

Kentucky Wonder 1959, Row 6

+ Normal
● Reversed

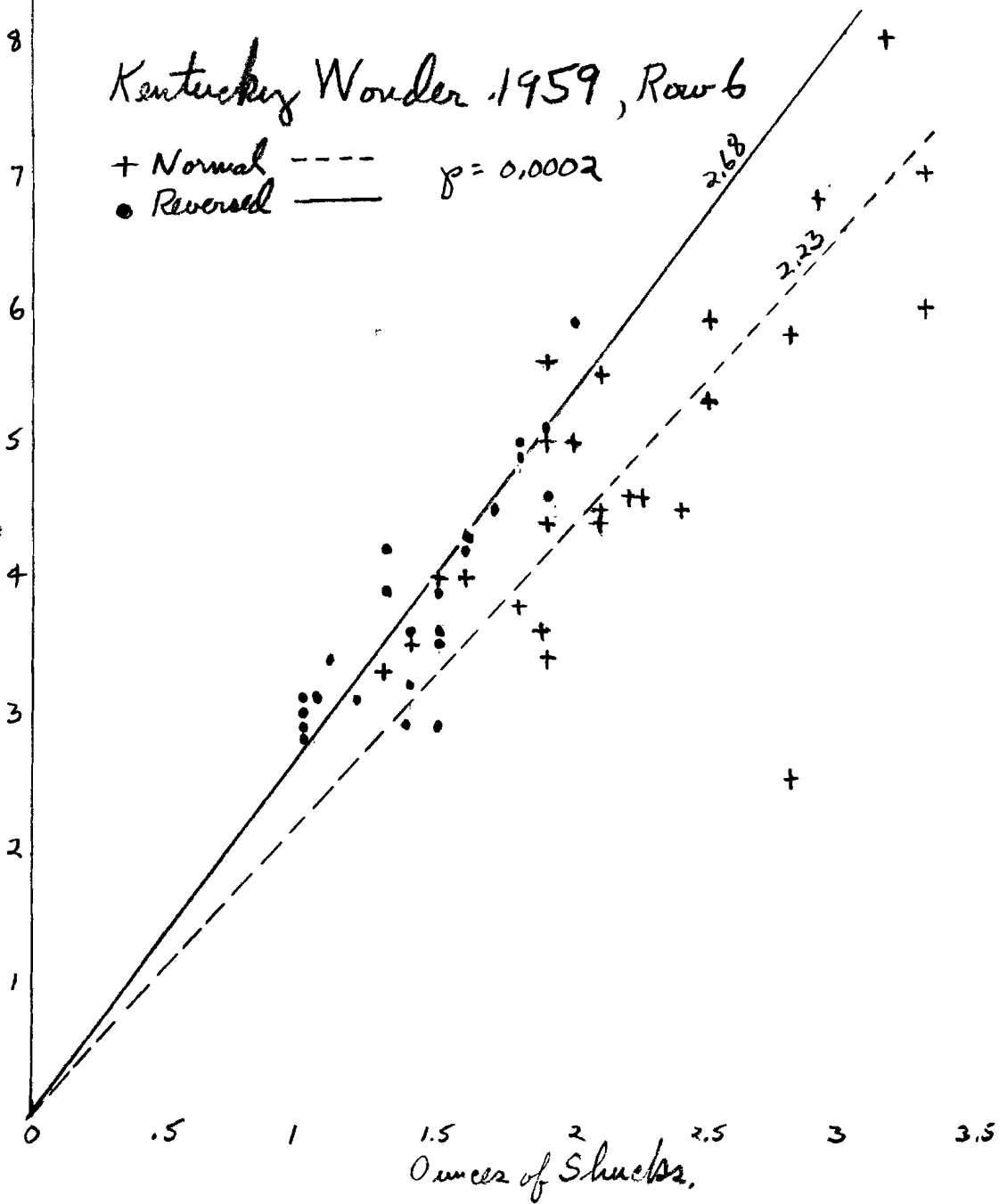
$r = 0.0002$

2.68

2.23

Ounces of Beans.

