80. P M Ganguli - Karimganj Farm. Assam.

BA -

103 Wynne Sayer. Imperial Agriculturalist, Imp Institute concerned.
of Agric Res. Pusa. India

W H Beckett Dept of Agric P O Box 299 Accra.

Uniformity trial changes since Catalogue went to press.

No 113	(2) wheat	R	instead of	N
No 49	Oats	R	- - -	N
No 29	Cotton	R	- - -	N.

New Paddy : enclosed.

Sugarcane: 710 plots, each 20 holes x 1 line 1C 50'x5'
= 1/175 a. TA nearly 6 acres.

H Evans. Sugarcane Research Station
Dept of Agric,
Reduit Mauritius

R

unpublished

Statistical analysis of a blank test of rice with suggestions for field technique

Li- Ying Shen. Agricultural Sinica. Vol I No 4 pp 107-150 Nanking 1934.

Rice 300 plots each (1 row x 14.25 feet)
1.5 feet bet. rows. N.

1.67
2.27

Keep in mind.

L F Chao.

The principles & practice of rice-breeding. (in Chinese)
J Agricultural Association of China No 114 1-52
July 1933.

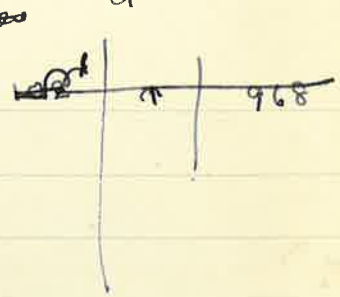
Prof H.H Love.

G			N			R		
Entry	No of trees	TNP.	Entry	No of trees	TNP	Entry	No of trees	TNP
1	6	246	W 5	1	50 tr	2	3	108
3	1	145	W 13	1	500 tr	8	1	2304
4	1	512 tr	16	1	60 ~~360~~ tr	14	1	2000 tr trees
6	1	184 tr	~~17~~	~~3~~	~~6912~~	20	1	36
7	1	390	W 25	2	400	24	1	490
9	2	158	28	1	1280	26	1	1200 tr trees
10	6	246	44	1	1050	27	7	3696 tr.
11	1	234	48	1	68	29	2	1152
12	1	96	64	2	176	30	1	480
15	5	145	~~69~~	~~4~~	~~658~~	31	2	1000
18	1	450	W 73	4	5560	38	1	300
19	1	46	W 74	1	51	39	1	250
21	1	438	W 76	3	300	55	1	36
22	1	120	79	1	—	Neem. 68	1	~~750~~
23	5	800	80	1	280	61	1	1000 trees
32	1	63	88 ~~88~~	1	400	89	2 ~~24~~	~~36~~ 72
33	1	200 tr. trees	W 92	2	200	98	1	600
34	6	180 tr	99	203	203 x 36	119	1	36
35	1	364 tr	~~not~~	1	~~324~~	129	1	1080
36	1	390	W 111	1	3100			
39	1	83	112	1	66			
40	11	1085	~~120~~	1	~~384~~			
41	1	30	126	1	94			
42	1	200	110	1	~~250~~ ($\frac{1}{2}$)			
43	2	325	101 cocoa	1	840 ($\frac{1}{2}$)			
				1	44 ~~360~~			

	G	
45	1	105 ?
46	1	600 ✓
47	3	140 ?
49	1	295 ✓
50	1	450 ✓
51	2	500 ✓
52	2	158 ✓
53	1	46 ✓
54	1	207 ✓
56	1	24 ✓
57	1	240 ✓
58	1	48 ✓
59	1	512 ✓
60	14	1610 ✓
61	1	124 ✓
62	3 ✓	1735 trees ✓
63	7	1351 tr ✓
65	1	760 ✓
66	1	144 trees
67	3	73 tr ✓
70	1	576 ✓
71	1	204 ✓
72	1	720 ✓
75	4	136 ✓
77	1	54 ✓
78	1	560 ✓
		22

