Obs	X9	X10	X13	X14
1	32	4.2	1	1
2	43	4.3	0	1
3	48	5.2	1	2
4	32	3.9	1	1
5	58	6.8	1	3
6	45	4.4	1	2
7	46	5.8	1	1
8	44	4.3	0	2
9	63	5.4	1	3
10	54	5.4	0	2
11	32	4.3	0	1
12	47	5.0	1	2
13	39	4.4	0	1
14	38	5.0	1	1
15	54	5.9	0	3
16	49	4.7	0	3
17	38	4.4	1	2
18	40	5.6	0	2
19	54	5.9	1	3
20	55	6.0	0	3
21	41	4.5	0	2
22	35	3.3	0	1
23	55	5.2	0	3
24	36	3.7	0	1
25	49	4.9	0	2
26	49	5.9	1	3
27	36	3.7	0	1
28	54	5.8	1	3
29	49	5.4	1	3
30	46	5.1	0	2
31	43	3.3	0	1
32	53	5.0	0	3
33	60	6.1	0	3
34	47	3.8	0	1
35	35	4.1	0	1
36	39	3.6	1	1
37	44	4.8	1	2
38	46	5.1	1	3

Obs	X9	X10	X13	X14
39	29	3.9	1	1
40	28	3.3	1	1
41	40	3.7	1	1
42	58	6.7	1	3
43	53	5.9	0	3
44	48	4.8	0	2
45	38	3.2	1	1
46	54	6.0	0	3
47	55	4.9	1	3
48	43	4.7	1	2
49	57	4.9	1	3
50	53	3.8	1	3
51	41	5.0	0	2
52	53	5.2	1	2
53	50	5.5	0	2
54	32	3.7	1	1
55	39	3.7	0	1
56	47	4.2	1	2
57	62	6.2	0	2
58	65	6.0	0	3
59	46	5.6	1	3
60	50	5.0	1	2
61	54	4.8	1	3
62	60	6.1	0	3
63	47	5.3	1	3
64	36	4.2	1	2
65	40	3.4	1	1
66	45	4.9	0	2
67	59	6.0	0	3
68	46	4.5	0	2
69	58	4.3	0	3
70	49	4.8	1	2
71	50	5.4	1	2
72	55	3.9	1	3
73	51	4.9	0	3
74	60	5.1	1	3
75	41	4.1	0	1
76	49	5.2	1	2

Obs	X9	X10	X13	X14
77	42	5.1	0	2
78	47	5.1	1	3
79	39	3.3	1	1
80	56	5.1	0	3
81	59	4.5	0	3
82	47	5.6	1	2
83	41	4.1	0	1
84	37	4.4	0	1
85	53	5.6	0	2
86	43	3.7	1	1
87	51	5.5	0	2
88	36	4.3	0	1
89	34	4.0	1	1
90	60	6.1	0	3
91	49	4.4	1	2
92	39	5.5	0	2
93	43	5.2	1	2
94	36	3.6	0	1
95	31	4.0	1	1
96	25	3.4	1	1
97	60	5.2	1	3
98	38	3.7	0	1
99	42	4.3	0	1
100	33	4.4	0	1

The UNIVARIATE Procedure
Variable: X9 (X9 - Usage Level)

Moments			
N	100	**Sum Weights**	100
Mean	46.1	**Sum Observations**	4610
Std Deviation	8.98876965	**Variance**	80.7979798
Skewness	-0.0626115	**Kurtosis**	-0.72533
Uncorrected SS	220520	**Corrected SS**	7999
Coeff Variation	19.4984157	**Std Error Mean**	0.89887696

Basic Statistical Measures			
Location		**Variability**	
Mean	46.10000	**Std Deviation**	8.98877
Median	46.50000	**Variance**	80.79798
Mode	49.00000	**Range**	40.00000
		Interquartile Range	14.50000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	51.28622	**Pr > |t|**	<.0001
Sign	**M**	50	**Pr >= |M|**	<.0001
Signed Rank	**S**	2525	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.985048	**Pr < W**	0.3201
Kolmogorov-Smirnov	**D**	0.078645	**Pr > D**	0.1303
Cramer-von Mises	**W-Sq**	0.064259	**Pr > W-Sq**	>0.2500
Anderson-Darling	**A-Sq**	0.421888	**Pr > A-Sq**	>0.2500

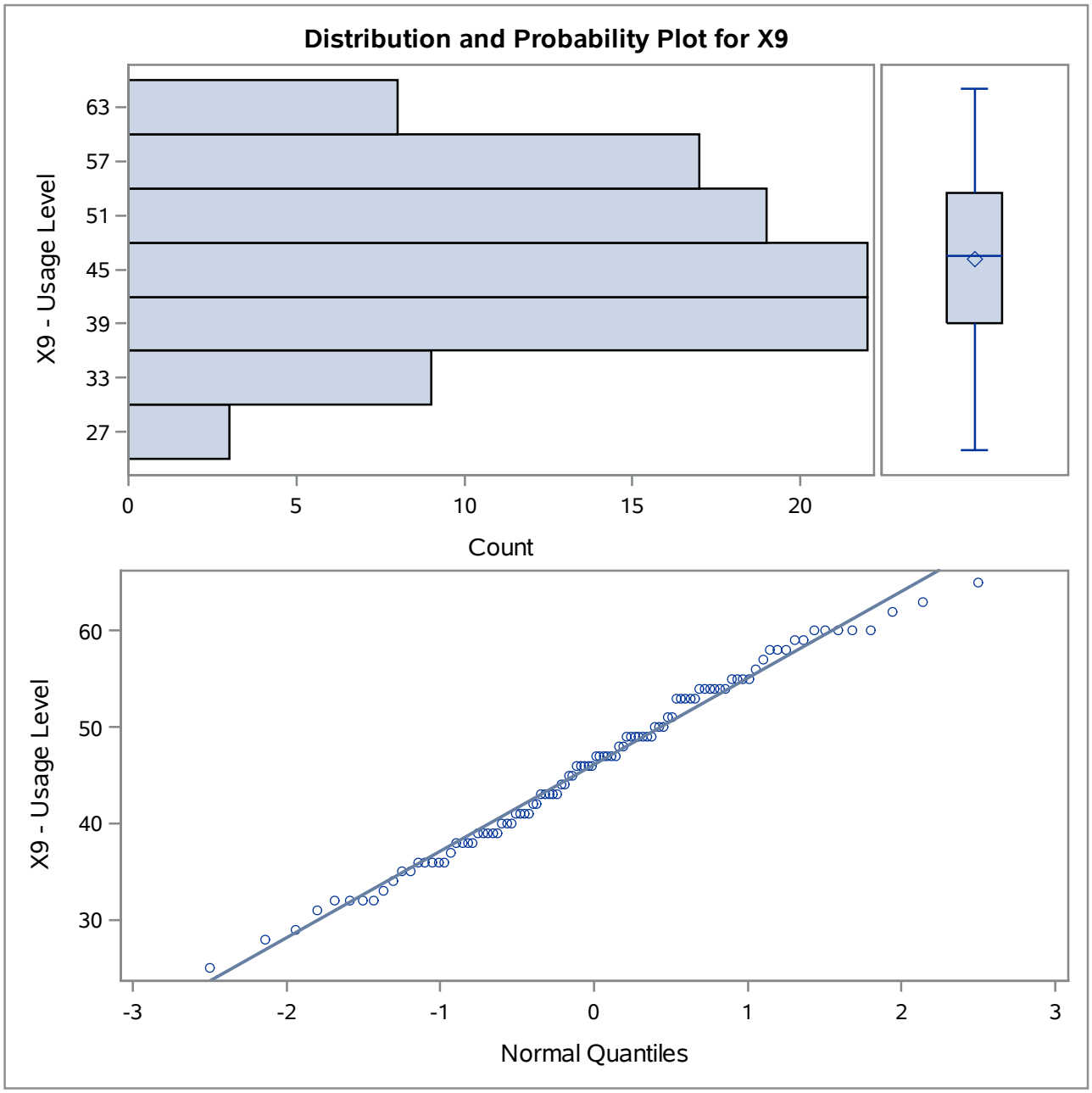
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	65.0
99%	64.0
95%	60.0
90%	58.5
75% Q3	53.5
50% Median	46.5
25% Q1	39.0

The UNIVARIATE Procedure
Variable: X9 (X9 - Usage Level)

Quantiles (Definition 5)	
Level	**Quantile**
10%	34.5
5%	32.0
1%	26.5
0% Min	25.0

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
25	96	60	90
28	40	60	97
29	39	62	57
31	95	63	9
32	54	65	58

The UNIVARIATE Procedure



The UNIVARIATE Procedure
Variable: X10 (X10 - Satisfaction Level)

Moments			
N	100	**Sum Weights**	100
Mean	4.771	**Sum Observations**	477.1
Std Deviation	0.85555759	**Variance**	0.73197879
Skewness	0.08940227	**Kurtosis**	-0.7627554
Uncorrected SS	2348.71	**Corrected SS**	72.4659
Coeff Variation	17.9324584	**Std Error Mean**	0.08555576

Basic Statistical Measures			
Location		**Variability**	
Mean	4.771000	**Std Deviation**	0.85556
Median	4.850000	**Variance**	0.73198
Mode	3.700000	**Range**	3.60000
		Interquartile Range	1.30000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	55.7648	**Pr > |t|**	<.0001
Sign	**M**	50	**Pr >= |M|**	<.0001
Signed Rank	**S**	2525	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.97675	**Pr < W**	0.0740
Kolmogorov-Smirnov	**D**	0.077723	**Pr > D**	0.1408
Cramer-von Mises	**W-Sq**	0.090496	**Pr > W-Sq**	0.1503
Anderson-Darling	**A-Sq**	0.608237	**Pr > A-Sq**	0.1129

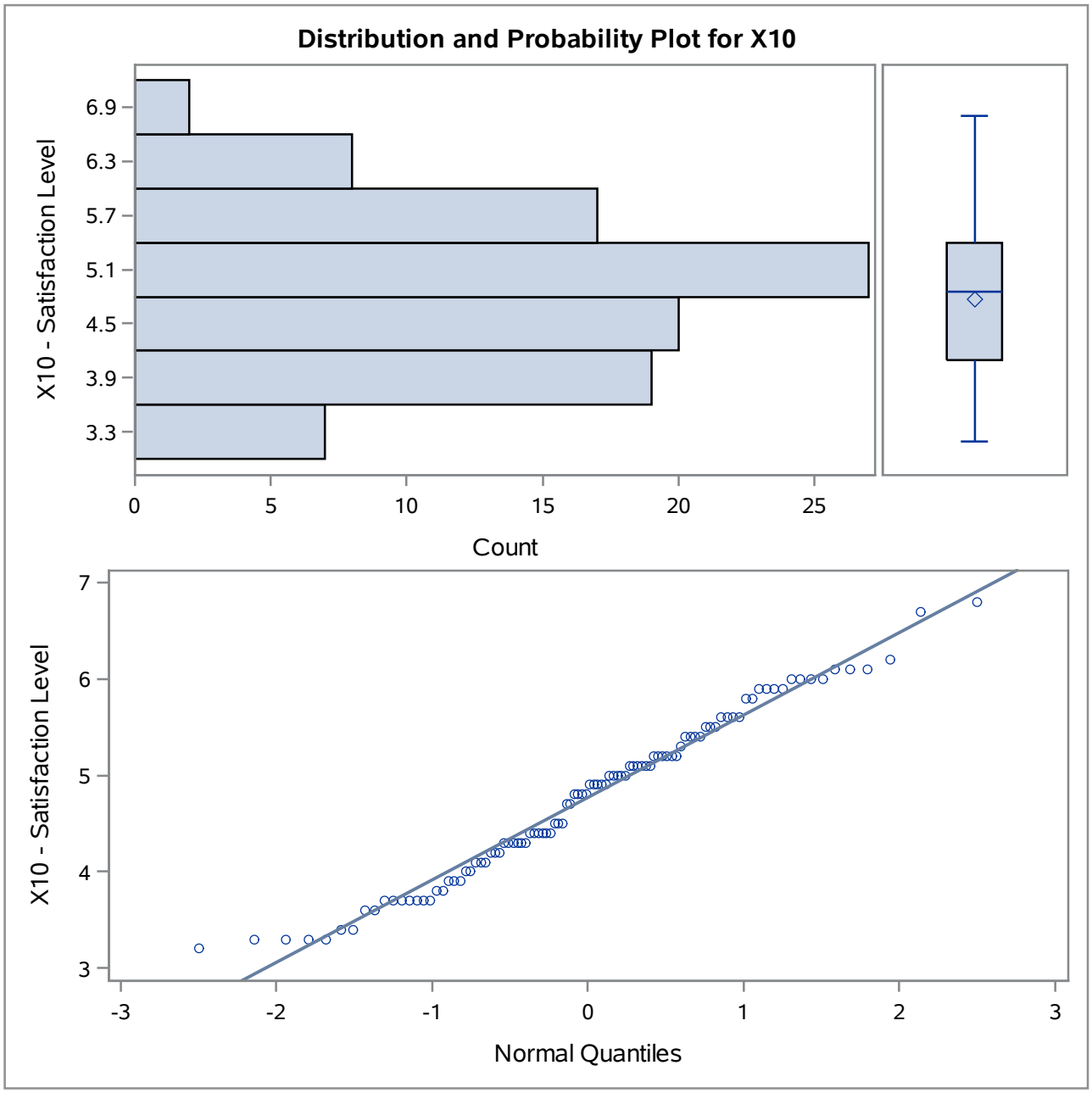
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	6.80
99%	6.75
95%	6.10
90%	5.95
75% Q3	5.40
50% Median	4.85
25% Q1	4.10

The UNIVARIATE Procedure
Variable: X10 (X10 - Satisfaction Level)

Quantiles (Definition 5)	
Level	**Quantile**
10%	3.70
5%	3.35
1%	3.25
0% Min	3.20

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
3.2	45	6.1	62
3.3	79	6.1	90
3.3	40	6.2	57
3.3	31	6.7	42
3.3	22	6.8	5

The UNIVARIATE Procedure



The UNIVARIATE Procedure
Variable: X9 (X9 - Usage Level)

X14 - Type of Buying Situation=1

Moments			
N	34	**Sum Weights**	34
Mean	36.9117647	**Sum Observations**	1255
Std Deviation	5.05945049	**Variance**	25.5980392
Skewness	-0.2121497	**Kurtosis**	-0.1291778
Uncorrected SS	47169	**Corrected SS**	844.735294
Coeff Variation	13.7068778	**Std Error Mean**	0.8676886

Basic Statistical Measures			
Location		**Variability**	
Mean	36.91176	**Std Deviation**	5.05945
Median	37.50000	**Variance**	25.59804
Mode	32.00000	**Range**	22.00000
		Interquartile Range	7.00000

Note: The mode displayed is the smallest of 3 modes with a count of 4.

