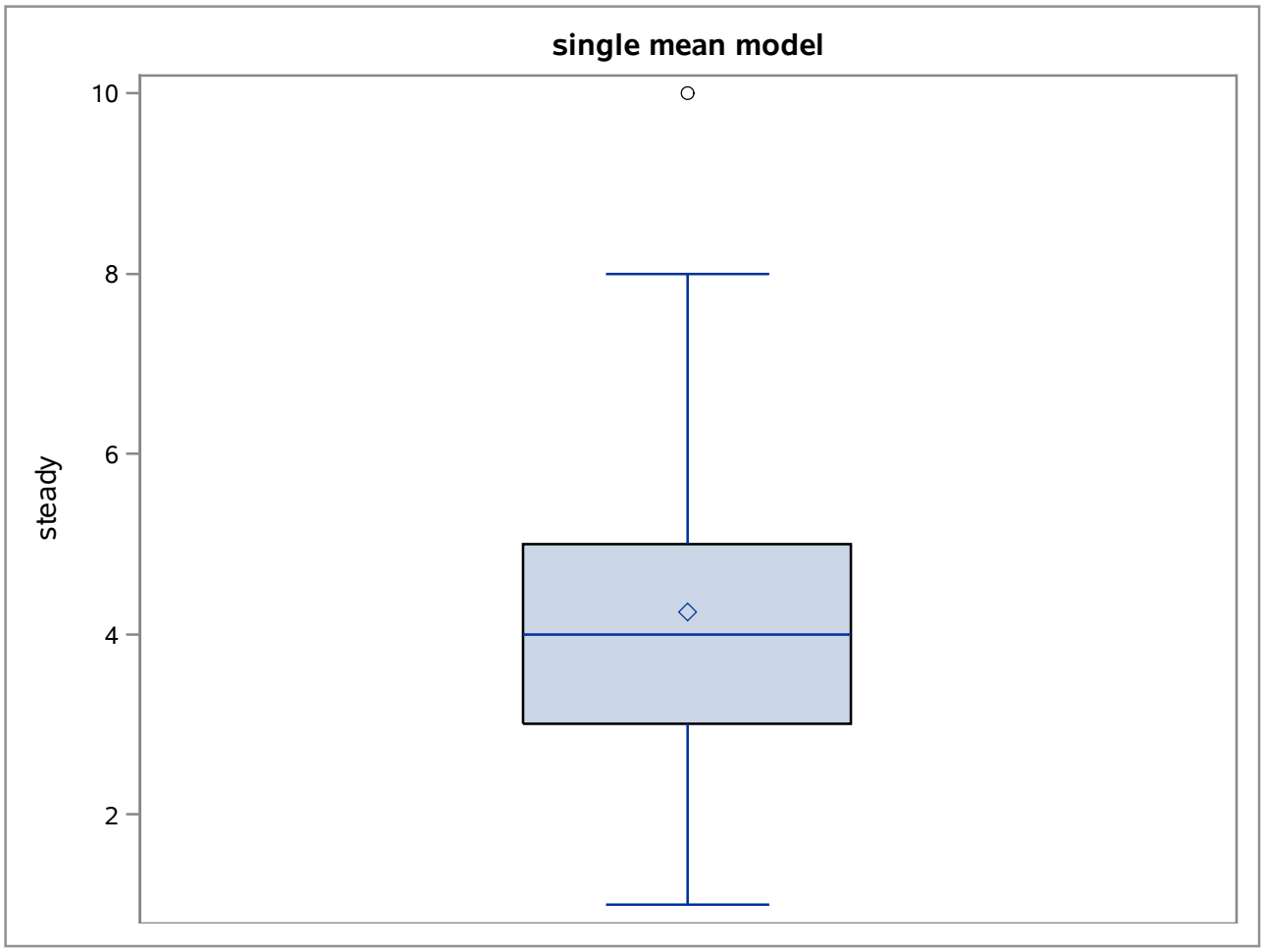
Hand steadiness data

Obs	steady	treat
1	4	1
2	6	1
3	3	1
4	3	1
5	1	1
6	3	1
7	2	1
8	2	1
9	4	2
10	5	2
11	4	2
12	3	2
13	2	2
14	3	2
15	4	2
16	3	2
17	5	3
18	6	3
19	5	3
20	4	3
21	3	3
22	4	3
23	3	3
24	4	3
25	3	4
26	5	4
27	6	4
28	5	4
29	6	4
30	7	4
31	8	4
32	10	4

