12 19 20	21 22 23 24	31 32 33 34	35 36							
	S	M	F	T	C	F	S	Soy	M			
Start	22 23 43 38	45 13 32 43	20 18 25 19	1 6 40 47	14 30							
Fin	1 2 3 4	5 6 13 14	15 16 17 18	25 26 27 28	29 30							

Begin in NE corner of each plot & count towards S. Random start 1-49 & then every 49th pl. until 7 taken. After 1st pl. move across to next row & back 13 pls (going back to previous row if necessary).

C 3a. Germination counts 1934.
Planted 22.11.34

1722
1848

Full stand = 84.

50 lines

	6	11				11				11				lines				
Plows		5	9	10	11	1	6	9	10	2	6	8	9	3	4	6	8	
5-30pm Pls. 26.11.		73	73	65	73	69	72	56	72	62	58	56	67	59	71	64	59	5:30pm
Plows		1	2	6	9	1	3	8	10	2	5	7	11	2	3	4	8	88.5%
S Pls. 27.11		78	74	73	78	78	79	77	77	73	78	71	74	69	66	77	67	11:30am
Plows		1	4	9	11	2	7	8	9	1	6	9	10	1	8	10	11	12.400%
Pls. 29.11		80	78	82	78	83	80	80	80	71	72	76	72	75	73	80	70	91.5%

1189

1230
1344

C 39. Germination count of whole field

84.

4.12.34

Full stand = 84.

4.12.34.5/1/35

Row	Pls.	Pls	Row	Pls	Row	Pls	Row	Pls.
1	84	83	51	82	101	80	151	81
2	77	75	52	81	102	77	152	78
3	80	84	53	76	103	80	153	77
4 U	82	80	54	83	104	80	154	77
5 T	80	79	55	80	105	80	155	80
6 S	83	83	56	81	106	79	156	76
7 R	80	78	57	81	107	80	157	78
8 Q	82	81	58	82	108	78	158	75
9 P	82	79	59	82	109	77	159	78
10 O	79	74	60	81	110	80	160	79
11 N	84	83	61	83	111	74	161	79
12 M	78	79	62	79	112	77		
13 L	76	74	63	81	113	72		
14 K	80	77	64	77	114	74		
15 J	83	81	65	79	115	71		
16 I	80	78	66	81	116	80		
17 H	80	79	67	84	117	76		
18 G	81	79	68	77	118	74		
19 F	84	81	69	81	119	76		
20 E	82	78	70	79	120	73		
21 D	79	79	71	78	121	75		
22 C	84	82	72	78	122	76		
23 B	80	78	73	82	123	71		
24 A	82	82	74	74	124	73		
25 Z	83	83	75	81	125	76		
26	78	76	76	77	126	75		
27 b	84	82	77	75	127	74		
28 u	84	84	78	79	128	73		
29 c	80	80	79	82	129	76		
30 s	80	76	80	76	130	74		
31 n	82	82	81	78	131	77		
32 q	78	77	82	81	132	70		
33 p	83	83	83	80	133	69		
34 o	78	80	84	77	134	67		
35 m	82	79	85	81	135	67		
36 m	82	82	86	81	136	67		
37 e	82	73	87	81	137	73		
38 k	77	76	88	79	138	70		
39 j	84	83	89	79	139	76		
40 i	81	81	90	72	140	77		
41 h	80	78	91	80	141	72		
42 g	78	78	92	78	142	73		
43 f	82	82	93	80	143	66		
44 e	80	80	94	77	144	66		
45 d	83	80	95	76	145	80		
46 c	82	81	96	77	146	78		
47 b	79	78	97	82	147	79		
48 a	79	77	98	77	148	76		
49	81	81	99	81	149	80		
50	78	78	100	75	150	80		

94.58

29.135

93.29

80-81
78-79
< 78

96.62

96.82

96.52