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.54034	**Pr > |t|**	<.0001
Sign	**M**	17	**Pr >= |M|**	<.0001
Signed Rank	**S**	297.5	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.987046	**Pr < W**	0.9509
Kolmogorov-Smirnov	**D**	0.085151	**Pr > D**	>0.1500
Cramer-von Mises	**W-Sq**	0.031849	**Pr > W-Sq**	>0.2500
Anderson-Darling	**A-Sq**	0.194545	**Pr > A-Sq**	>0.2500

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	47.0
99%	47.0
95%	46.0
90%	43.0
75% Q3	40.0

The UNIVARIATE Procedure
Variable: X9 (X9 - Usage Level)

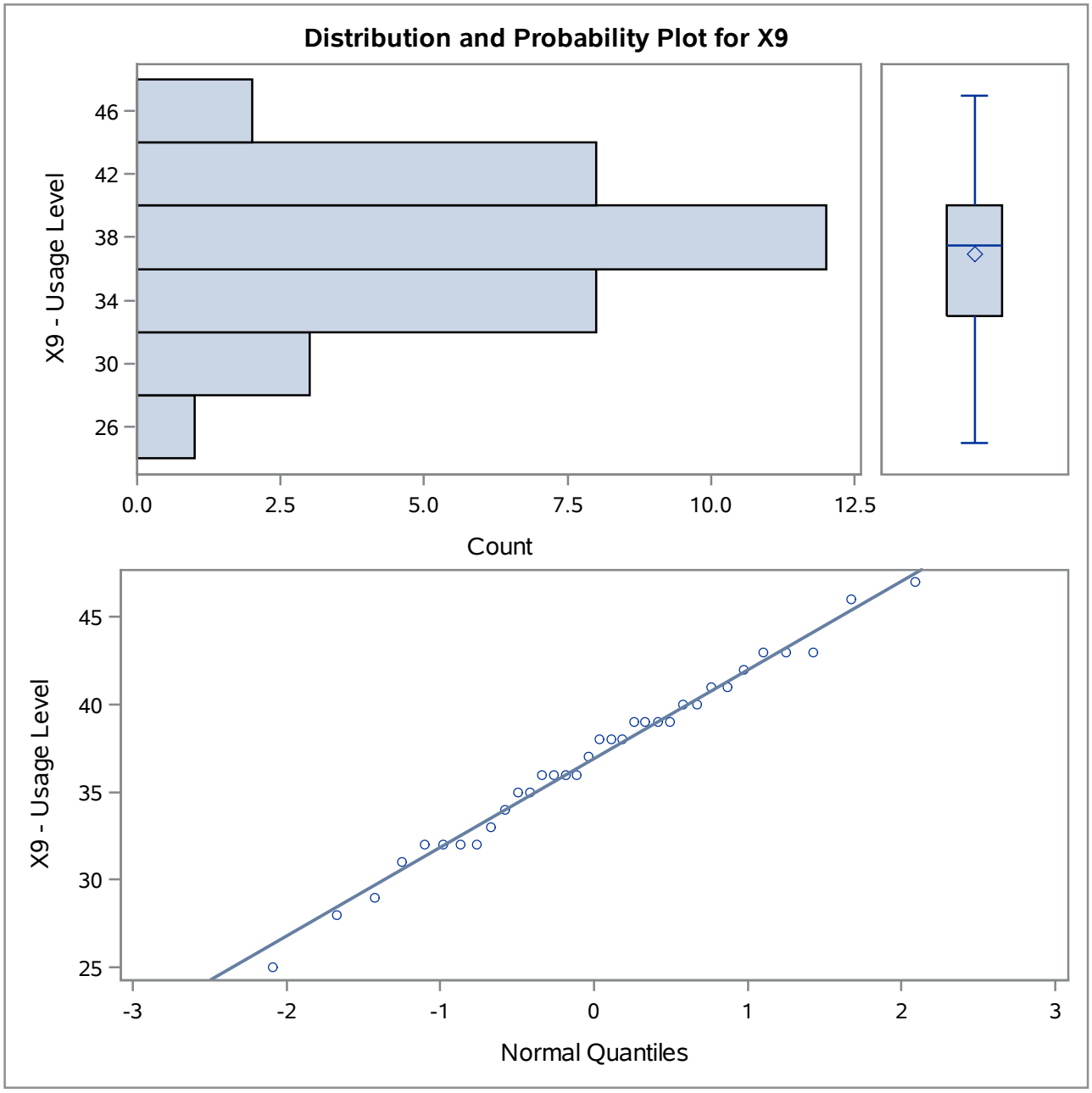
X14 - Type of Buying Situation=1

Quantiles (Definition 5)	
Level	**Quantile**
50% Median	37.5
25% Q1	33.0
10%	31.0
5%	28.0
1%	25.0
0% Min	25.0

Extreme Observations					
Lowest			**Highest**		
Value	**X14**	**Obs**	**Value**	**X14**	**Obs**
25	1	31	43	1	2
28	1	16	43	1	11
29	1	15	43	1	26
31	1	30	46	1	4
32	1	19	47	1	12

The UNIVARIATE Procedure

X14 - Type of Buying Situation=1



The UNIVARIATE Procedure
Variable: X10 (X10 - Satisfaction Level)

X14 - Type of Buying Situation=1

Moments			
N	34	**Sum Weights**	34
Mean	3.92941176	**Sum Observations**	133.6
Std Deviation	0.53116762	**Variance**	0.28213904
Skewness	1.39295561	**Kurtosis**	3.51049493
Uncorrected SS	534.28	**Corrected SS**	9.31058824
Coeff Variation	13.5177388	**Std Error Mean**	0.09109449

Basic Statistical Measures			
Location		**Variability**	
Mean	3.929412	**Std Deviation**	0.53117
Median	3.850000	**Variance**	0.28214
Mode	3.700000	**Range**	2.60000
		Interquartile Range	0.70000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	43.13556	**Pr > |t|**	<.0001
Sign	**M**	17	**Pr >= |M|**	<.0001
Signed Rank	**S**	297.5	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.88984	**Pr < W**	0.0025
Kolmogorov-Smirnov	**D**	0.137682	**Pr > D**	0.0984
Cramer-von Mises	**W-Sq**	0.106794	**Pr > W-Sq**	0.0901
Anderson-Darling	**A-Sq**	0.820855	**Pr > A-Sq**	0.0317

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.80
99%	5.80
95%	5.00
90%	4.40
75% Q3	4.30
50% Median	3.85

The UNIVARIATE Procedure
Variable: X10 (X10 - Satisfaction Level)

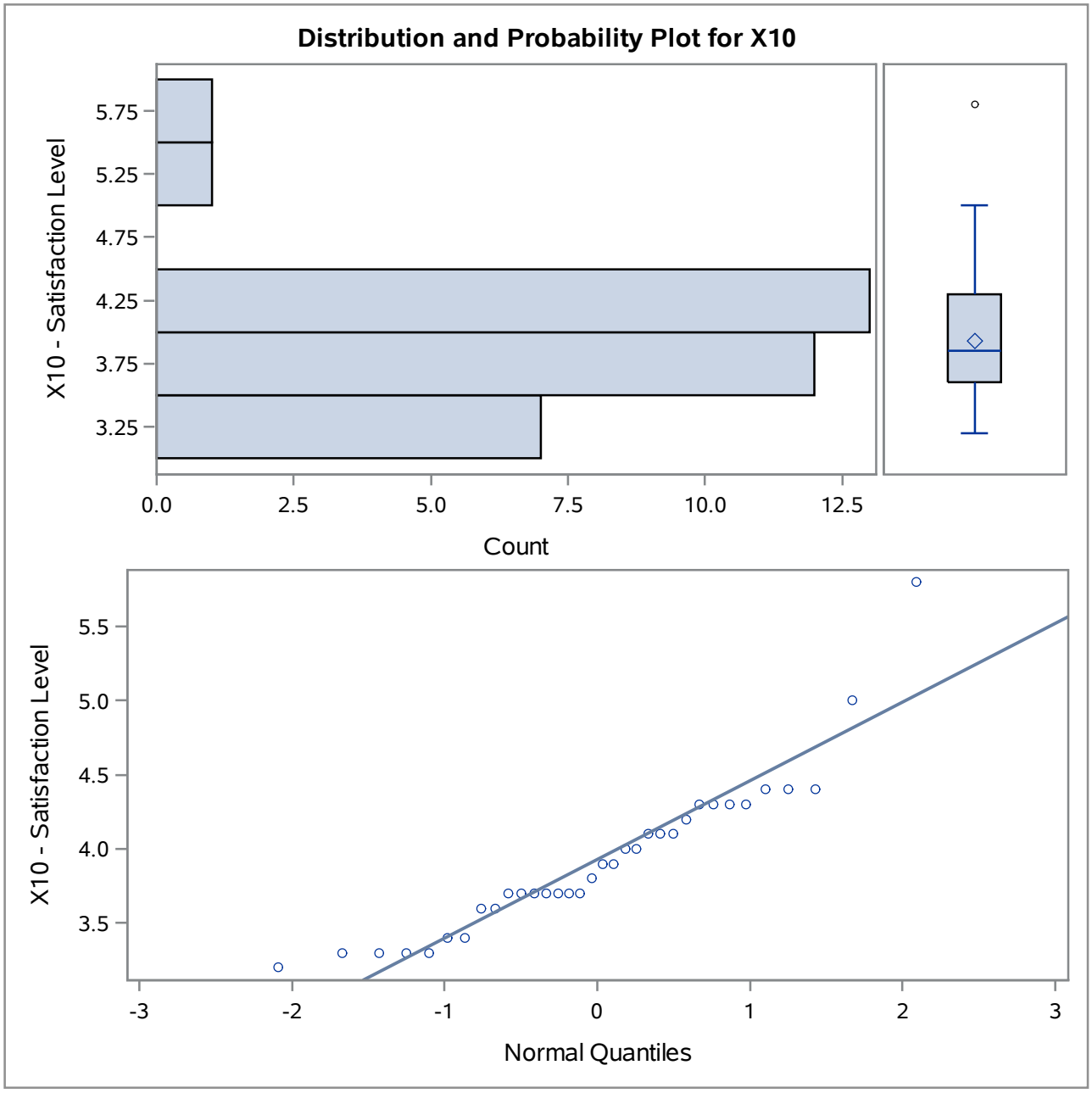
X14 - Type of Buying Situation=1

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	3.60
10%	3.30
5%	3.30
1%	3.20
0% Min	3.20

Extreme Observations					
Lowest			**Highest**		
Value	**X14**	**Obs**	**Value**	**X14**	**Obs**
3.2	1	18	4.4	1	6
3.3	1	23	4.4	1	25
3.3	1	16	4.4	1	34
3.3	1	11	5.0	1	7
3.3	1	8	5.8	1	4

The UNIVARIATE Procedure

X14 - Type of Buying Situation=1



The UNIVARIATE Procedure
Variable: X9 (X9 - Usage Level)

X14 - Type of Buying Situation=2

Moments			
N	32	**Sum Weights**	32
Mean	46.53125	**Sum Observations**	1489
Std Deviation	5.30358597	**Variance**	28.1280242
Skewness	0.43512641	**Kurtosis**	1.14972938
Uncorrected SS	70157	**Corrected SS**	871.96875
Coeff Variation	11.3979014	**Std Error Mean**	0.9375504

Basic Statistical Measures			
Location		**Variability**	
Mean	46.53125	**Std Deviation**	5.30359
Median	47.00000	**Variance**	28.12802
Mode	49.00000	**Range**	26.00000
		Interquartile Range	6.50000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	49.63067	**Pr > |t|**	<.0001
Sign	**M**	16	**Pr >= |M|**	<.0001
Signed Rank	**S**	264	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.973071	**Pr < W**	0.5881
Kolmogorov-Smirnov	**D**	0.100293	**Pr > D**	>0.1500
Cramer-von Mises	**W-Sq**	0.032242	**Pr > W-Sq**	>0.2500
Anderson-Darling	**A-Sq**	0.246757	**Pr > A-Sq**	>0.2500

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	62.0
99%	62.0
95%	54.0
90%	53.0
75% Q3	49.5
50% Median	47.0

The UNIVARIATE Procedure
Variable: X9 (X9 - Usage Level)

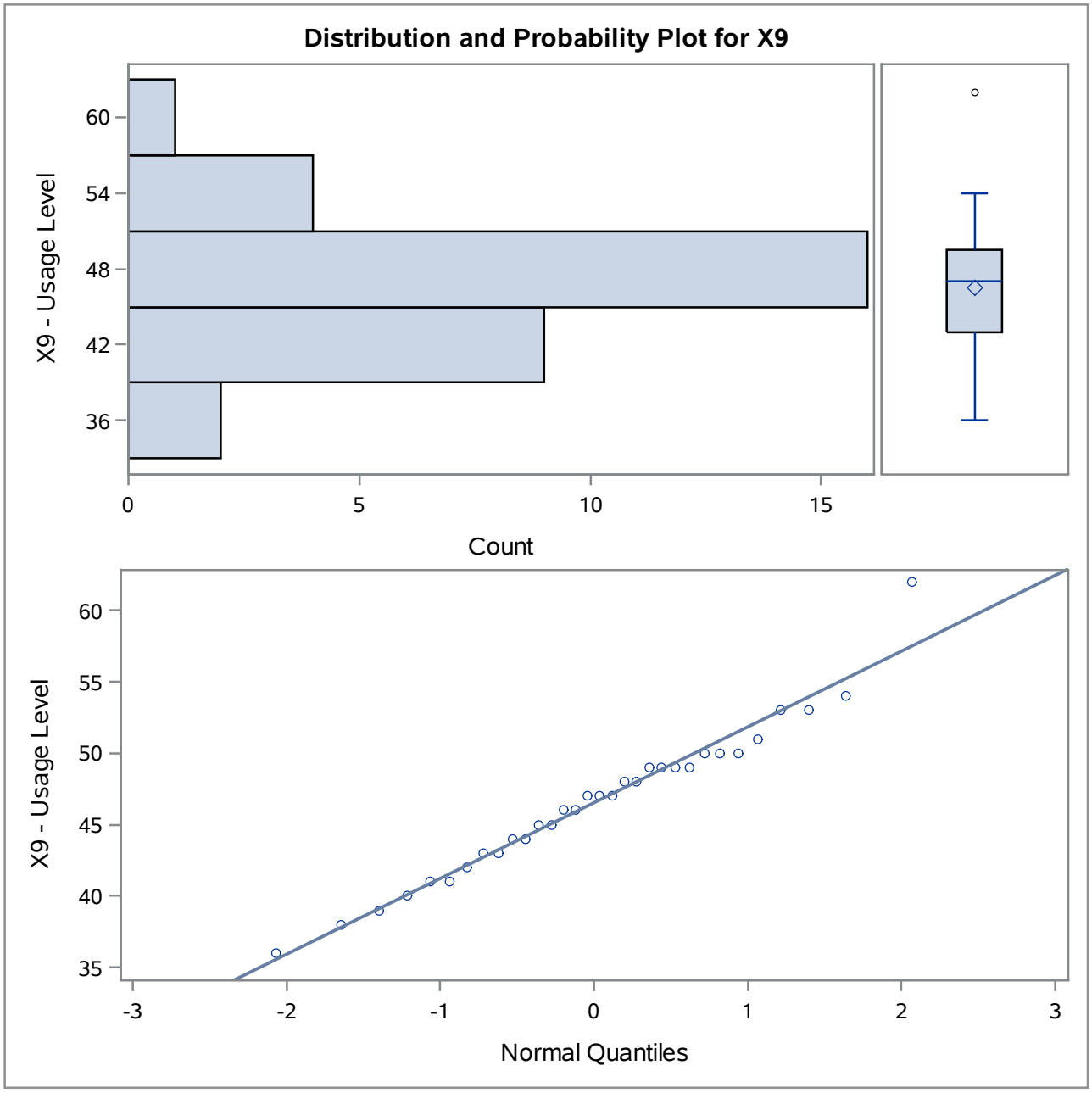
X14 - Type of Buying Situation=2

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	43.0
10%	40.0
5%	38.0
1%	36.0
0% Min	36.0

Extreme Observations					
Lowest			**Highest**		
Value	**X14**	**Obs**	**Value**	**X14**	**Obs**
36	2	54	51	2	63
38	2	40	53	2	49
39	2	65	53	2	62
40	2	41	54	2	38
41	2	48	62	2	52

The UNIVARIATE Procedure

X14 - Type of Buying Situation=2



The UNIVARIATE Procedure
Variable: X10 (X10 - Satisfaction Level)

X14 - Type of Buying Situation=2

Moments			
N	32	**Sum Weights**	32
Mean	5.003125	**Sum Observations**	160.1
Std Deviation	0.48691549	**Variance**	0.23708669
Skewness	0.15680901	**Kurtosis**	-0.3276455
Uncorrected SS	808.35	**Corrected SS**	7.3496875
Coeff Variation	9.73222714	**Std Error Mean**	0.08607531

Basic Statistical Measures			
Location		**Variability**	
Mean	5.003125	**Std Deviation**	0.48692
Median	5.000000	**Variance**	0.23709
Mode	5.200000	**Range**	2.00000
		Interquartile Range	0.80000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	58.12497	**Pr > |t|**	<.0001
Sign	**M**	16	**Pr >= |M|**	<.0001
Signed Rank	**S**	264	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.965145	**Pr < W**	0.3772
Kolmogorov-Smirnov	**D**	0.099266	**Pr > D**	>0.1500
Cramer-von Mises	**W-Sq**	0.042172	**Pr > W-Sq**	>0.2500
Anderson-Darling	**A-Sq**	0.342386	**Pr > A-Sq**	>0.2500

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	6.2
99%	6.2
95%	5.6
90%	5.6
75% Q3	5.4
50% Median	5.0

The UNIVARIATE Procedure
Variable: X10 (X10 - Satisfaction Level)

