The MEANS Procedure

Variable	N	Mean	Median	Minimum	Maximum	Std Dev	Lower Quartile	Upper Quartile
GPA	5	3.06	3.30	2.00	3.70	0.68	2.80	3.50
CSCORE	5	578.00	580.00	490.00	650.00	69.07	530.00	640.00

ID	GPA	CSCORE	INDEX
2	2.0	490	4.94
4	2.8	530	5.98
3	3.3	580	6.78
5	3.5	640	7.34
1	3.7	650	7.60

The MEANS Procedure

Variable	N	Mean	Median	Minimum	Maximum	Std Dev	Lower Quartile	Upper Quartile
SALARY	4	29775	28750	26500	35100	3755	27250	32300
AGE	4	36	36	31	40	4	33	39

SS	SALARY	TAX
12437652	35100	10530
18451357	26500	7950
123874414	28000	8400
646239182	29500	8850

ID	IQ	MATH	SCIENCE	OVERALL	GROUP
2	102	490	501	0.72867	2
4	115	510	510	0.75667	2
1	128	550	590	0.84533	2
3	140	670	690	1.00000	2

Cody Smith Problem 4 (c) GROUP FREQ REPORT

The FREQ Procedure

GROUP	Frequency	Percent	Cumulative Frequency	Cumulative Percent
2	4	100.00	4	100.00

ID	RACE	SBP	DBP
3	W	120	70
5	B	124	86
1	W	130	80
2	B	140	90
4	W	150	90

ID	GENDER	RACE	HR	SBP	DBP	N_PROC	AVE_BP
1	M	W	80	130	80	10	63.333
2	F	W	88	110	72	5	59.333
3	M	B	50	100	100	2	100.000
4	F	B	.	108	68	1	54.667
5	M	W	68	122	82	4	68.667
6	F	B	101	.	74	4	.
7	F	W	78	104	66	3	53.333
8	M	W	48	112	70	6	56.000
9	F	B	77	190	110	9	83.333
10	F	B	66	164	106	10	86.667

The MEANS Procedure

Variable	N	Mean	Std Dev	Lower 95% CL for Mean	Upper 95% CL for Mean	Median	Minimum	Maximum	Lower Quartile	Upper Quartile
SBP	9	127	31	103	150	112	100	190	108	130
DBP	10	83	16	71	95	77	66	110	70	100
AVE_BP	9	69	17	57	82	63	53	100	56	83

The UNIVARIATE Procedure
Variable: REACT

Moments			
N	10	**Sum Weights**	10
Mean	7.91	**Sum Observations**	79.1
Std Deviation	4.87589308	**Variance**	23.7743333
Skewness	1.74686564	**Kurtosis**	1.6177214
Uncorrected SS	839.65	**Corrected SS**	213.969
Coeff Variation	61.6421376	**Std Error Mean**	1.54189278

Basic Statistical Measures			
Location		**Variability**	
Mean	7.910000	**Std Deviation**	4.87589
Median	5.700000	**Variance**	23.77433
Mode	.	**Range**	13.40000
		Interquartile Range	1.90000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	5.130058	**Pr > |t|**	0.0006
Sign	**M**	5	**Pr >= |M|**	0.0020
Signed Rank	**S**	27.5	**Pr >= |S|**	0.0020

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.656993	**Pr < W**	0.0003
Kolmogorov-Smirnov	**D**	0.38205	**Pr > D**	<0.0100
Cramer-von Mises	**W-Sq**	0.315825	**Pr > W-Sq**	<0.0050
Anderson-Darling	**A-Sq**	1.628355	**Pr > A-Sq**	<0.0050

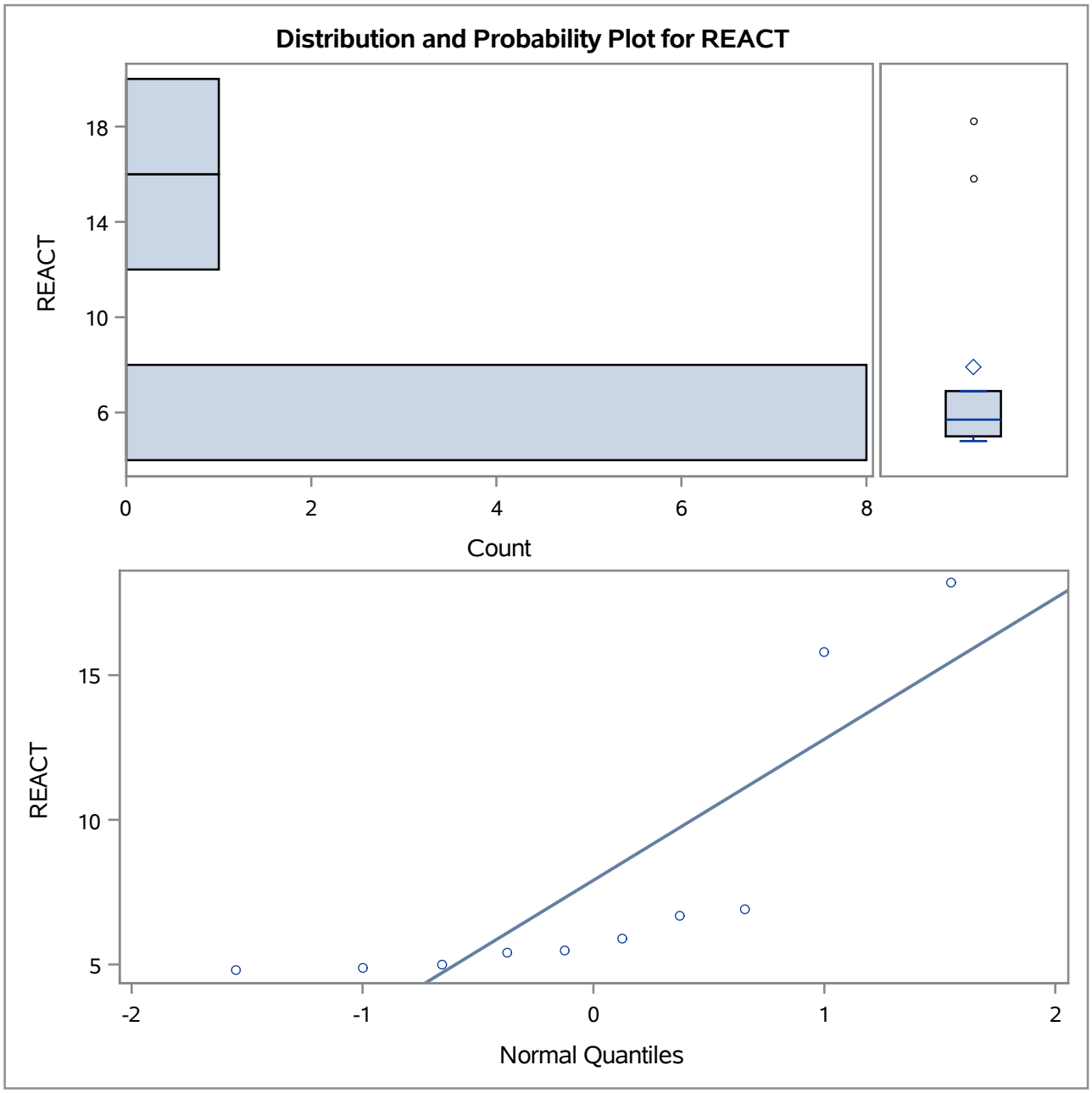
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.20
99%	18.20
95%	18.20
90%	17.00
75% Q3	6.90
50% Median	5.70
25% Q1	5.00

The UNIVARIATE Procedure
Variable: REACT

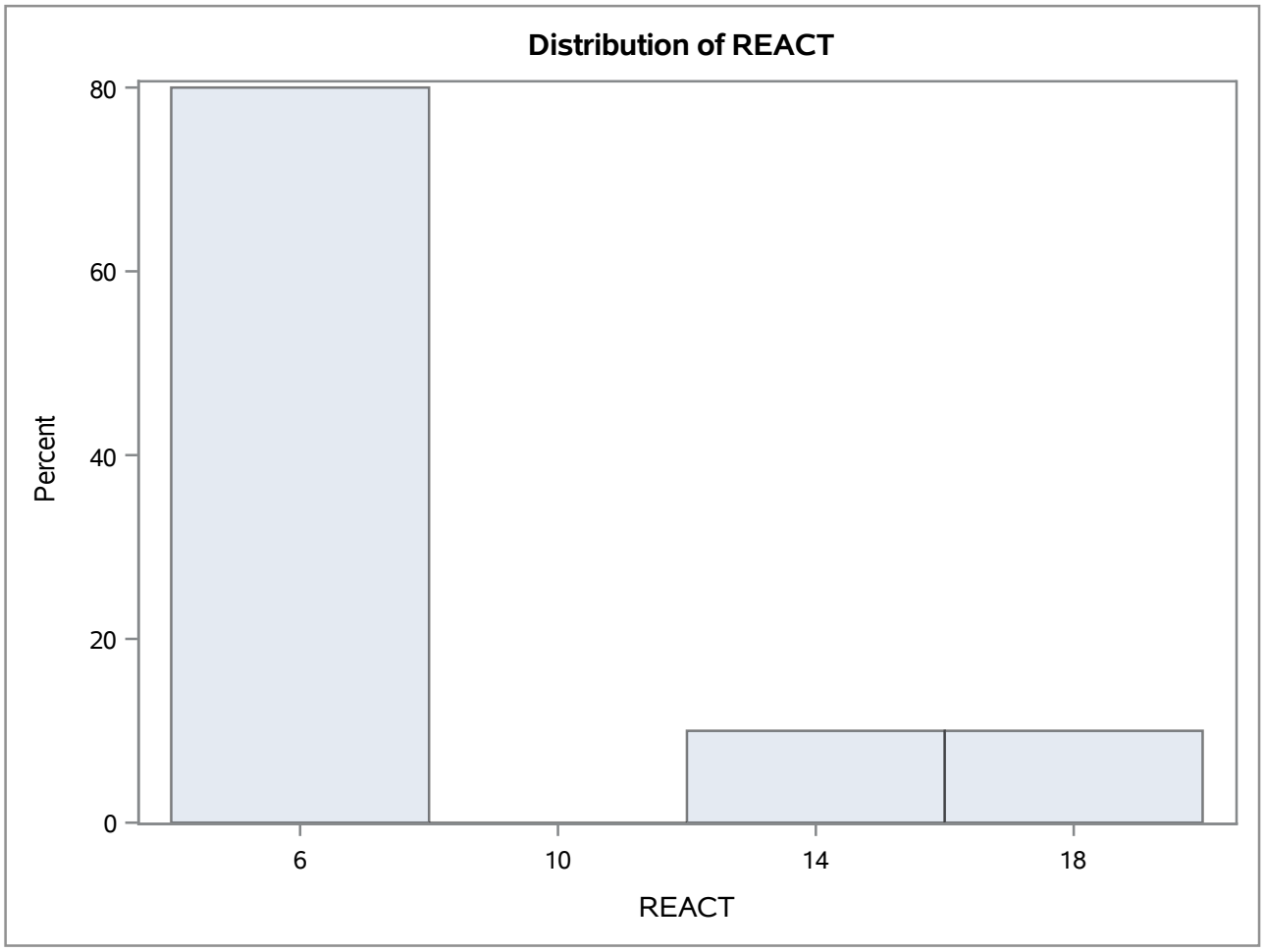
Quantiles (Definition 5)	
Level	**Quantile**
10%	4.85
5%	4.80
1%	4.80
0% Min	4.80

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
4.8	3	5.9	2
4.9	6	6.7	8
5.0	7	6.9	4
5.4	1	15.8	5
5.5	10	18.2	9

The UNIVARIATE Procedure



The UNIVARIATE Procedure



The UNIVARIATE Procedure
Variable: LIVER_WT

Moments			
N	10	**Sum Weights**	10
Mean	11.3	**Sum Observations**	113
Std Deviation	1.26403235	**Variance**	1.59777778
Skewness	0.61974656	**Kurtosis**	0.01693006
Uncorrected SS	1291.28	**Corrected SS**	14.38
Coeff Variation	11.186127	**Std Error Mean**	0.39972213

Basic Statistical Measures			
Location		**Variability**	
Mean	11.30000	**Std Deviation**	1.26403
Median	11.35000	**Variance**	1.59778
Mode	.	**Range**	4.00000
		Interquartile Range	1.80000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	28.26964	**Pr > |t|**	<.0001
Sign	**M**	5	**Pr >= |M|**	0.0020
Signed Rank	**S**	27.5	**Pr >= |S|**	0.0020

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.924078	**Pr < W**	0.3922
Kolmogorov-Smirnov	**D**	0.153785	**Pr > D**	>0.1500
Cramer-von Mises	**W-Sq**	0.051401	**Pr > W-Sq**	>0.2500
Anderson-Darling	**A-Sq**	0.341284	**Pr > A-Sq**	>0.2500

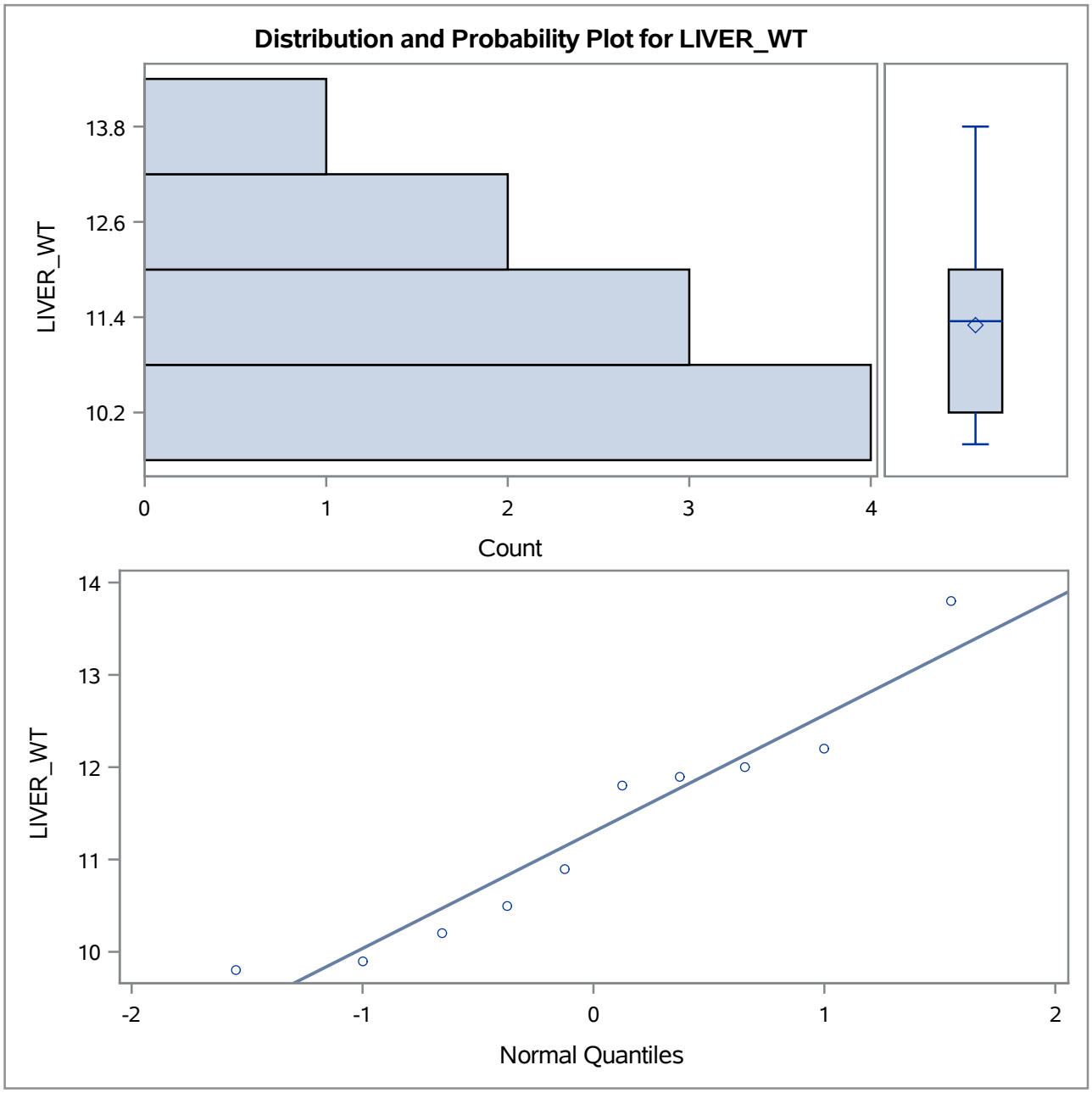
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.80
99%	13.80
95%	13.80
90%	13.00
75% Q3	12.00
50% Median	11.35
25% Q1	10.20

The UNIVARIATE Procedure
Variable: LIVER_WT

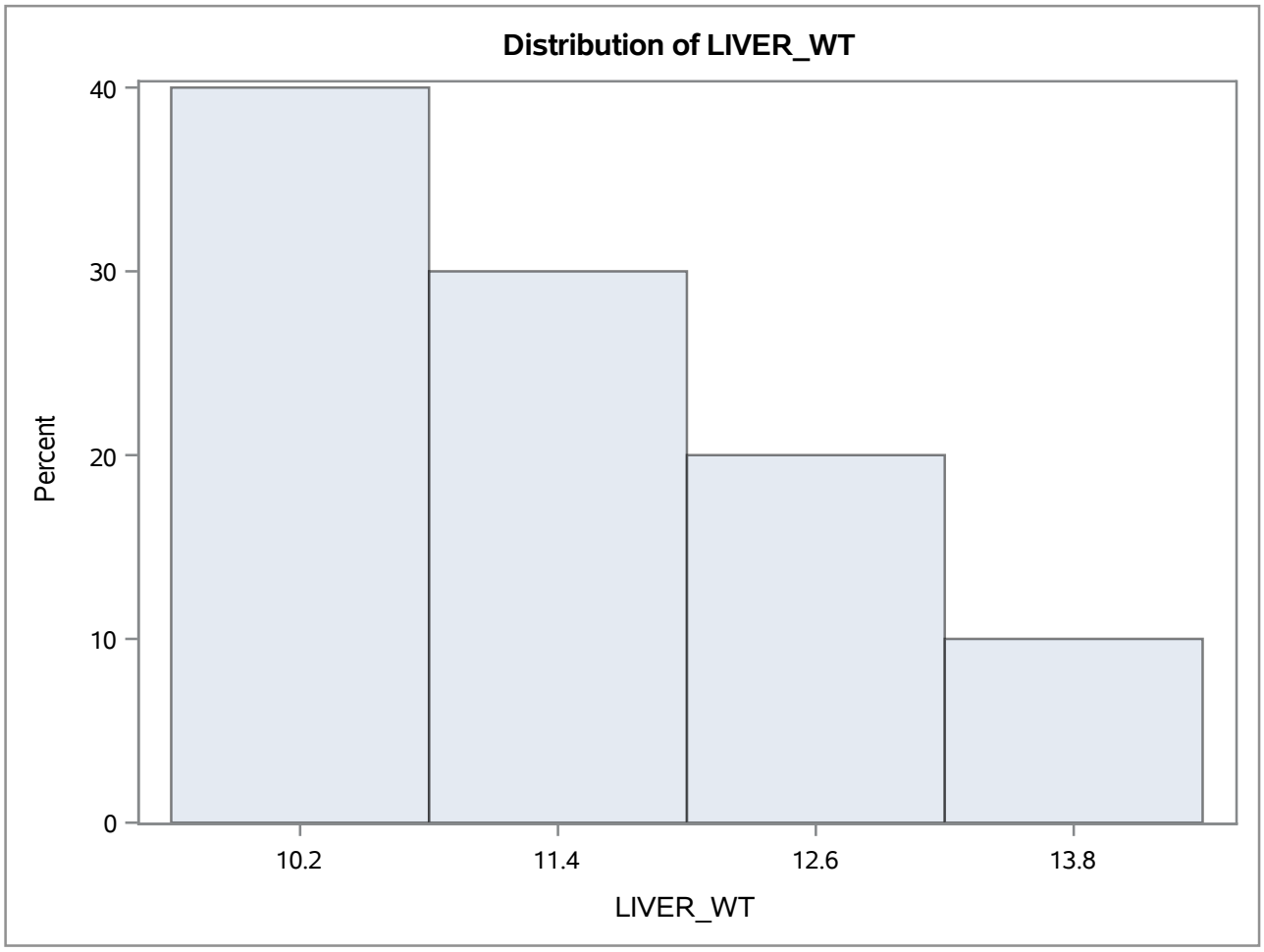
Quantiles (Definition 5)	
Level	**Quantile**
10%	9.85
5%	9.80
1%	9.80
0% Min	9.80

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
9.8	2	11.8	4
9.9	10	11.9	9
10.2	1	12.0	7
10.5	8	12.2	3
10.9	5	13.8	6

The UNIVARIATE Procedure



The UNIVARIATE Procedure



The UNIVARIATE Procedure
Variable: SPLEEN

Moments			
N	10	**Sum Weights**	10
Mean	8.16	**Sum Observations**	81.6
Std Deviation	0.95939796	**Variance**	0.92044444
Skewness	-0.5557112	**Kurtosis**	-1.3710424
Uncorrected SS	674.14	**Corrected SS**	8.284
Coeff Variation	11.7573279	**Std Error Mean**	0.30338827

Basic Statistical Measures			
Location		**Variability**	
Mean	8.160000	**Std Deviation**	0.95940
Median	8.400000	**Variance**	0.92044
Mode	9.100000	**Range**	2.50000
		Interquartile Range	1.70000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.89623	**Pr > |t|**	<.0001
Sign	**M**	5	**Pr >= |M|**	0.0020
Signed Rank	**S**	27.5	**Pr >= |S|**	0.0020

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.865259	**Pr < W**	0.0880
Kolmogorov-Smirnov	**D**	0.247641	**Pr > D**	0.0814
Cramer-von Mises	**W-Sq**	0.090272	**Pr > W-Sq**	0.1354
Anderson-Darling	**A-Sq**	0.559109	**Pr > A-Sq**	0.1124

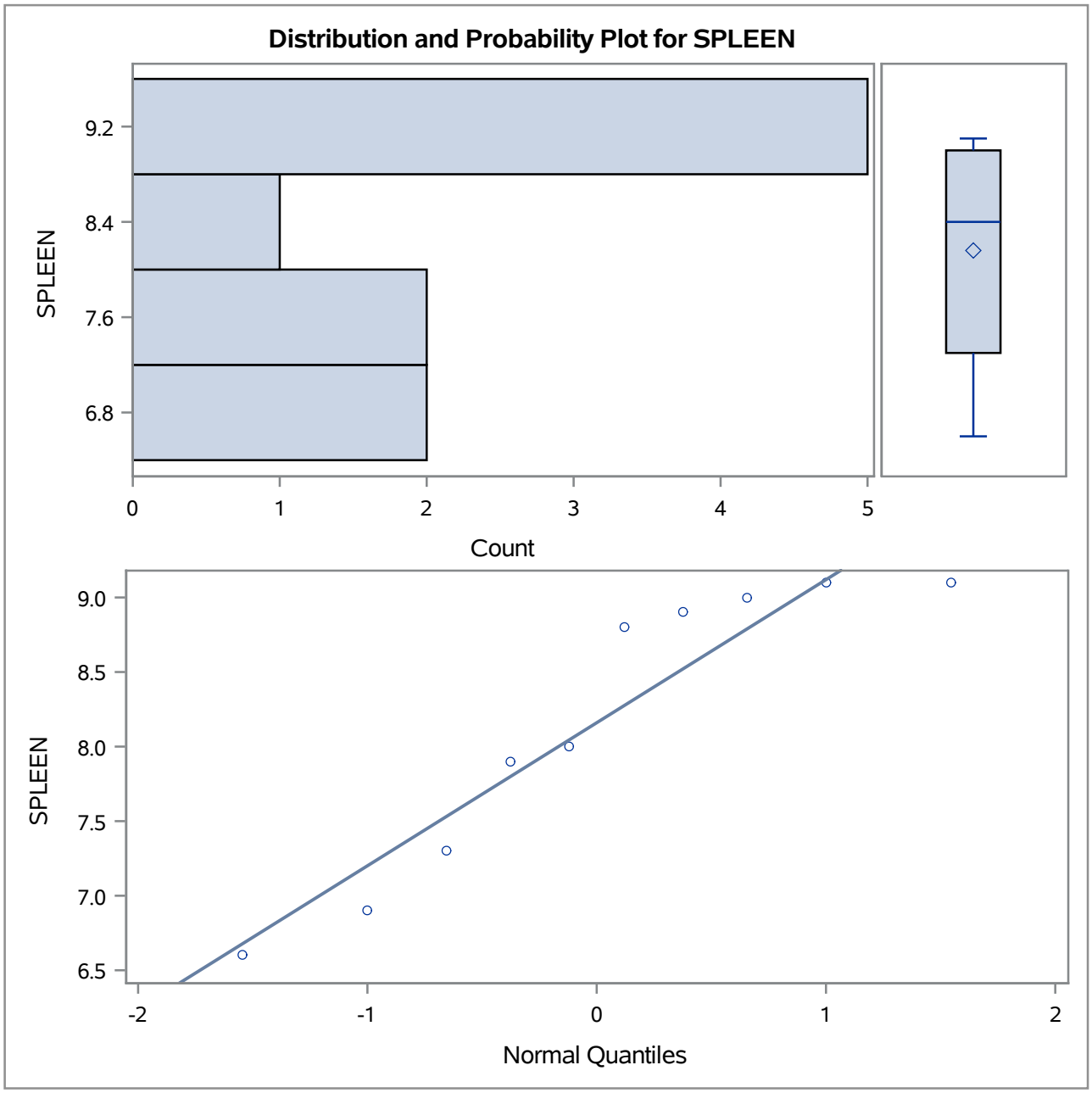
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.10
99%	9.10
95%	9.10
90%	9.10
75% Q3	9.00
50% Median	8.40
25% Q1	7.30