The MEANS Procedure

Analysis Variable : steady				
N	Mean	Std Dev	Minimum	Maximum
32	4.2500000	1.8837163	1.0000000	10.0000000


single mean model
steady
10
8
6
4
2

The GLM Procedure

Class Level Information		
Class	Levels	Values
treat	4	1 2 3 4

Number of Observations Read	32
Number of Observations Used	32

The GLM Procedure

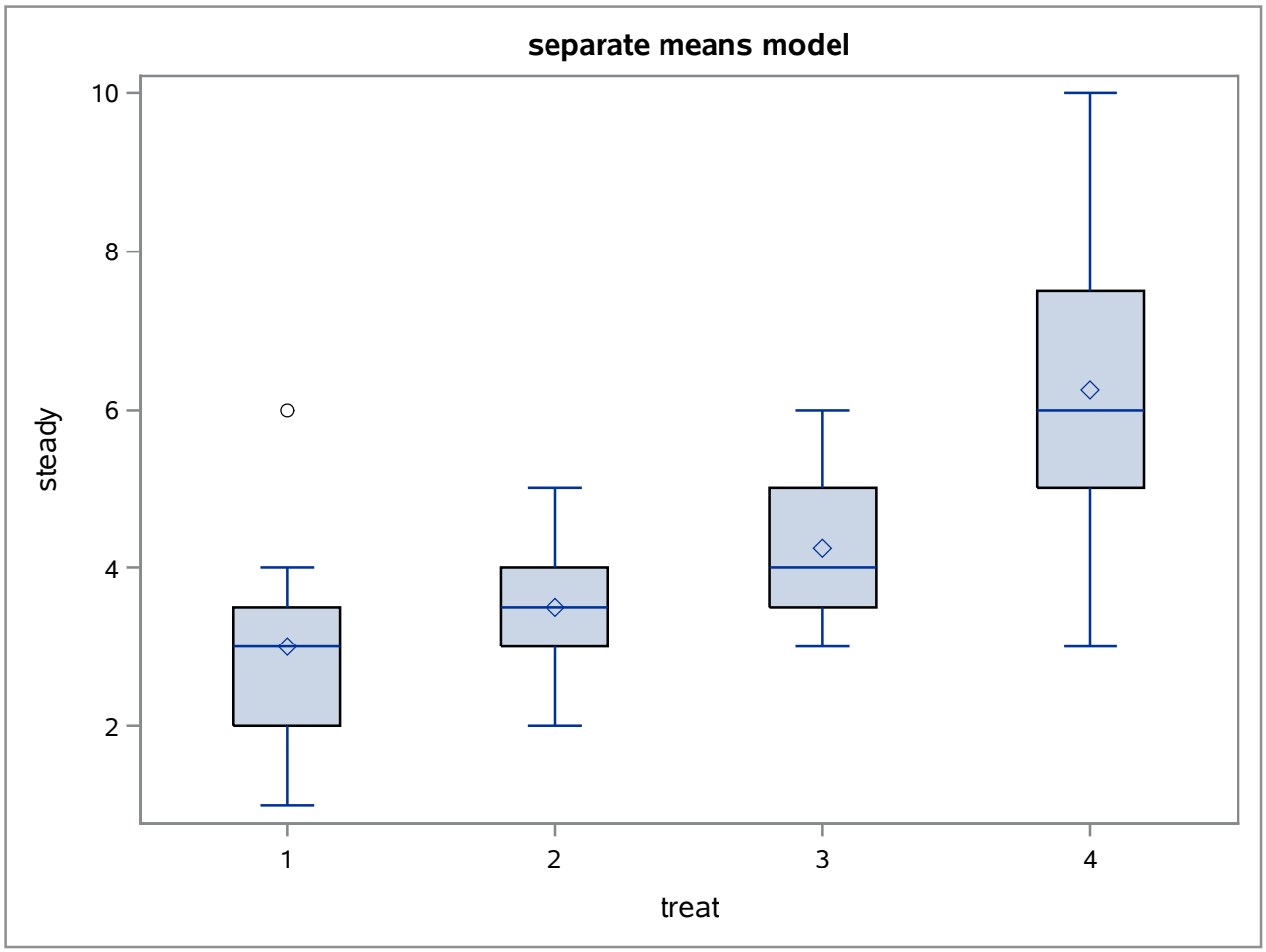
Dependent Variable: steady

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	578.0000000	578.0000000	162.89	<.0001
Error	31	110.0000000	3.5483871		
Uncorrected Total	32	688.0000000			

R-Square	Coeff Var	Root MSE	steady Mean
0.000000	44.32274	1.883716	4.250000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Intercept	1	578.0000000	578.0000000	162.89	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Intercept	1	578.0000000	578.0000000	162.89	<.0001