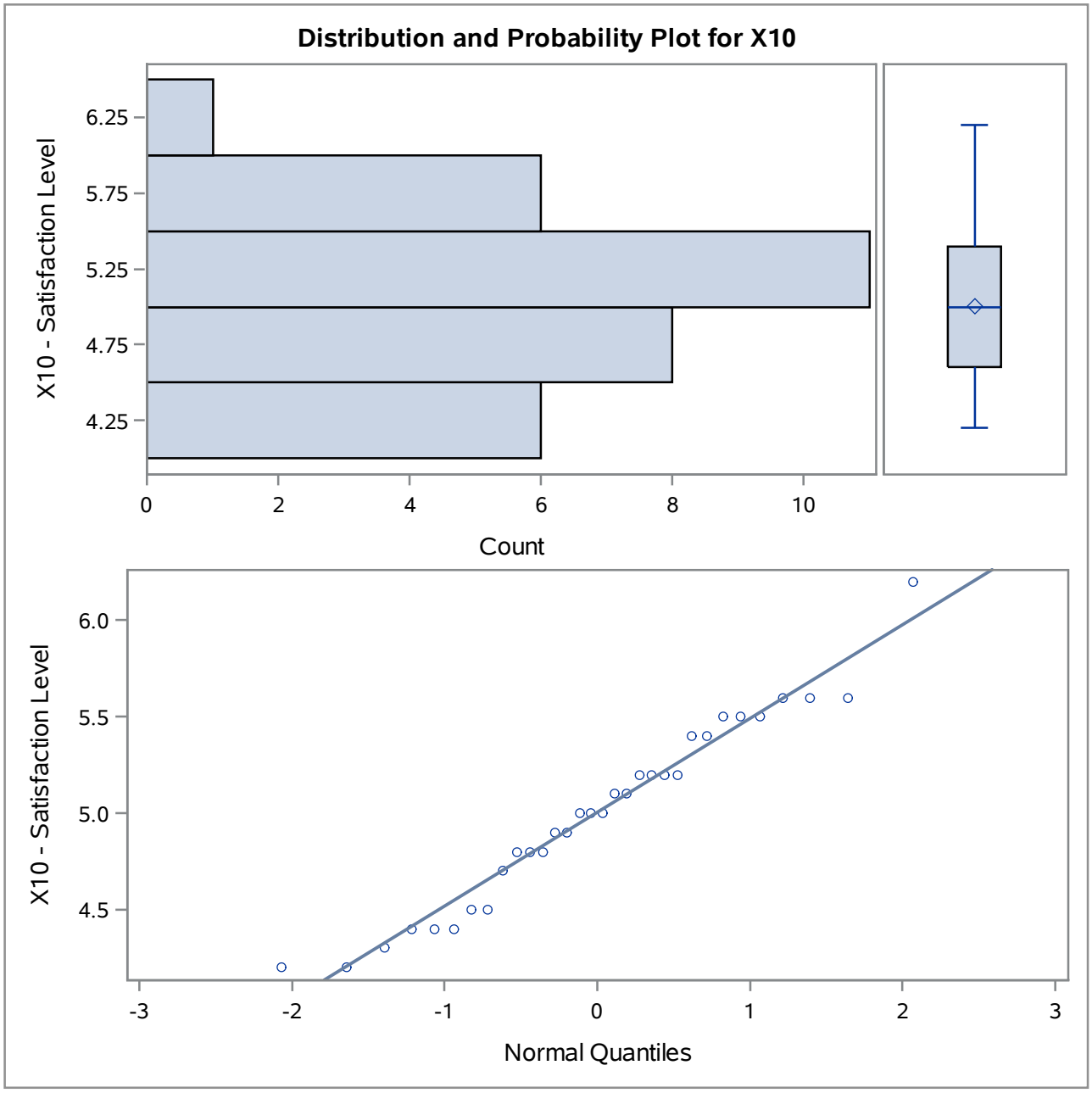
X14 - Type of Buying Situation=2

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	4.6
10%	4.4
5%	4.2
1%	4.2
0% Min	4.2

Extreme Observations					
Lowest			**Highest**		
Value	**X14**	**Obs**	**Value**	**X14**	**Obs**
4.2	2	54	5.5	2	65
4.2	2	51	5.6	2	41
4.3	2	37	5.6	2	61
4.4	2	64	5.6	2	62
4.4	2	40	6.2	2	52

The UNIVARIATE Procedure

X14 - Type of Buying Situation=2



The UNIVARIATE Procedure
Variable: X9 (X9 - Usage Level)

X14 - Type of Buying Situation=3

Moments			
N	34	**Sum Weights**	34
Mean	54.8823529	**Sum Observations**	1866
Std Deviation	4.87271131	**Variance**	23.7433155
Skewness	-0.1645841	**Kurtosis**	-0.5102631
Uncorrected SS	103194	**Corrected SS**	783.529412
Coeff Variation	8.87846648	**Std Error Mean**	0.8356631

Basic Statistical Measures			
Location		**Variability**	
Mean	54.88235	**Std Deviation**	4.87271
Median	55.00000	**Variance**	23.74332
Mode	54.00000	**Range**	19.00000
		Interquartile Range	6.00000

Note: The mode displayed is the smallest of 2 modes with a count of 5.

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	65.67521	**Pr > |t|**	<.0001
Sign	**M**	17	**Pr >= |M|**	<.0001
Signed Rank	**S**	297.5	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.962129	**Pr < W**	0.2802
Kolmogorov-Smirnov	**D**	0.114341	**Pr > D**	>0.1500
Cramer-von Mises	**W-Sq**	0.073251	**Pr > W-Sq**	0.2481
Anderson-Darling	**A-Sq**	0.477929	**Pr > A-Sq**	0.2287

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	65
99%	65
95%	63
90%	60
75% Q3	59

The UNIVARIATE Procedure
Variable: X9 (X9 - Usage Level)

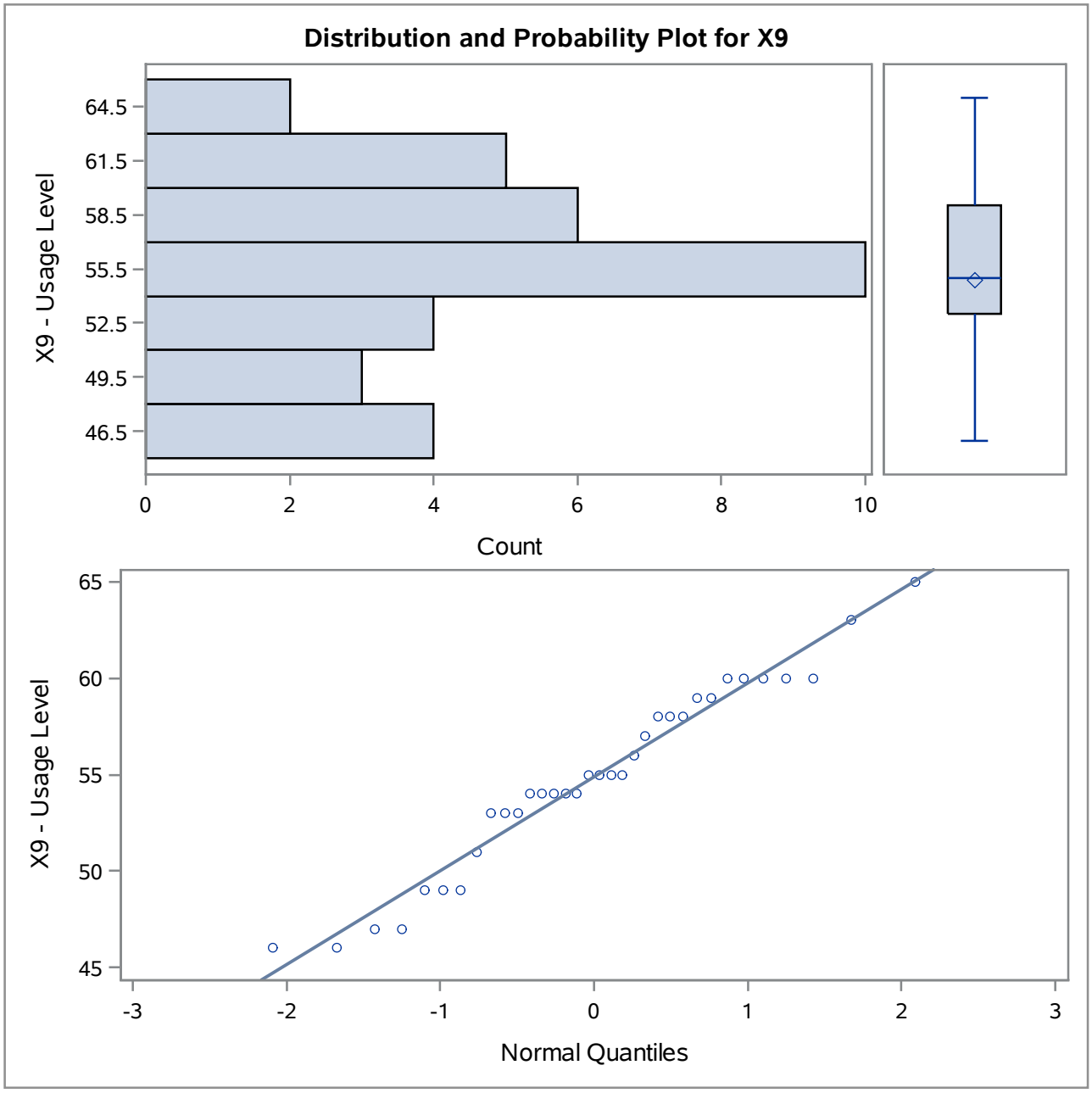
X14 - Type of Buying Situation=3

Quantiles (Definition 5)	
Level	**Quantile**
50% Median	55
25% Q1	53
10%	47
5%	46
1%	46
0% Min	46

Extreme Observations					
Lowest			**Highest**		
Value	**X14**	**Obs**	**Value**	**X14**	**Obs**
46	3	87	60	3	95
46	3	79	60	3	99
47	3	96	60	3	100
47	3	90	63	3	68
49	3	76	65	3	86

The UNIVARIATE Procedure

X14 - Type of Buying Situation=3



The UNIVARIATE Procedure
Variable: X10 (X10 - Satisfaction Level)

X14 - Type of Buying Situation=3

Moments			
N	34	**Sum Weights**	34
Mean	5.39411765	**Sum Observations**	183.4
Std Deviation	0.71348108	**Variance**	0.50905526
Skewness	-0.2616476	**Kurtosis**	-0.137714
Uncorrected SS	1006.08	**Corrected SS**	16.7988235
Coeff Variation	13.2270212	**Std Error Mean**	0.122361

Basic Statistical Measures			
Location		**Variability**	
Mean	5.394118	**Std Deviation**	0.71348
Median	5.350000	**Variance**	0.50906
Mode	5.100000	**Range**	3.00000
		Interquartile Range	1.10000

Note: The mode displayed is the smallest of 3 modes with a count of 4.

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	44.08364	**Pr > |t|**	<.0001
Sign	**M**	17	**Pr >= |M|**	<.0001
Signed Rank	**S**	297.5	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.964113	**Pr < W**	0.3192
Kolmogorov-Smirnov	**D**	0.143201	**Pr > D**	0.0767
Cramer-von Mises	**W-Sq**	0.086602	**Pr > W-Sq**	0.1684
Anderson-Darling	**A-Sq**	0.523186	**Pr > A-Sq**	0.1778

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	6.80
99%	6.80
95%	6.70
90%	6.10
75% Q3	6.00

The UNIVARIATE Procedure
Variable: X10 (X10 - Satisfaction Level)

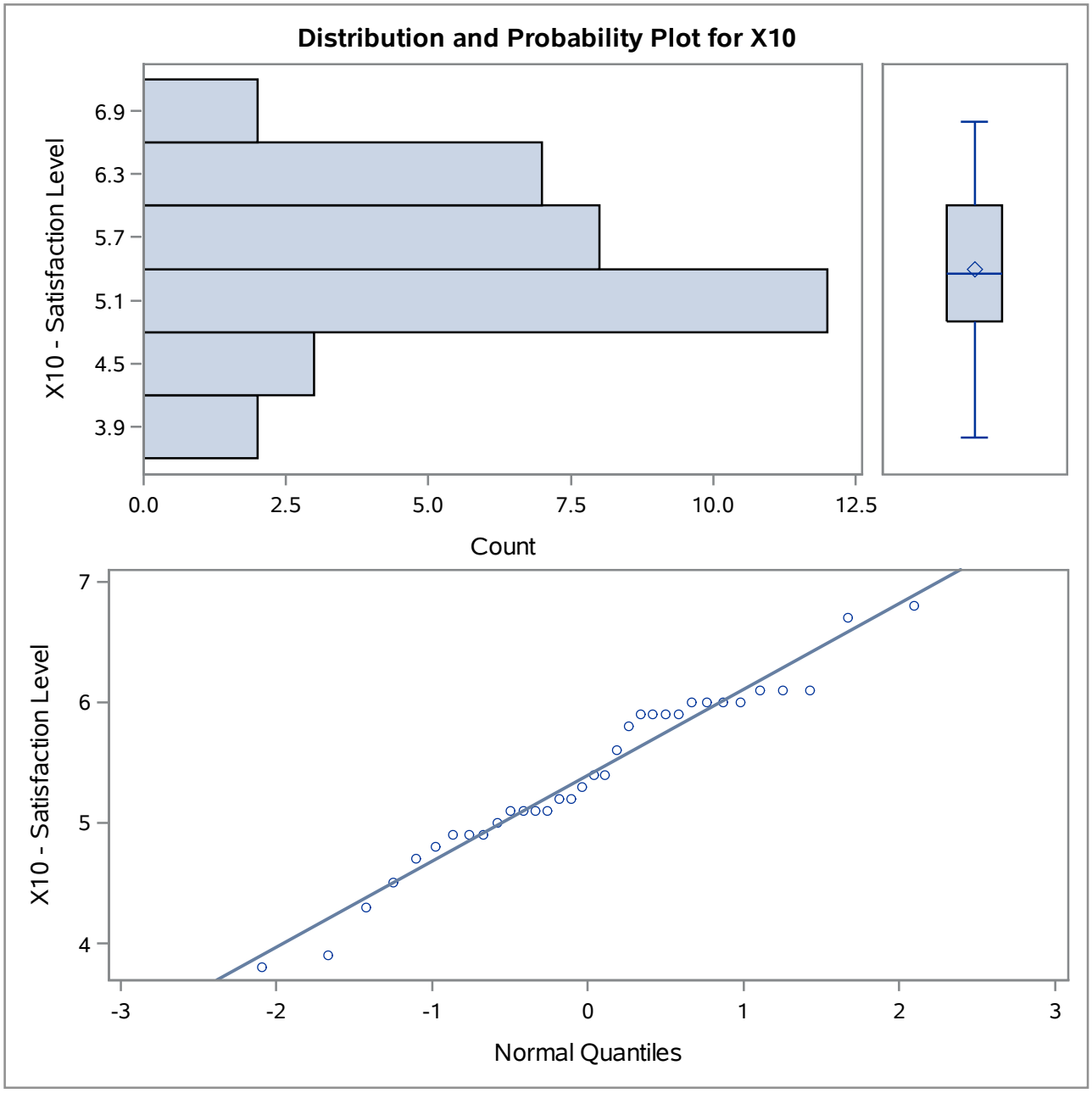
X14 - Type of Buying Situation=3

Quantiles (Definition 5)	
Level	**Quantile**
50% Median	5.35
25% Q1	4.90
10%	4.50
5%	3.90
1%	3.80
0% Min	3.80