The UNIVARIATE Procedure
Variable: SPLEEN

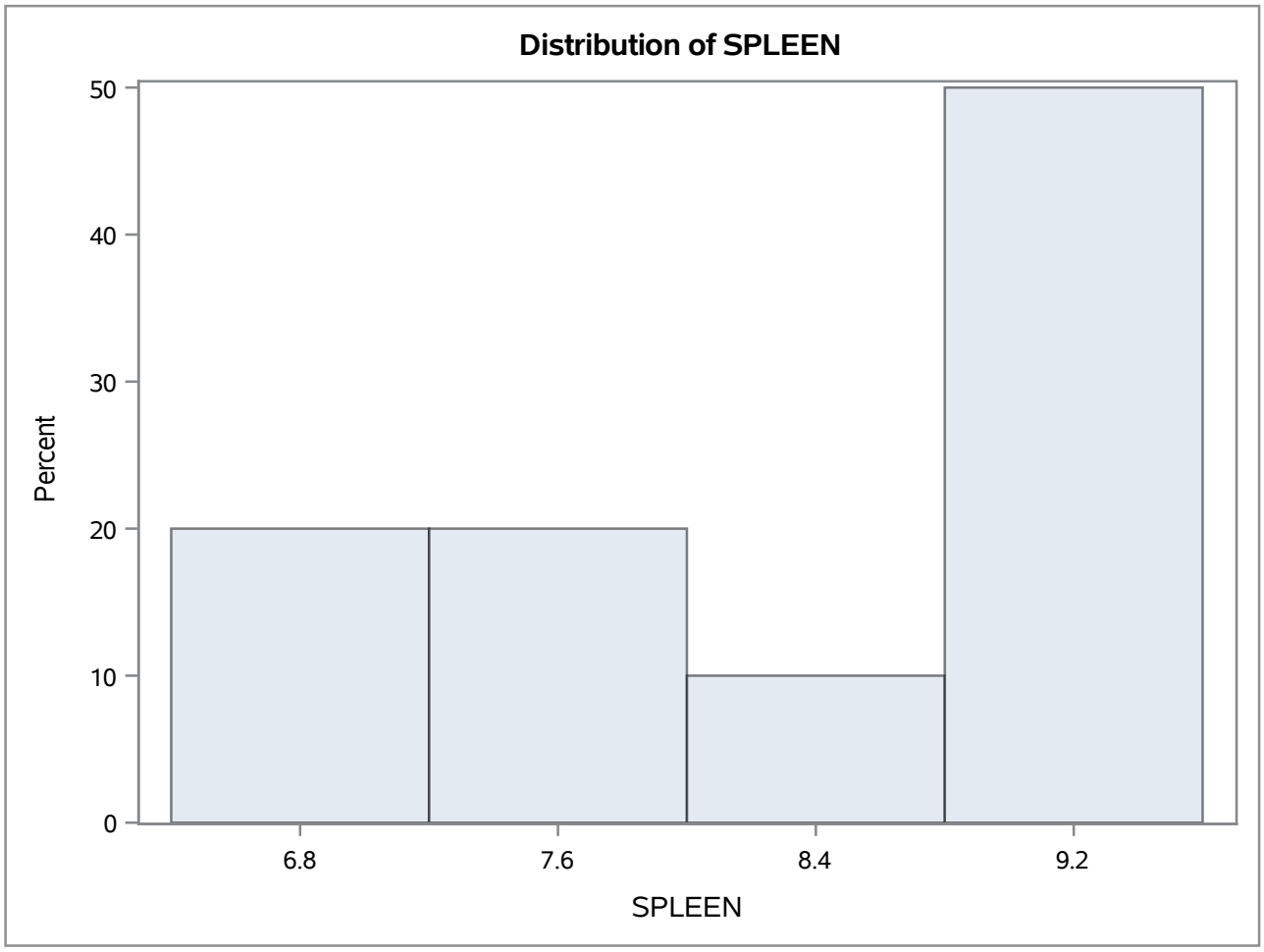
Quantiles (Definition 5)	
Level	**Quantile**
10%	6.75
5%	6.60
1%	6.60
0% Min	6.60

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
6.6	6	8.8	4
6.9	9	8.9	1
7.3	2	9.0	5
7.9	7	9.1	3
8.0	8	9.1	10

The UNIVARIATE Procedure



The UNIVARIATE Procedure



The UNIVARIATE Procedure
Variable: REACT

DOSE=1

Moments			
N	5	**Sum Weights**	5
Mean	7.76	**Sum Observations**	38.8
Std Deviation	4.55993421	**Variance**	20.793
Skewness	2.08111585	**Kurtosis**	4.42873197
Uncorrected SS	384.26	**Corrected SS**	83.172
Coeff Variation	58.7620388	**Std Error Mean**	2.03926457

Basic Statistical Measures			
Location		**Variability**	
Mean	7.760000	**Std Deviation**	4.55993
Median	5.900000	**Variance**	20.79300
Mode	.	**Range**	11.00000
		Interquartile Range	1.50000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	3.805293	**Pr > |t|**	0.0190
Sign	**M**	2.5	**Pr >= |M|**	0.0625
Signed Rank	**S**	7.5	**Pr >= |S|**	0.0625

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.707883	**Pr < W**	0.0116
Kolmogorov-Smirnov	**D**	0.374797	**Pr > D**	0.0209
Cramer-von Mises	**W-Sq**	0.145986	**Pr > W-Sq**	0.0187
Anderson-Darling	**A-Sq**	0.772171	**Pr > A-Sq**	0.0172

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.8
99%	15.8
95%	15.8
90%	15.8
75% Q3	6.9
50% Median	5.9

The UNIVARIATE Procedure
Variable: REACT

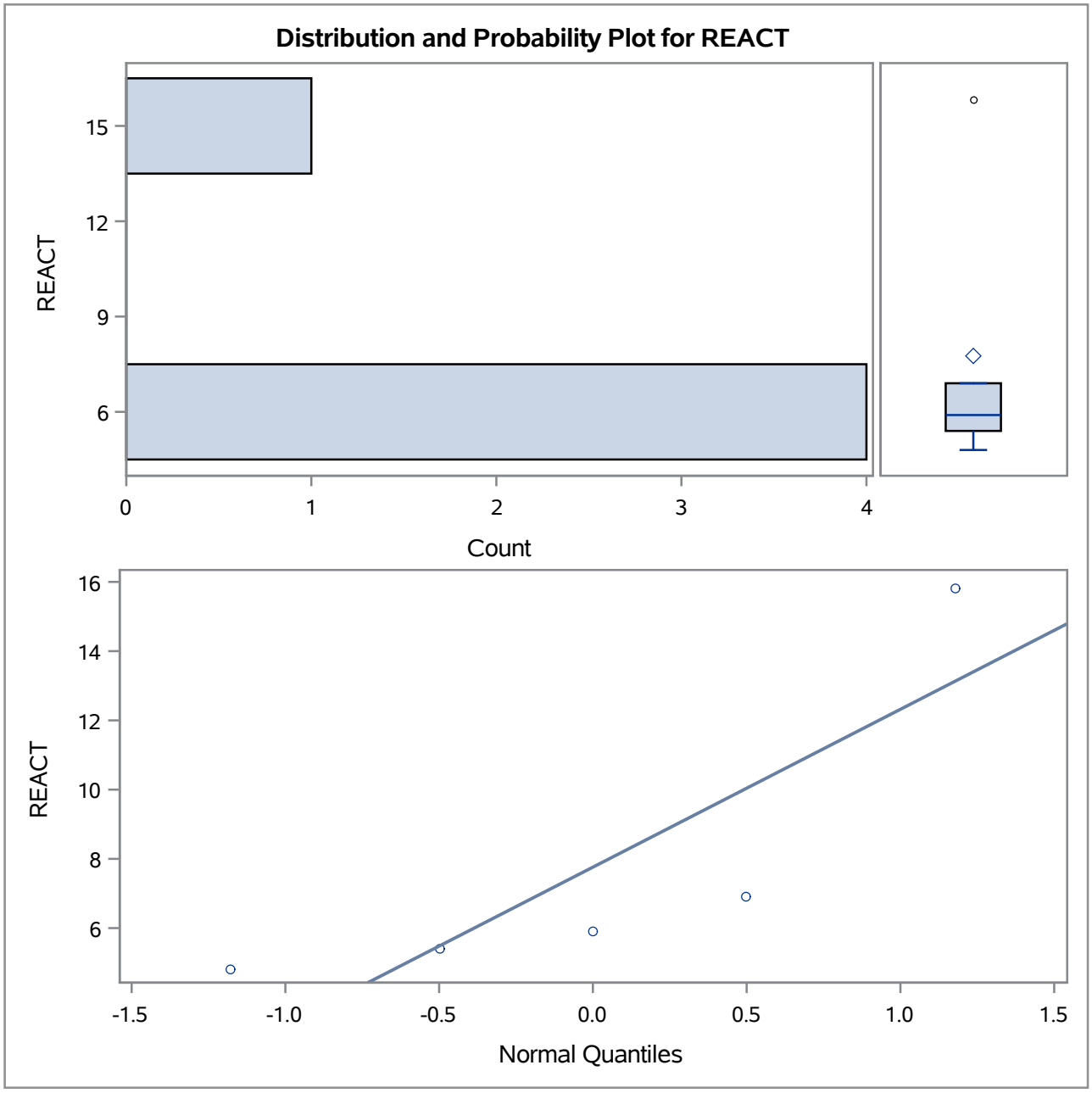
DOSE=1

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	5.4
10%	4.8
5%	4.8
1%	4.8
0% Min	4.8

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
4.8	3	4.8	3
5.4	1	5.4	1
5.9	2	5.9	2
6.9	4	6.9	4
15.8	5	15.8	5

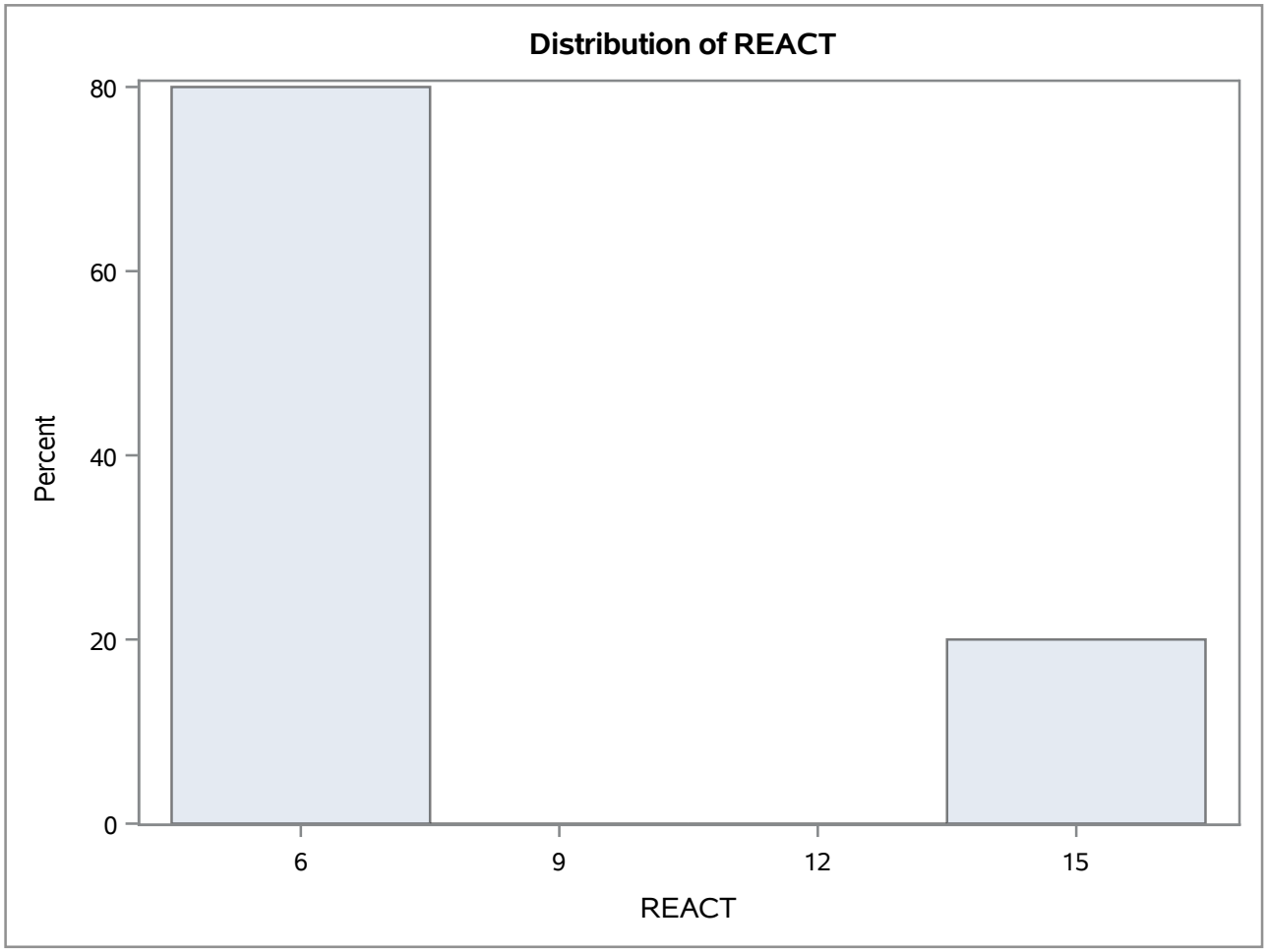
The UNIVARIATE Procedure

DOSE=1



The UNIVARIATE Procedure

DOSE=1



The UNIVARIATE Procedure
Variable: LIVER_WT

DOSE=1

Moments			
N	5	**Sum Weights**	5
Mean	10.98	**Sum Observations**	54.9
Std Deviation	1.02078401	**Variance**	1.042
Skewness	0.09758786	**Kurtosis**	-2.270825
Uncorrected SS	606.97	**Corrected SS**	4.168
Coeff Variation	9.29675785	**Std Error Mean**	0.45650849

Basic Statistical Measures			
Location		**Variability**	
Mean	10.98000	**Std Deviation**	1.02078
Median	10.90000	**Variance**	1.04200
Mode	.	**Range**	2.40000
		Interquartile Range	1.60000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.05213	**Pr > |t|**	<.0001
Sign	**M**	2.5	**Pr >= |M|**	0.0625
Signed Rank	**S**	7.5	**Pr >= |S|**	0.0625

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.94184	**Pr < W**	0.6790
Kolmogorov-Smirnov	**D**	0.189101	**Pr > D**	>0.1500
Cramer-von Mises	**W-Sq**	0.032428	**Pr > W-Sq**	>0.2500
Anderson-Darling	**A-Sq**	0.218264	**Pr > A-Sq**	>0.2500

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.2
99%	12.2
95%	12.2
90%	12.2
75% Q3	11.8
50% Median	10.9

The UNIVARIATE Procedure
Variable: LIVER_WT

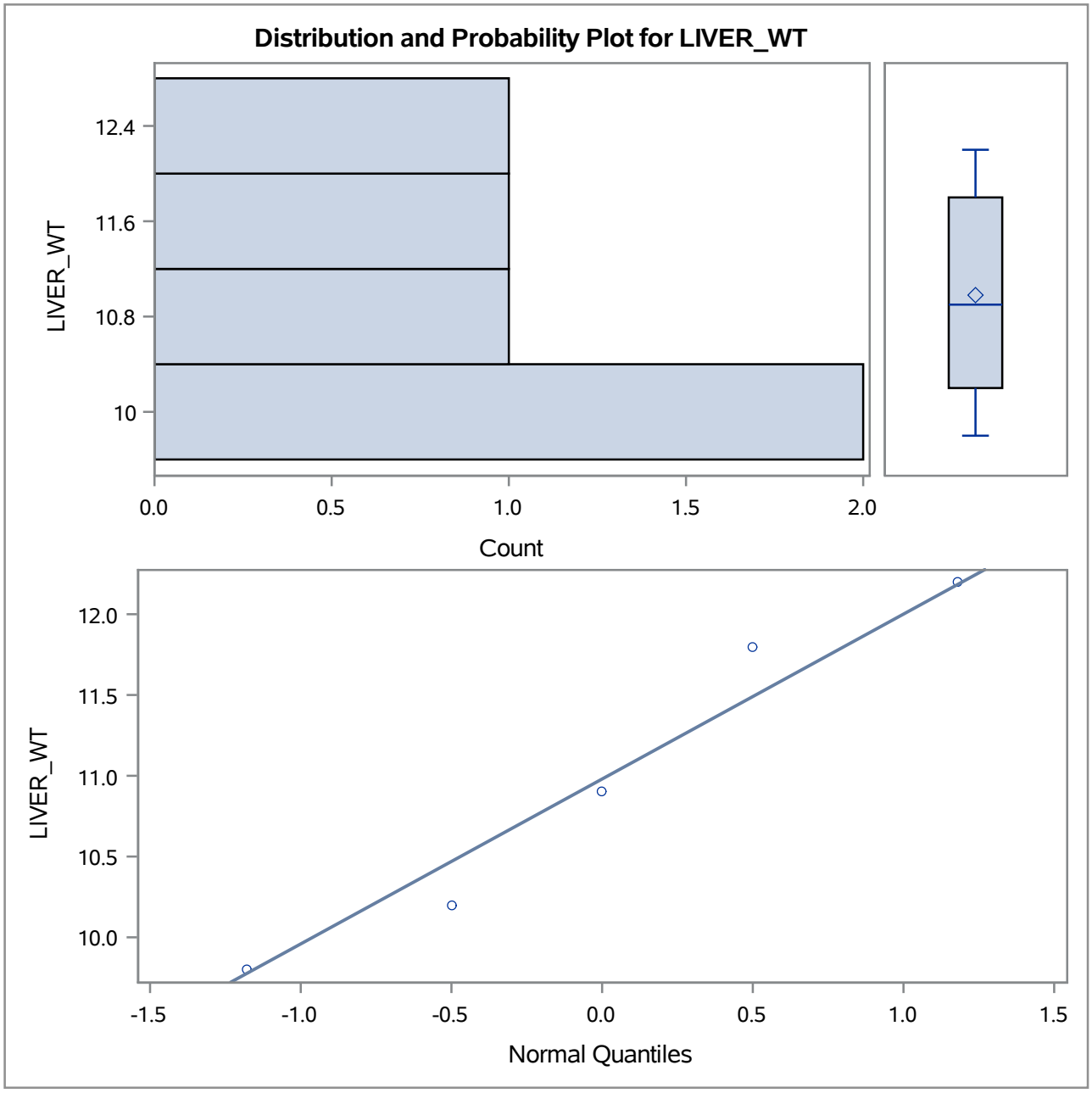
DOSE=1

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	10.2
10%	9.8
5%	9.8
1%	9.8
0% Min	9.8

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
9.8	2	9.8	2
10.2	1	10.2	1
10.9	5	10.9	5
11.8	4	11.8	4
12.2	3	12.2	3

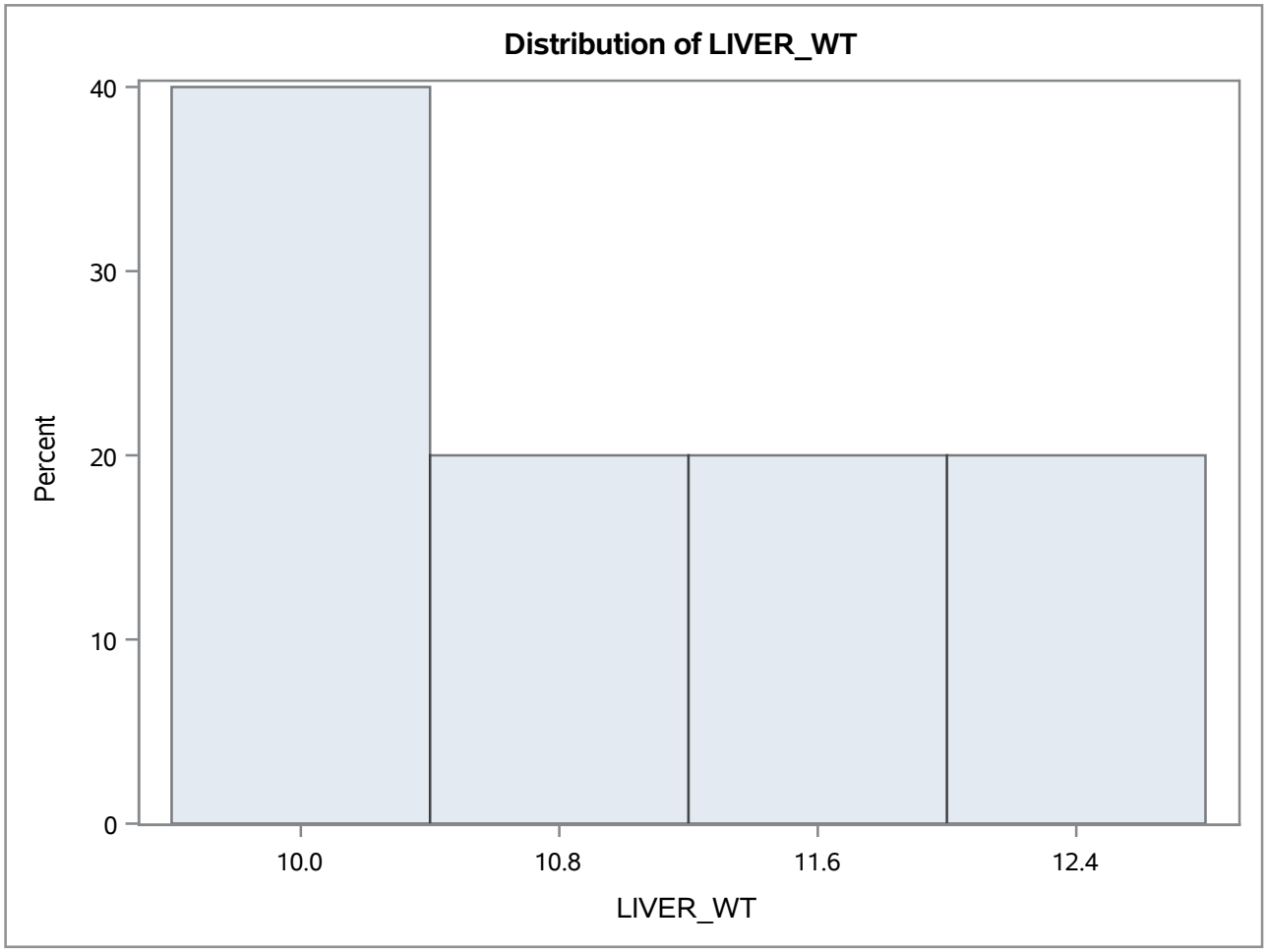
The UNIVARIATE Procedure

DOSE=1



The UNIVARIATE Procedure

DOSE=1



The UNIVARIATE Procedure
Variable: SPLEEN

DOSE=1

Moments			
N	5	**Sum Weights**	5
Mean	8.62	**Sum Observations**	43.1
Std Deviation	0.74632433	**Variance**	0.557
Skewness	-2.1116055	**Kurtosis**	4.55882211
Uncorrected SS	373.75	**Corrected SS**	2.228
Coeff Variation	8.65805483	**Std Error Mean**	0.33376639