separate means model
steady
10
8
6
4
2
1
2
3
4
treat

The GLM Procedure

Class Level Information		
Class	Levels	Values
treat	4	1 2 3 4

Number of Observations Read	32
Number of Observations Used	32

The GLM Procedure

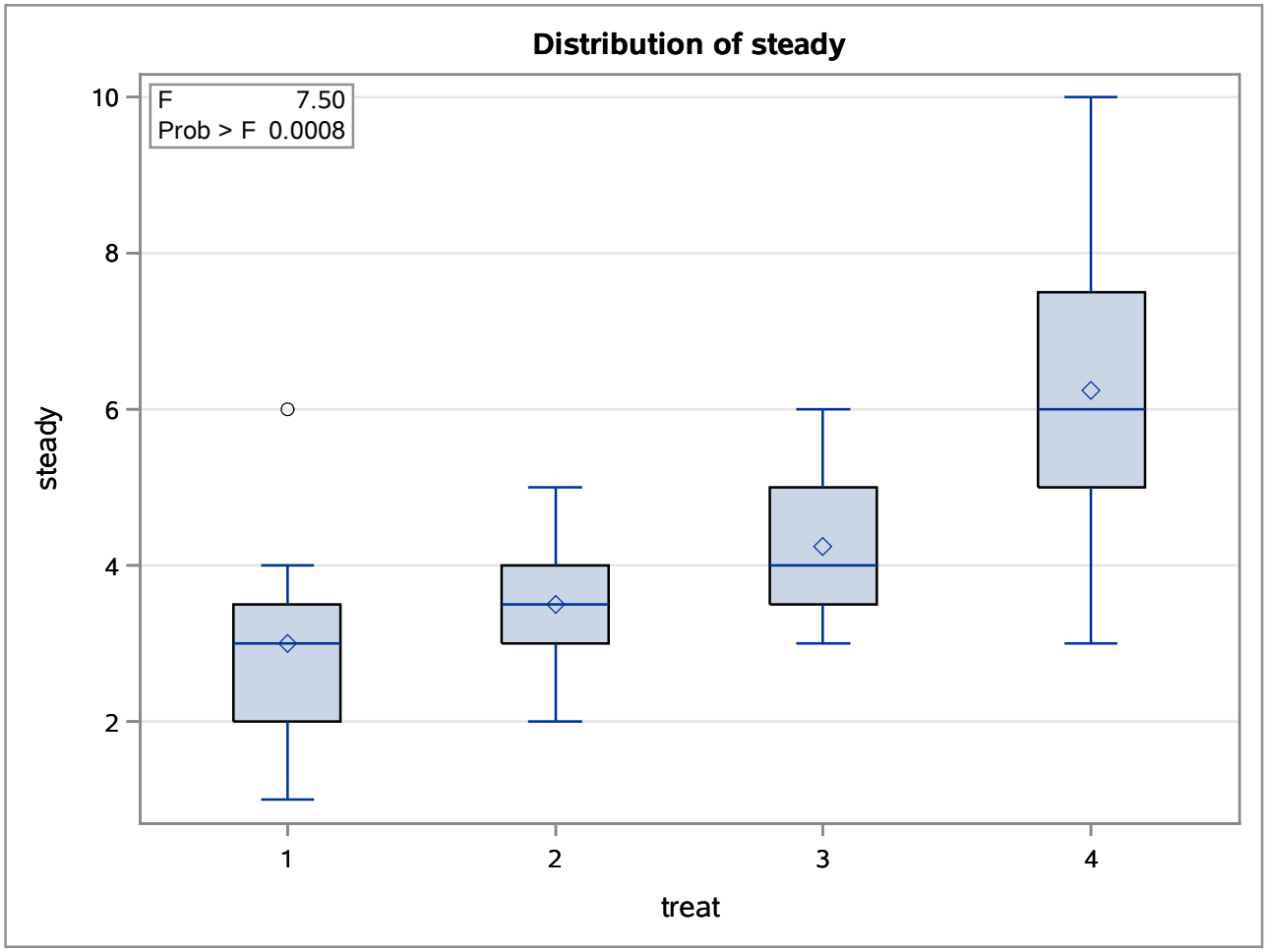
Dependent Variable: steady