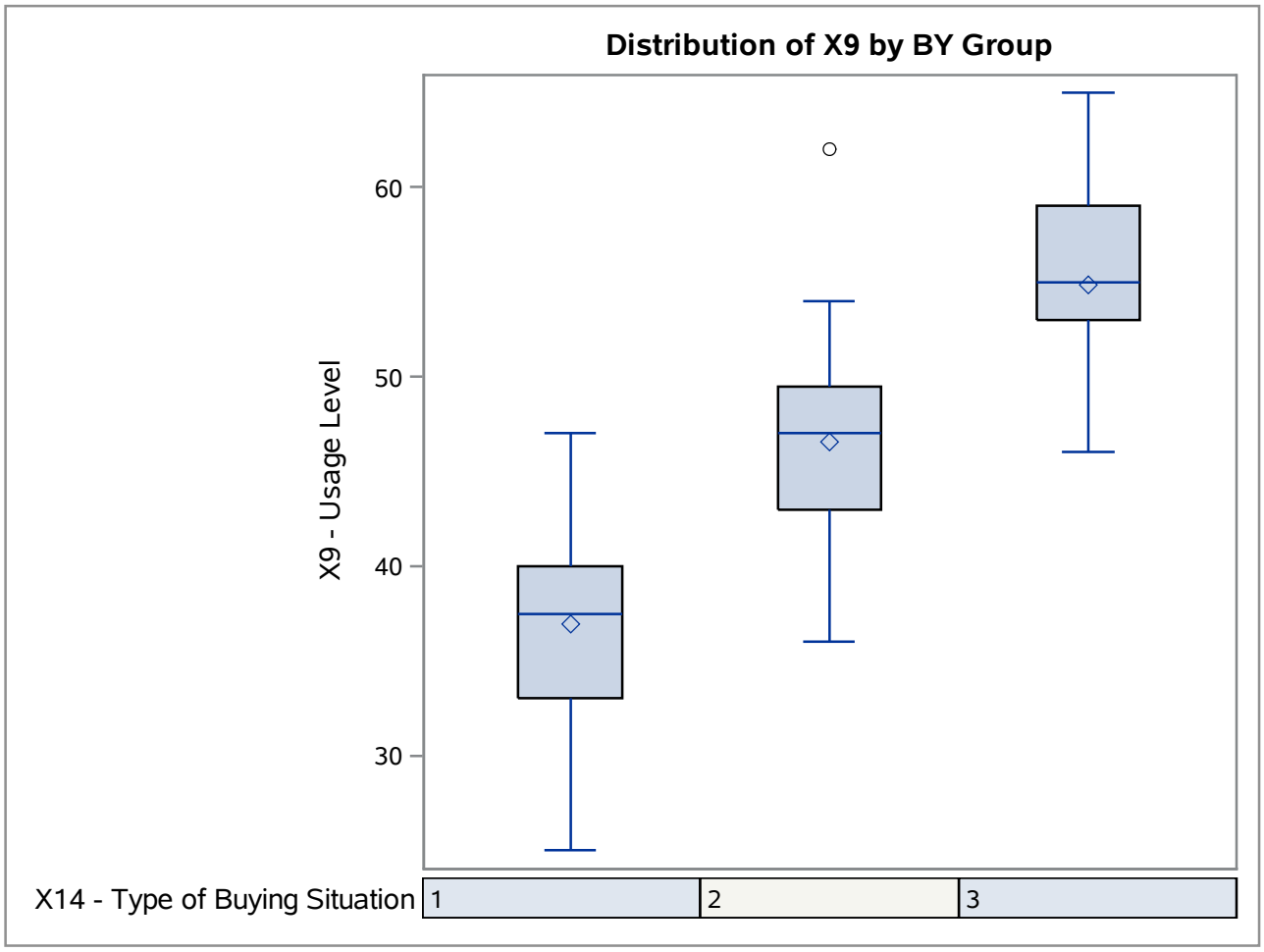
Extreme Observations					
Lowest			**Highest**		
Value	**X14**	**Obs**	**Value**	**X14**	**Obs**
3.8	3	85	6.1	3	78
3.9	3	93	6.1	3	89
4.3	3	92	6.1	3	99
4.5	3	98	6.7	3	80
4.7	3	70	6.8	3	67

The UNIVARIATE Procedure

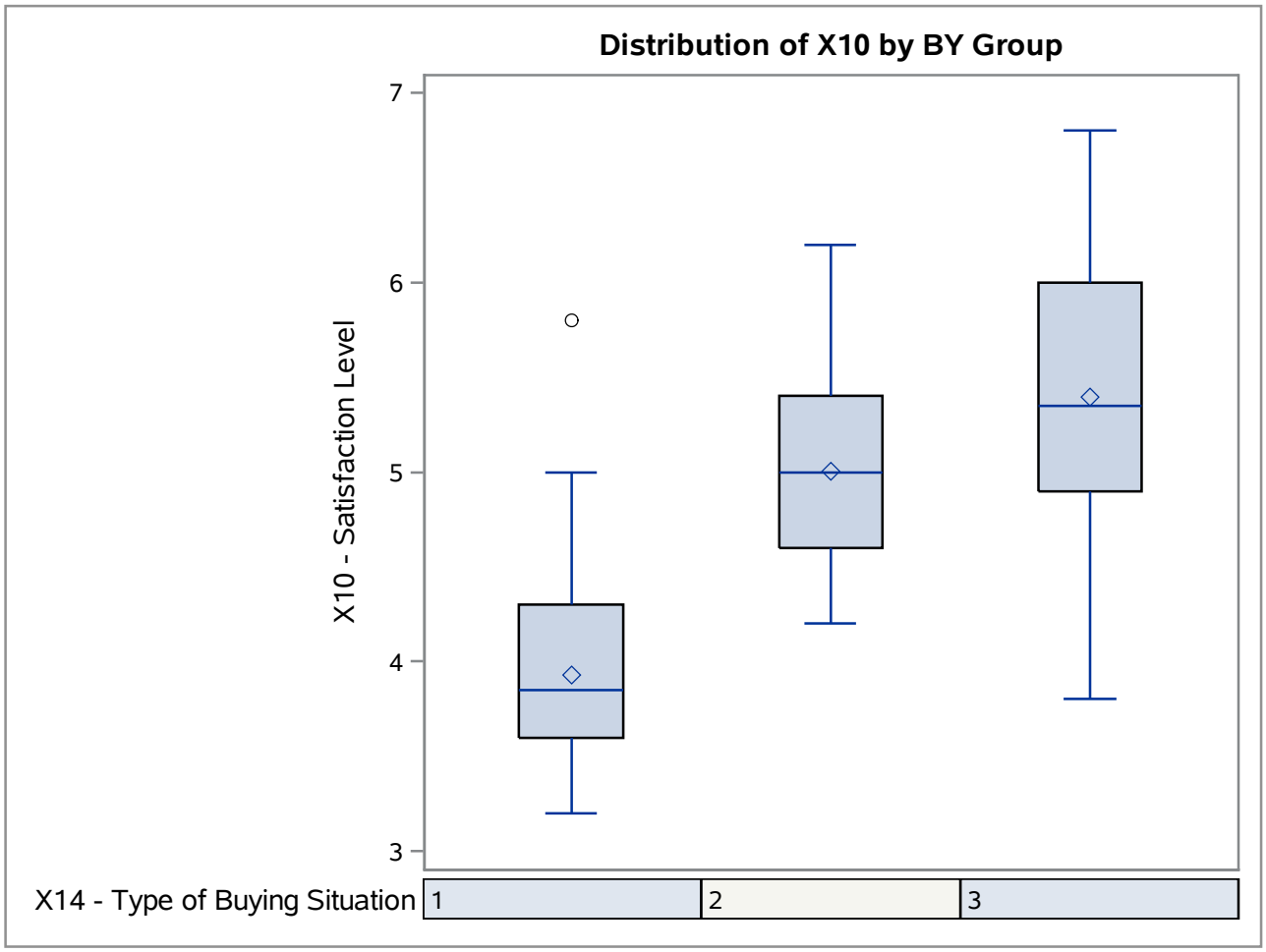
X14 - Type of Buying Situation=3



The UNIVARIATE Procedure



The UNIVARIATE Procedure



The GLM Procedure

Class Level Information		
Class	Levels	Values
X14	3	1 2 3

Number of Observations Read	100
Number of Observations Used	100

The GLM Procedure

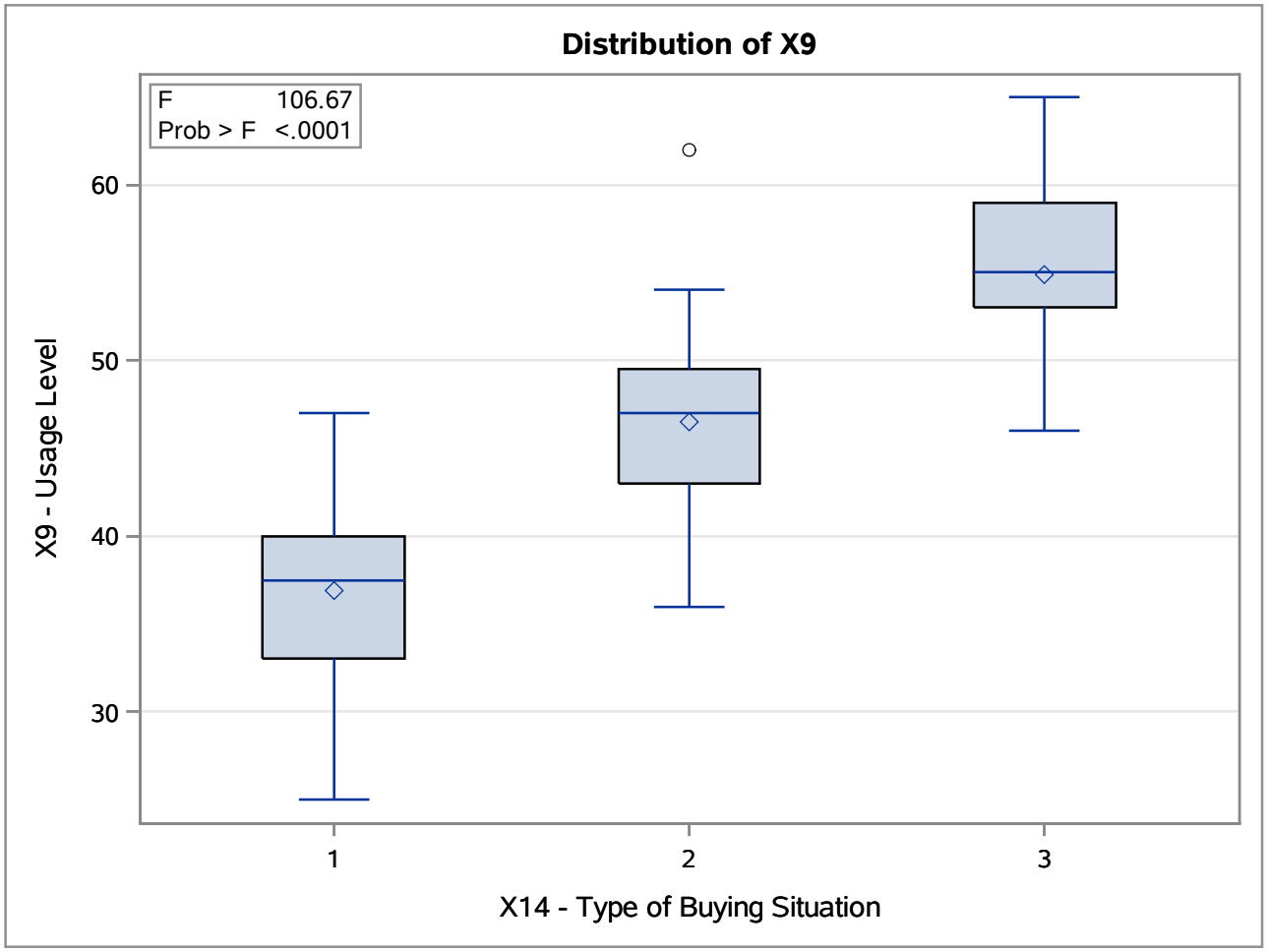
Dependent Variable: X9 X9 - Usage Level

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	5498.766544	2749.383272	106.67	<.0001
Error	97	2500.233456	25.775603		
Corrected Total	99	7999.000000			

R-Square	Coeff Var	Root MSE	X9 Mean
0.687432	11.01295	5.076968	46.10000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
X14	2	5498.766544	2749.383272	106.67	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
X14	2	5498.766544	2749.383272	106.67	<.0001



The GLM Procedure

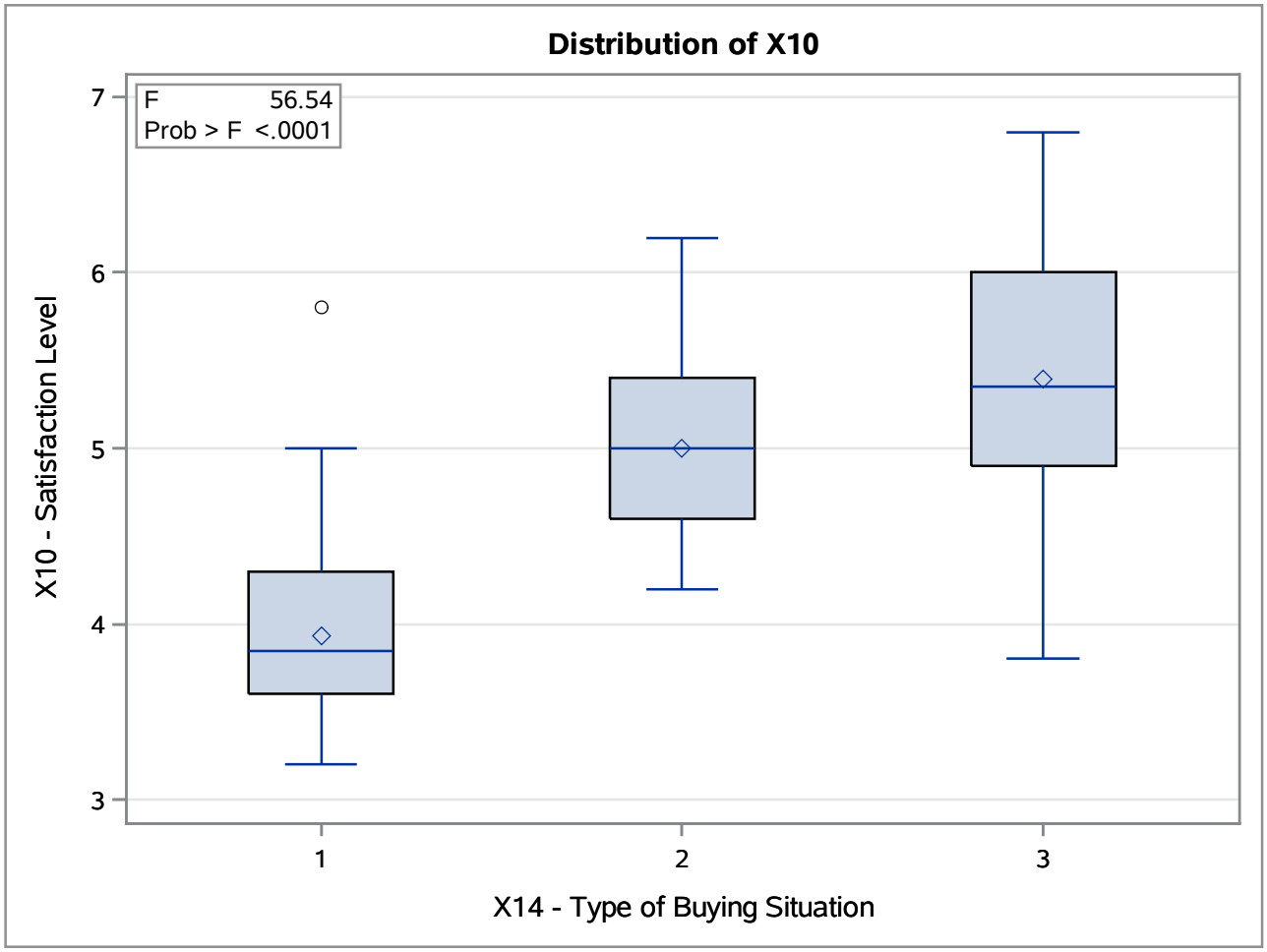
Dependent Variable: X10 X10 - Satisfaction Level

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	39.00680074	19.50340037	56.54	<.0001
Error	97	33.45909926	0.34493917		
Corrected Total	99	72.46590000			