Basic Statistical Measures			
Location		**Variability**	
Mean	8.620000	**Std Deviation**	0.74632
Median	8.900000	**Variance**	0.55700
Mode	.	**Range**	1.80000
		Interquartile Range	0.20000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.82645	**Pr > |t|**	<.0001
Sign	**M**	2.5	**Pr >= |M|**	0.0625
Signed Rank	**S**	7.5	**Pr >= |S|**	0.0625

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.695281	**Pr < W**	0.0085
Kolmogorov-Smirnov	**D**	0.395293	**Pr > D**	0.0109
Cramer-von Mises	**W-Sq**	0.154683	**Pr > W-Sq**	0.0139
Anderson-Darling	**A-Sq**	0.808906	**Pr > A-Sq**	0.0130

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.1
99%	9.1
95%	9.1
90%	9.1
75% Q3	9.0
50% Median	8.9

The UNIVARIATE Procedure
Variable: SPLEEN

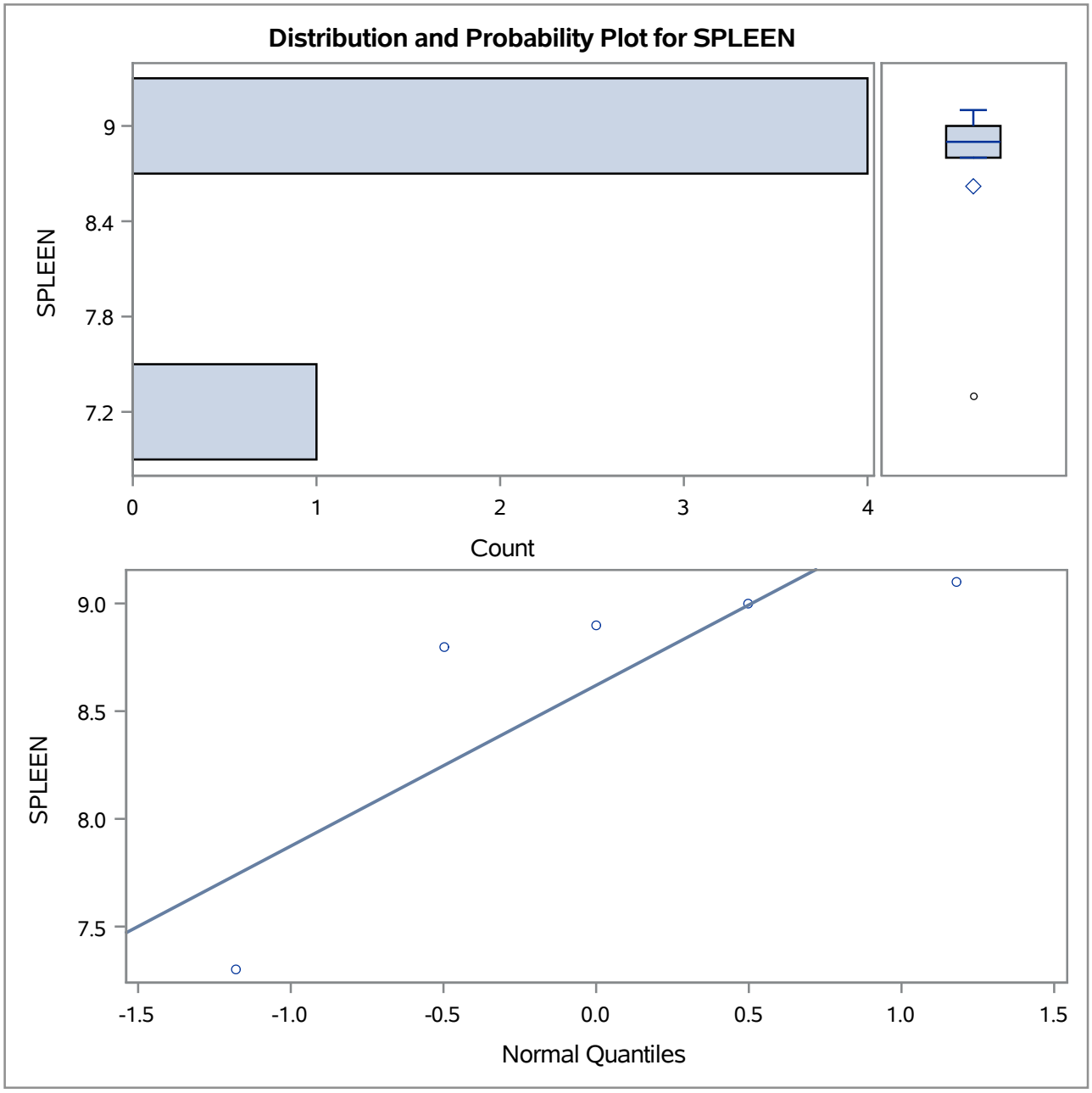
DOSE=1

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	8.8
10%	7.3
5%	7.3
1%	7.3
0% Min	7.3

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
7.3	2	7.3	2
8.8	4	8.8	4
8.9	1	8.9	1
9.0	5	9.0	5
9.1	3	9.1	3

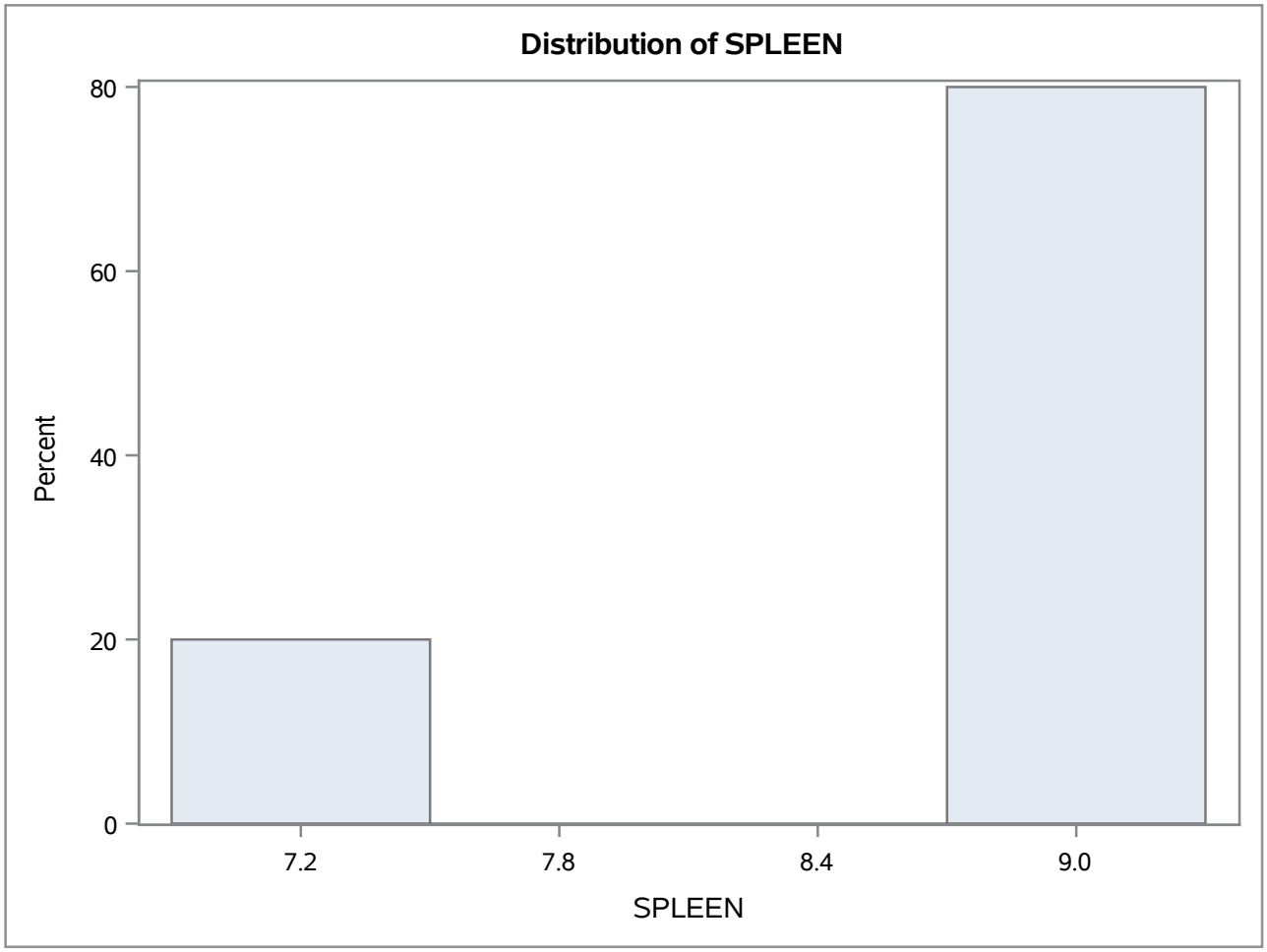
The UNIVARIATE Procedure

DOSE=1



The UNIVARIATE Procedure

DOSE=1



The UNIVARIATE Procedure
Variable: REACT

DOSE=2

Moments			
N	5	**Sum Weights**	5
Mean	8.06	**Sum Observations**	40.3
Std Deviation	5.71340529	**Variance**	32.643
Skewness	2.15164673	**Kurtosis**	4.67593424
Uncorrected SS	455.39	**Corrected SS**	130.572
Coeff Variation	70.8859217	**Std Error Mean**	2.55511252

Basic Statistical Measures			
Location		**Variability**	
Mean	8.060000	**Std Deviation**	5.71341
Median	5.500000	**Variance**	32.64300
Mode	.	**Range**	13.30000
		Interquartile Range	1.70000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	3.15446	**Pr > |t|**	0.0344
Sign	**M**	2.5	**Pr >= |M|**	0.0625
Signed Rank	**S**	7.5	**Pr >= |S|**	0.0625

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.655292	**Pr < W**	0.0031
Kolmogorov-Smirnov	**D**	0.394074	**Pr > D**	0.0115
Cramer-von Mises	**W-Sq**	0.173059	**Pr > W-Sq**	0.0073
Anderson-Darling	**A-Sq**	0.898316	**Pr > A-Sq**	0.0068

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.2
99%	18.2
95%	18.2
90%	18.2
75% Q3	6.7
50% Median	5.5

The UNIVARIATE Procedure
Variable: REACT

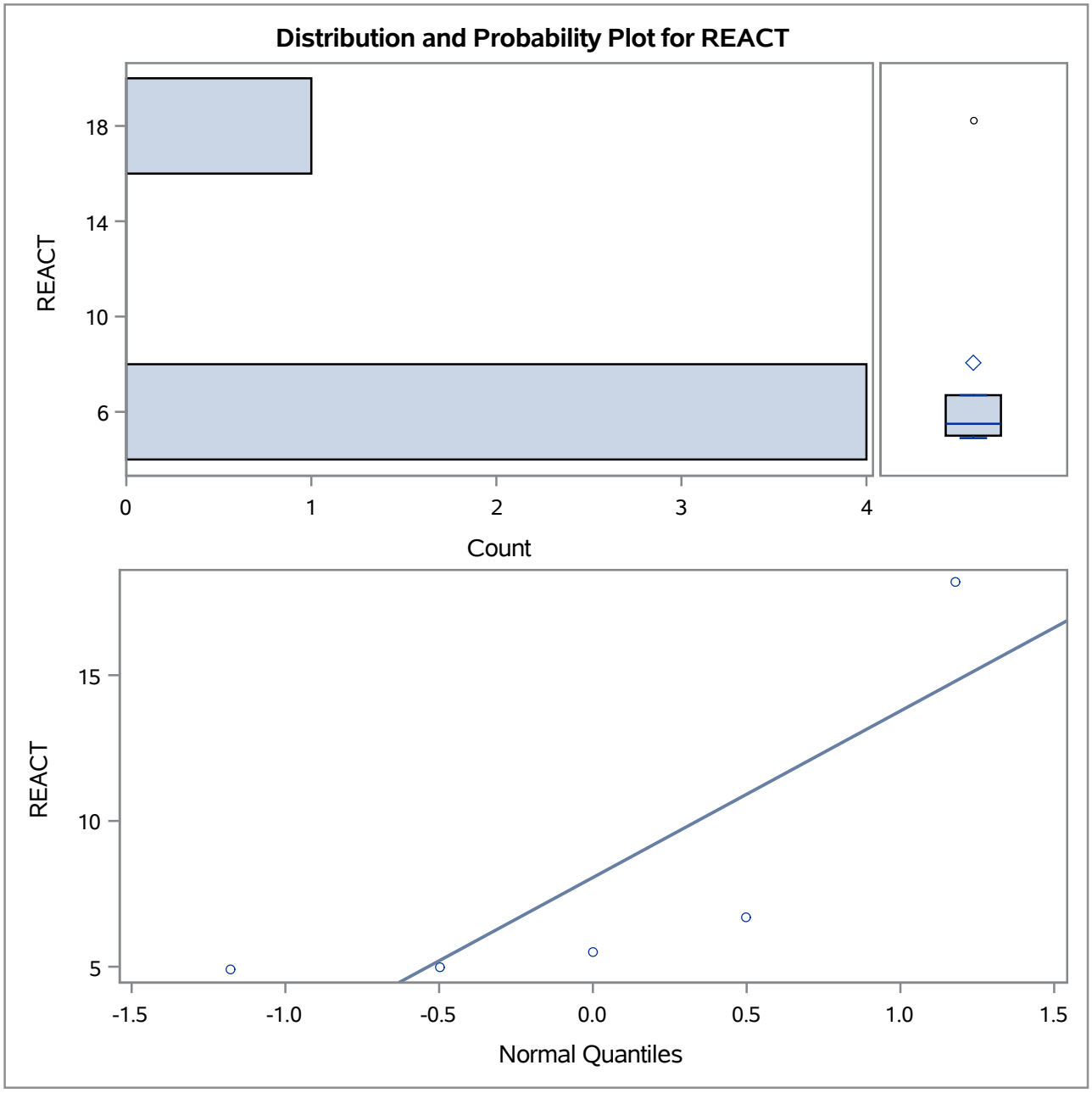
DOSE=2

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	5.0
10%	4.9
5%	4.9
1%	4.9
0% Min	4.9

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
4.9	6	4.9	6
5.0	7	5.0	7
5.5	10	5.5	10
6.7	8	6.7	8
18.2	9	18.2	9

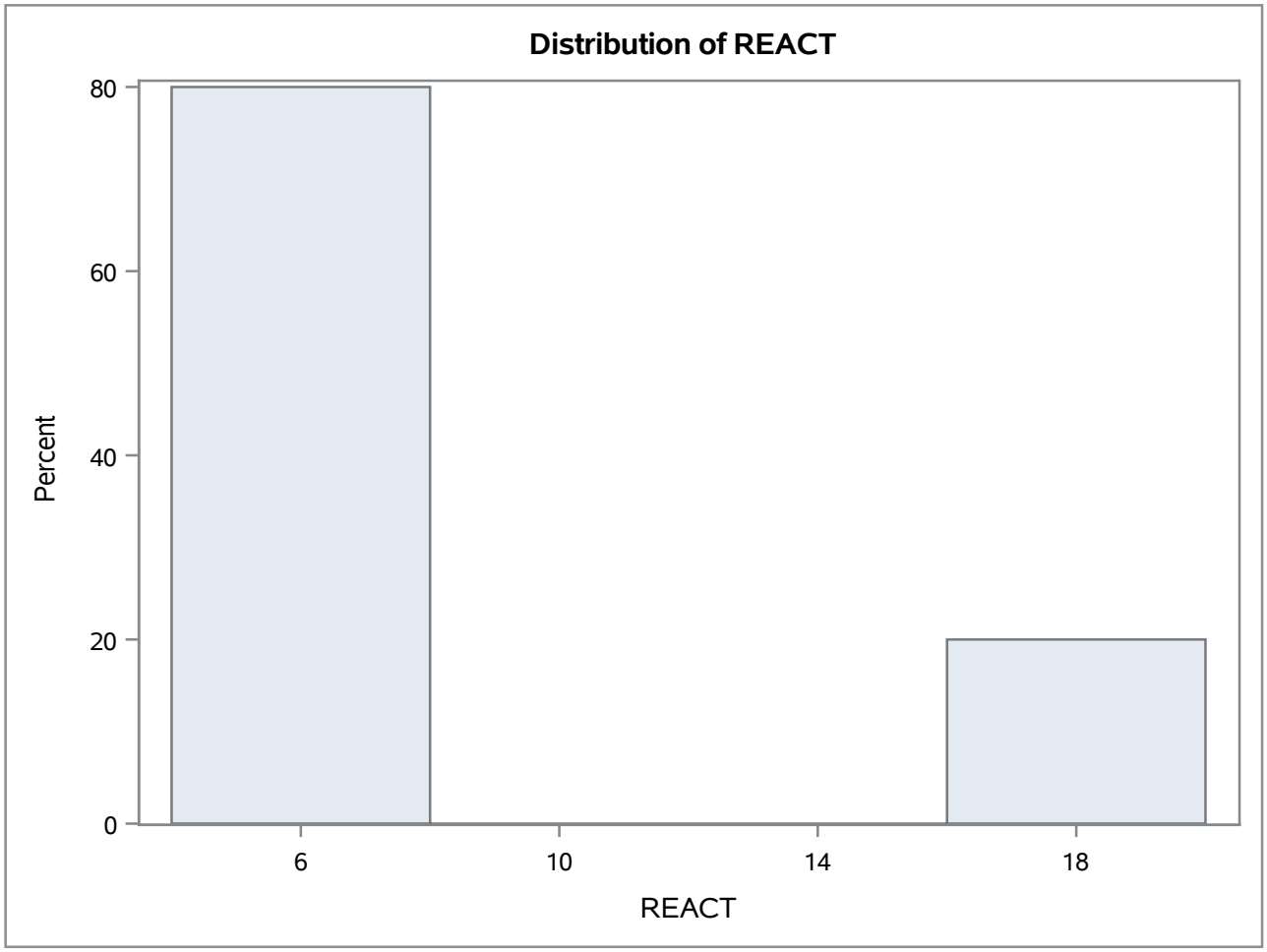
The UNIVARIATE Procedure

DOSE=2



The UNIVARIATE Procedure

DOSE=2



The UNIVARIATE Procedure
Variable: LIVER_WT

DOSE=2

Moments			
N	5	**Sum Weights**	5
Mean	11.62	**Sum Observations**	58.1
Std Deviation	1.5155857	**Variance**	2.297
Skewness	0.47200754	**Kurtosis**	-0.1965862
Uncorrected SS	684.31	**Corrected SS**	9.188
Coeff Variation	13.0429062	**Std Error Mean**	0.67779053

Basic Statistical Measures			
Location		**Variability**	
Mean	11.62000	**Std Deviation**	1.51559
Median	11.90000	**Variance**	2.29700
Mode	.	**Range**	3.90000
		Interquartile Range	1.50000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.14394	**Pr > |t|**	<.0001
Sign	**M**	2.5	**Pr >= |M|**	0.0625
Signed Rank	**S**	7.5	**Pr >= |S|**	0.0625

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.949815	**Pr < W**	0.7359
Kolmogorov-Smirnov	**D**	0.201012	**Pr > D**	>0.1500
Cramer-von Mises	**W-Sq**	0.03856	**Pr > W-Sq**	>0.2500
Anderson-Darling	**A-Sq**	0.237599	**Pr > A-Sq**	>0.2500

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.8
99%	13.8
95%	13.8
90%	13.8
75% Q3	12.0
50% Median	11.9

The UNIVARIATE Procedure
Variable: LIVER_WT

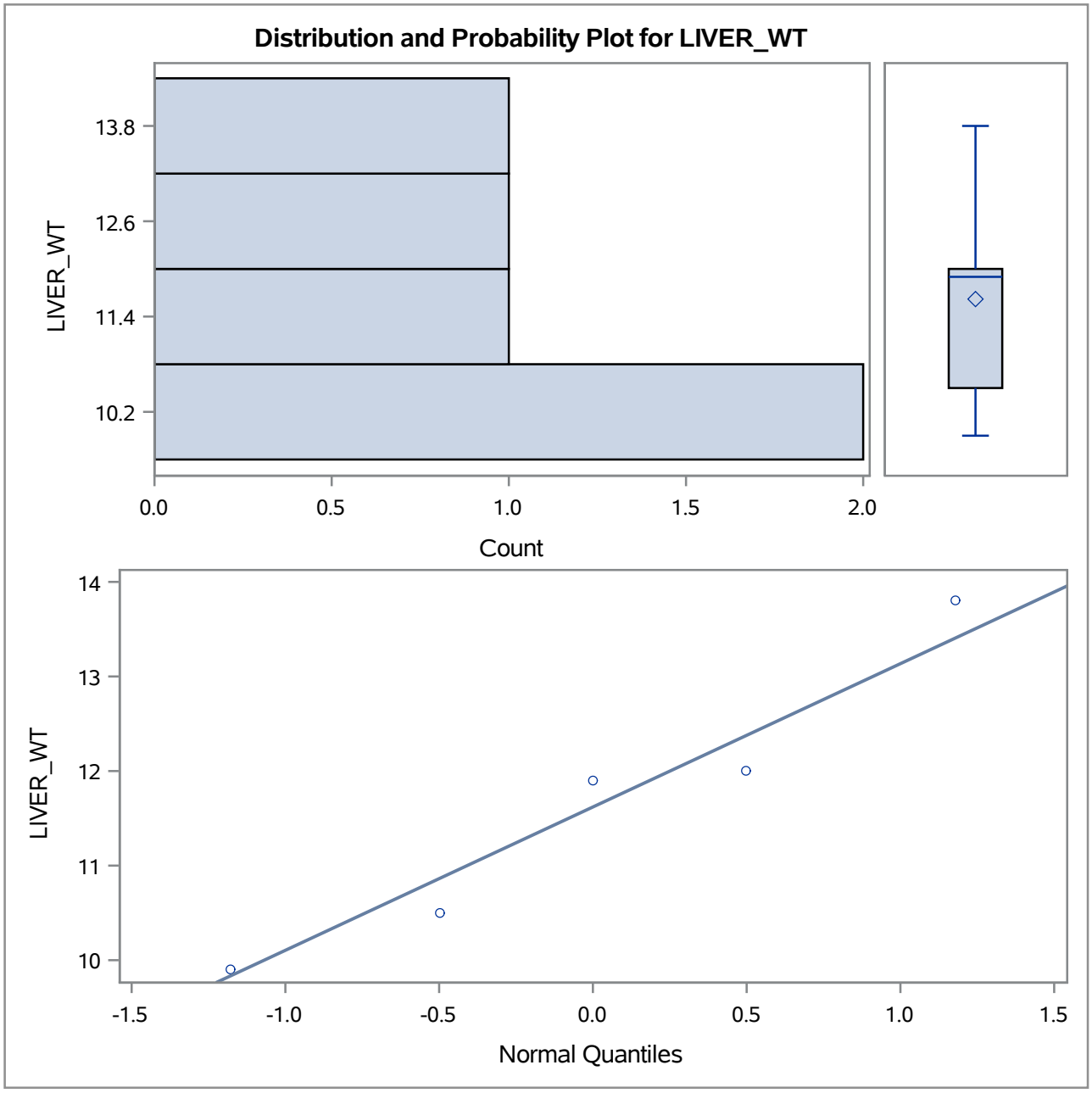
DOSE=2

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	10.5
10%	9.9
5%	9.9
1%	9.9
0% Min	9.9

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
9.9	10	9.9	10
10.5	8	10.5	8
11.9	9	11.9	9
12.0	7	12.0	7
13.8	6	13.8	6

