

Area about an Acre.

Sugar <sup>Canes</sup> 1927, Saint

Uniformity Trial. (Sugar Cane)

102

	Totals.							Mean.	
Yield.	32.41	40.44	36.04	40.44	38.24	37.72	33.70	258.99	35.57
Variety	6	4	1	3	2	4	5		
	42.91	39.92	37.54	37.62	45.32	36.81	36.94	277.11	39.59
	5	6	4	1	4	2	3		
	39.33	36.94	36.29	48.22	43.58	38.55	38.89	281.80	40.26
	4	3	2	5	6	1	4		
	33.96	37.72	41.04	37.07	34.35	30.72	32.41	247.32	35.33
	3	4	6	2	7	5	1		
	41.95	36.99	38.11	39.46	40.88	37.28	35.96	272.63	38.95
	1	2	5	4	3	6	7		
	36.55	35.00	39.41	38.76	36.29	34.30	34.35	254.66	36.38
	4	1	3	6	5	7	2		
	36.81	38.89	37.12	39.41	39.36	34.87	39.41	260.47	37.21
	2	5	4	7	1	3	6		
Totals	263.62	255.90	265.65	280.98	272.62	252.25	251.66	1952.98	
Means.	37.66	37.98	37.95	40.14	38.95	36.04	35.95	G.M.	37.81.

Variance of Rows.

Mean = 264.71

d.	d <sup>2</sup>
-5.72	32.7184
+12.40	153.7600
+17.09	292.0681
-17.39	302.4121
+7.92	62.7264
-10.05	101.0025
-4.24	17.9776
-37.40	
+37.41	
$\Sigma d^2 = 962.6651$	
$\div 7$	
<u><u>137.5236</u></u>	

Variance of Columns.

Mean 264.71

d.	d <sup>2</sup>
-1.09	1.1881
+1.19	1.4161
+0.94	0.8836
+16.27	264.7129
+7.91	62.5681
-12.46	105.0025
-13.05	170.3025
-26.60	
+26.31	
$\Sigma d^2 = 656.0738$	
$\div 7$	
<u><u>93.7248</u></u>	

# Varities.

1.	36.04	+ 37.62	+ 38.55	+ 32.41	+ 41.95	+ 35.00	+ 33.96	= 255.83
2.	38.24	+ 36.81	36.29	37.07	36.99	34.35	36.81	= 256.55
3.	40.44	36.94	36.94	33.96	40.88	39.41	34.57	= 263.44
4.	37.72	45.32	38.89	37.72	39.46	36.55	37.12	= 272.78
5.	33.70	42.91	48.22	30.72	38.11	36.29	38.89	= 268.84
6.	32.41	39.92	43.58	41.09	39.28	38.76	39.41	= 274.43
7.	40.44	37.59	39.33	34.35	35.96	34.30	34.41	= 261.38
								1852.96.

## Variance of Varities.

Mean = 264.71.

d.

d<sup>2</sup>

-9.18

84.2724

-8.15

66.4225

-1.27

1.6129

+8.07

65.1249

+4.13

17.0569

+9.72

94.4784

-3.33

11.0889

{ +21.92 }  
{ +21.93 }

340.0569

÷ 7

= 48.5796

Total Variance.

Mean = 37.81

$d$	$d^2$	$d$	$d^2$
-5.40	29.1600	-3.46	11.9716
+2.63	6.9169	-7.09	50.2681
-1.77	3.1329	-5.40	29.1600
+3.63	13.1769	+4.14	17.1396
+0.43	0.1849	-0.82	0.6724
-0.09	0.0081	+0.30	0.0900
-4.11	16.8921	+1.65	2.7225
+5.10	26.0100	+3.07	9.4249
+2.11	4.4521	+1.47	2.1609
-0.22	0.0484	-1.85	3.4225
-0.19	0.0361	-1.26	1.5876
+7.51	56.4001	-2.81	8.8461
-1.50	1.0000	-1.60	2.5600
-0.87	0.7569	+0.95	0.9025
+1.52	2.3104	-1.52	2.3104
-0.87	0.7569	-3.51	12.3201
-1.52	2.3104	-3.46	11.9716
+10.41	108.3681	-1.00	1.0000
+5.77	33.2929	+1.08	1.1664
+0.74	0.5476	-0.69	0.4761
+1.08	1.1664	+1.60	2.5600
-3.85	14.8225	-3.85	14.8225
-0.09	0.0081	-2.94	8.6436
+3.28	10.7584	+1.60	2.5600
-0.74	0.5476		<hr/> 197.8094
	<hr/> 334.0647		<hr/> 334.0647
			<hr/> 531.8741



# Analysis of Variance.

Variance due to	Degrees of Freedom.	Sum of Squares.	Variance.	S.D.
Varities	6	48.5746	8.0966	
Solamms	6	93.7248		
Ros	6	137.5236		
Remainder.	30	279.8280	9.3276	3.05.
Total.	48	531.8741		