

Please address reply to Pusa,  
Bihar.  
Telegrams :—"Dirasup", Pusa.  
Railway Station :—Pusa Road,  
B. & N. W. Ry.

No. 1310 of 1937.

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IMPERIAL DEPARTMENT OF AGRICULTURE IN INDIA.

FROM Arjun Singh, Esquire, L.Ag.,  
Imperial Agriculturist I/C.,  
Imperial Agricultural Research Institute,  
NEW DELHI.

TO

~~THE~~  
W.G. Cochran, Esquire, B.A.,  
Rothamsted Experimental Station,  
Harpden, Herts.

(England)

Dated New Delhi., the 21<sup>st</sup> June 1937.

Subject :—

SIR,

With reference to your letter dated 26/4/37 to the address of Mr. Wynne Sayer who is, at present, on leave, I enclose herewith a copy of the yield statement of Co. 205 (1st Sugarcane trial 960 plots) as desired by you.

I am also sending per separate post a copy of each of the following two reprints which I believe will be of interest to you.

1. Some of the Factors that influence the Error of Field Experiments with special reference to sugarcane.
2. Ideal size and shape of Sugarcane Experimental plots based upon tonnage experiments with Co. 205 & Co. 213 conducted in Pusa.

Yours faithfully,

*Arjun Singh*

Imperial Agriculturist I/C.



Tonnage Experiment with co. 205 at Harpur Jhilli (Pusa)

Each row is 3' apart and the cuts are 30' 3". The dimension of each section is therefore 30'  $\times$  3" x 3' which is equal to 1/480th of an acre.  
(Yield in pounds).