Ounces of Shucks.



$$F = \frac{(2.680 - 2.226) \left(\frac{25 \times 24}{25 + 24} \right)^{0.389}}{0.954 \sqrt{3.50}} = 4.09 \quad (mN + mR - 1) = 48, \rho = 0.0002$$

$$S = \left[\frac{(2.63 + 4.50) \left(\frac{25 \times 24}{25 + 24} \right)^{0.389}}{[7.13/47]^{0.389}} \right] = [1.518]^{0.389} = 0.389$$

Row	Position	Dist ²	Dist	Dist ²	Dist	Dist ²	Dist
1	1.9	-3	-1.9	3.61	1.9	3.61	1.9
2	2.1	-1	-2.1	4.41	2.1	4.41	2.1
3	2.1	-1	-2.1	4.41	2.1	4.41	2.1
4	2.1	-1	-2.1	4.41	2.1	4.41	2.1
5	2.1	-1	-2.1	4.41	2.1	4.41	2.1
6	2.1	-1	-2.1	4.41	2.1	4.41	2.1
7	2.1	-1	-2.1	4.41	2.1	4.41	2.1
8	2.1	-1	-2.1	4.41	2.1	4.41	2.1
9	2.1	-1	-2.1	4.41	2.1	4.41	2.1
10	2.1	-1	-2.1	4.41	2.1	4.41	2.1
11	2.1	-1	-2.1	4.41	2.1	4.41	2.1
12	2.1	-1	-2.1	4.41	2.1	4.41	2.1
13	2.1	-1	-2.1	4.41	2.1	4.41	2.1
14	2.1	-1	-2.1	4.41	2.1	4.41	2.1
15	2.1	-1	-2.1	4.41	2.1	4.41	2.1
16	2.1	-1	-2.1	4.41	2.1	4.41	2.1
17	2.1	-1	-2.1	4.41	2.1	4.41	2.1
18	2.1	-1	-2.1	4.41	2.1	4.41	2.1
19	2.1	-1	-2.1	4.41	2.1	4.41	2.1
20	2.1	-1	-2.1	4.41	2.1	4.41	2.1
21	2.1	-1	-2.1	4.41	2.1	4.41	2.1
22	2.1	-1	-2.1	4.41	2.1	4.41	2.1
23	2.1	-1	-2.1	4.41	2.1	4.41	2.1
24	2.1	-1	-2.1	4.41	2.1	4.41	2.1
25	2.1	-1	-2.1	4.41	2.1	4.41	2.1
26	2.1	-1	-2.1	4.41	2.1	4.41	2.1
27	2.1	-1	-2.1	4.41	2.1	4.41	2.1
28	2.1	-1	-2.1	4.41	2.1	4.41	2.1
29	2.1	-1	-2.1	4.41	2.1	4.41	2.1
30	2.1	-1	-2.1	4.41	2.1	4.41	2.1
31	2.1	-1	-2.1	4.41	2.1	4.41	2.1
32	2.1	-1	-2.1	4.41	2.1	4.41	2.1
33	2.1	-1	-2.1	4.41	2.1	4.41	2.1
34	2.1	-1	-2.1	4.41	2.1	4.41	2.1
35	2.1	-1	-2.1	4.41	2.1	4.41	2.1
36	2.1	-1	-2.1	4.41	2.1	4.41	2.1
37	2.1	-1	-2.1	4.41	2.1	4.41	2.1
38	2.1	-1	-2.1	4.41	2.1	4.41	2.1
39	2.1	-1	-2.1	4.41	2.1	4.41	2.1
40	2.1	-1	-2.1	4.41	2.1	4.41	2.1
41	2.1	-1	-2.1	4.41	2.1	4.41	2.1
42	2.1	-1	-2.1	4.41	2.1	4.41	2.1
43	2.1	-1	-2.1	4.41	2.1	4.41	2.1
44	2.1	-1	-2.1	4.41	2.1	4.41	2.1
45	2.1	-1	-2.1	4.41	2.1	4.41	2.1
46	2.1	-1	-2.1	4.41	2.1	4.41	2.1
47	2.1	-1	-2.1	4.41	2.1	4.41	2.1
48	2.1	-1	-2.1	4.41	2.1	4.41	2.1
49	2.1	-1	-2.1	4.41	2.1	4.41	2.1
50	2.1	-1	-2.1	4.41	2.1	4.41	2.1