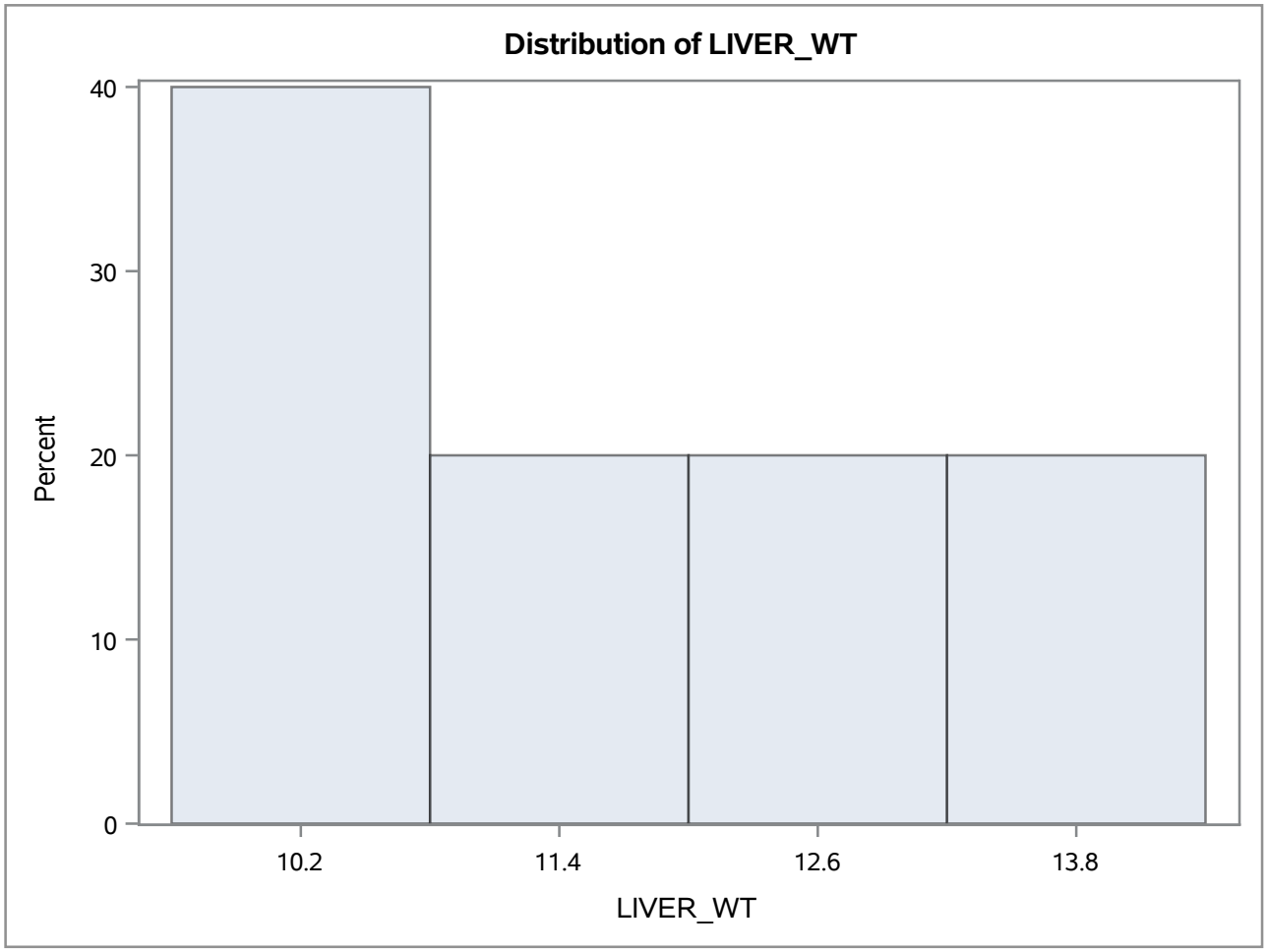
The UNIVARIATE Procedure

DOSE=2



The UNIVARIATE Procedure

DOSE=2



The UNIVARIATE Procedure
Variable: SPLEEN

DOSE=2

Moments			
N	5	**Sum Weights**	5
Mean	7.7	**Sum Observations**	38.5
Std Deviation	0.99247166	**Variance**	0.985
Skewness	0.39894246	**Kurtosis**	-0.6241336
Uncorrected SS	300.39	**Corrected SS**	3.94
Coeff Variation	12.8892424	**Std Error Mean**	0.44384682

Basic Statistical Measures			
Location		**Variability**	
Mean	7.700000	**Std Deviation**	0.99247
Median	7.900000	**Variance**	0.98500
Mode	.	**Range**	2.50000
		Interquartile Range	1.10000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.34833	**Pr > |t|**	<.0001
Sign	**M**	2.5	**Pr >= |M|**	0.0625
Signed Rank	**S**	7.5	**Pr >= |S|**	0.0625

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.942561	**Pr < W**	0.6841
Kolmogorov-Smirnov	**D**	0.189898	**Pr > D**	>0.1500
Cramer-von Mises	**W-Sq**	0.039302	**Pr > W-Sq**	>0.2500
Anderson-Darling	**A-Sq**	0.245613	**Pr > A-Sq**	>0.2500

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.1
99%	9.1
95%	9.1
90%	9.1
75% Q3	8.0
50% Median	7.9

The UNIVARIATE Procedure
Variable: SPLEEN

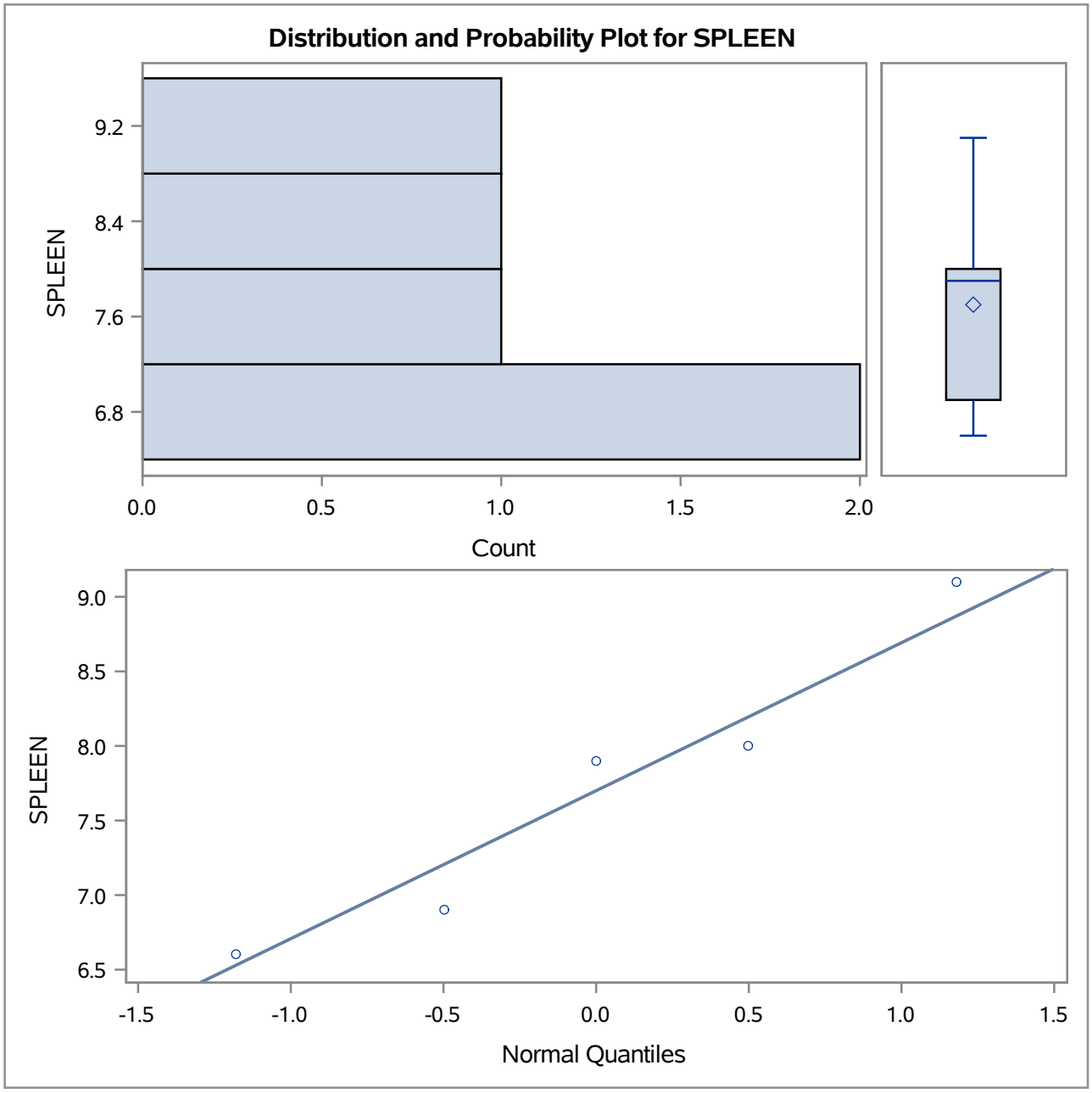
DOSE=2

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	6.9
10%	6.6
5%	6.6
1%	6.6
0% Min	6.6

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
6.6	6	6.6	6
6.9	9	6.9	9
7.9	7	7.9	7
8.0	8	8.0	8
9.1	10	9.1	10

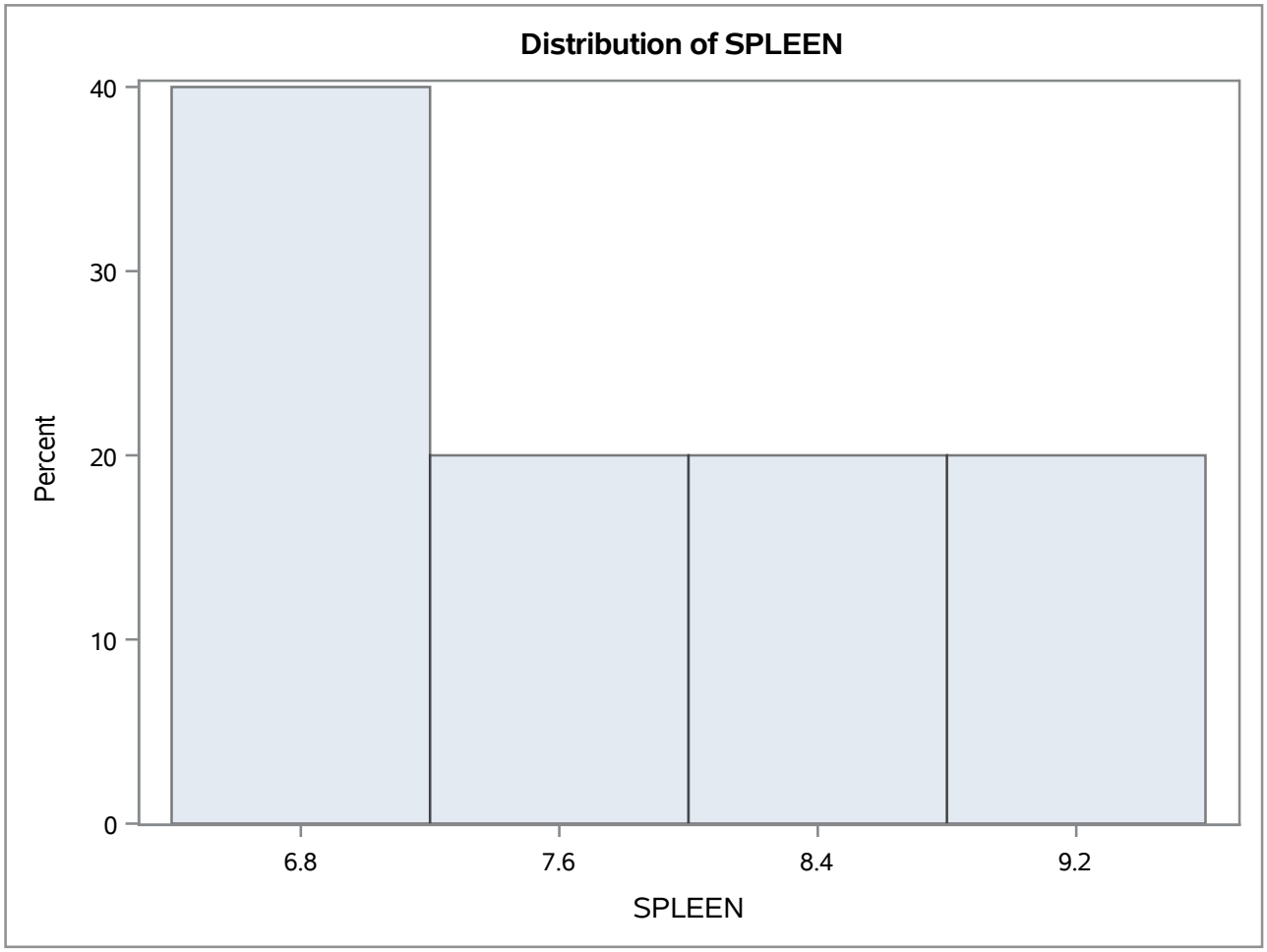
The UNIVARIATE Procedure

DOSE=2

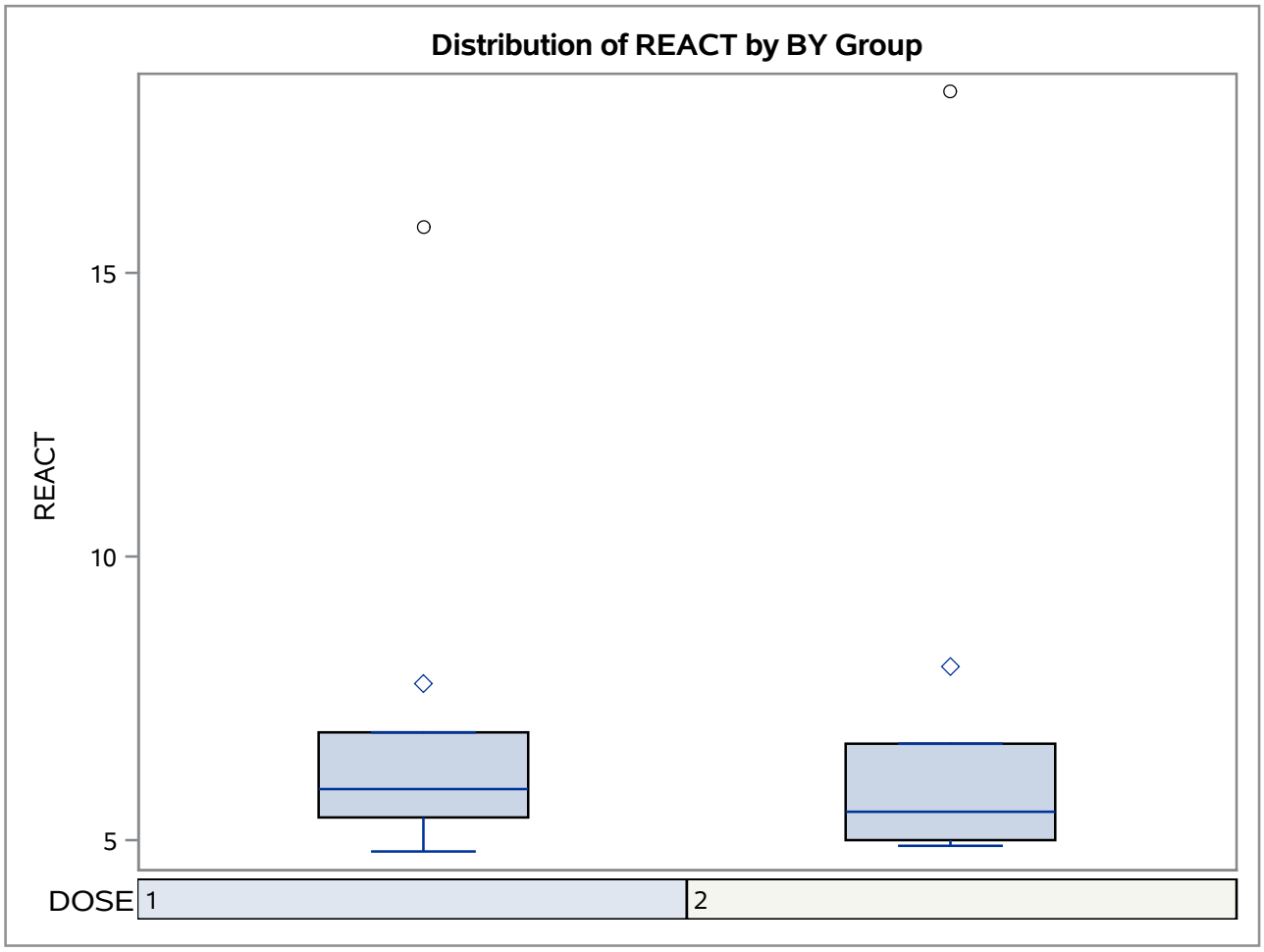


The UNIVARIATE Procedure

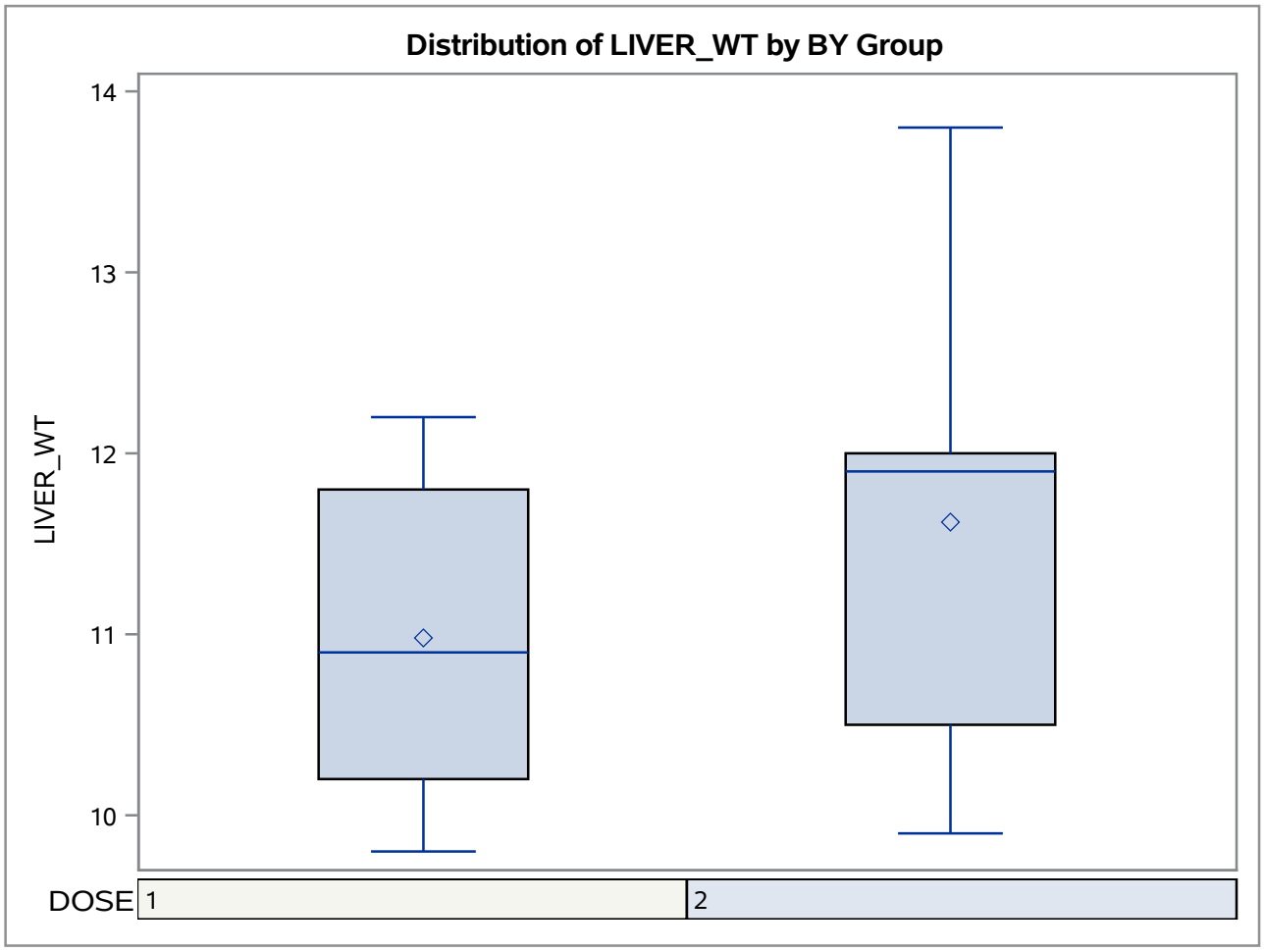
DOSE=2



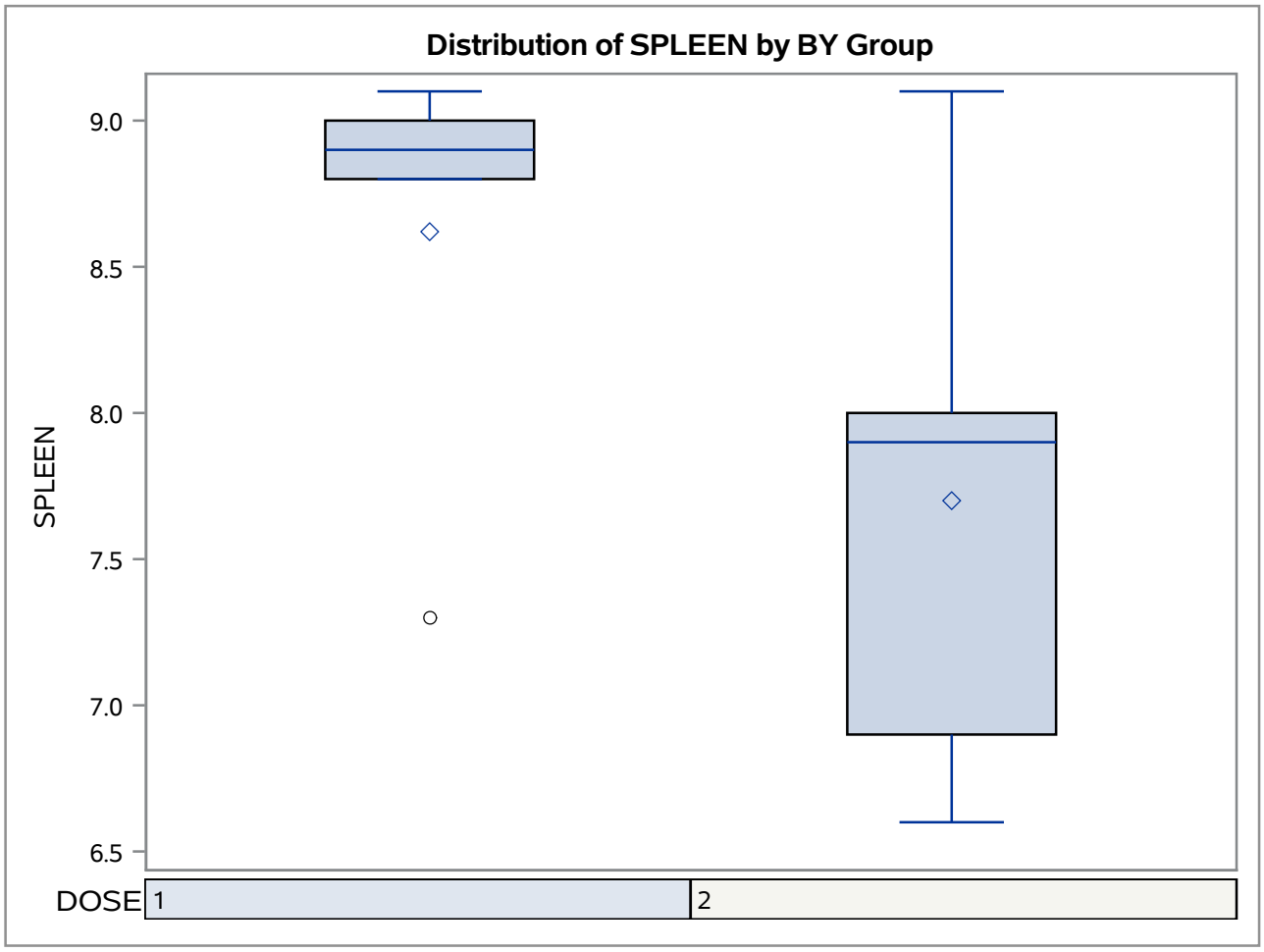
The UNIVARIATE Procedure



The UNIVARIATE Procedure



The UNIVARIATE Procedure



Night Workload November 2018 Mean Standard Deviation Median

The MEANS Procedure

Analysis Variable : NumCalls							
N	Mean	Std Dev	Median	Minimum	Maximum	Lower Quartile	Upper Quartile
30	67	13	69	37	95	58	75