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	49.0000000	16.3333333	7.50	0.0008
Error	28	61.0000000	2.1785714		
Corrected Total	31	110.0000000			

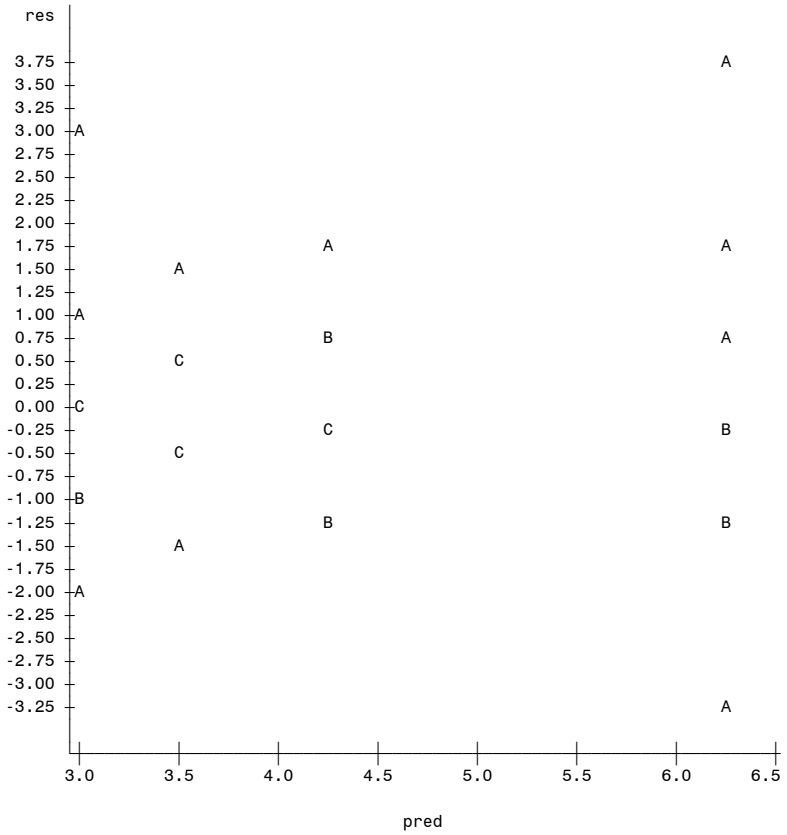
R-Square	Coeff Var	Root MSE	steady Mean
0.445455	34.72938	1.475998	4.250000