7 May 65

Wander 1959, Rows 6

Row 6

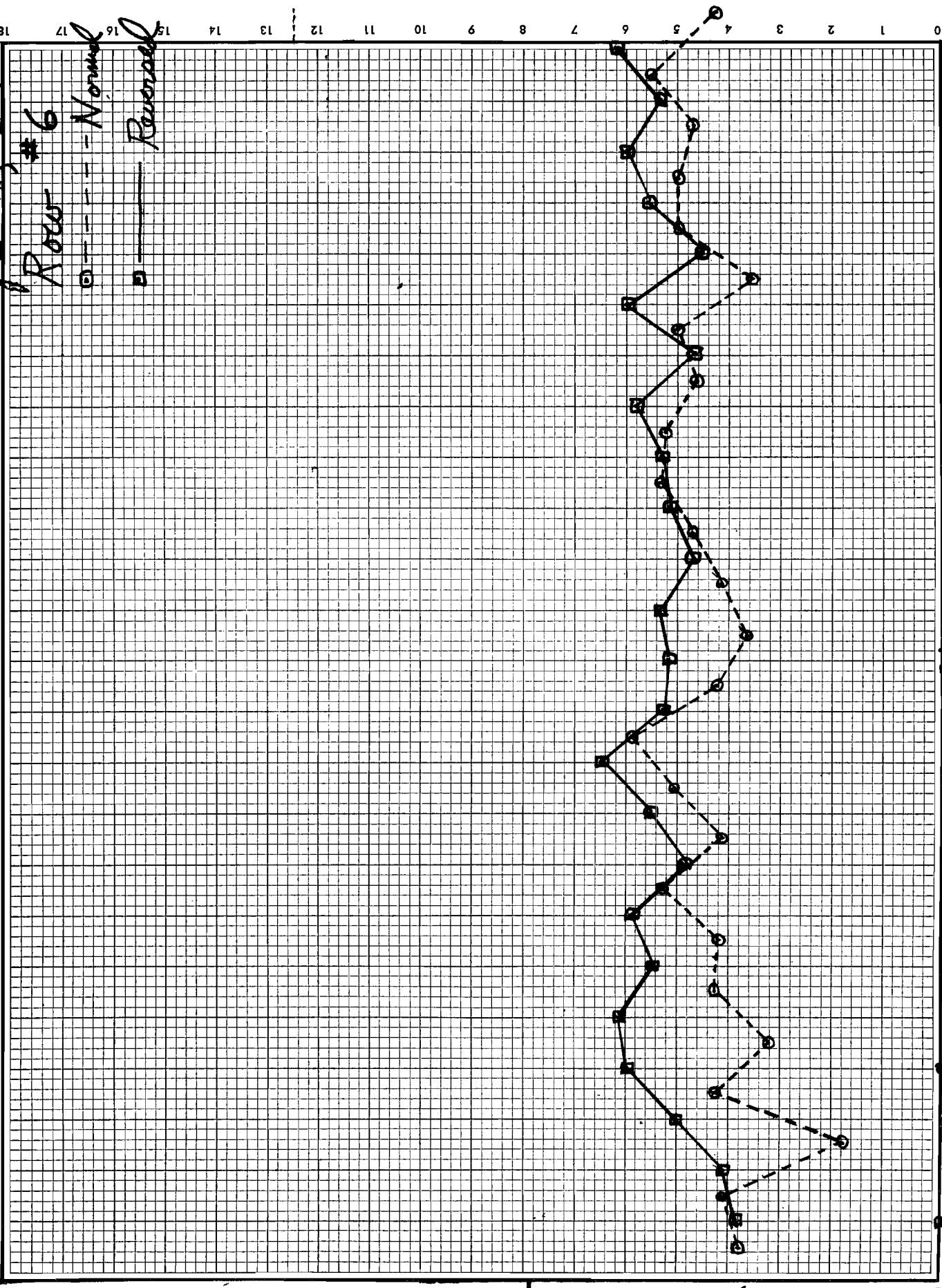
Row 6

See *Biometrika Tables for Statisticians*
E.S. Pearson & H.O. Hartley, Volume 1, 2nd edition
pages 132-134