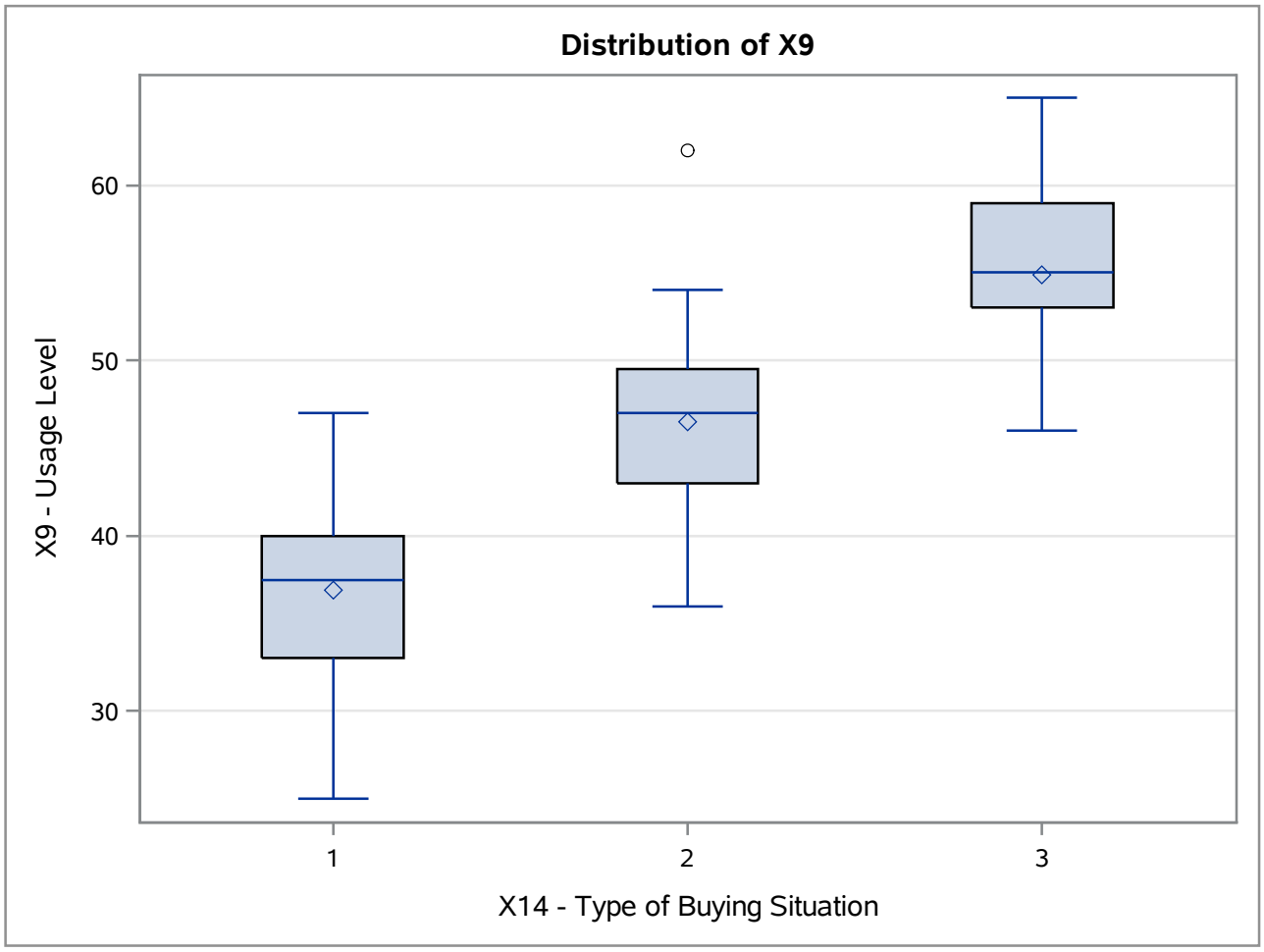
R-Square	Coeff Var	Root MSE	X10 Mean
0.538278	12.31011	0.587315	4.771000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
X14	2	39.00680074	19.50340037	56.54	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
X14	2	39.00680074	19.50340037	56.54	<.0001



The GLM Procedure



The GLM Procedure

t Tests (LSD) for X9

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	97
Error Mean Square	25.7756
Critical Value of t	1.98472
Least Significant Difference	2.4692
Harmonic Mean of Cell Sizes	33.30612

Note: Cell sizes are not equal.

Means with the same letter are not significantly different.			
t Grouping	**Mean**	**N**	**X14**
A	54.882	34	3
B	46.531	32	2
C	36.912	34	1

The GLM Procedure

Duncan's Multiple Range Test for X9

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	97
Error Mean Square	25.7756
Harmonic Mean of Cell Sizes	33.30612

Note: Cell sizes are not equal.

Number of Means	**2**	**3**
Critical Range	2.469	2.598

Means with the same letter are not significantly different.			
Duncan Grouping	**Mean**	**N**	**X14**
A	54.882	34	3
B	46.531	32	2
C	36.912	34	1

The GLM Procedure

Student-Newman-Keuls Test for X9

Note: This test controls the Type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha	0.05
Error Degrees of Freedom	97
Error Mean Square	25.7756
Harmonic Mean of Cell Sizes	33.30612

Note: Cell sizes are not equal.

Number of Means	**2**	**3**
Critical Range	2.4692062	2.9612475

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	X14
A	54.882	34	3
B	46.531	32	2
C	36.912	34	1

The GLM Procedure

Tukey's Studentized Range (HSD) Test for X9

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

Alpha	0.05
Error Degrees of Freedom	97
Error Mean Square	25.7756
Critical Value of Studentized Range	3.36614
Minimum Significant Difference	2.9612
Harmonic Mean of Cell Sizes	33.30612

Note: Cell sizes are not equal.

Means with the same letter are not significantly different.			
Tukey Grouping	**Mean**	**N**	**X14**
A	54.882	34	3
B	46.531	32	2
C	36.912	34	1

The GLM Procedure

Scheffe's Test for X9

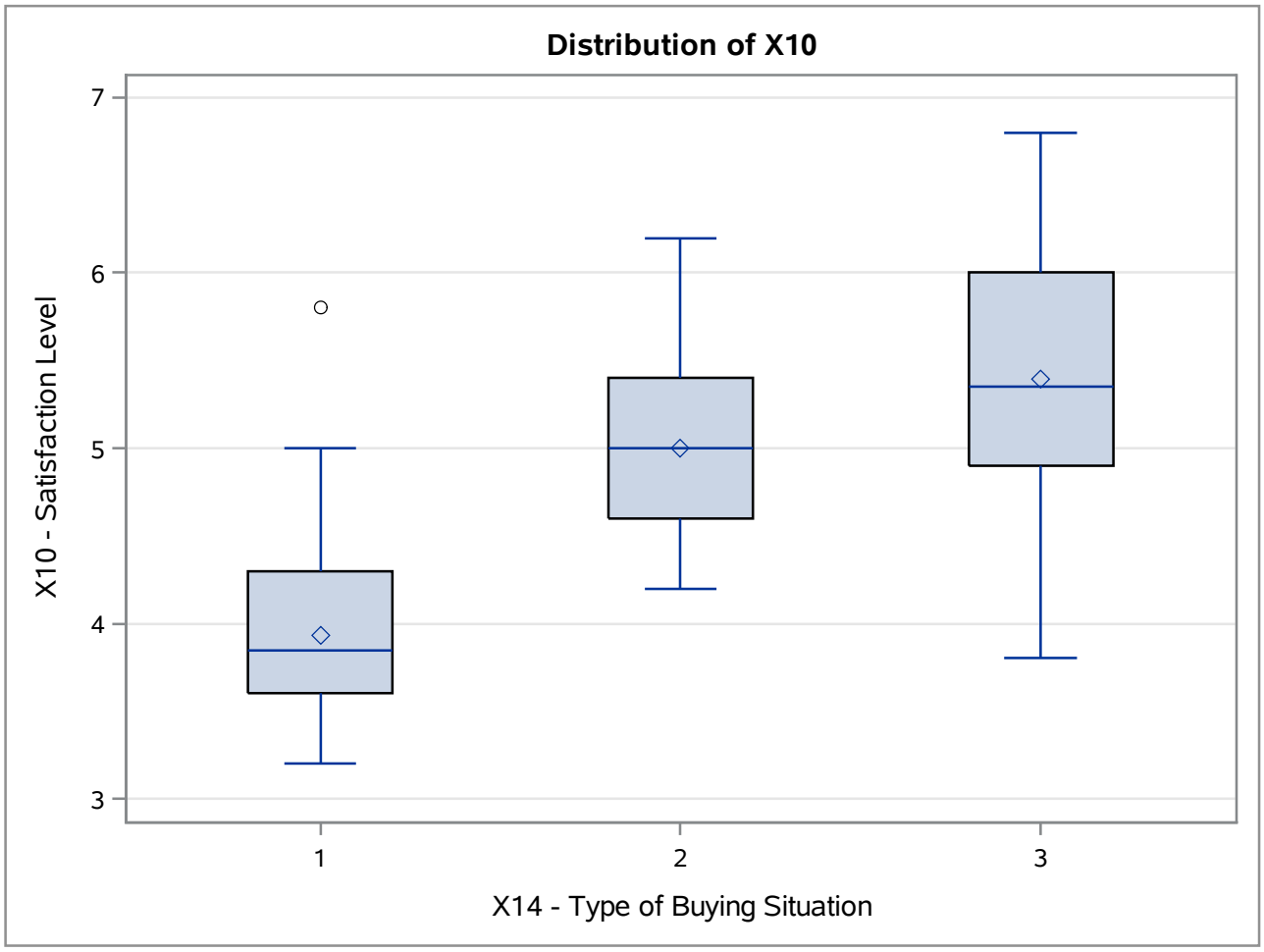
Note: This test controls the Type I experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	97
Error Mean Square	25.7756
Critical Value of F	3.09019
Minimum Significant Difference	3.0929
Harmonic Mean of Cell Sizes	33.30612

Note: Cell sizes are not equal.

Means with the same letter are not significantly different.			
Scheffe Grouping	**Mean**	**N**	**X14**
A	54.882	34	3
B	46.531	32	2
C	36.912	34	1

The GLM Procedure



The GLM Procedure

t Tests (LSD) for X10

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	97
Error Mean Square	0.344939
Critical Value of t	1.98472
Least Significant Difference	0.2856
Harmonic Mean of Cell Sizes	33.30612

Note: Cell sizes are not equal.

Means with the same letter are not significantly different.			
t Grouping	**Mean**	**N**	**X14**
A	5.3941	34	3
B	5.0031	32	2
C	3.9294	34	1

The GLM Procedure

Duncan's Multiple Range Test for X10

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	97
Error Mean Square	0.344939
Harmonic Mean of Cell Sizes	33.30612

Note: Cell sizes are not equal.

Number of Means	**2**	**3**
Critical Range	.2856	.3006

Means with the same letter are not significantly different.			
Duncan Grouping	**Mean**	**N**	**X14**
A	5.3941	34	3
B	5.0031	32	2
C	3.9294	34	1

The GLM Procedure

Student-Newman-Keuls Test for X10

Note: This test controls the Type I experimentwise error rate under the complete null hypothesis but not under partial null hypotheses.

Alpha	0.05
Error Degrees of Freedom	97
Error Mean Square	0.344939
Harmonic Mean of Cell Sizes	33.30612

Note: Cell sizes are not equal.

Number of Means	**2**	**3**
Critical Range	0.2856434	0.3425639

Means with the same letter are not significantly different.

SNK Grouping	Mean	N	X14
A	5.3941	34	3
B	5.0031	32	2
C	3.9294	34	1

The GLM Procedure

Tukey's Studentized Range (HSD) Test for X10

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

Alpha	0.05
Error Degrees of Freedom	97
Error Mean Square	0.344939
Critical Value of Studentized Range	3.36614
Minimum Significant Difference	0.3426
Harmonic Mean of Cell Sizes	33.30612

Note: Cell sizes are not equal.

Means with the same letter are not significantly different.			
Tukey Grouping	**Mean**	**N**	**X14**
A	5.3941	34	3
B	5.0031	32	2
C	3.9294	34	1

The GLM Procedure

Scheffe's Test for X10

Note: This test controls the Type I experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	97
Error Mean Square	0.344939
Critical Value of F	3.09019
Minimum Significant Difference	0.3578
Harmonic Mean of Cell Sizes	33.30612

Note: Cell sizes are not equal.

Means with the same letter are not significantly different.			
Scheffe Grouping	**Mean**	**N**	**X14**
A	5.3941	34	3
B	5.0031	32	2
C	3.9294	34	1

The GLM Procedure

Levene's Test for Homogeneity of X9 Variance ANOVA of Squared Deviations from Group Means					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
X14	2	292.6	146.3	0.11	0.8948
Error	97	127586	1315.3		

Brown and Forsythe's Test for Homogeneity of X9 Variance ANOVA of Absolute Deviations from Group Medians					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
X14	2	0.9595	0.4797	0.05	0.9522
Error	97	950.4	9.7977		

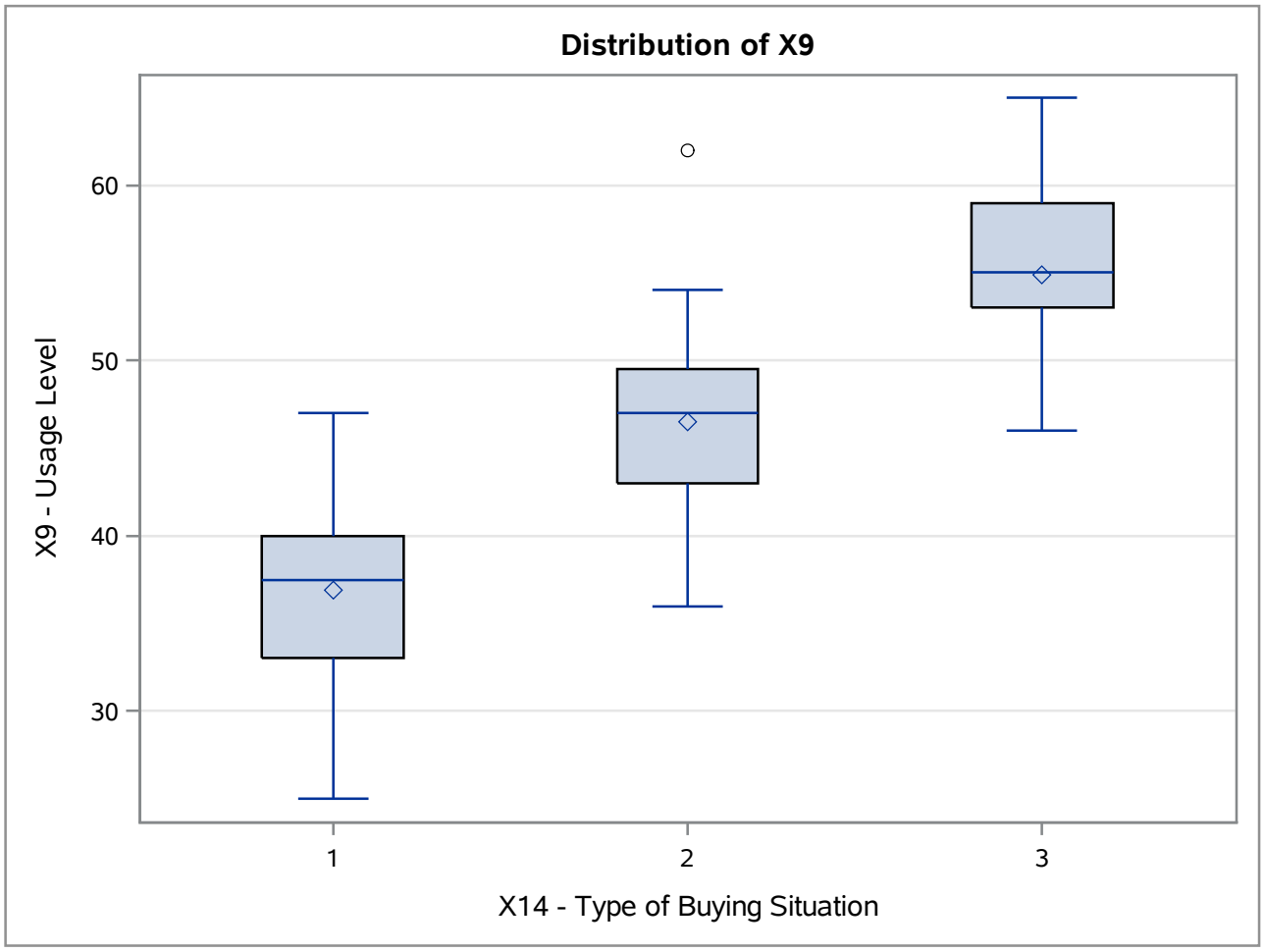
Bartlett's Test for Homogeneity of X9 Variance			
Source	DF	Chi-Square	Pr > ChiSq
X14	2	0.2277	0.8924

Levene's Test for Homogeneity of X10 Variance ANOVA of Squared Deviations from Group Means					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
X14	2	1.3426	0.6713	2.23	0.1126
Error	97	29.1437	0.3005		