Negra
68 1 750 ✓
NIAB
69 1 618 ✓
Fova
17 3 ✓ 6912 ✓
Waite
129 1 360
NY State genera
5 1 50 tr

168
500
668

	G			G		G
82	1	161 trees	116	1	30	
83	2	158	117	1	1280	
84	1	128	118	1	500	
85	3	138	120	1	224	
86	3	480	121	1	63	
87	1	2000	123	2	490	
90	1	30	124	1	48	
91	2	2422	125	1	1500	
93	1	46	127	1	124	
94	1	600	128	1	968	
96	1	416	101	1	~~1088~~ (½)	
97	2	192	G	134 Tot	29198	mean 218
98	1	48		26 Trees	5224	201.
100	1	1200				
102	1	48				
103	1 T	144 trees				
104	1 T	24 trees	N	23	13465	598
105	1	240		3	910	303.
106	1	35				
107	1 T	180 trees		20	11640	
108	1 T	320 trees	R	~~11604~~		on 582
109	1	390		3	15000	5000.
110		288 (½)				
113	1	160	G'	130	28530	219
114	1	450		30	5895	196
115	1	295				

Uniformity trial data

Alfalfa.	3	(11 sets)	Rice	6	(11 sets)
apples	3	(3 sets)	Rubber	2	(2 sets)
Barley	5	(4 sets)	Rye	1	(2 sets)
Barley Wheat	1	(1 set)	Seeds	1	(1 set)
Cocoa	2	(2 sets)	Silage corn	1	(3 sets)
Cloves	1	(5 sets)	Sorghum	4	(5 sets)
Corn	6	(9 sets)	Soy beans	2	(3 sets)
Fodder corn	1	(1 set)	Strawberries	1	(2 sets)
Cotton	6	(12 sets)	Sugar beet	5	(6 sets)
Grapes.	1	(1 set)	Sugar-cane	4	(206 sets)
Hops	1	(1 set)	Swedes	1	(1 set)
Lemons	1	(1 set)	Tea	1	(1 set)
Lentils	1	(1 set)	Timothy hay	2	(2 sets)
Mango	4	(13 sets)	Tomatoes	1	(1 set)
Marigolds	4	(5 sets)	Walnuts	1	(1 set)
Millet	2	(2 sets)	Wheat.	19	(21 sets)
Mushrooms	1	(3 sets)			
Oats	15	(30 sets)			
Oranges	2	(9 sets)			
Paddy	1	(2 sets)	40 crops	123 sets.	
Pasture	1	(1 set)			
Peaches.	1	(1 set)			
Pineapples	1	(3 sets)			
Potatoes	7	(10 sets)			

W.G.C.

You might note (in connection with your uniformity trial index) that O.V.S. Heath has done some measurements of height, node number & dry matter ~~over~~ on ~~individual~~ every cotton ~~plants~~ plants in an area, for the purpose of determining the best form of sampling unit. Heath is at present at Barberton but is probably leaving there shortly, & may be going to Imperial College.

F.Y.

Uses of uniformity trial data

(1) Optimum size and shape of plot. number of replications necessary to give a prescribed degree of accuracy

(2). Relative efficiency of different types of design: eg. r. b. & L.S. incomplete r.b.

Gain in accuracy by confounding ~~validity~~

(3) Questions of validity of Fisher's test etc.

Todin, Eden & Yates.

(4) value of a uniformity trial Sanders Murray.

Particular notes.

Metzger WH?

F Stewart: Missing hills in potato fields, their effect upon the yield.

Uniformity trials: Summary Sanders,

Taylor RA: Inter-relationship of yield and the various vegetative characters in Hevea ~~Brassica~~ Brasiliensia

Rubber!

260
104
364

Sugar - Cane : Sugar-Cane Research Station
Dept of Agriculture, Reduit.
Mauritius

See file Still 1 row x 20 holes.