Sept 29, 1959

Row #6
□ --- □ = Normal
□ --- □ = Reversed

Ounce Beans / Ounce Shuckee



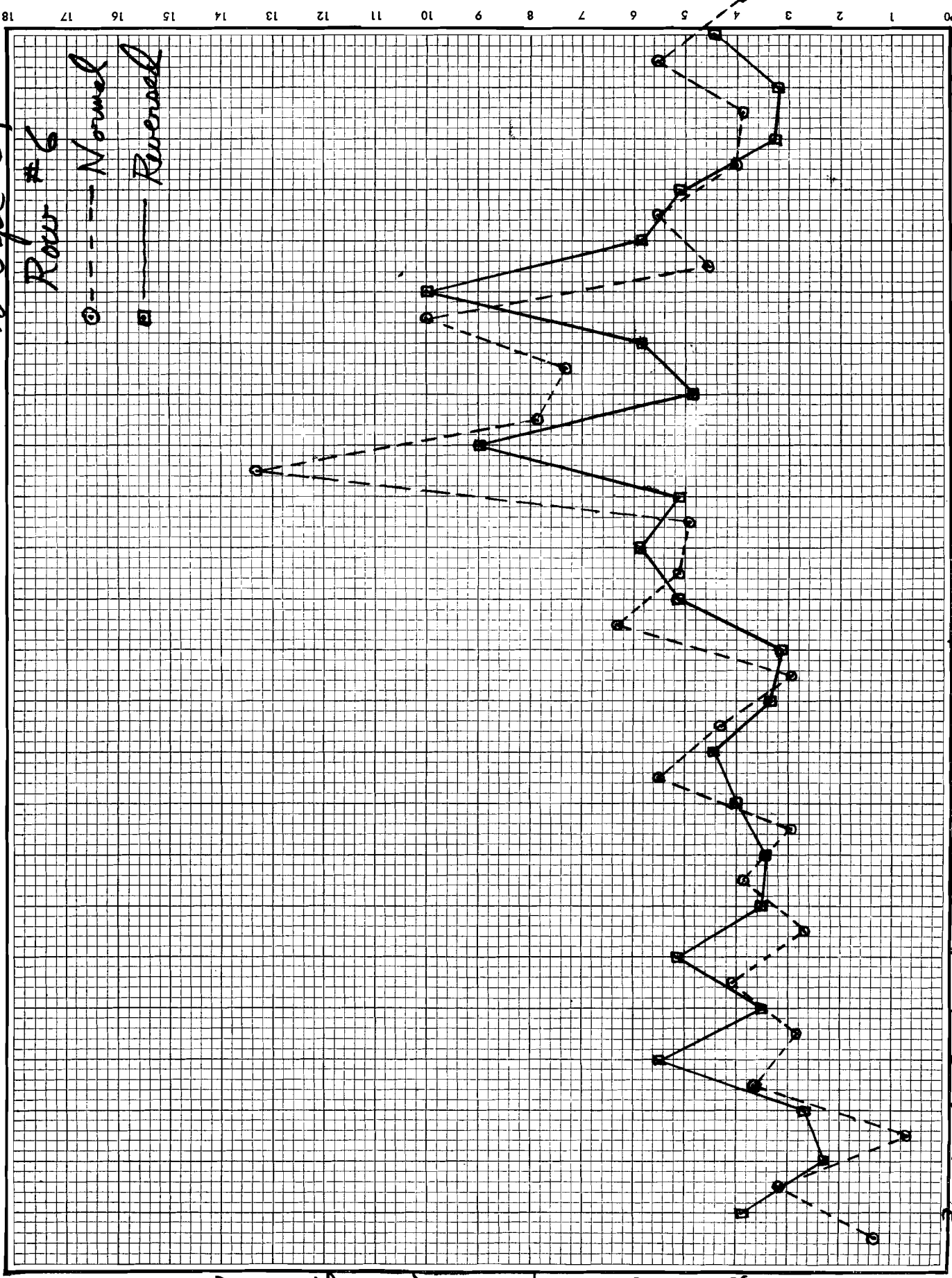
Hill Number

28 Sept 59

Row #6