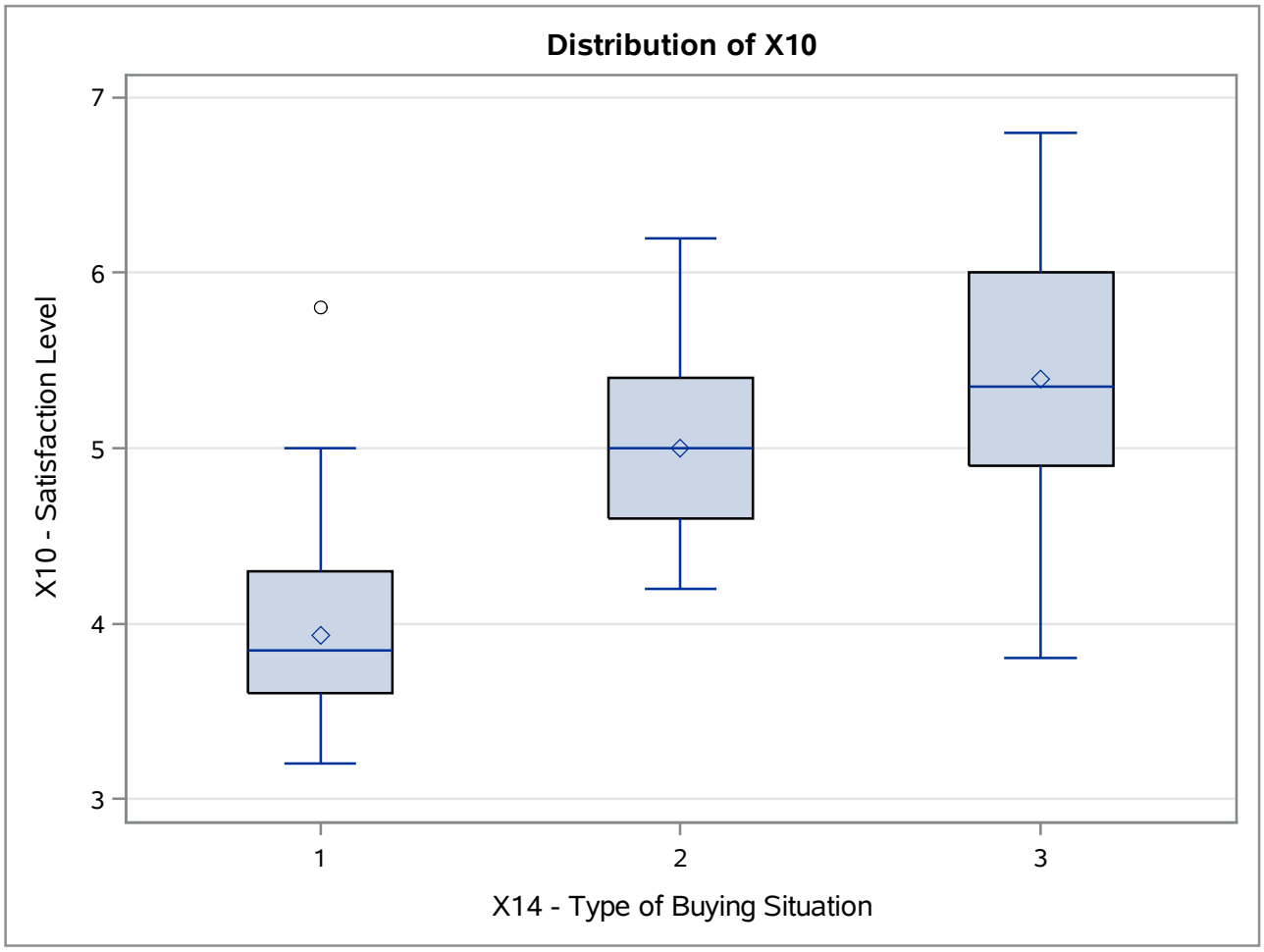
Brown and Forsythe's Test for Homogeneity of X10 Variance ANOVA of Absolute Deviations from Group Medians					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
X14	2	0.8097	0.4048	3.26	0.0426
Error	97	12.0454	0.1242		

Bartlett's Test for Homogeneity of X10 Variance			
Source	DF	Chi-Square	Pr > ChiSq
X14	2	5.3385	0.0693

The GLM Procedure

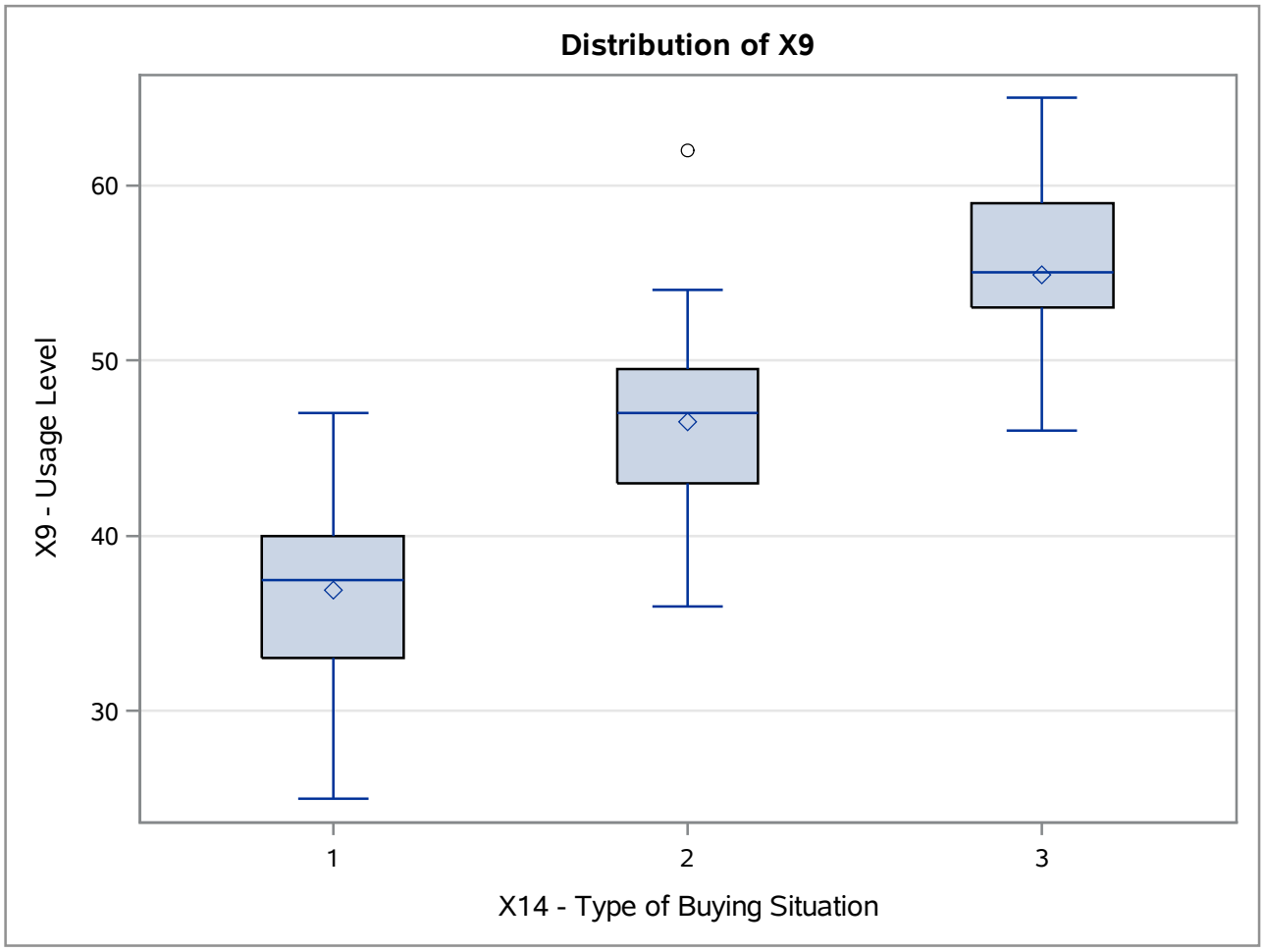


The GLM Procedure

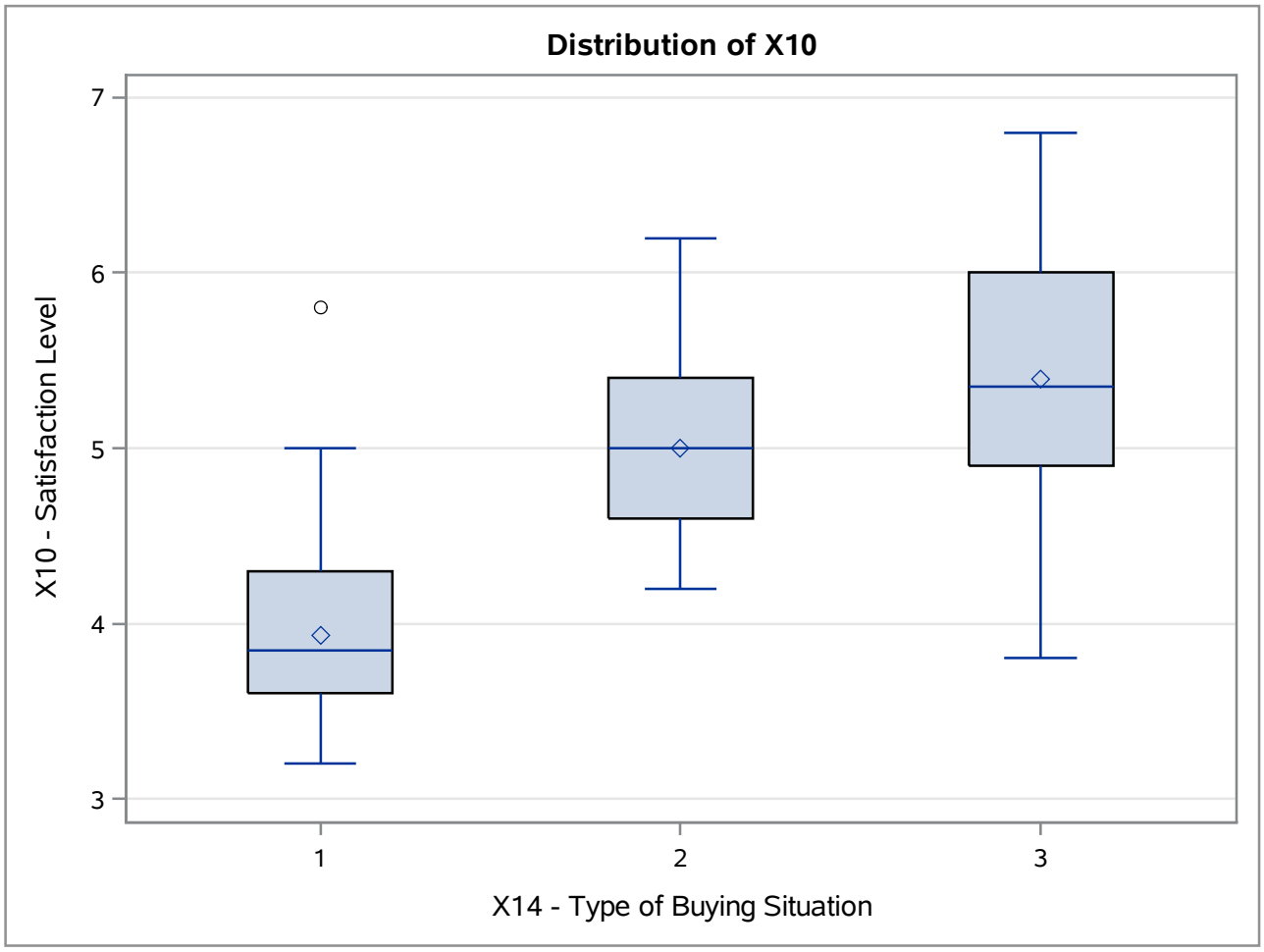


Level of X14	N	X9		X10	
		Mean	Std Dev	Mean	Std Dev
1	34	36.9117647	5.05945049	3.92941176	0.53116762
2	32	46.5312500	5.30358597	5.00312500	0.48691549
3	34	54.8823529	4.87271131	5.39411765	0.71348108

The GLM Procedure



The GLM Procedure



Level of X14	N	X9		X10	
		Mean	Std Dev	Mean	Std Dev
1	34	36.9117647	5.05945049	3.92941176	0.53116762
2	32	46.5312500	5.30358597	5.00312500	0.48691549
3	34	54.8823529	4.87271131	5.39411765	0.71348108

The GLM Procedure
Multivariate Analysis of Variance

Characteristic Roots and Vectors of: E Inverse * H, where H = Type III SSCP Matrix for X14 E = Error SSCP Matrix			
Characteristic Root	Percent	Characteristic Vector V'EV=1	
		X9	X10
2.60398495	98.09	0.01577364	0.07232965
0.05081792	1.91	-0.01388866	0.16665736

MANOVA Tests for the Hypothesis of No Overall X14 Effect H = Type III SSCP Matrix for X14 E = Error SSCP Matrix S=2 M=-0.5 N=47		
Statistic	Value	P-Value
Wilks' Lambda	0.26405206	<.0001
Pillai's Trace	0.77088971	<.0001
Hotelling-Lawley Trace	2.65480287	<.0001
Roy's Greatest Root	2.60398495	<.0001

The GLM Procedure

Class Level Information		
Class	**Levels**	**Values**
X14	3	1 2 3
X13	2	0 1

Number of Observations Read	100
Number of Observations Used	100

The GLM Procedure

Dependent Variable: X9 X9 - Usage Level

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	5637.236111	1127.447222	44.87	<.0001
Error	94	2361.763889	25.125148		
Corrected Total	99	7999.000000			

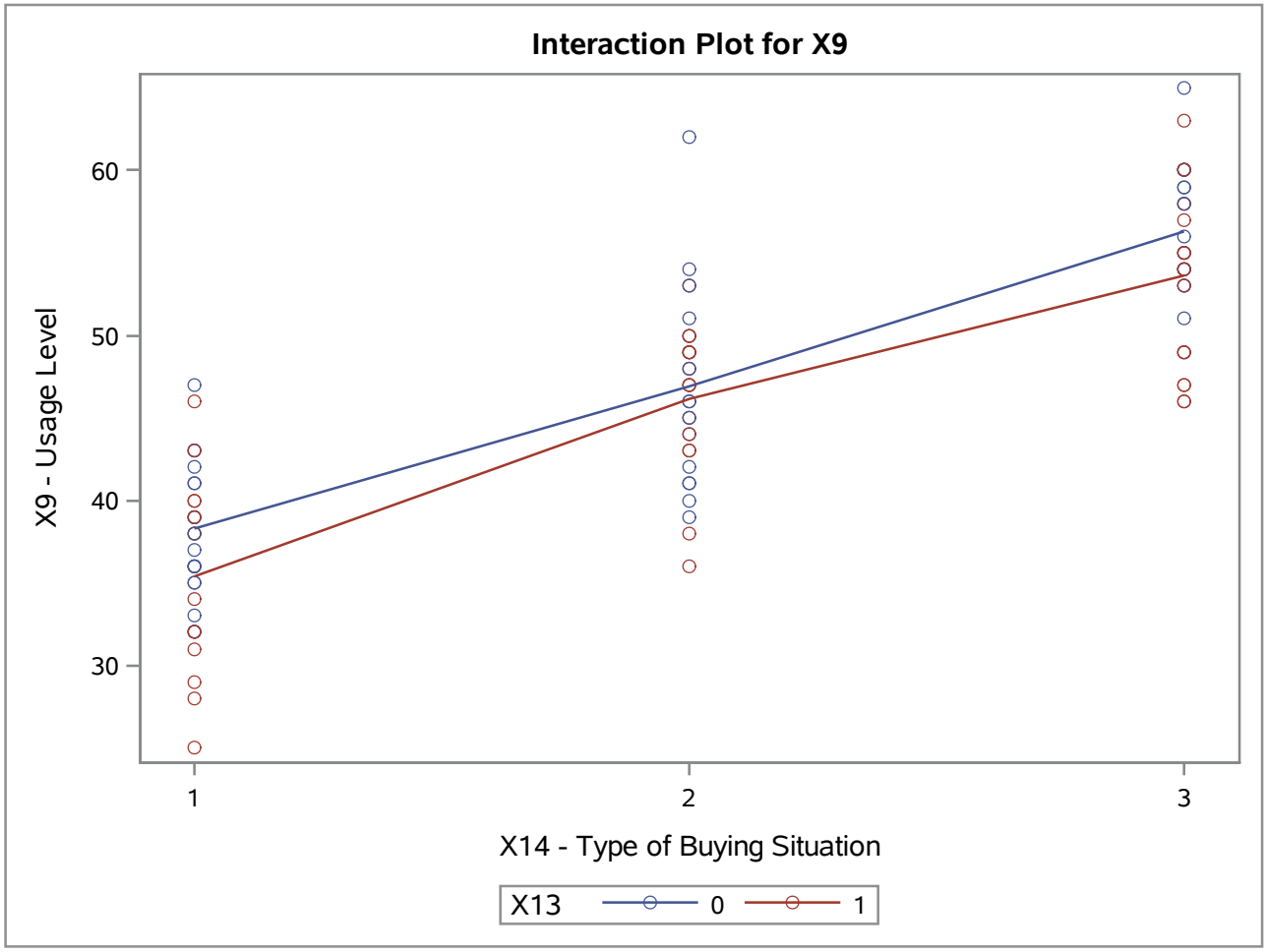
R-Square	Coeff Var	Root MSE	X9 Mean
0.704743	10.87310	5.012499	46.10000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
X14	2	5498.766544	2749.383272	109.43	<.0001
X13	1	116.787771	116.787771	4.65	0.0336
X14*X13	2	21.681796	10.840898	0.43	0.6508