Night More Descriptive Stat Workload November 2018

The UNIVARIATE Procedure
Variable: NumCalls

Moments			
N	30	**Sum Weights**	30
Mean	67.0666667	**Sum Observations**	2012
Std Deviation	13.2507211	**Variance**	175.581609
Skewness	-0.1698253	**Kurtosis**	0.18195265
Uncorrected SS	140030	**Corrected SS**	5091.86667
Coeff Variation	19.7575364	**Std Error Mean**	2.41923961

Basic Statistical Measures			
Location		**Variability**	
Mean	67.06667	**Std Deviation**	13.25072
Median	68.50000	**Variance**	175.58161
Mode	70.00000	**Range**	58.00000
		Interquartile Range	17.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.72221	**Pr > |t|**	<.0001
Sign	**M**	15	**Pr >= |M|**	<.0001
Signed Rank	**S**	232.5	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.982759	**Pr < W**	0.8932
Kolmogorov-Smirnov	**D**	0.104696	**Pr > D**	>0.1500
Cramer-von Mises	**W-Sq**	0.054712	**Pr > W-Sq**	>0.2500
Anderson-Darling	**A-Sq**	0.286827	**Pr > A-Sq**	>0.2500

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	95.0
99%	95.0
95%	90.0
90%	84.0
75% Q3	75.0
50% Median	68.5

Night More Descriptive Stat Workload November 2018

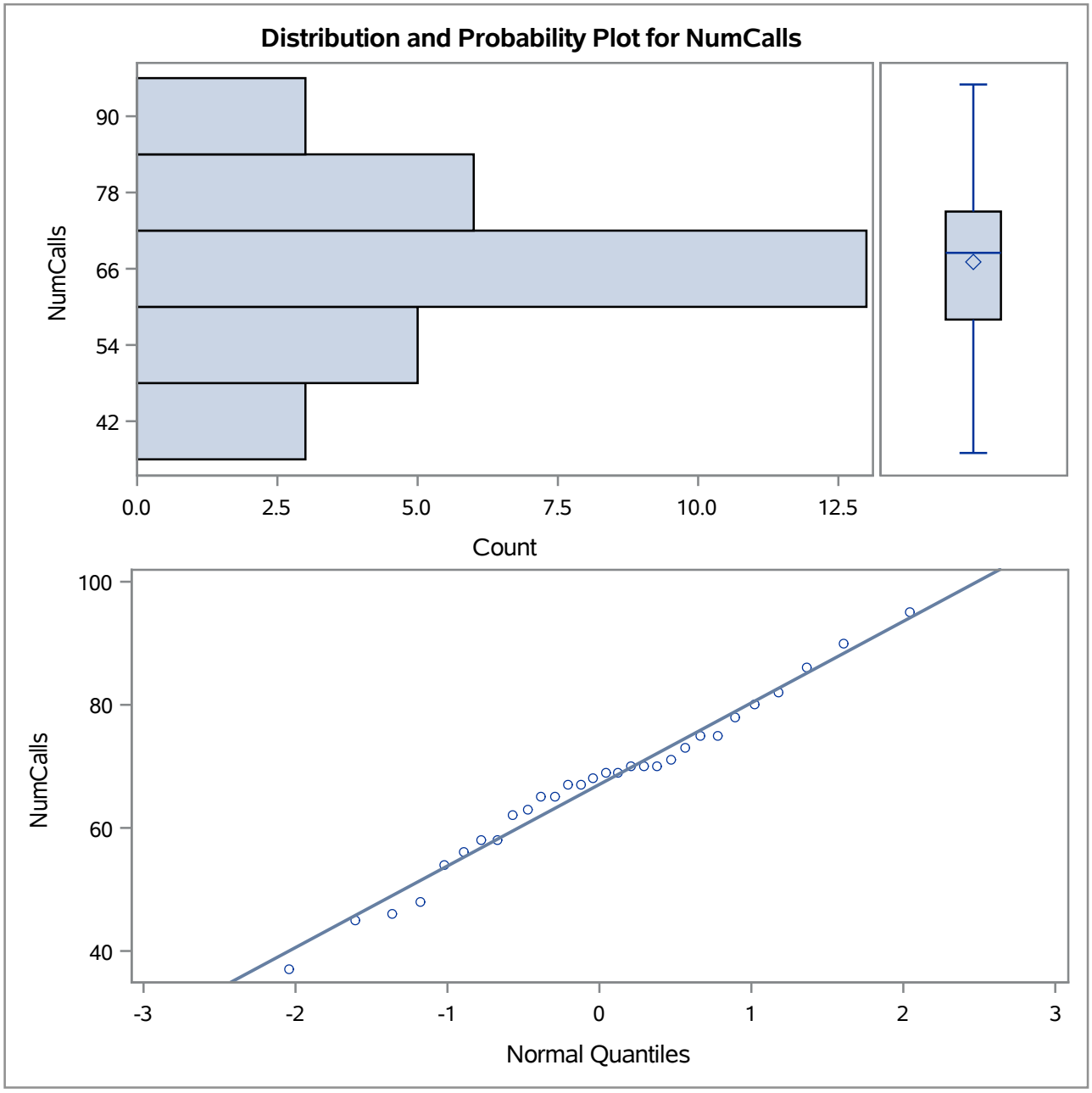
The UNIVARIATE Procedure
Variable: NumCalls

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	58.0
10%	47.0
5%	45.0
1%	37.0
0% Min	37.0

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
37	17	80	10
45	22	82	13
46	18	86	3
48	4	90	5
54	29	95	9

Night More Descriptive Stat Workload November 2018

The UNIVARIATE Procedure



The MEANS Procedure

Analysis Variable : Nov2018				
Mean	Median	Std Dev	Minimum	Maximum
3.73	3.70	0.82	2.40	6.30

The UNIVARIATE Procedure
Variable: Nov2018

Moments			
N	51	**Sum Weights**	51
Mean	3.73333333	**Sum Observations**	190.4
Std Deviation	0.82332659	**Variance**	0.67786667
Skewness	0.69836289	**Kurtosis**	0.83988223
Uncorrected SS	744.72	**Corrected SS**	33.8933333
Coeff Variation	22.0533907	**Std Error Mean**	0.11528878

Basic Statistical Measures			
Location		**Variability**	
Mean	3.733333	**Std Deviation**	0.82333
Median	3.700000	**Variance**	0.67787
Mode	2.800000	**Range**	3.90000
		Interquartile Range	1.00000

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**	32.38245	**Pr > |t|**	<.0001
Sign	**M**	25.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	663	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.965275	**Pr < W**	0.1399
Kolmogorov-Smirnov	**D**	0.073132	**Pr > D**	>0.1500
Cramer-von Mises	**W-Sq**	0.04042	**Pr > W-Sq**	>0.2500
Anderson-Darling	**A-Sq**	0.334108	**Pr > A-Sq**	>0.2500

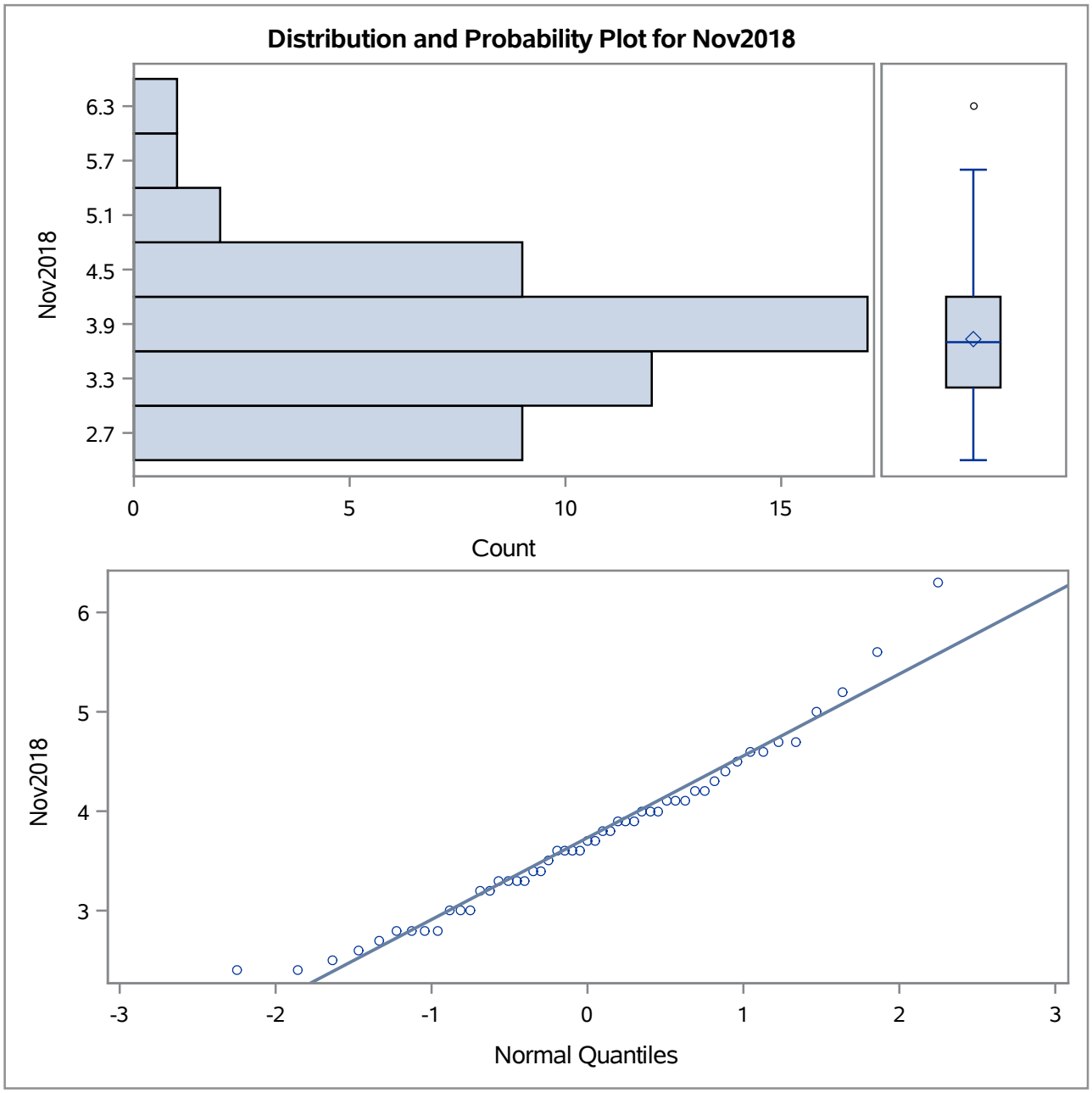
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	6.3
99%	6.3
95%	5.2
90%	4.7
75% Q3	4.2
50% Median	3.7

The UNIVARIATE Procedure
Variable: Nov2018

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	3.2
10%	2.8
5%	2.5
1%	2.4
0% Min	2.4

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
2.4	2	4.7	47
2.4	1	5.0	48
2.5	3	5.2	49
2.6	4	5.6	50
2.7	5	6.3	51

The UNIVARIATE Procedure



Problem 3. Unemplyment Table Of States Above or Equal the average

State	Nov2018
Delaware	3.8
Rhode Island	3.8
Michigan	3.9
New York	3.9
Oregon	3.9
Alabama	4
Maryland	4
New Jersey	4
California	4.1
Connecticut	4.1
Wyoming	4.1
Illinois	4.2
Pennsylvania	4.2
Washington	4.3
Nevada	4.4
Kentucky	4.5
New Mexico	4.6
Ohio	4.6
Arizona	4.7
Mississippi	4.7
Louisiana	5
West Virginia	5.2
District of Co	5.6
Alaska	6.3

Problem 3. Unemplyment Table Of States Below the average

State	Nov2018
Hawaii	2.4
Iowa	2.4
New Hampshire	2.5
Idaho	2.6
Vermont	2.7
Minnesota	2.8
Nebraska	2.8
North Dakota	2.8
Virginia	2.8
Missouri	3
South Dakota	3
Wisconsin	3
Kansas	3.2
Utah	3.2
Colorado	3.3
Florida	3.3
Oklahoma	3.3
South Carolina	3.3
Maine	3.4
Massachusetts	3.4
Georgia	3.5
Arkansas	3.6
Indiana	3.6
North Carolina	3.6
Tennessee	3.6
Montana	3.7
Texas	3.7

The MEANS Procedure

Class=Compact Car

Analysis Variable : CombinedMPG						
Mean	Std Dev	Minimum	Lower Quartile	Median	Upper Quartile	Maximum
26.372	5.260	14.000	23.000	27.000	29.000	50.000

Class=Large Cars

Analysis Variable : CombinedMPG						
Mean	Std Dev	Minimum	Lower Quartile	Median	Upper Quartile	Maximum
21.194	4.254	14.000	18.000	21.000	23.000	40.000

Class=Midsize Car

Analysis Variable : CombinedMPG						
Mean	Std Dev	Minimum	Lower Quartile	Median	Upper Quartile	Maximum
26.364	6.727	13.000	22.000	26.000	30.000	56.000

Class=Minicompact

Analysis Variable : CombinedMPG						
Mean	Std Dev	Minimum	Lower Quartile	Median	Upper Quartile	Maximum
22.868	4.067	15.000	21.000	22.000	25.000	34.000

Class=Pick-up Tru

Analysis Variable : CombinedMPG						
Mean	Std Dev	Minimum	Lower Quartile	Median	Upper Quartile	Maximum
18.940	2.476	13.000	17.000	19.000	21.000	25.000

Class=SUV

Analysis Variable : CombinedMPG						
Mean	Std Dev	Minimum	Lower Quartile	Median	Upper Quartile	Maximum
21.835	4.063	12.000	18.000	22.000	25.000	33.000

The MEANS Procedure

Class=Special Pur

Analysis Variable : CombinedMPG						
Mean	Std Dev	Minimum	Lower Quartile	Median	Upper Quartile	Maximum
20.686	2.795	16.000	18.000	21.000	23.000	25.000

Class=Station Wag

Analysis Variable : CombinedMPG						
Mean	Std Dev	Minimum	Lower Quartile	Median	Upper Quartile	Maximum
27.477	4.628	18.000	24.500	28.000	30.000	42.000

Class=Subcompact

Analysis Variable : CombinedMPG						
Mean	Std Dev	Minimum	Lower Quartile	Median	Upper Quartile	Maximum
23.695	5.036	15.000	20.000	24.000	27.000	37.000

Class=Two Seaters

Analysis Variable : CombinedMPG						
Mean	Std Dev	Minimum	Lower Quartile	Median	Upper Quartile	Maximum
20.341	5.397	12.000	17.000	19.000	23.000	37.000

Class=Vans, Passe

Analysis Variable : CombinedMPG						
Mean	Std Dev	Minimum	Lower Quartile	Median	Upper Quartile	Maximum
13.667	1.862	12.000	12.000	13.000	16.000	16.000

The UNIVARIATE Procedure
Variable: CombinedMPG

Class=Compact Car

Moments			
N	199	**Sum Weights**	199
Mean	26.3718593	**Sum Observations**	5248
Std Deviation	5.26014288	**Variance**	27.6691031
Skewness	0.45597674	**Kurtosis**	2.04525974
Uncorrected SS	143878	**Corrected SS**	5478.48241
Coeff Variation	19.9460448	**Std Error Mean**	0.37288164

Basic Statistical Measures			
Location		**Variability**	
Mean	26.37186	**Std Deviation**	5.26014
Median	27.00000	**Variance**	27.66910
Mode	27.00000	**Range**	36.00000
		Interquartile Range	6.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	70.72448	**Pr > |t|**	<.0001
Sign	**M**	99.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	9950	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.96797	**Pr < W**	0.0002
Kolmogorov-Smirnov	**D**	0.079861	**Pr > D**	<0.0100
Cramer-von Mises	**W-Sq**	0.194415	**Pr > W-Sq**	0.0063
Anderson-Darling	**A-Sq**	1.157246	**Pr > A-Sq**	<0.0050

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	50
99%	44
95%	35
90%	33
75% Q3	29
50% Median	27

The UNIVARIATE Procedure
Variable: CombinedMPG

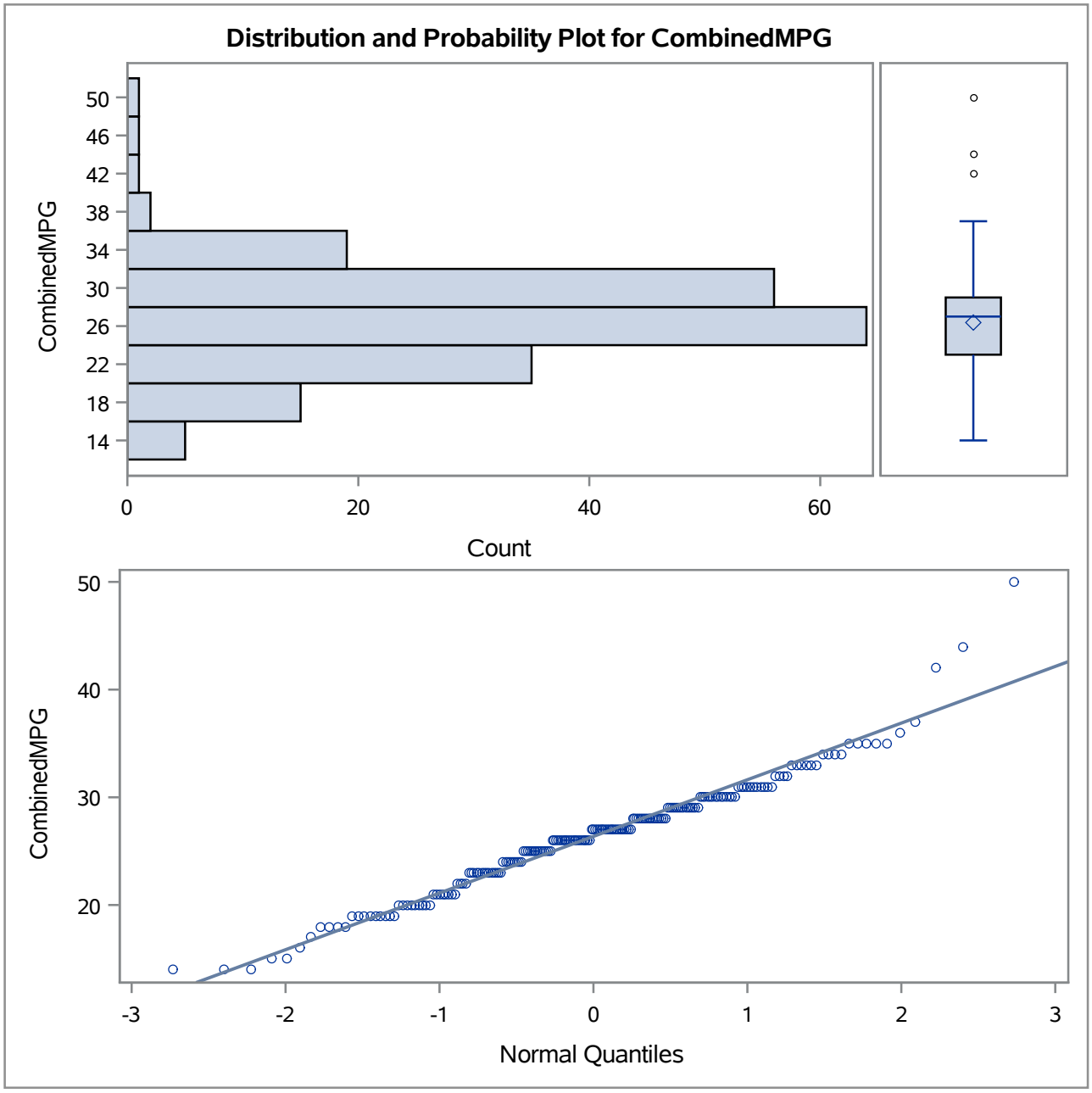
Class=Compact Car

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	23
10%	19
5%	18
1%	14
0% Min	14

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
14	3	36	195
14	2	37	196
14	1	42	197
15	5	44	198
15	4	50	199

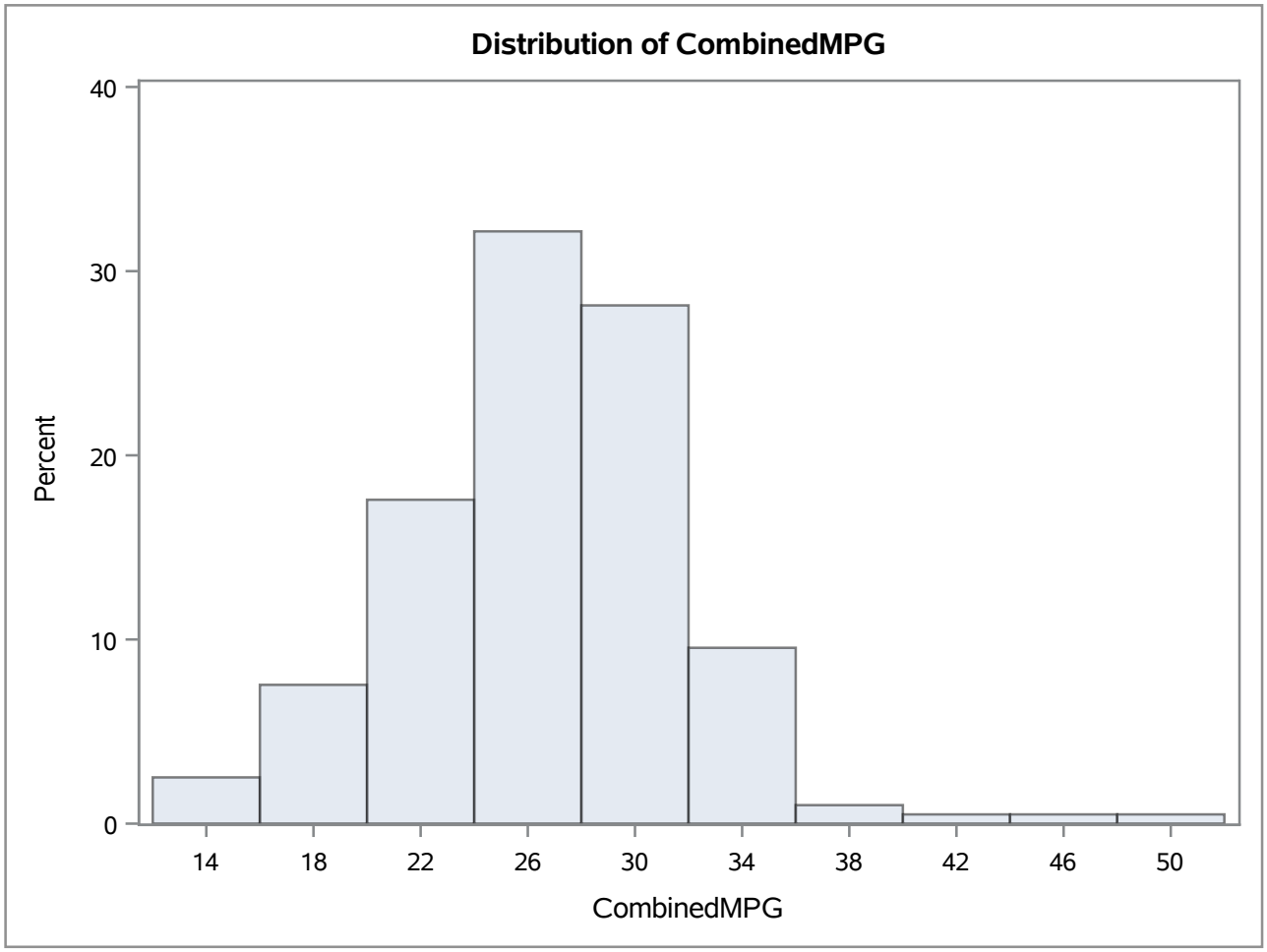
The UNIVARIATE Procedure

Class=Compact Car



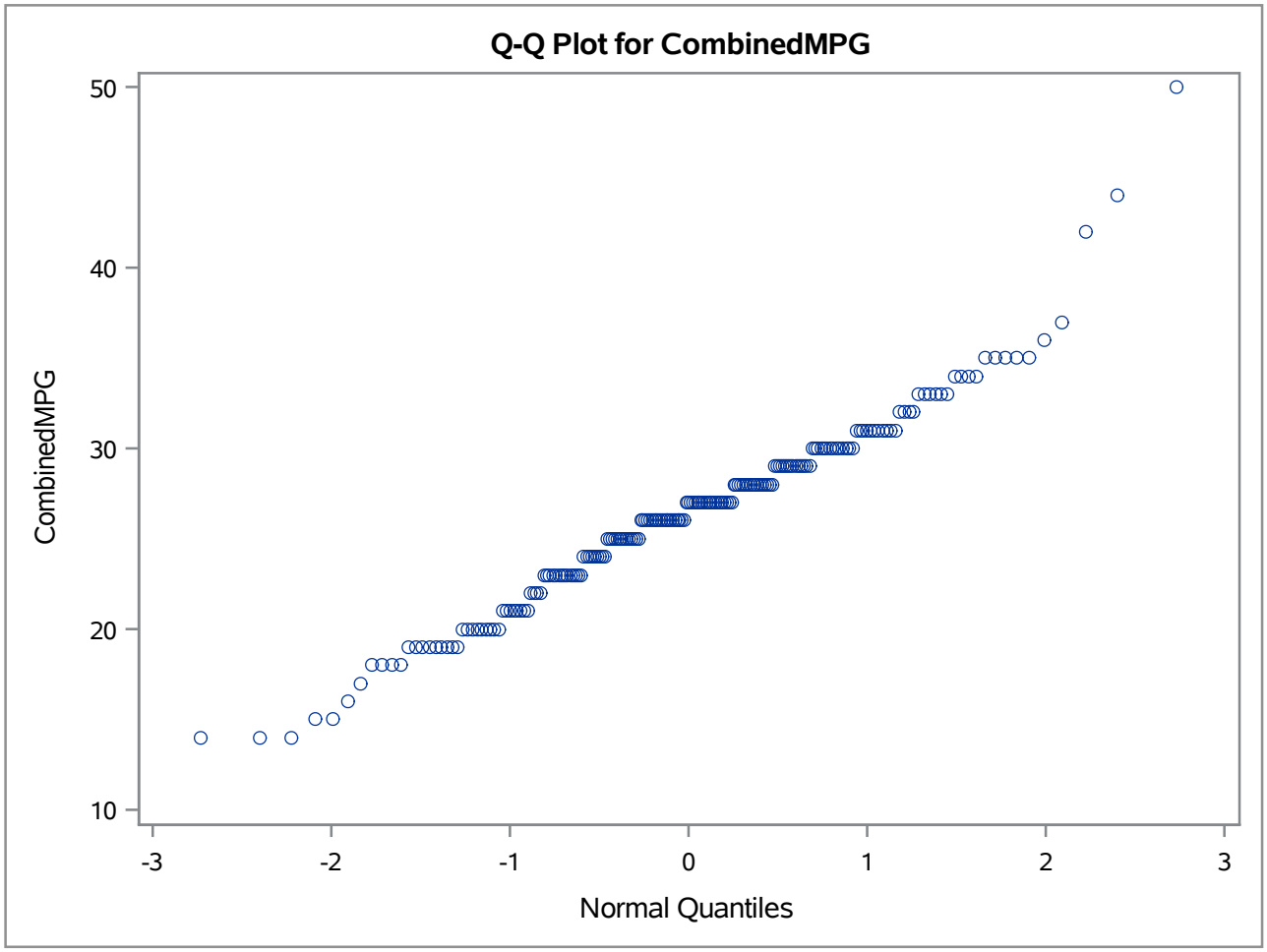
The UNIVARIATE Procedure

Class=Compact Car



The UNIVARIATE Procedure

Class=Compact Car



The UNIVARIATE Procedure
Variable: CombinedMPG

Class=Large Cars

Moments			
N	98	**Sum Weights**	98
Mean	21.1938776	**Sum Observations**	2077
Std Deviation	4.25394459	**Variance**	18.0960446
Skewness	1.33777596	**Kurtosis**	3.4007825
Uncorrected SS	45775	**Corrected SS**	1755.31633
Coeff Variation	20.0715729	**Std Error Mean**	0.4297133