○ --- Normal

■ --- Reversed



Ounces Beans / Ounces Vines

Hill Number

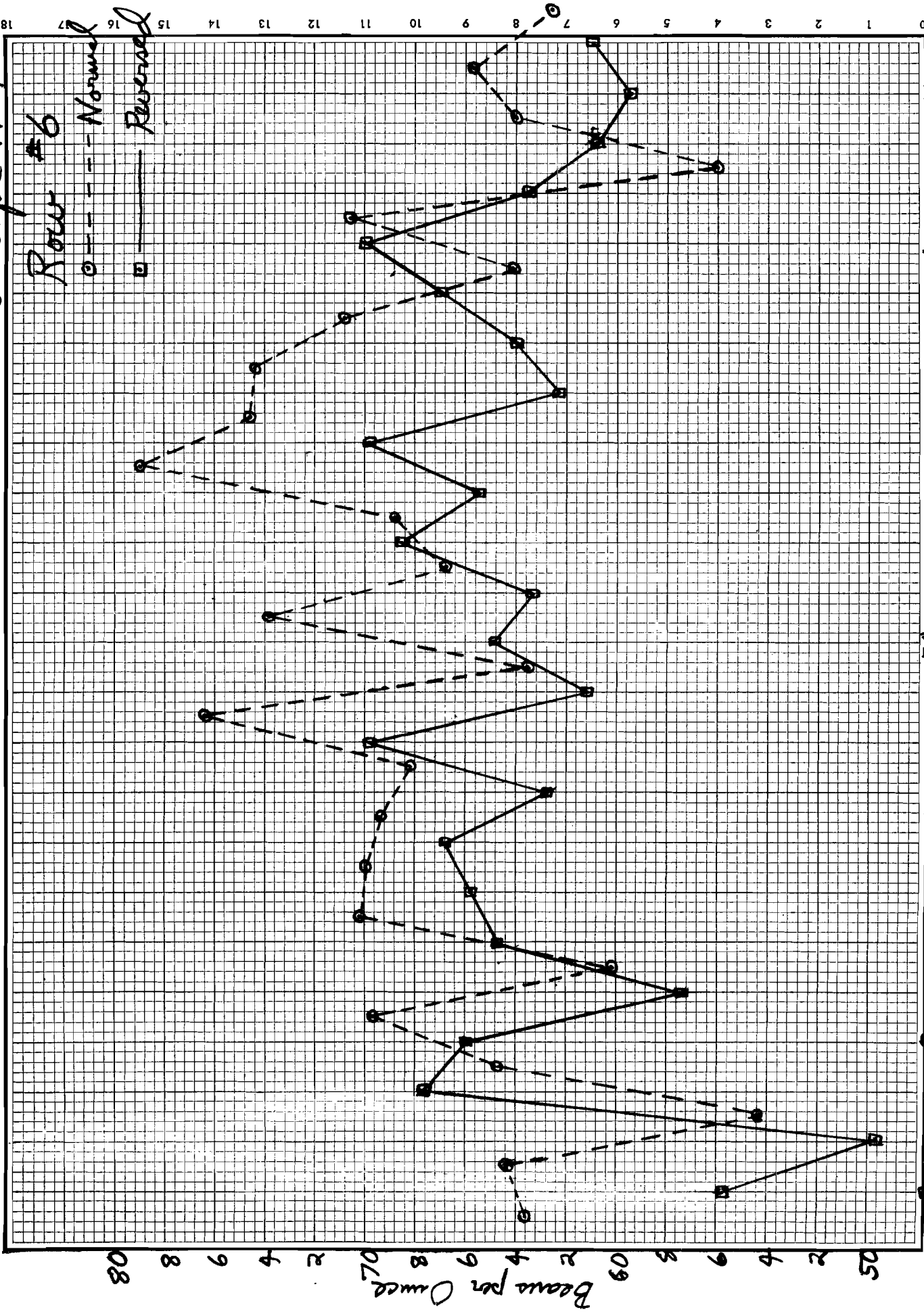
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