Sections	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Row 1	105.0	101.0	136.0	107.0	137.5	133.5	123.0	164.0	119.0	94.5	102.5	76.0	70.0	127.0	94.5	110.0	77.0	81.0	119.0	129.0
2	118.0	133.0	94.0	125.0	111.0	143.5	149.0	92.5	143.5	157.0	171.0	164.0	136.5	75.0	109.0	92.5	117.0	89.0	114.0	101.5
3	77.0	68.0	115.5	113.5	84.0	117.0	105.5	132.5	31.0	29.5	45.0	76.0	72.0	98.5	78.0	38.0	37.0	74.0	127.0	138.5
4	106.0	75.5	101.0	87.0	45.0	136.5	60.5	76.0	89.0	120.0	115.0	63.5	105.5	65.5	122.0	93.5	116.0	106.5	119.0	97.5
5	55.0	149.0	76.0	82.5	133.5	116.0	117.0	165.0	112.0	85.0	145.5	140.5	82.0	148.0	164.0	145.5	146.5	62.5	130.0	150.0
6	43.0	22.0	75.5	134.0	96.5	99.5	126.0	145.5	130.0	137.5	117.0	120.0	125.0	136.5	114.0	102.5	99.5	84.0	99.5	52.5
7	130.0	125.5	155.0	102.0	98.5	129.0	105.5	125.0	89.0	121.0	46.0	76.0	90.0	103.5	88.0	97.5	95.5	116.0	121.0	118.0
8	123.5	107.5	100.0	111.0	109.0	127.0	115.0	63.5	116.0	113.0	114.0	105.5	127.0	100.5	109.0	119.0	126.0	87.0	144.5	116.0
9	117.0	118.0	102.5	82.0	97.5	131.0	108.0	147.0	150.0	98.0	94.5	109.0	105.5	154.0	73.5	94.5	124.0	100.5	118.0	107.5
10	103.0	132.0	60.0	87.0	99.5	104.5	105.5	135.5	125.0	102.5	82.0	101.5	63.5	97.5	92.5	96.5	60.5	95.5	144.5	131.0
11	96.0	88.0	72.0	102.5	42.0	105.5	87.0	99.5	58.5	123.0	119.0	61.5	50.0	110.0	58.5	70.0	94.5	94.5	105.5	96.5
12	91.0	85.5	45.5	60.0	48.0	81.0	92.5	79.0	105.0	62.5	103.5	112.5	150.0	112.5	83.5	113.5	95.0	110.0	124.0	105.5
13	105.5	79.0	88.0	67.0	59.5	89.0	102.0	94.0	59.0	142.5	94.5	66.0	41.5	136.5	101.5	69.0	74.5	96.0	116.0	94.0
14	92.5	73.0	61.0	112.0	80.5	122.5	108.5	95.5	135.0	72.0	112.5	116.5	65.5	100.0	57.0	53.0	90.5	71.0	95.5	127.5
15	66.0	73.0	107.0	89.0	98.5	82.0	115.0	125.5	105.5	152.0	89.0	131.0	108.0	111.0	86.0	150.0	106.0	82.5	87.0	104.5
16	98.0	70.0	73.5	83.0	56.5	95.0	91.5	112.5	52.0	77.5	101.0	109.0	114.0	103.5	125.5	92.5	63.5	108.5	92.0	116.0
17	41.5	73.0	66.0	71.0	79.0	114.0	123.0	122.0	138.0	85.5	79.5	124.0	75.0	72.0	94.5	118.0	116.0	75.5	62.0	92.5
18	115.0	79.0	68.0	104.5	82.5	68.5	80.0	76.5	56.5	111.0	94.5	74.5	119.0	129.5	112.0	116.0	105.0	113.5	102.0	148.0
19	82.0	79.0	74.0	98.0	113.0	136.5	108.0	83.5	120.0	131.5	90.5	116.5	110.0	102.0	107.0	125.5	106.0	96.5	121.5	116.5
20	74.0	97.0	76.0	85.0	48.0	82.5	69.5	60.0	109.5	105.0	97.5	111.0	106.0	131.5	126.0	117.0	104.0	138.0	123.5	134.5
21	98.5	102.5	92.0	87.0	47.0	84.0	105.0	122.0	97.0	76.0	69.0	103.5	89.0	116.0	71.0	100.0	59.0	98.0	120.0	117.5
22	100.5	107.5	56.0	92.0	105.5	91.5	112.0	134.0	123.5	95.0	154.0	85.5	56.0	115.0	121.0	92.0	117.0	127.0	87.5	126.0
23	110.5	99.0	46.0	54.0	75.0	112.5	30.5	53.0	42.0	57.0	115.5	72.5	88.5	134.5	99.5	114.0	111.5	71.0	103.0	56.5
24	108.0	46.0	47.0	62.5	31.0	39.0	89.5	105.0	84.5	90.0	59.0	79.0	93.0	120.0	121.0	85.0	88.0	73.5	80.0	62.0
25	68.0	74.0	33.0	58.0	51.5	71.0	100.0	67.5	81.0	83.5	92.0	56.5	97.0	101.0	107.0	88.0	85.5	102.0	116.0	96.0
26	123.5	117.0	99.0	61.5	82.0	121.5	75.0	98.0	136.0	103.0	90.0	88.0	118.5	142.5	97.5	162.0	126.0	127.0	85.0	119.0
27	106.0	85.0	65.0	63.5	50.0	49.0	103.0	102.0	88.0	153.0	82.0	88.5	101.0	118.0	110.5	140.5	113.0	131.0	112.0	90.0
28	104.0	128.0	43.0	101.0	59.0	42.0	43.0	84.0	84.0	76.0	131.5	90.5	87.5	93.5	83.0	55.0	87.5	109.0	138.0	5.0
29	108.0	131.0	68.0	66.0	53.0	67.0	53.0	60.0	75.0	85.5	84.0	78.0	75.5	134.0	137.0	72.5	91.0	88.0	81.5	154.5
30	95.0	110.0	144.0	119.5	66.0	51.0	78.0	83.5	109.0	112.5	84.5	105.5	32.5	68.0	87.0	70.0	80.0	96.5	127.0	52.5
31	120.0	97.0	77.0	88.5	53.0	28.5	45.0	127.0	120.0	135.0	120.5	116.0	121.0	97.0	135.0	102.5	96.0	136.5	85.0	166.0
32	83.0	95.0	74.0	77.0	37.0	32.0	40.0	57.0	134.0	106.0	85.0	104.5	75.0	117.0	90.0	96.0	93.0	86.5	130.0	55.0
33	123.0	69.5	56.0	59.0	26.0	46.0	60.5	52.5	21.5	81.0	87.0	111.5	136.5	121.0	80.5	92.0	124.0	106.5	115.0	125.5
34	100.0	118.5	82.0	40.0	46.0	12.0	35.5	37.0	89.0	97.0	68.5	45.5	44.0	91.5	87.0	65.0	87.0	70.0	117.0	66.5
35	22.5	67.0	101.0	44.5	64.5	33.5	53.5	60.0	52.0	40.0	85.0	90.5	107.0	80.0	170.0	73.0	84.0	147.0	86.0	103.0
36	43.5	99.5	145.5	93.0	54.0	53.0	65.0	75.0	40.0	31.0	46.0	40.0	45.0	22.0	88.0	63.0	96.0	72.5	76.0	132.0
37	7.5	44.0	61.5	24.0	33.0	78.0	58.0	20.0	140.0	7.0	50.0	93.0	70.0	31.0	46.0	35.0	5.0	11.0	85.0	100.0
38	40.0	85.0	150.5	150.0	142.5	106.5	136.0	40.5	64.0	76.0	111.5	86.0	112.0	62.0	93.5	74.0	28.0	30.0	88.0	112.0
39	83.5	79.0	65.0	82.5	90.0	54.0	43.0	56.5	47.0	65.0	76.0	120.0	15.5	95.0	116.0	24.0	15.0	63.0	71.0	119.0
40	150.0	79.5	70.0	96.5	95.5	74.5	75.0	26.0	37.5	72.0	100.0	110.5	95.5	91.0	65.0	68.0	36.0	80.0	79.0	65.0
41	74.5	125.0	82.0	101.0	80.0	37.5	41.0	45.0	6.0	4.0	21.5	17.5	42.5	70.0	20.0	66.0	35.0	71.0	59.0	85.0
42	39.5	58.0	63.0	53.0	54.0	48.0	45.0	39.0	28.0	26.0	83.5	111.5	83.5	86.0	53.0	20.5	51.5	29.0	36.5	46.5
43	70.0	72.0	54.5	-	40.5	---	31.5	21.5	16.0	6.0	63.0	76.0	37.0	84.5	40.0	25.0	31.0	114.0	130.0	112.0
44	96.0	83.0	47.0	10.0	29.0	13.5	---	6.0	5.0	16.0	29.0	21.0	30.0	74.0	50.0	14.5	4.0	...	...	35.0
45	61.0	60.0	..	6.0	54.0	..	...	...	...	1.5	17.5	5.0	..	...	38.0	70.0	30.0	23.5	37.0	39.0
46	41.0	116.0	53.0	51.0	86.0	23.0	35.0	28.0	25.0	46.5	50.0	41.0	71.5	83.5	27.0	51.0	20.5	23.0	30.0	65.5
47	120.0	126.0	78.0	80.5	73.0	42.0	33.5	32.0	28.5	20.0	145.0	80.0	110.0	148.0	121.0	102.0	88.0	85.5	84.5	106.0
48	111.0	113.0	43.0	51.0	75.0	33.0	3.0	10.5	..	47.0	94.0	23.5	44.0	50.0	125.0	31.0	48.0	37.5	60.0	21.0
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1