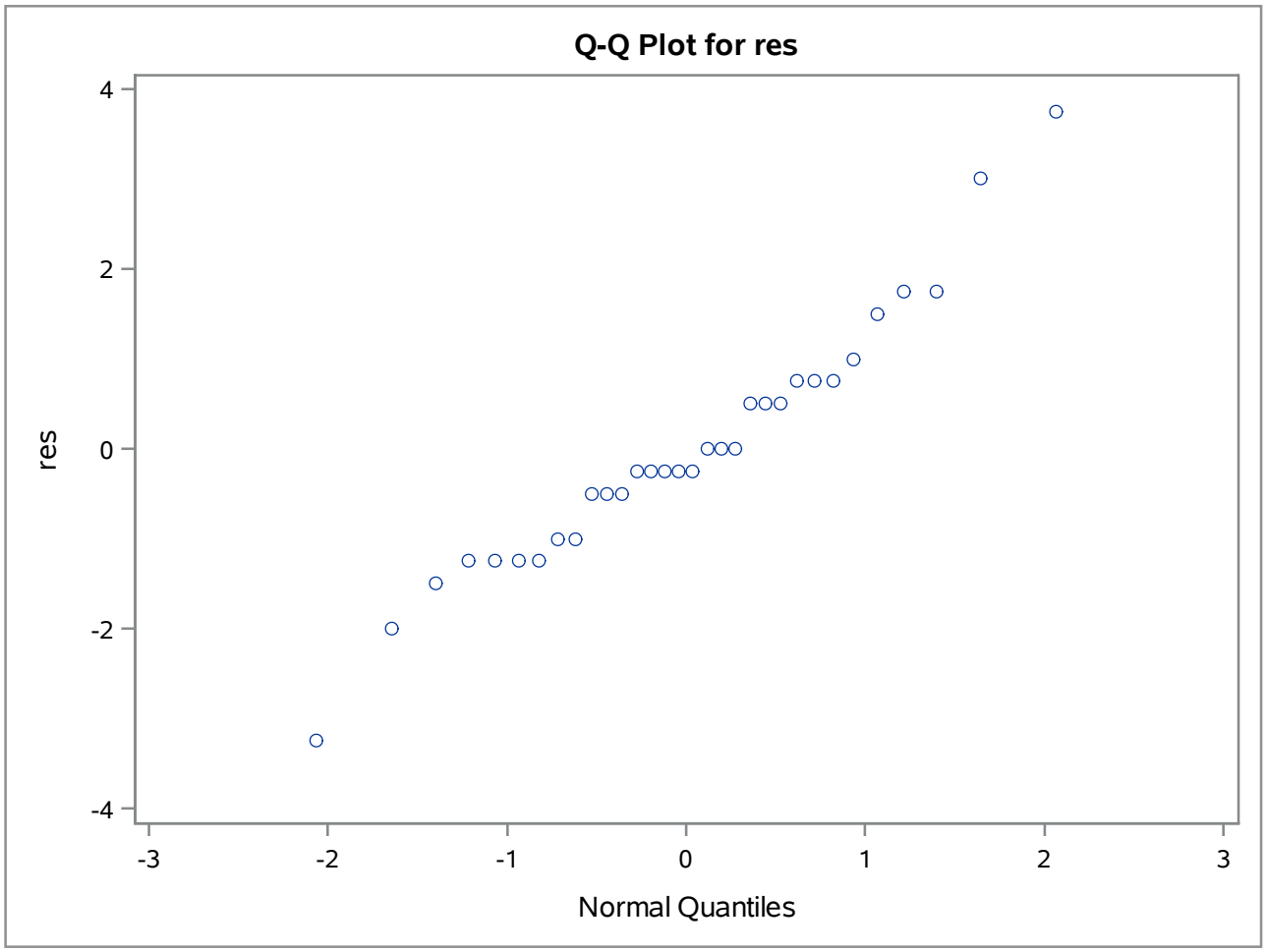
Source	DF	Type I SS	Mean Square	F Value	Pr > F
treat	3	49.00000000	16.33333333	7.50	0.0008

Source	DF	Type III SS	Mean Square	F Value	Pr > F
treat	3	49.00000000	16.33333333	7.50	0.0008



Plot of res*pred. Legend: A = 1 obs, B = 2 obs, etc.




Q-Q Plot for res
res
Normal Quantiles
4
2
0
-2
-4
-3
-2
-1
0
1
2
3