Obs	density	block	fertilizer	yield
1	1	1	1	177.22869228
2	2	2	1	177.55004127
3	1	3	1	176.40846185
4	2	4	1	177.70362548
5	1	1	1	177.12548634
6	2	2	1	176.77834248
7	1	3	1	176.7463019
8	2	4	1	177.06116422
9	1	1	1	176.2749493
10	2	2	1	177.96720293
11	1	3	1	176.60129983
12	2	4	1	177.0305428
13	1	1	1	177.47950716
14	2	2	1	176.8741298
15	1	3	1	176.11438832
16	2	4	1	176.00839451
17	1	1	1	176.10831259
18	2	2	1	178.35744091
19	1	3	1	177.26244508
20	2	4	1	176.91884494
21	1	1	1	176.23901578
22	2	2	1	176.57306975
23	1	3	1	176.03929794
24	2	4	1	176.81792217
25	1	1	1	176.1605865
26	2	2	1	177.22642413
27	1	3	1	175.93853303
28	2	4	1	177.16493668
29	1	1	1	175.3608396
30	2	2	1	177.27699568
31	1	3	1	175.9454438
32	2	4	1	175.88277962
33	1	1	2	176.47934092
34	2	2	2	176.04434212
35	1	3	2	177.41246175
36	2	1	2	177.36081824
37 38	2	2	2	177.38549918 176.9758077
39	1	3	2	177.37977869
 	2	4	2	177.99799506
41	1	1	2	176.43486257
42	2	2	2	176.93326509
43	1	3	2	175.98348017
44	2	4	2	177.03409266
45	1	1	2	176.43676237
46	2	2	2	176.93070237
47	1	3	2	177.12104863
48	2	4	2	177.12104000
49	1	1	2	176.60372408

Obs	density	block	fertilizer	yield
50	2	2	2	177.20817143
51	1	3	2	177.1488286
52	2	4	2	176.8190767
53	1	1	2	176.99906695
54	2	2	2	178.13460458
55	1	3	2	176.13400438
56	2	4	2	176.66832294
57	1	1	2	176.89586686
58	2	2	2	177.77949286
59	1	3	2	176.414495
60	2	4	2	176.87889774
61	1	1	2	177.58068308
62	2	2	2	176.95726892
-	1	3	2	175.74754558
63		4		175.74754556
64	2		2	
65	1	1	3	177.1041864
66	2	2	3	178.07963517
67	1	3	3	176.90342215
68	2	4	3	177.54028416
69	1	1	3	177.0327097
70	2	2	3	178.28604192
71	1	3	3	176.40541023
72	2	4	3	176.43083013
73	1	1	3	177.39633064
74	2	2	3	176.92557578
75	1	3	3	177.05504578
76	2	4	3	177.34416395
77	1	1	3	177.12836753
78	2	2	3	177.1683022
79	1	3	3	176.35394064
80	2	4	3	179.06089904
81	1	1	3	176.30051705
82	2	2	3	177.59335238
83	1	3	3	177.11524524
84	2	4	3	177.79445744
85	1	1	3	177.0040381
86	2	2	3	178.03685837
87	1	3	3	177.70136628
88	2	4	3	177.63280826
89	1	1	3	177.65227461
90	2	2	3	177.10041786
91	1	3	3	177.18796703
92	2	4	3	177.40529186
93	1	1	3	178.14164436
94	2	2	3	177.71061254
95	1	3	3	177.68726436
96	2	4	3	177.11817598

Class Level Information			
Class	Levels	Values	
density	2	12	

Number of Observations Read	96
Number of Observations Used	96

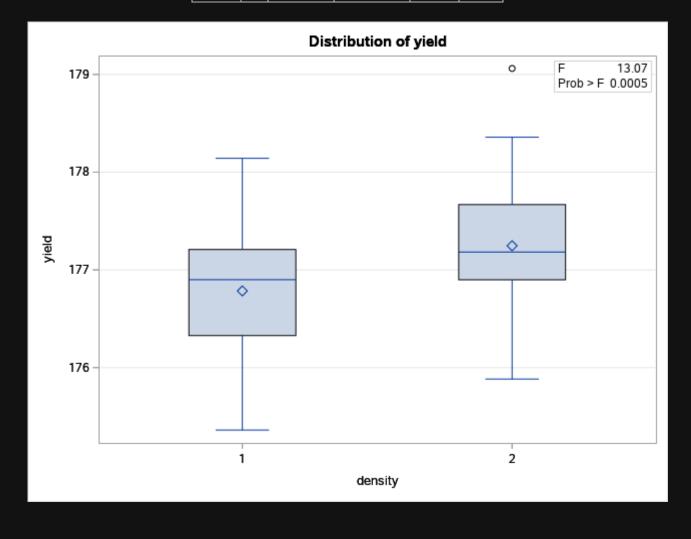
The ANOVA Procedure

Dependent Variable: yield

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	5.12168125	5.12168125	13.07	0.0005
Error	94	36.83255154	0.39183565		
Corrected Total	95	41.95423279			