Basic Statistical Measures			
Location		**Variability**	
Mean	21.19388	**Std Deviation**	4.25394
Median	21.00000	**Variance**	18.09604
Mode	18.00000	**Range**	26.00000
		Interquartile Range	5.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	49.32097	**Pr > |t|**	<.0001
Sign	**M**	49	**Pr >= |M|**	<.0001
Signed Rank	**S**	2425.5	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.913428	**Pr < W**	<0.0001
Kolmogorov-Smirnov	**D**	0.14934	**Pr > D**	<0.0100
Cramer-von Mises	**W-Sq**	0.353699	**Pr > W-Sq**	<0.0050
Anderson-Darling	**A-Sq**	2.03771	**Pr > A-Sq**	<0.0050

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	40
99%	40
95%	30
90%	26
75% Q3	23
50% Median	21

The UNIVARIATE Procedure
Variable: CombinedMPG

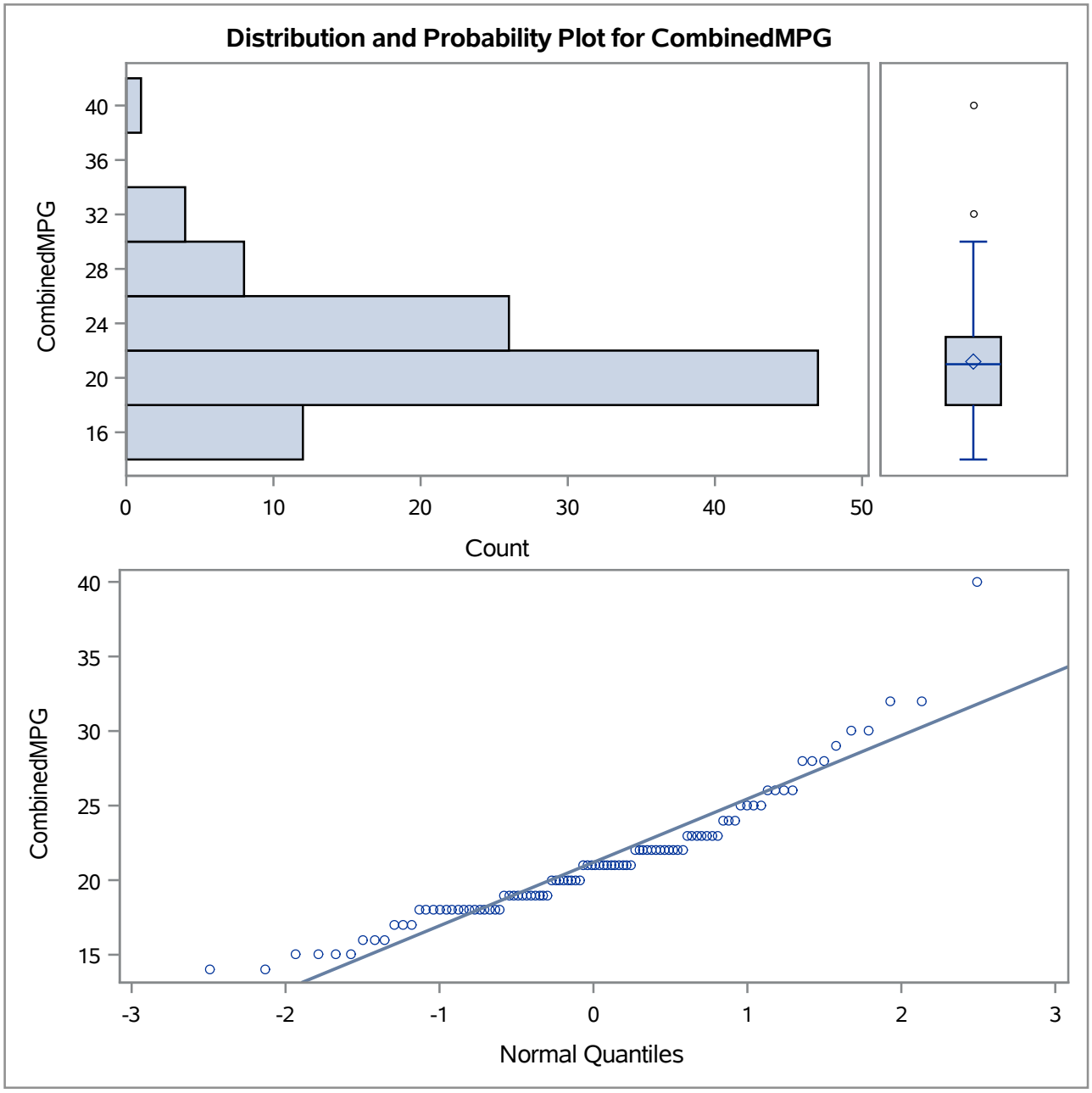
Class=Large Cars

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	18
10%	17
5%	15
1%	14
0% Min	14

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
14	201	30	293
14	200	30	294
15	205	32	295
15	204	32	296
15	203	40	297

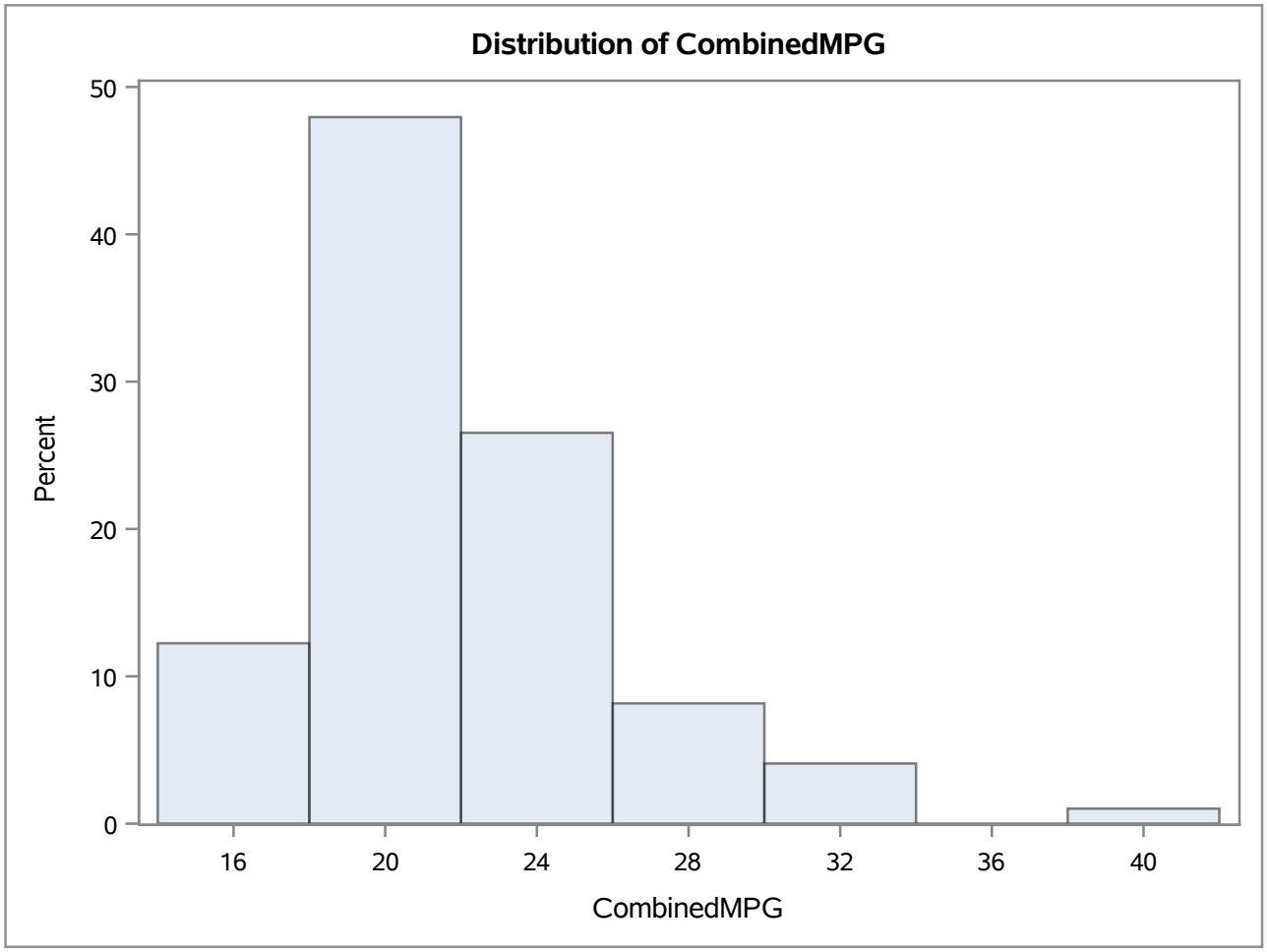
The UNIVARIATE Procedure

Class=Large Cars



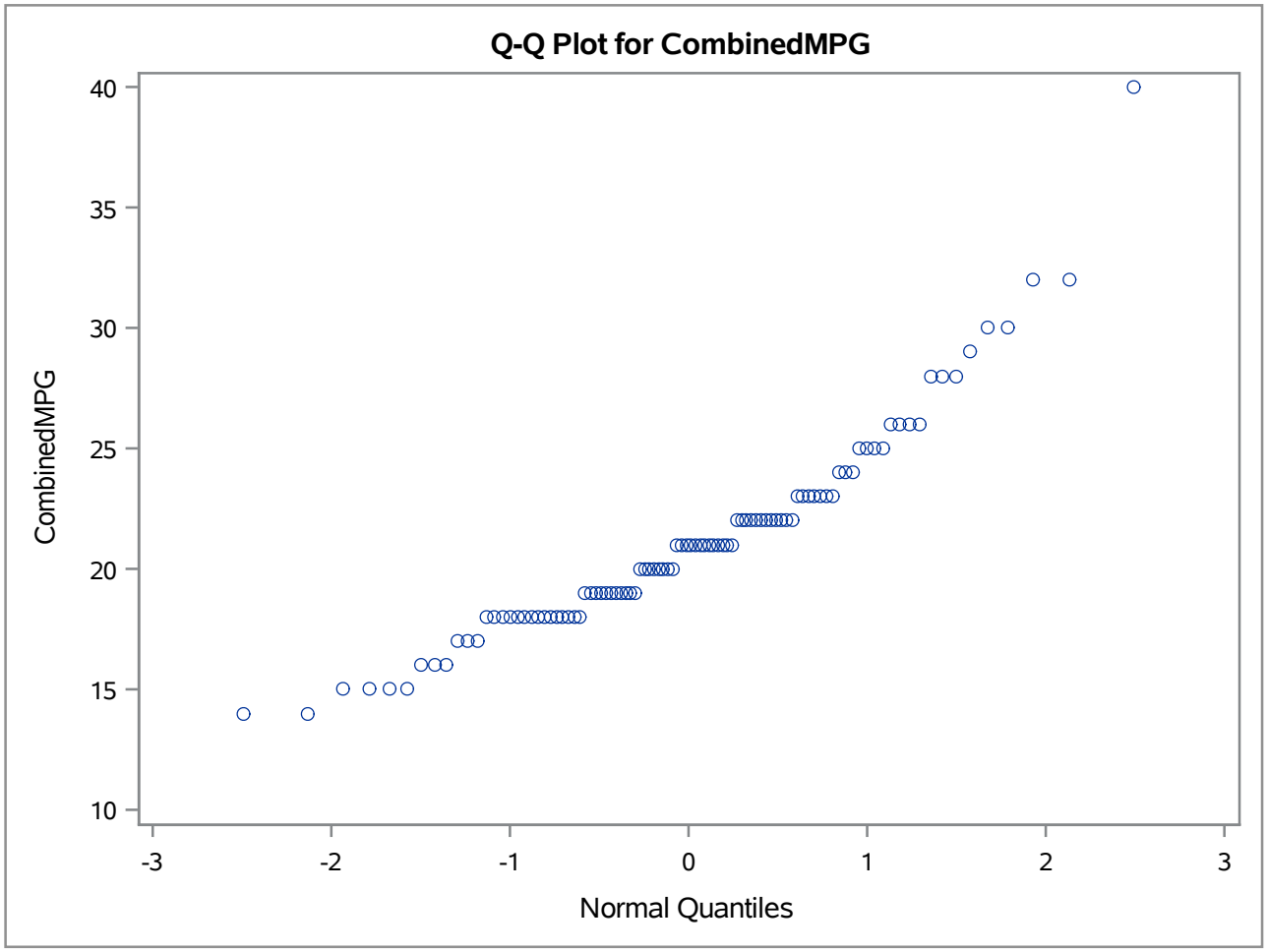
The UNIVARIATE Procedure

Class=Large Cars



The UNIVARIATE Procedure

Class=Large Cars



The UNIVARIATE Procedure
Variable: CombinedMPG

Class=Midsize Car

Moments			
N	198	**Sum Weights**	198
Mean	26.3636364	**Sum Observations**	5220
Std Deviation	6.72740368	**Variance**	45.2579603
Skewness	0.92124029	**Kurtosis**	2.26765288
Uncorrected SS	146534	**Corrected SS**	8915.81818
Coeff Variation	25.5177381	**Std Error Mean**	0.47809576

Basic Statistical Measures			
Location		**Variability**	
Mean	26.36364	**Std Deviation**	6.72740
Median	26.00000	**Variance**	45.25796
Mode	31.00000	**Range**	43.00000
		Interquartile Range	8.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	55.143	**Pr > |t|**	<.0001
Sign	**M**	99	**Pr >= |M|**	<.0001
Signed Rank	**S**	9850.5	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.950796	**Pr < W**	<0.0001
Kolmogorov-Smirnov	**D**	0.089954	**Pr > D**	<0.0100
Cramer-von Mises	**W-Sq**	0.200934	**Pr > W-Sq**	<0.0050
Anderson-Darling	**A-Sq**	1.595394	**Pr > A-Sq**	<0.0050

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	56
99%	52
95%	40
90%	33
75% Q3	30
50% Median	26

The UNIVARIATE Procedure
Variable: CombinedMPG

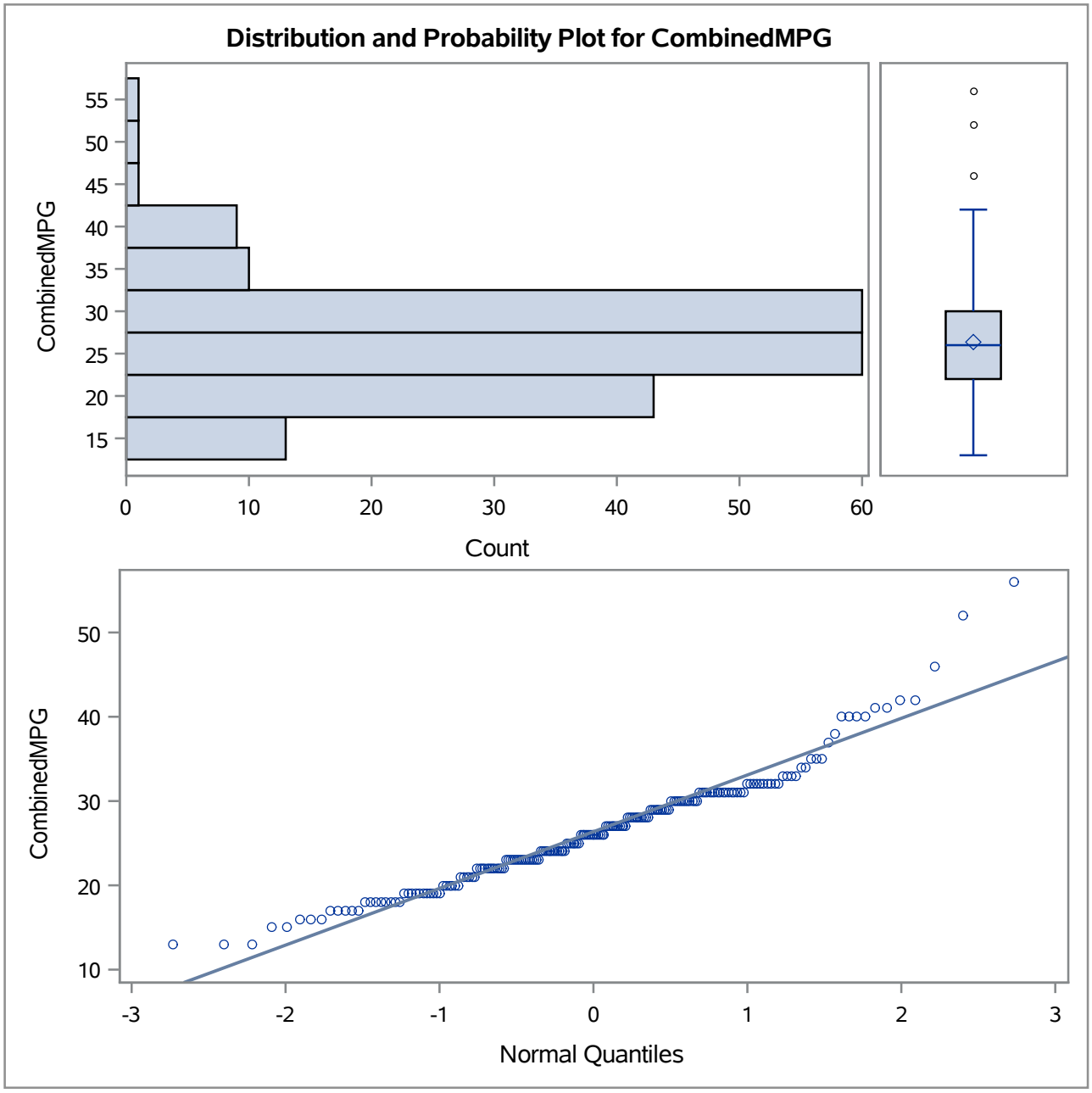
Class=Midsize Car

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	22
10%	18
5%	17
1%	13
0% Min	13

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
13	300	42	491
13	299	42	492
13	298	46	493
15	302	52	494
15	301	56	495