Source	DF	Type III SS	Mean Square	F Value	Pr > F
X14	2	5580.664038	2790.332019	111.06	<.0001
X13	1	114.019231	114.019231	4.54	0.0358
X14*X13	2	21.681796	10.840898	0.43	0.6508

The GLM Procedure

Dependent Variable: X9 X9 - Usage Level



The GLM Procedure

Dependent Variable: X10 X10 - Satisfaction Level

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	40.03076111	8.00615222	23.20	<.0001
Error	94	32.43513889	0.34505467		
Corrected Total	99	72.46590000			

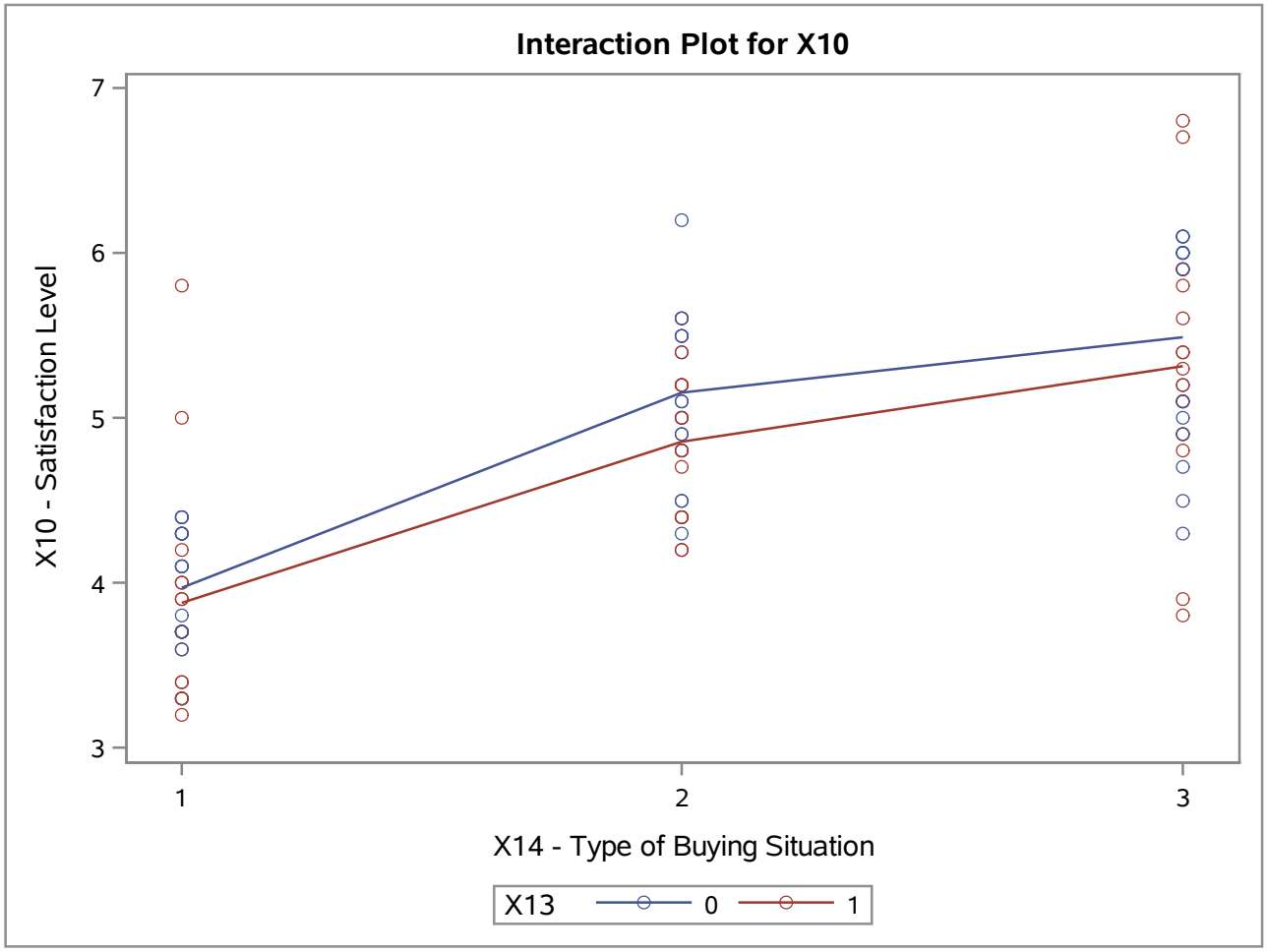
R-Square	Coeff Var	Root MSE	X10 Mean
0.552408	12.31217	0.587414	4.771000

Source	DF	Type I SS	Mean Square	F Value	Pr > F
X14	2	39.00680074	19.50340037	56.52	<.0001
X13	1	0.85382943	0.85382943	2.47	0.1191
X14*X13	2	0.17013095	0.08506548	0.25	0.7820

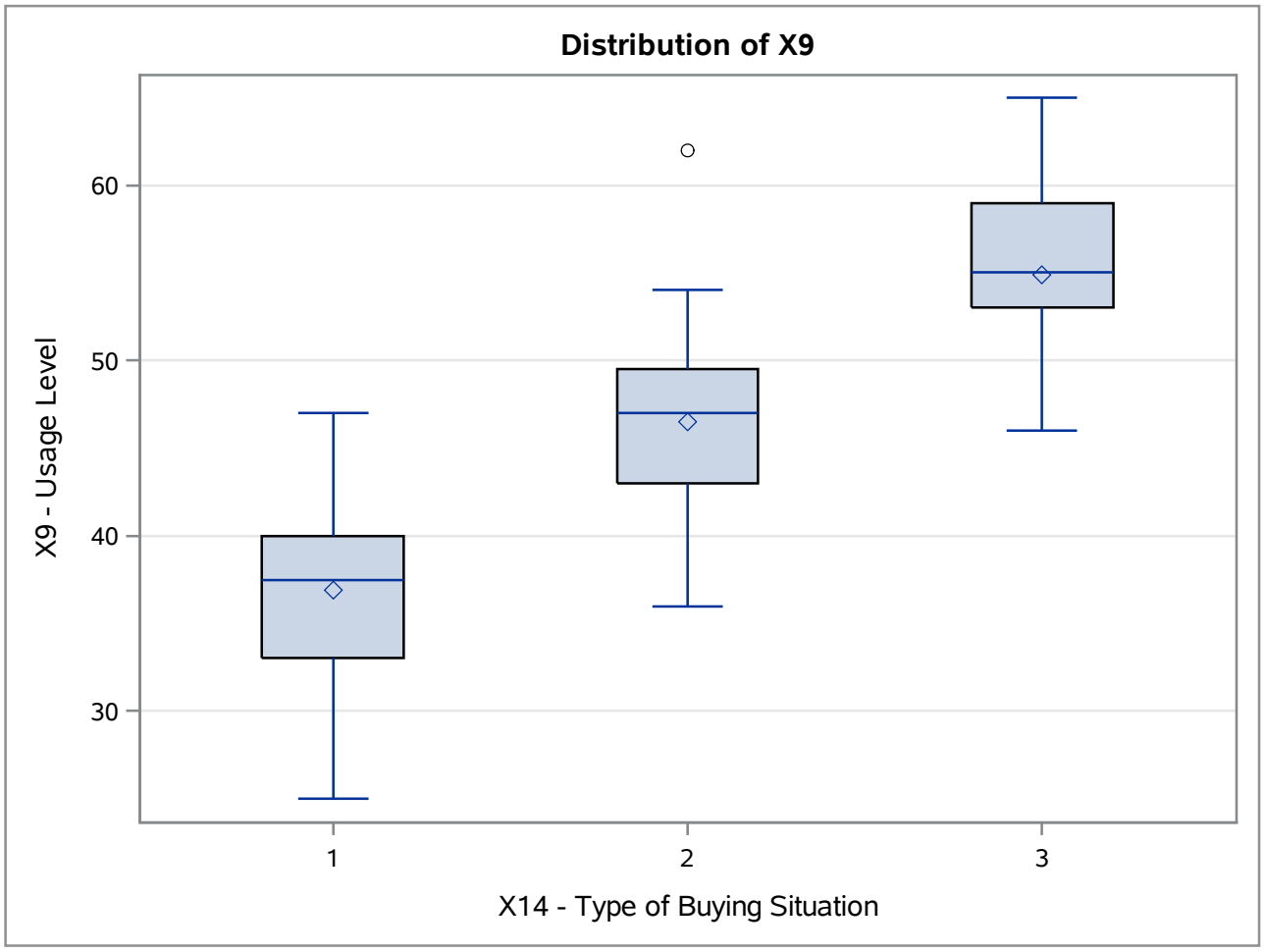
Source	DF	Type III SS	Mean Square	F Value	Pr > F
X14	2	39.25048056	19.62524028	56.88	<.0001
X13	1	0.87188034	0.87188034	2.53	0.1153
X14*X13	2	0.17013095	0.08506548	0.25	0.7820

The GLM Procedure

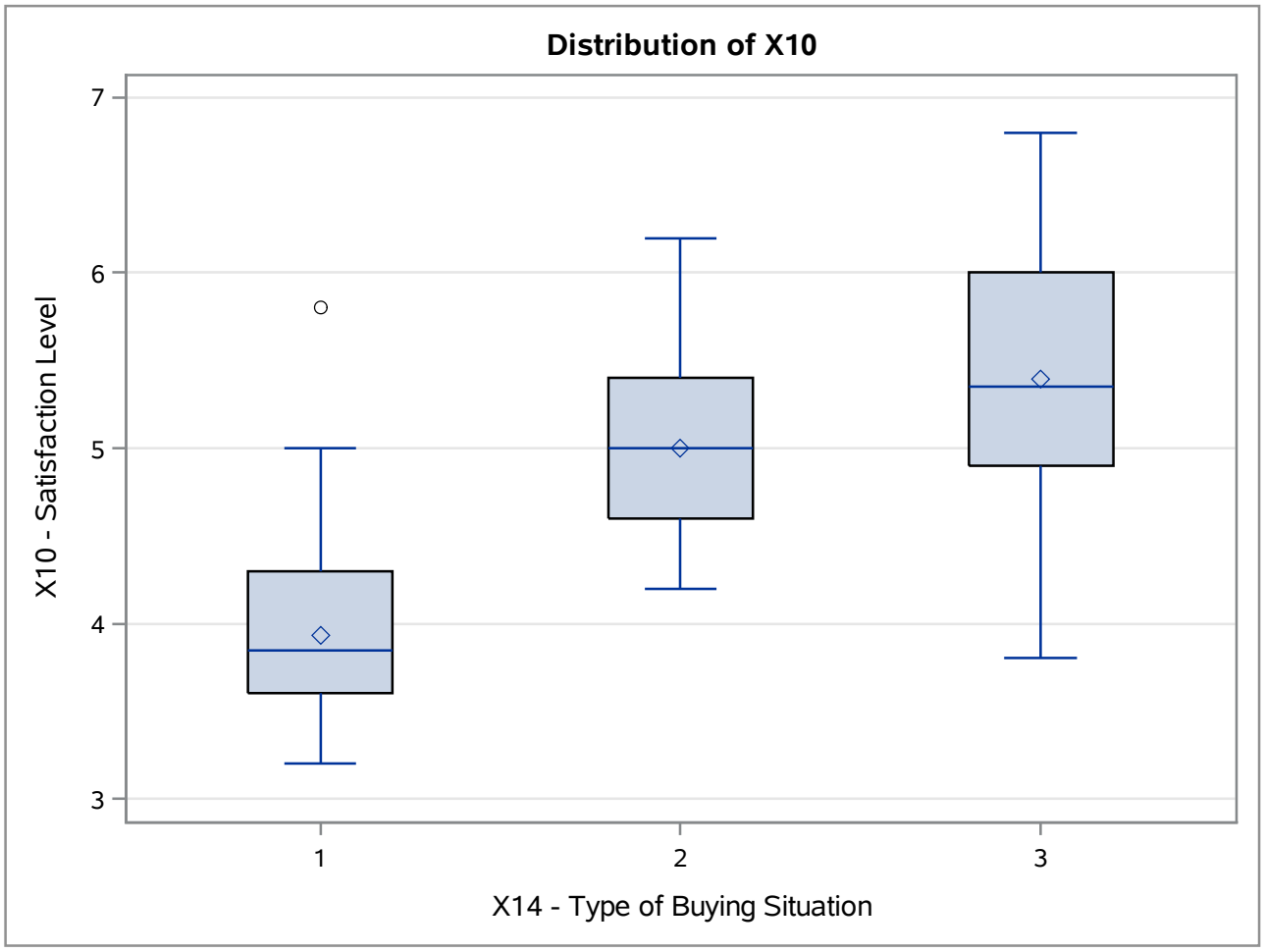
Dependent Variable: X10 X10 - Satisfaction Level