R-Square	Coeff Var	Root MSE	yield Mean
0.122078	0.353623	0.625968	177.0155

Source	DF	Anova SS	Mean Square	F Value	Pr > F
density	1	5.12168125	5.12168125	13.07	0.0005



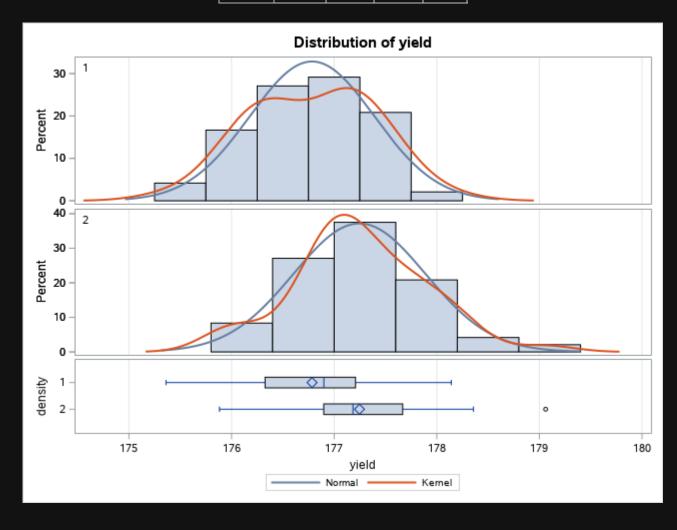
Variable: yield

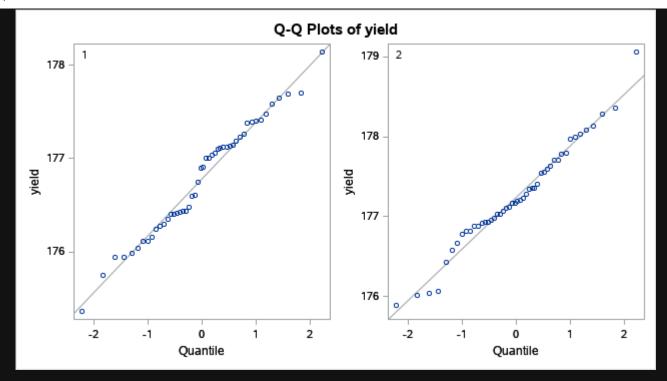
density	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
1		48	176.8	0.6072	0.0876	175.4	178.1
2		48	177.2	0.6441	0.0930	175.9	179.1
Diff (1-2)	Pooled		-0.4620	0.6260	0.1278		
Diff (1-2)	Satterthwaite		-0.4620		0.1278		

density	Method	Mean	95% CL Mean		Std Dev	95% CL	Std Dev
1		176.8	176.6	177.0	0.6072	0.5055	0.7606
2		177.2	177.1	177.4	0.6441	0.5362	0.8068
Diff (1-2)	Pooled	-0.4620	-0.7157	-0.2083	0.6260	0.5479	0.7303
Diff (1-2)	Satterthwaite	-0.4620	-0.7157	-0.2082			

Method	Variances	DF	t Value	Pr > t
Pooled	Equal	94	-3.62	0.0005
Satterthwaite	Unequal	93.675	-3.62	0.0005