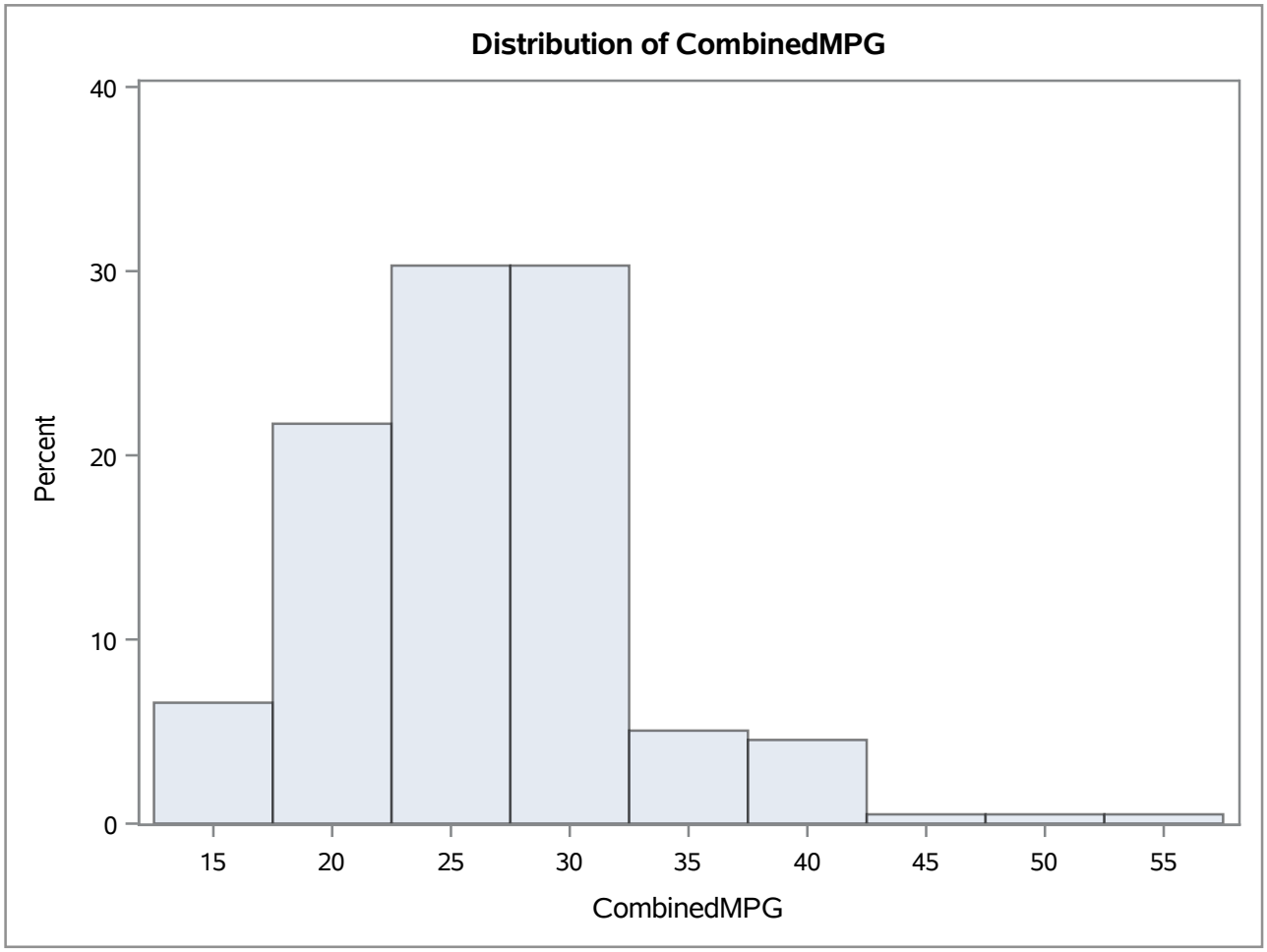
The UNIVARIATE Procedure

Class=Midsize Car



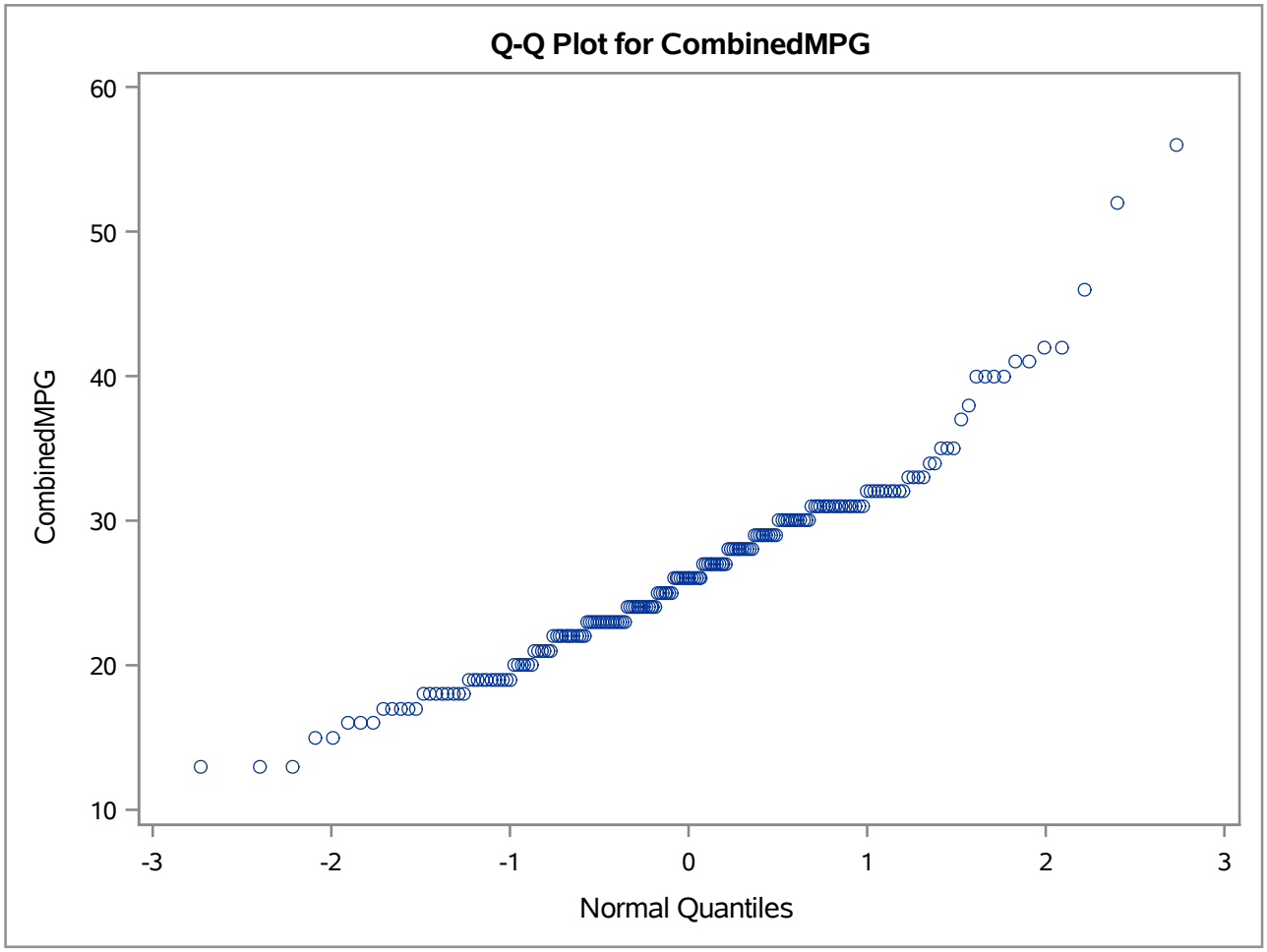
The UNIVARIATE Procedure

Class=Midsize Car



The UNIVARIATE Procedure

Class=Midsize Car



The UNIVARIATE Procedure
Variable: CombinedMPG

Class=Minicompact

Moments			
N	53	**Sum Weights**	53
Mean	22.8679245	**Sum Observations**	1212
Std Deviation	4.06692918	**Variance**	16.5399129
Skewness	0.81046085	**Kurtosis**	0.38749563
Uncorrected SS	28576	**Corrected SS**	860.075472
Coeff Variation	17.7844263	**Std Error Mean**	0.55863569

Basic Statistical Measures			
Location		**Variability**	
Mean	22.86792	**Std Deviation**	4.06693
Median	22.00000	**Variance**	16.53991
Mode	21.00000	**Range**	19.00000
		Interquartile Range	4.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	40.93531	**Pr > |t|**	<.0001
Sign	**M**	26.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	715.5	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.894435	**Pr < W**	0.0002
Kolmogorov-Smirnov	**D**	0.244874	**Pr > D**	<0.0100
Cramer-von Mises	**W-Sq**	0.573863	**Pr > W-Sq**	<0.0050
Anderson-Darling	**A-Sq**	2.789375	**Pr > A-Sq**	<0.0050

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	34
99%	34
95%	31
90%	30
75% Q3	25
50% Median	22

The UNIVARIATE Procedure
Variable: CombinedMPG

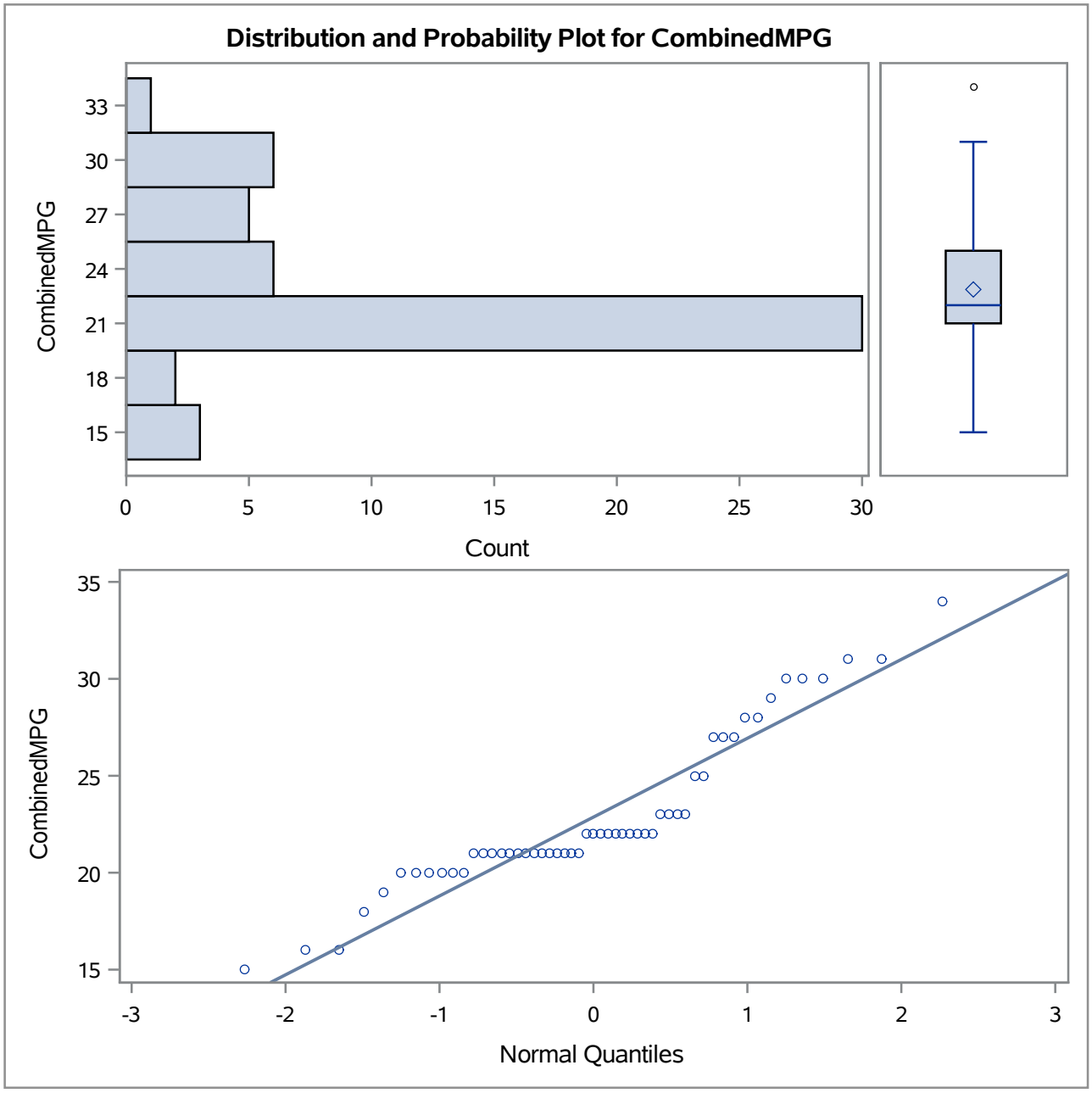
Class=Minicompact

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	21
10%	20
5%	16
1%	15
0% Min	15

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
15	496	30	544
16	498	30	545
16	497	31	546
18	499	31	547
19	500	34	548

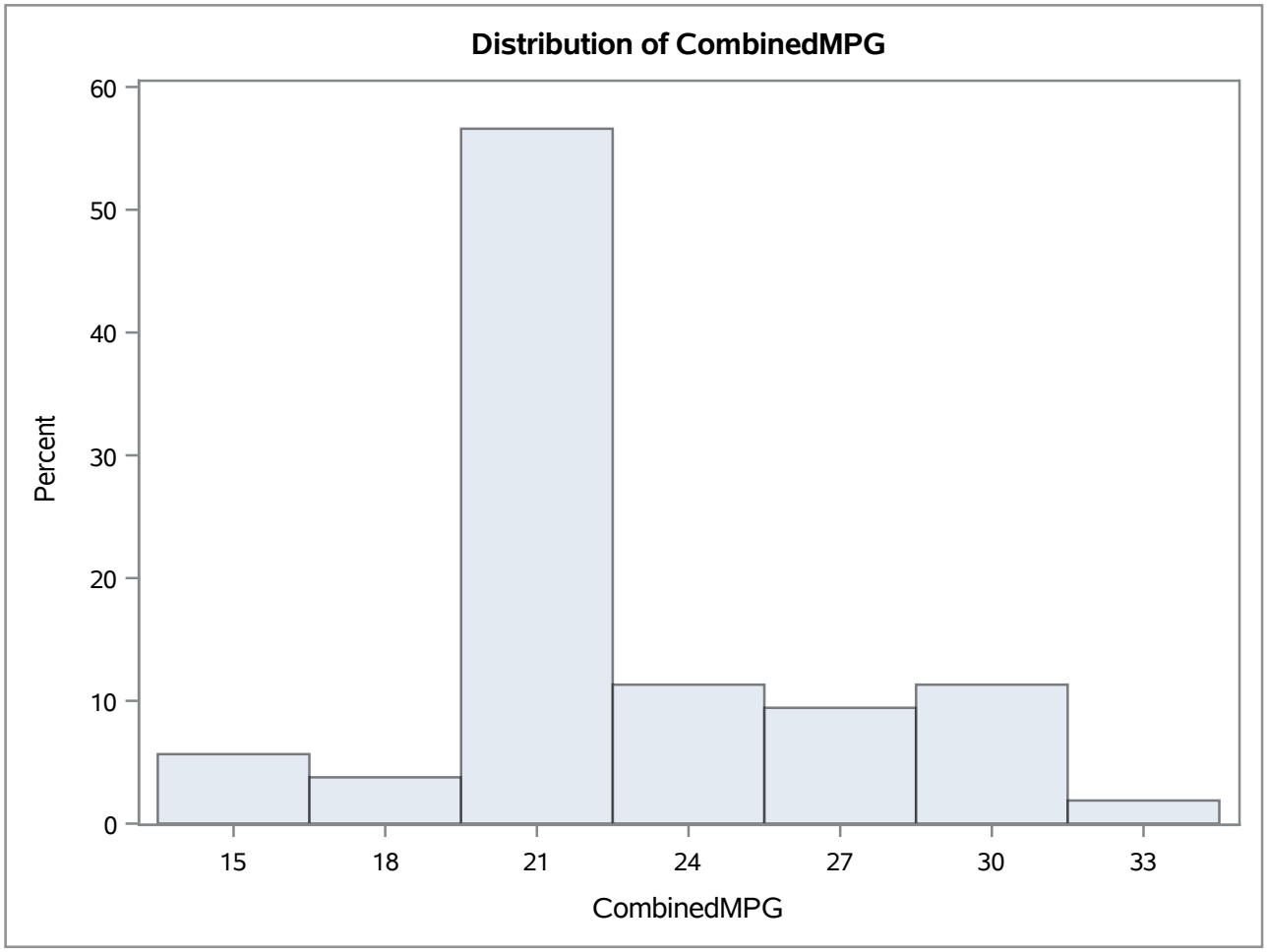
The UNIVARIATE Procedure

Class=Minicompact



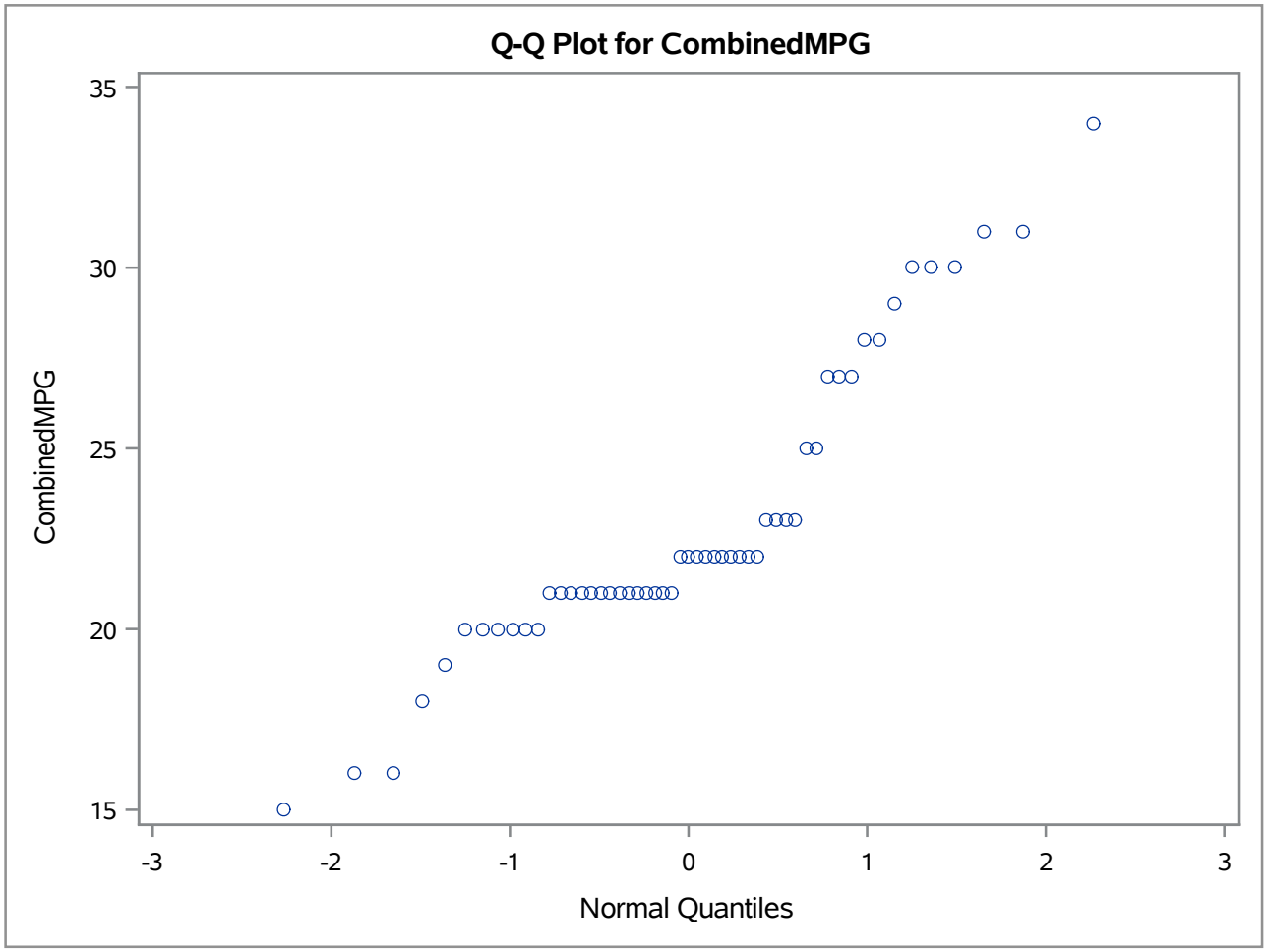
The UNIVARIATE Procedure

Class=Minicompact



The UNIVARIATE Procedure

Class=Minicompact



The UNIVARIATE Procedure
Variable: CombinedMPG

Class=Pick-up Tru

Moments			
N	83	**Sum Weights**	83
Mean	18.939759	**Sum Observations**	1572
Std Deviation	2.47597922	**Variance**	6.13047311
Skewness	0.08057048	**Kurtosis**	0.06673733
Uncorrected SS	30276	**Corrected SS**	502.698795
Coeff Variation	13.0729183	**Std Error Mean**	0.27177403

Basic Statistical Measures			
Location		**Variability**	
Mean	18.93976	**Std Deviation**	2.47598
Median	19.00000	**Variance**	6.13047
Mode	18.00000	**Range**	12.00000
		Interquartile Range	4.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	69.68936	**Pr > |t|**	<.0001
Sign	**M**	41.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1743	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.981448	**Pr < W**	0.2752
Kolmogorov-Smirnov	**D**	0.093644	**Pr > D**	0.0724
Cramer-von Mises	**W-Sq**	0.114706	**Pr > W-Sq**	0.0741
Anderson-Darling	**A-Sq**	0.626906	**Pr > A-Sq**	0.0993

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	25
99%	25
95%	23
90%	22
75% Q3	21
50% Median	19

The UNIVARIATE Procedure
Variable: CombinedMPG

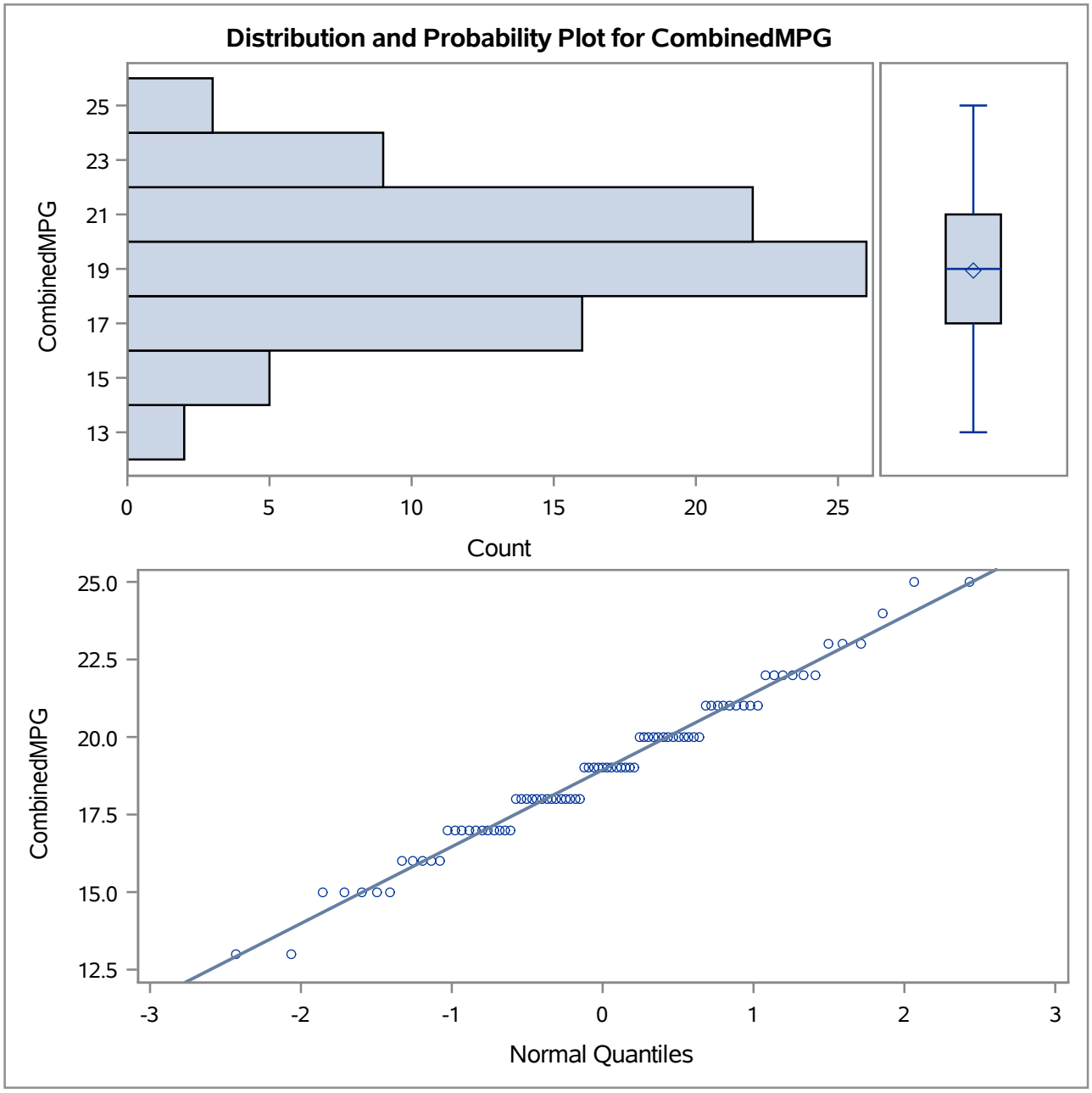
Class=Pick-up Tru

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	17
10%	16
5%	15
1%	13
0% Min	13

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
13	550	23	627
13	549	23	628
15	555	24	629
15	554	25	630
15	553	25	631