28 Sept 1959

Row #6

○ --- Normal
 □ — Reversed

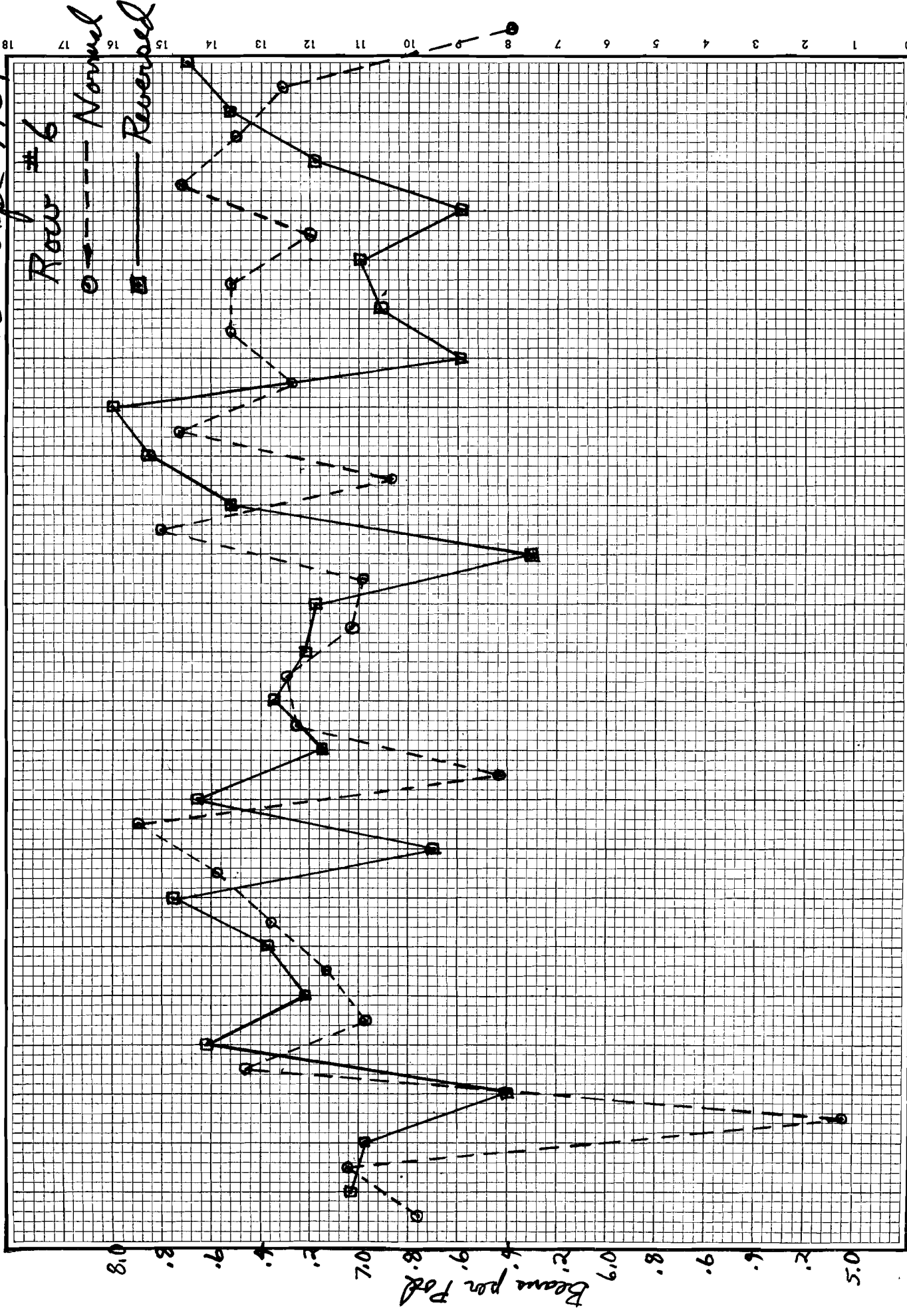


Hill Number

18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98

28 Sept 1959



Hill Number

Normal Vines

Row #6

17-20 Sept 1959

Plant	Number of Vines	Ounces Vines	Number Pods	Ounces Pods	Number Beans	Ounces Beans	Ounces Shells	Beans Dry (Vine + Shells)	Beans Pods	Beans per Pod	Oz Beans	Oz Shells	Oz Beans	Oz Vines
1	4	55	34	56	300	3.6	1.9	.49	6.76	63.9	1.90		1.65	
3	3	7.9	42	6.1	296	4.6	2.2	.90	7.05	64.4	2.09		1.58	
5	2	7.5	27	5.4	136	2.5	2.8	.24	5.04	54.4	.89		.33	
7	2	2.1	33	5.4	306	3.8	1.8	.97	7.46	64.7	2.11		1.81	
9	4	3.2	41	6.9	314	4.5	2.1	.80	6.97	69.7	1.61		1.49	
11	3	2.2	38	6.6	271	4.5	2.1	1.05	7.13	60.2	2.14		2.04	
13	1	3.3	42	6.6	309	4.7	2.1	.88	7.36	62.2	2.10		1.33	
15	2	2.6	46	6.9	349	5.0	1.9	1.11	7.52	70.0	2.63		1.92	
17	2	3.7	51	8.7	403	5.8	2.8	.97	7.90	69.4	2.07		1.99	
19	3	1.2	25	4.8	225	3.3	1.8	1.32	6.43	68.2	2.54		2.75	
21	3	3.6	59	7.5	420	5.6	1.9	1.24	7.26	76.4	2.95		2.15	
23	4	4.7	61	10.3	445	7.0	3.0	.88	7.36	62.6	2.12		1.49	