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	47	47	1.13	0.6876





The ANOVA Procedure

Class Level Information			
Class	Levels	Values	
block	4	1234	

Number of Observations Read	96
Number of Observations Used	96

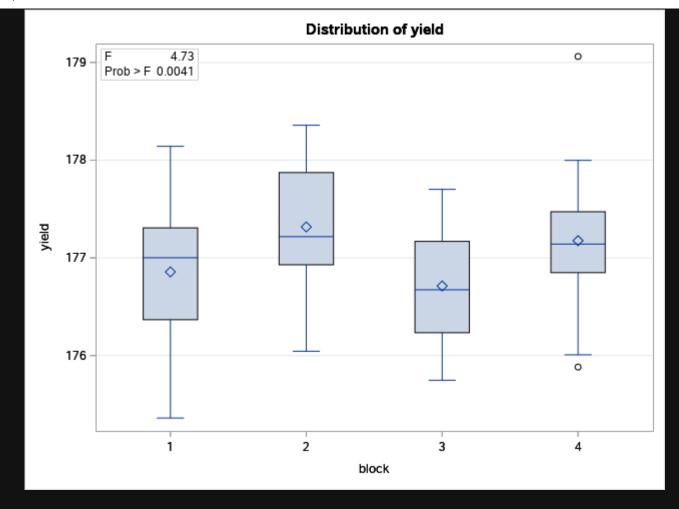
The ANOVA Procedure

Dependent Variable: yield

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	5.60782017	1.86927339	4.73	0.0041
Error	92	36.34641262	0.39506970		
Corrected Total	95	41.95423279			

R-Square	Coeff Var	Root MSE	yield Mean
0.133665	0.355080	0.628546	177.0155

Source	DF	Anova SS	Mean Square	F Value	Pr > F
block	3	5.60782017	1.86927339	4.73	0.0041



The ANOVA Procedure

Class Level Information				
Class	Class Levels Values			
block	4	1234		

Number of Observations Read	96
Number of Observations Used	96

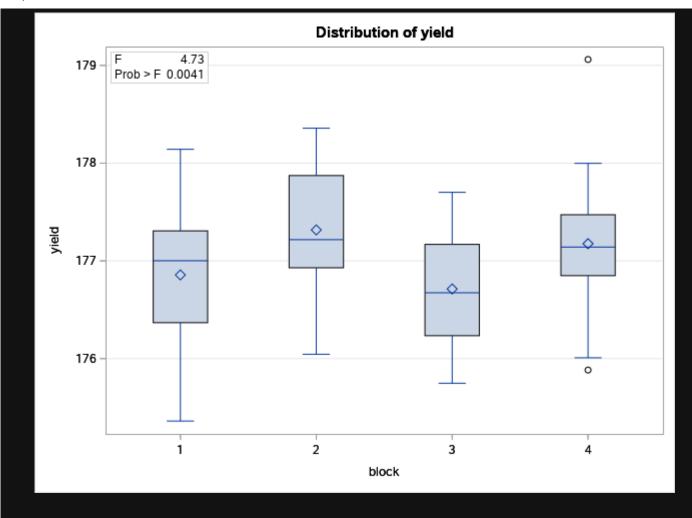
The ANOVA Procedure

Dependent Variable: yield

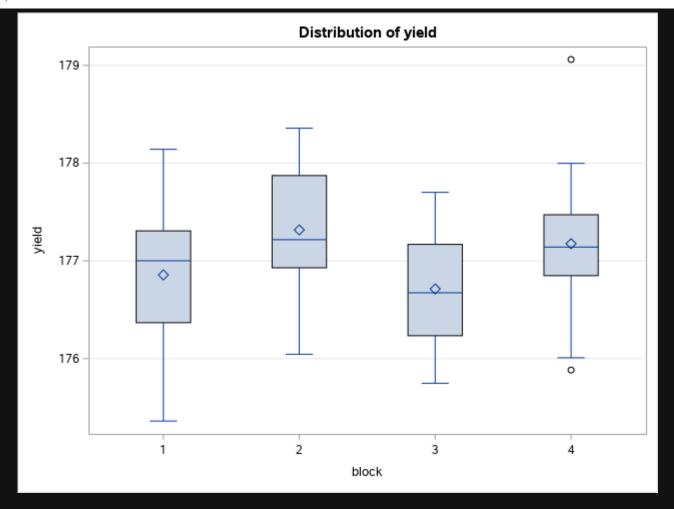
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	5.60782017	1.86927339	4.73	0.0041
Error	92	36.34641262	0.39506970		
Corrected Total	95	41.95423279			

R-Square	Coeff Var	Root MSE	yield Mean
0.133665	0.355080	0.628546	177.0155

Source	DF	Anova SS	Mean Square	F Value	Pr > F
block	3	5.60782017	1.86927339	4.73	0.0041



The ANOVA Procedure



The ANOVA Procedure

Tukey's Studentized Range (HSD) Test for yield

Note: This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.1
Error Degrees of Freedom	92
Error Mean Square	0.39507
Critical Value of Studentized Range	3.28680
Minimum Significant Difference	0.4217