The GLM Procedure

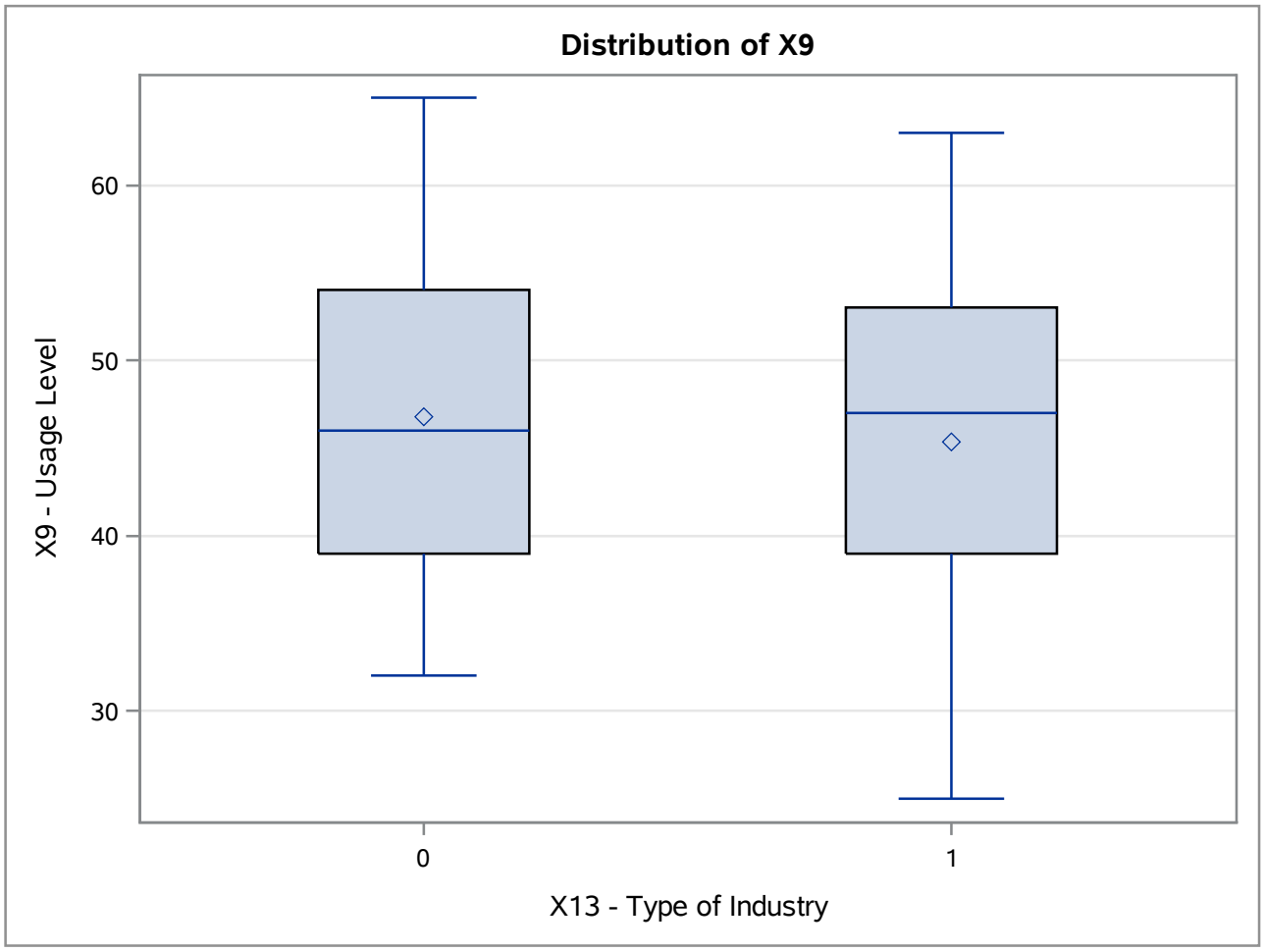


The GLM Procedure

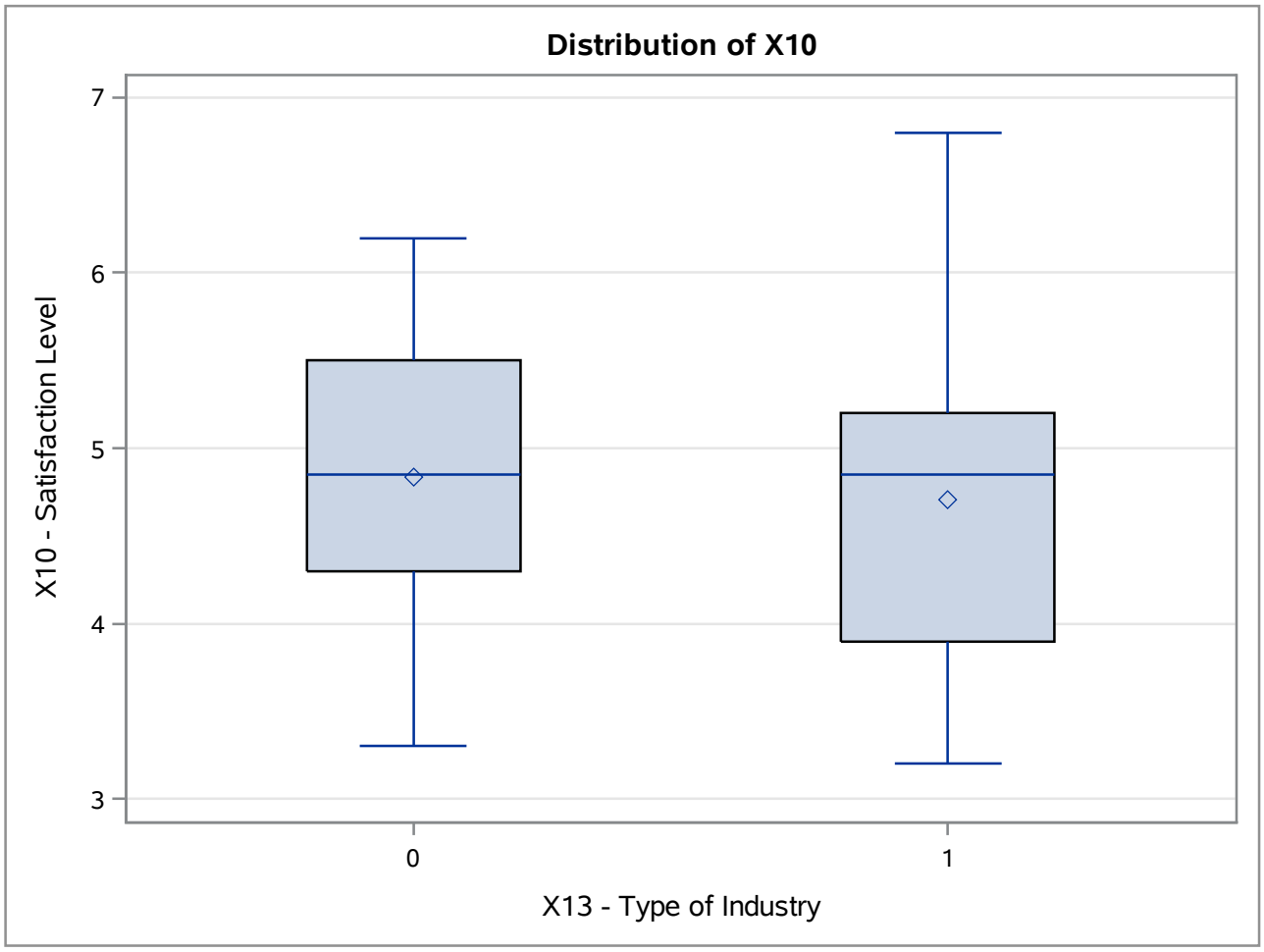


Level of X14	N	X9		X10	
		Mean	Std Dev	Mean	Std Dev
1	34	36.9117647	5.05945049	3.92941176	0.53116762
2	32	46.5312500	5.30358597	5.00312500	0.48691549
3	34	54.8823529	4.87271131	5.39411765	0.71348108

The GLM Procedure

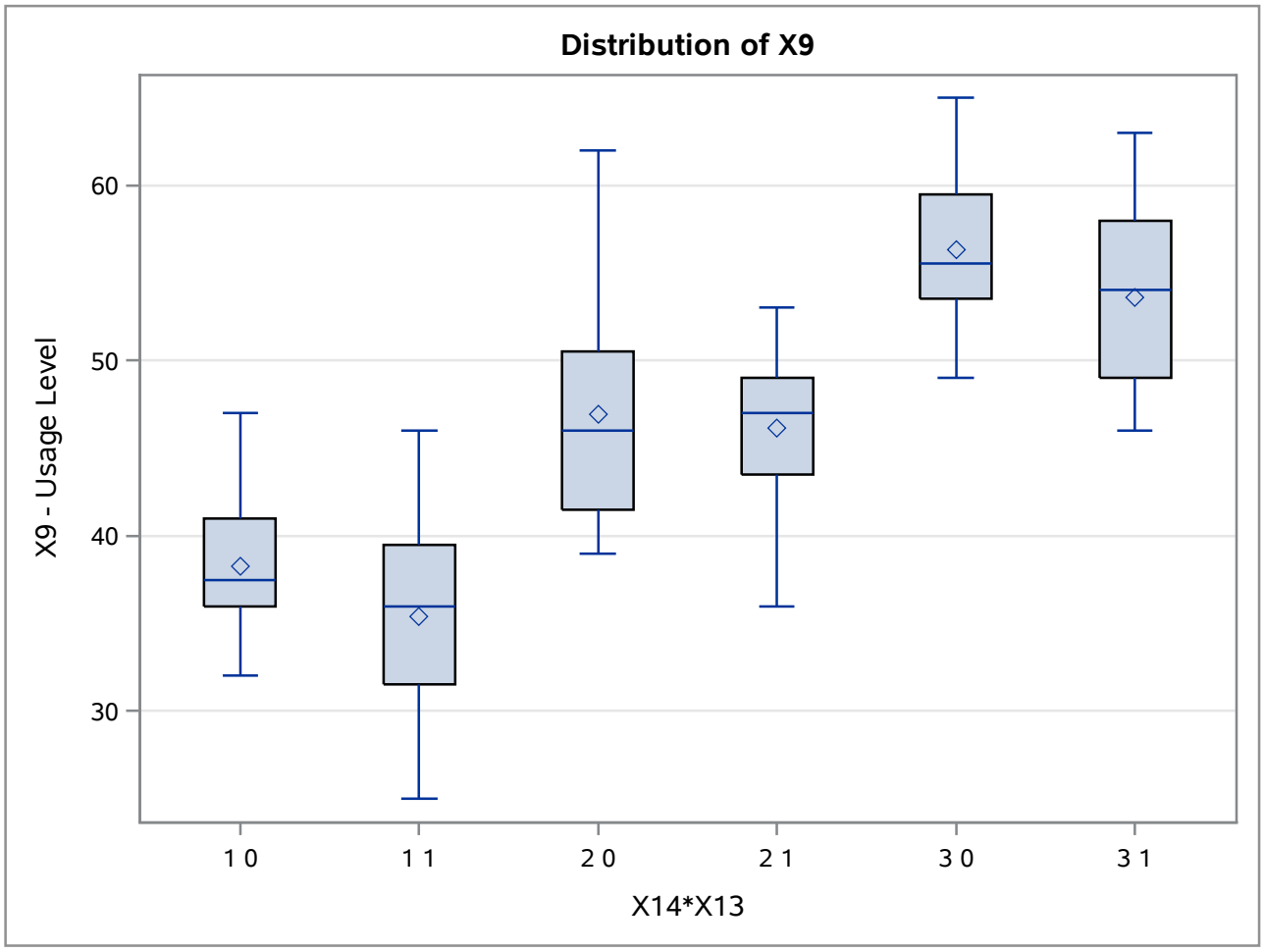


The GLM Procedure

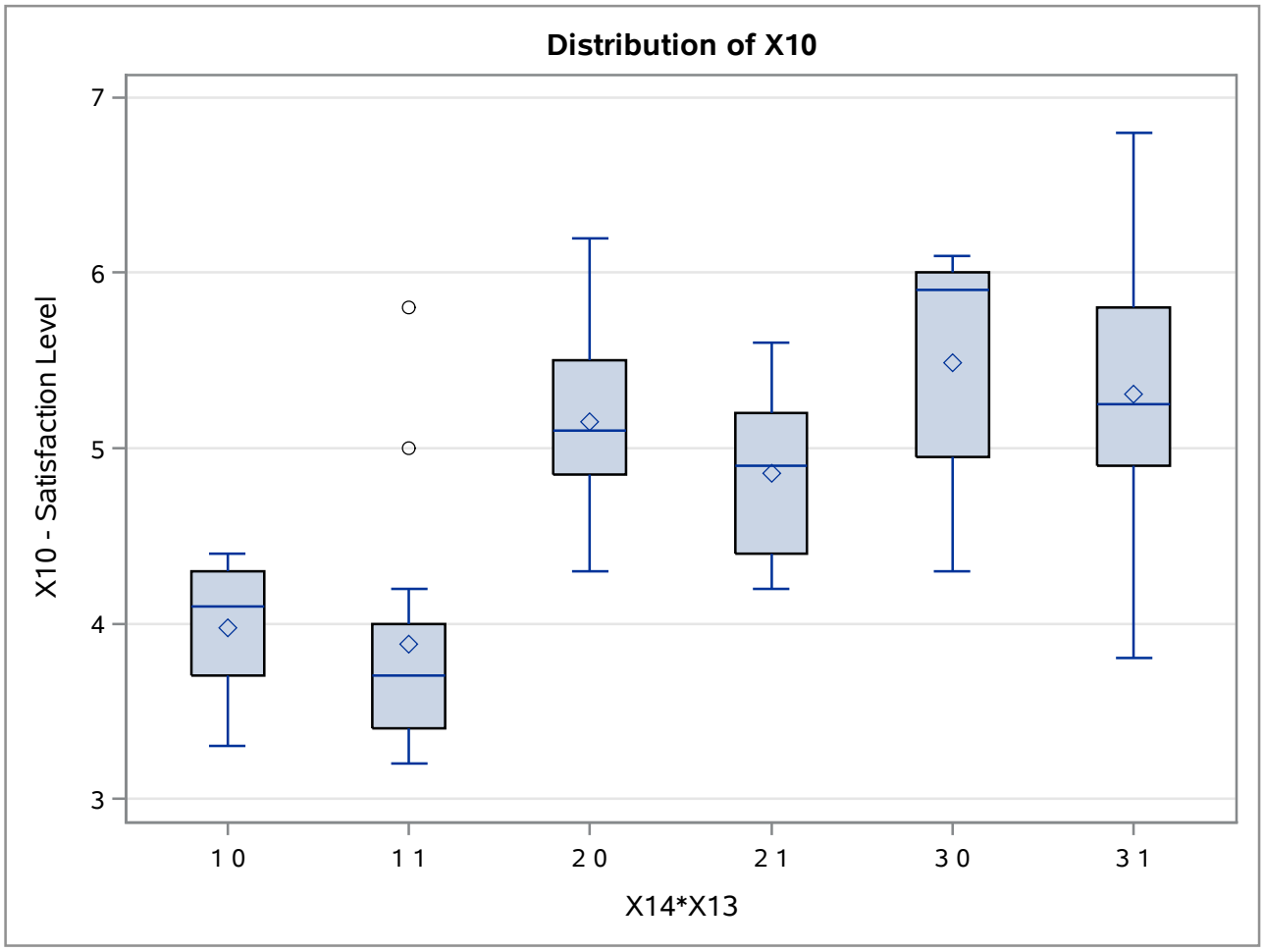


Level of X13	N	X9		X10	
		Mean	Std Dev	Mean	Std Dev
0	50	46.8200000	8.84489937	4.83400000	0.83680881
1	50	45.3800000	9.16267940	4.70800000	0.87780803

The GLM Procedure



The GLM Procedure



Level of X14	Level of X13	N	X9		X10	
			Mean	Std Dev	Mean	Std Dev
1	0	18	38.2777778	3.92286743	3.97222222	0.37543004
1	1	16	35.3750000	5.84094741	3.88125000	0.67549365
2	0	16	46.9375000	6.13697808	5.15000000	0.50199602
2	1	16	46.1250000	4.48516072	4.85625000	0.43813050
3	0	16	56.3125000	4.09420322	5.48750000	0.65000000
3	1	18	53.6111111	5.25960062	5.31111111	0.77451229

The GLM Procedure
Multivariate Analysis of Variance

Characteristic Roots and Vectors of: E Inverse * H, where H = Type III SSCP Matrix for X14 E = Error SSCP Matrix			
		Characteristic Vector V'EV=1	
Characteristic Root	Percent	X9	X10
2.80089319	98.20	0.01636286	0.07326362
0.05130227	1.80	-0.01396572	0.16831540

MANOVA Tests for the Hypothesis of No Overall X14 Effect H = Type III SSCP Matrix for X14 E = Error SSCP Matrix S=2 M=-0.5 N=45.5		
Statistic	Value	P-Value
Wilks' Lambda	0.25025729	<.0001
Pillai's Trace	0.78570273	<.0001
Hotelling-Lawley Trace	2.85219547	<.0001
Roy's Greatest Root	2.80089319	<.0001

Characteristic Roots and Vectors of: E Inverse * H, where H = Type III SSCP Matrix for X13 E = Error SSCP Matrix			
		Characteristic Vector V'EV=1	
Characteristic Root	Percent	X9	X10
0.05917768	100.00	0.01589246	0.07878518
0.00000000	0.00	-0.01449876	0.16580267

MANOVA Tests for the Hypothesis of No Overall X13 Effect H = Type III SSCP Matrix for X13 E = Error SSCP Matrix S=1 M=0 N=45.5		
Statistic	Value	P-Value
Wilks' Lambda	0.94412865	0.0690
Pillai's Trace	0.05587135	0.0690
Hotelling-Lawley Trace	0.05917768	0.0690
Roy's Greatest Root	0.05917768	0.0690

The GLM Procedure
Multivariate Analysis of Variance

Characteristic Roots and Vectors of: E Inverse * H, where H = Type III SSCP Matrix for X14*X13 E = Error SSCP Matrix			
		Characteristic Vector V'EV=1	
Characteristic Root	Percent	X9	X10
0.01960387	98.41	-0.01856187	0.13495328
0.00031764	1.59	0.01087388	0.12443971

MANOVA Tests for the Hypothesis of No Overall X14*X13 Effect H = Type III SSCP Matrix for X14*X13 E = Error SSCP Matrix S=2 M=-0.5 N=45.5		
Statistic	Value	P-Value
Wilks' Lambda	0.98046161	0.7643
Pillai's Trace	0.01954449	0.7661
Hotelling-Lawley Trace	0.01992151	0.7638
Roy's Greatest Root	0.01960387	0.7229