25	3	1.9	63	9.1	443	6.0	2.3	1.16	7.03	73.8	1.82		3.16	
27	3	1.8	44	6.7	300	4.6	2.2	1.15	6.93	66.8	2.01		2.56	
29	3	2.4	52	8.9	350	5.7	2.5	1.20	7.81	68.8	2.36		2.46	
31	2	0.6	46	5.4	316	4.0	1.5	1.90	6.87	79.0	2.67		1.67	all off vines
33	3	1.4	53	7.5	410	5.5	2.1	1.57	7.73	74.6	2.12		3.93	
35	3	1.2	41	5.3	298	4.1	1.8	1.42	7.27	74.4	1.32		3.67	
37	4	0.7	33	4.9	248	3.5	1.9	1.67	7.52	70.8	2.50		5.00	all off vines
39	3	1.5	29	5.0	218	3.4	1.9	1.00	7.52	64.1	1.79		2.27	
41	2	1.8	49	6.9	353	5.0	2.0	1.32	7.20	70.6	2.50		2.78	
43	2	2.0	29	5.5	224	4.0	1.6	1.11	7.72	56.0	2.50		2.00	
45	2	3.5	52	9.6	425	6.8	2.9	1.06	7.50	64.0	2.35		1.44	
47	3	2.9	72	11.3	596	8.0	2.9	1.38	7.31	65.7	2.76		2.76	
49	3	2.7	52	7.1	332	5.3	2.5	1.02	6.38	62.6	2.12		1.96	

2 small dark brown beans, nearly black. All in one pod.

5 Five light shiny tan beans in one pod.

27 small dark brown beans in pods of 6, 6, 5, 4, 3, 3

Entire Row #6

	Mean	RMS	SE
Beans/pod	7.16	.59	.12
Beans/oz	67.5	5.95	1.19
Dry beans/oz shucks	2.22	.43	.08
oz beans/oz vines	2.40	1.34	.27
oz beans/oz vines + shucks	1.11	.35	.07

Reversed Vines

Row #6

17-20 Sept 1959

Plant	Condition of Vines	Number of Vines	Ounces Vines	Number Pods	Ounces Pods	Number Beans	Ounces Beans	Ounces Shucks	Beam of Vines + Shucks	Beans Pods	Beans per %	Og Beans	Og Shucks	Og Beans	Og Vines
2	Nearly Dry	3	1.5	23	4.4	162	2.9	1.5	.97	7.09	55.9	1.93	1.93		
4	a bit Green	1	2.5	35	4.2	244	2.9	1.4	.74	6.97	84.1	2.07	1.16		
6	Nearly Dry	2	2.6	37	4.9	237	3.5	1.4	.88	6.40	67.7	2.50	1.35		
8	Dry	1	1.1	26	4.0	198	3.0	1.0	1.93	7.63	66.0	3.00	2.73		
10	"	2	1.9	27	4.5	195	3.0	1.1	1.13	7.22	57.4	3.09	1.79		
12	"	2	1.9	43	6.5	317	4.9	1.8	1.33	7.37	64.7	2.72	2.58		
14	"	4	3.3	59	7.9	375	5.0	2.0	1.12	7.76	65.8	2.95	1.79		
16	Nearly Dry	3	2.7	46	6.5	308	4.6	1.9	1.00	6.70	66.9	2.42	1.71		
18	Dry	1	2.5	41	6.0	314	5.0	1.8	1.16	7.66	62.8	2.78	2.00		
20	"	2	1.9	41	5.5	293	4.2	1.3	1.31	7.15	69.8	3.23	2.21		
22	"	1	2.5	35	5.7	257	4.2	1.6	1.03	7.35	61.2	2.63	1.68		
24	"	3	2.5	35	5.2	253	3.9	1.5	1.09	7.22	64.8	2.60	1.56		
26	Dry	4	2.0	45	6.9	323	5.1	1.9	1.31	7.18	63.4	2.68	2.55		
28	"	2	1.2	38	5.0	290	3.5	1.5	1.30	6.31	69.6	2.33	2.40		
30	"	3	1.2	27	4.5	203	3.1	1.2	1.29	7.52	65.5	2.51	2.58		
32	"	3	1.0	40	4.2	314	4.5	1.7	1.67	7.85	69.8	2.65	4.50		
34	"	3	1.2	23	3.9	184	2.9	1.0	1.32	8.00	62.4	2.90	2.42		
36	"	3	1.2	34	4.9	224	3.5	1.5	1.30	6.59	64.0	2.33	2.92		
38	"	1	0.6	29	4.1	201	3.0	1.0	1.88	6.92	67.0	3.00	5.00		
40	"	3	1.1	32	4.6	224	3.2	1.4	1.28	7.00	70.0	2.29	2.91		
42	"	3	1.1	27	3.9	178	2.8	1.0	1.34	6.59	63.6	2.20	2.55		
44	Redden Green	2	2.4	35	5.2	237	3.9	1.3	1.06	7.18	60.8	3.00	1.63		
46	"	3	2.7	34	5.8	256	4.3	1.6	1.02	7.53	59.5	2.69	1.60		
48	Nearly Dry	2	1.4	27	4.1	189	3.1	1.0	1.29	7.00	61.0	3.10	2.21		

Entire Row # 6

	Mean	RMS	SE
Beans / Pod	7.17	.45	.09
Beans / Oz	63.7	4.8	.98
Oz beans / Oz chucks	3.68	.33	.07
Oz beans / Oz vines	2.35	.91	.18
Oz beans / Oz chucks + vines	1.21	.25	.05

30 Sept 59

Summary of Data on Row #6

	Normal Vines	Revised Vines
Number of Vines	69	58
Ounces Vines	66.1	44.0
Number Pods	1134	828
Ounces Pods	176.8	125.5
Number Beans	8168	5839
Ounces Beans	121.0	91.3
Ounces Shucks	55.2	34.4
<u>Oz Beans</u>		
Oz (Vines + Shucks)	27.63	29.12
<u>Beans</u> <u>Pods</u>	179.08	172.13
Beans per oz.	1686.3	1529.3
<u>Oz Beans</u>		
Oz Shucks	55.55	64.28
<u>Oz Beans</u>		
<u>Oz Vines</u>	60.11	56.28
Pods per vine		
Number poles	25	24

after drying Vines

Ounces Vines + Shucks	96.1	68.1
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Weighed on 2nd October

30 Sept 1959

Row # 6 Synopsis.

Normal average of		Reversed Average of		Reversed % Increase Average of	
Hills	Group	Hills	Group	Hills	Group

Hills	Group	Hills	Group	Hills	Group
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Beans per Pod

7.16	7.21	7.18	7.05	0.4	-2.2
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Beans per Oz

67.5	67.5	63.7	64.0	-5.6	-5.2
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~~Ounces of Beans~~

Ounces of Stuckles

2.22	2.19	2.68	2.65	20.8	21.0
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~~Ounces of Beans~~

Ounces of Vines

2.40	1.83	2.35	2.08	-2.0	13.7
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~~Ounces of Beans~~

Oz of Vines + Stuckles

1.10	1.00	1.22	1.17	11	17
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after Drying Vines + Stuckles

Ounces of Beans

Ounces of Dry Vines + Stuckles

1.26

1.34

7