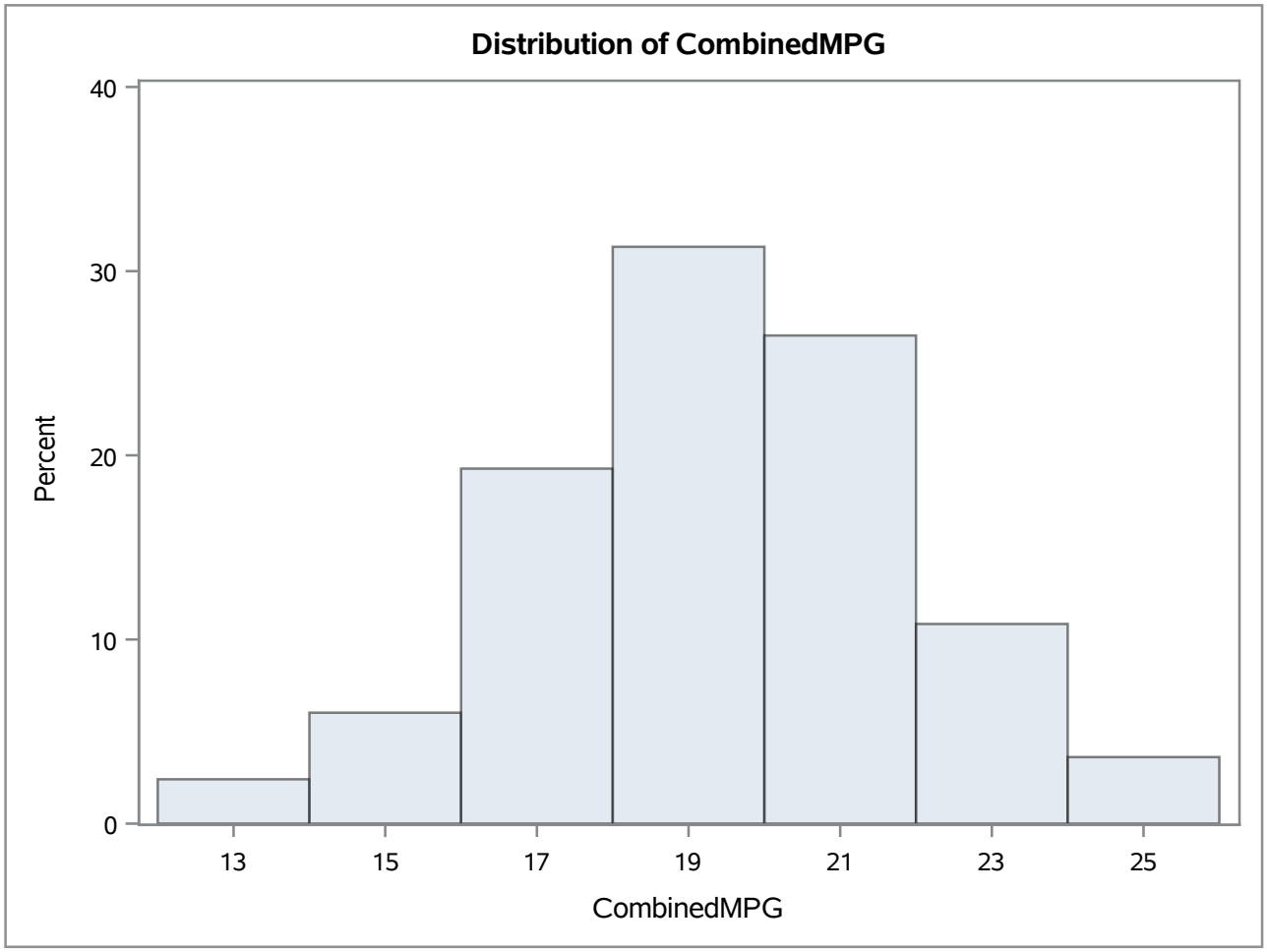
The UNIVARIATE Procedure

Class=Pick-up Tru



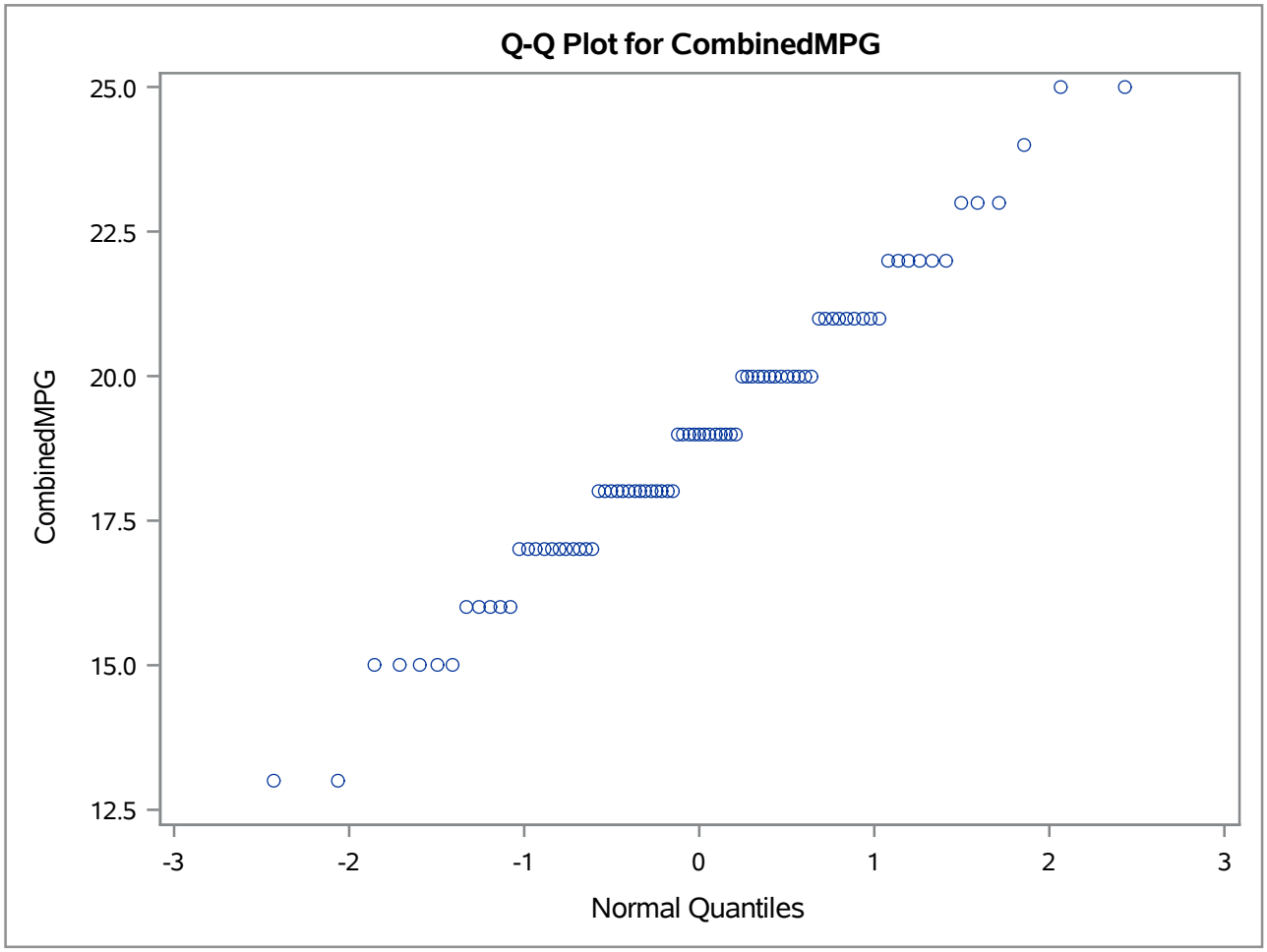
The UNIVARIATE Procedure

Class=Pick-up Tru



The UNIVARIATE Procedure

Class=Pick-up Tru



The UNIVARIATE Procedure
Variable: CombinedMPG

Class=SUV

Moments			
N	315	**Sum Weights**	315
Mean	21.8349206	**Sum Observations**	6878
Std Deviation	4.06296614	**Variance**	16.5076939
Skewness	0.19680672	**Kurtosis**	-0.4192727
Uncorrected SS	155364	**Corrected SS**	5183.41587
Coeff Variation	18.6076524	**Std Error Mean**	0.22892221

Basic Statistical Measures			
Location		**Variability**	
Mean	21.83492	**Std Deviation**	4.06297
Median	22.00000	**Variance**	16.50769
Mode	18.00000	**Range**	21.00000
		Interquartile Range	7.00000

Note: The mode displayed is the smallest of 2 modes with a count of 33.

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	95.3814	**Pr > |t|**	<.0001
Sign	**M**	157.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24885	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.985941	**Pr < W**	0.0036
Kolmogorov-Smirnov	**D**	0.087491	**Pr > D**	<0.0100
Cramer-von Mises	**W-Sq**	0.265767	**Pr > W-Sq**	<0.0050
Anderson-Darling	**A-Sq**	1.594094	**Pr > A-Sq**	<0.0050

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33
99%	31
95%	29
90%	27
75% Q3	25

The UNIVARIATE Procedure
Variable: CombinedMPG

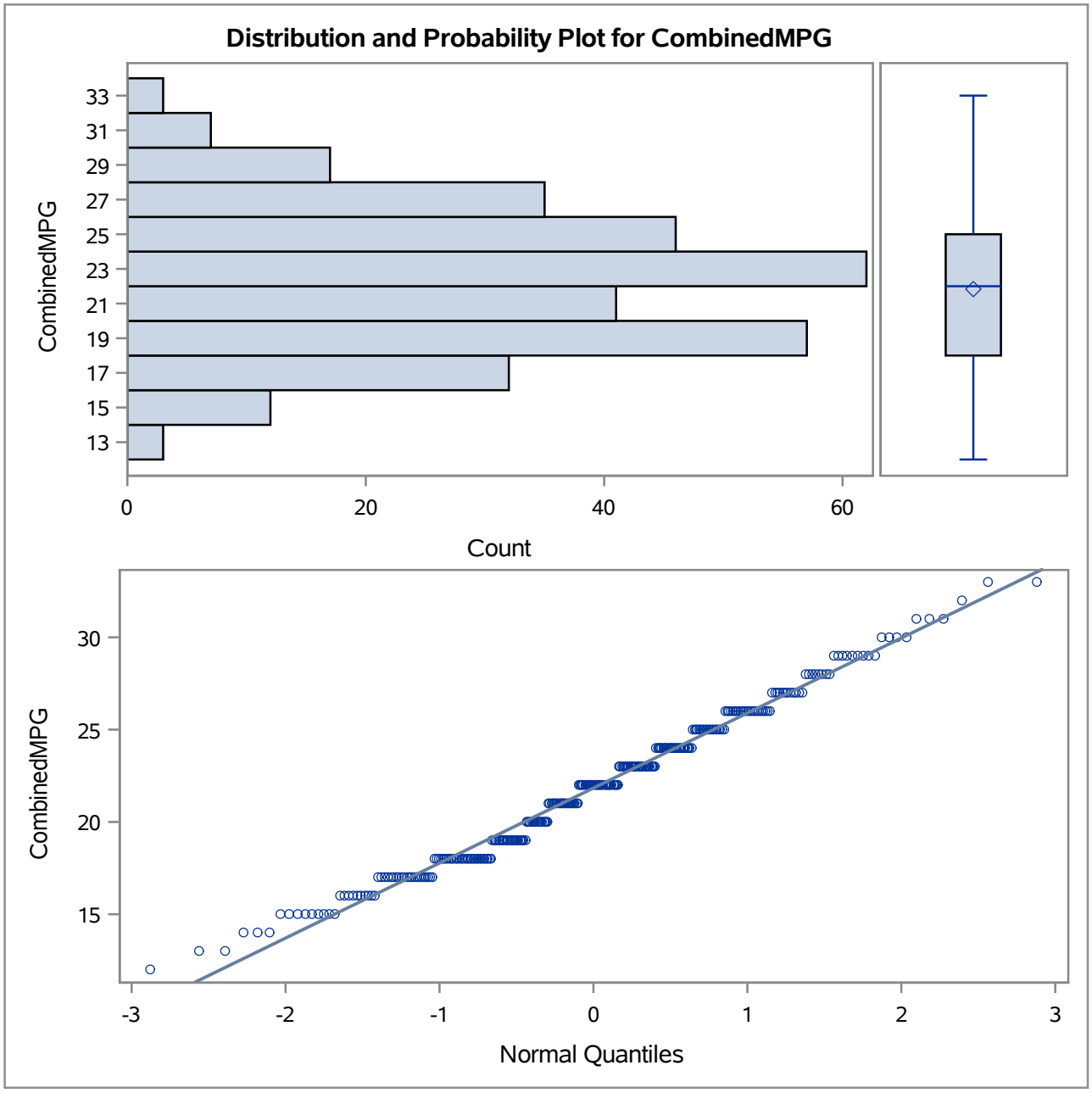
Class=SUV

Quantiles (Definition 5)	
Level	**Quantile**
50% Median	22
25% Q1	18
10%	17
5%	16
1%	14
0% Min	12

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
12	632	31	942
13	634	31	943
13	633	32	944
14	637	33	945
14	636	33	946

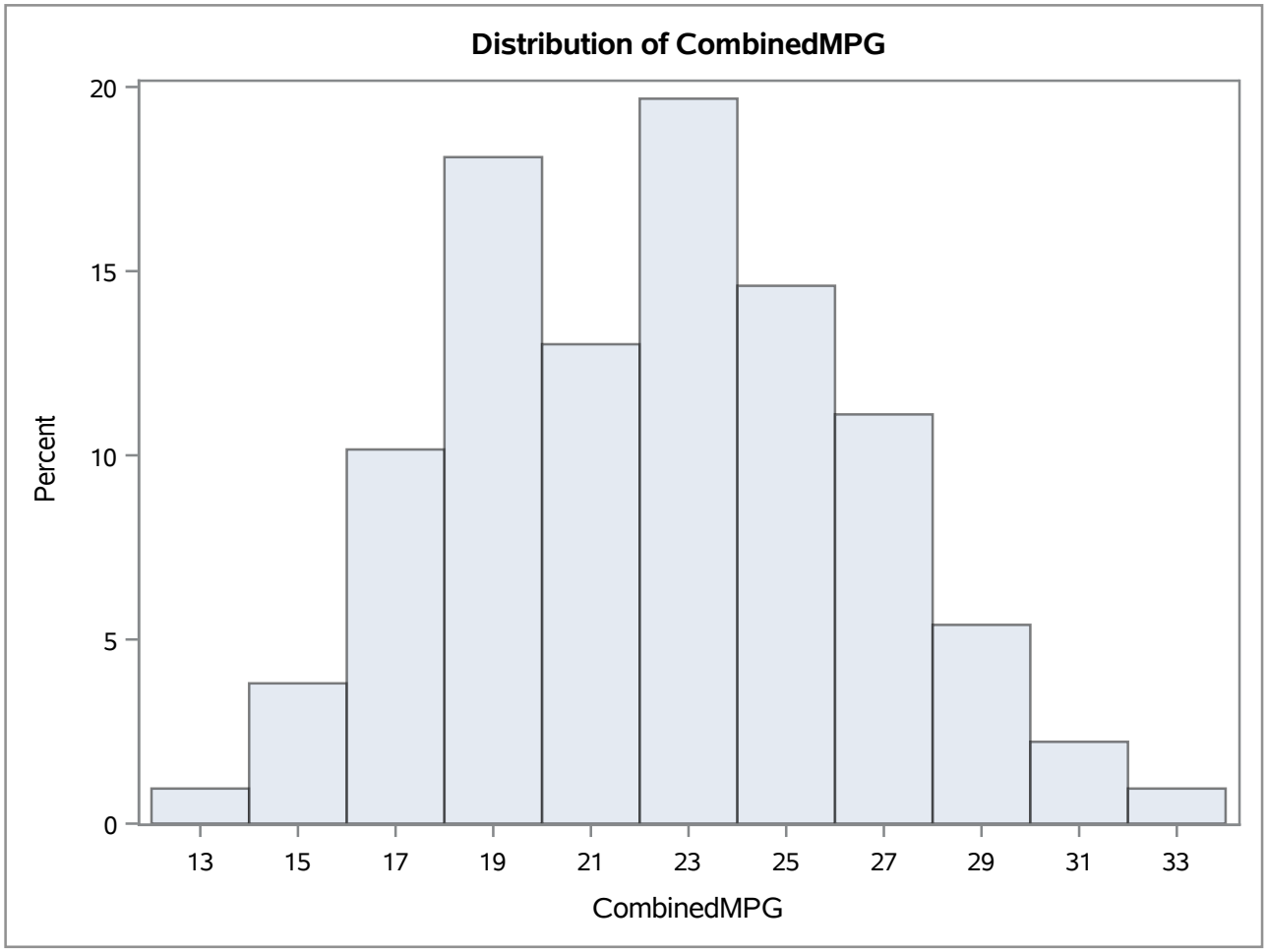
The UNIVARIATE Procedure

Class=SUV



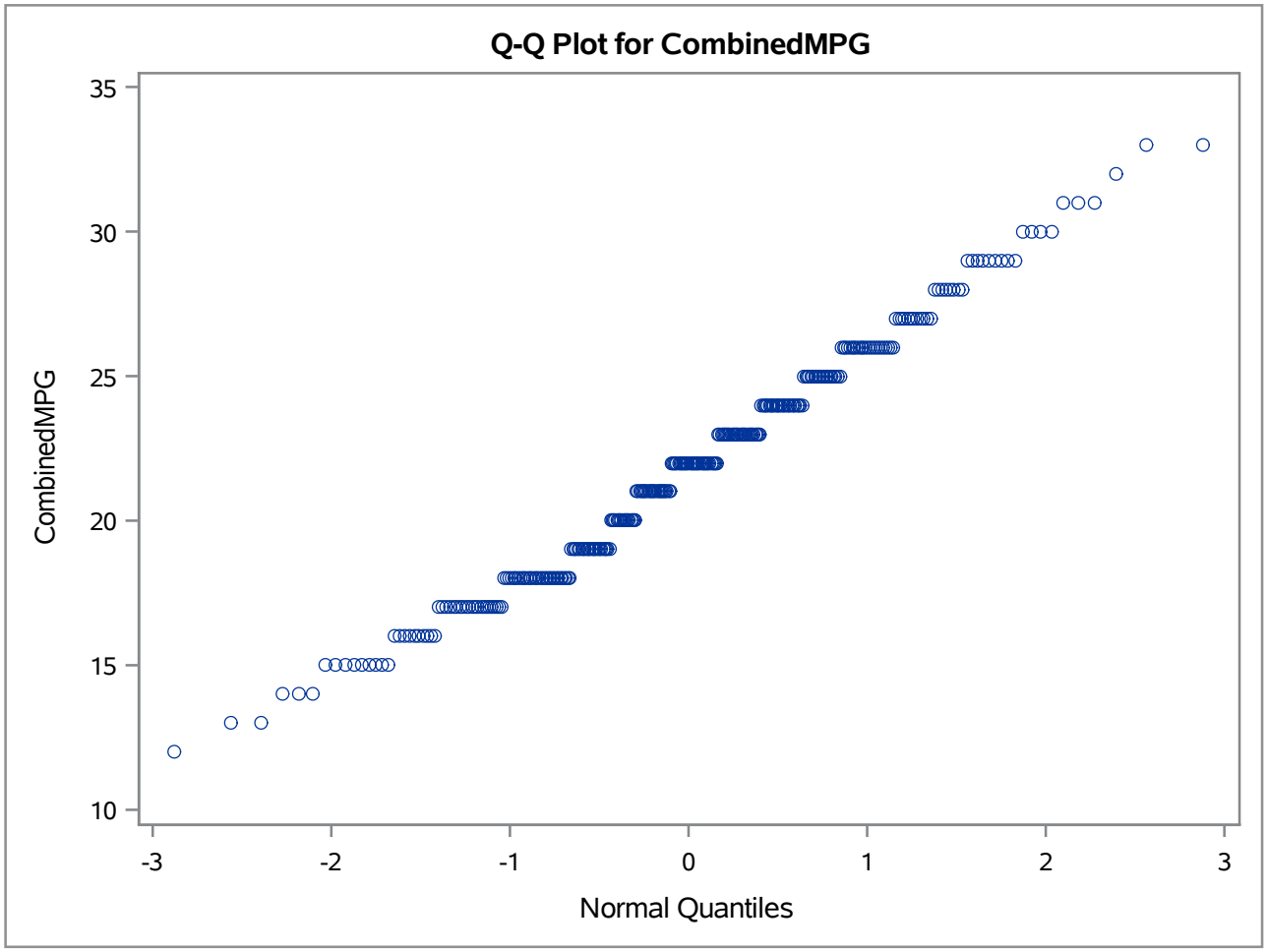
The UNIVARIATE Procedure

Class=SUV



The UNIVARIATE Procedure

Class=SUV



The UNIVARIATE Procedure
Variable: CombinedMPG

Class=Special Pur

Moments			
N	35	**Sum Weights**	35
Mean	20.6857143	**Sum Observations**	724
Std Deviation	2.79465276	**Variance**	7.81008403
Skewness	-0.1279766	**Kurtosis**	-1.0548557
Uncorrected SS	15242	**Corrected SS**	265.542857
Coeff Variation	13.5100617	**Std Error Mean**	0.47238253

Basic Statistical Measures			
Location		**Variability**	
Mean	20.68571	**Std Deviation**	2.79465
Median	21.00000	**Variance**	7.81008
Mode	22.00000	**Range**	9.00000
		Interquartile Range	5.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	43.79018	**Pr > |t|**	<.0001
Sign	**M**	17.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	315	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.934619	**Pr < W**	0.0385
Kolmogorov-Smirnov	**D**	0.138067	**Pr > D**	0.0893
Cramer-von Mises	**W-Sq**	0.09667	**Pr > W-Sq**	0.1229
Anderson-Darling	**A-Sq**	0.699352	**Pr > A-Sq**	0.0650

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	25
99%	25
95%	25
90%	25
75% Q3	23
50% Median	21

The UNIVARIATE Procedure
Variable: CombinedMPG

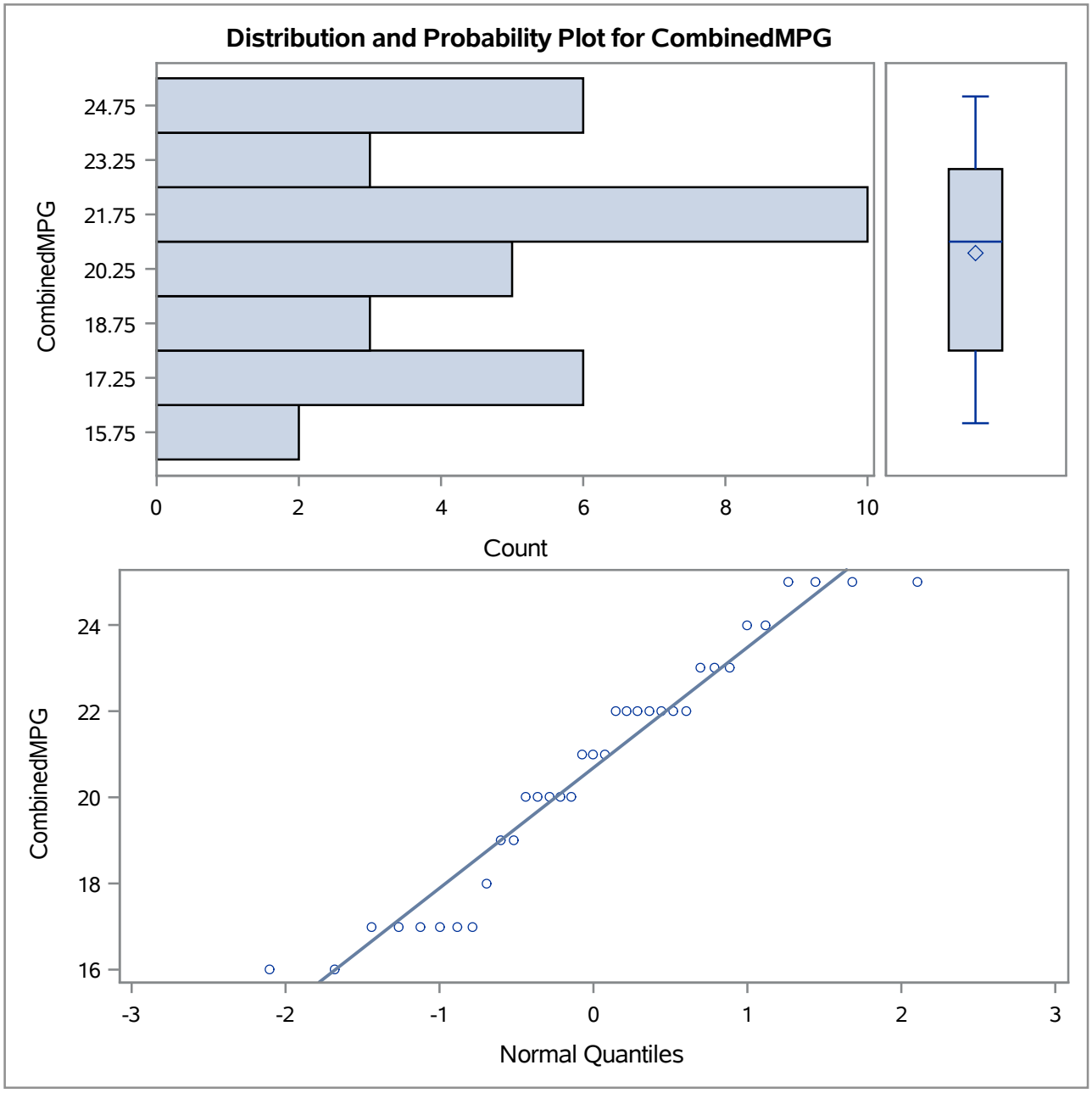
Class=Special Pur

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	18
10%	17
5%	16
1%	16
0% Min	16

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
16	948	24	977
16	947	25	978
17	954	25	979
17	953	25	980
17	952	25	981

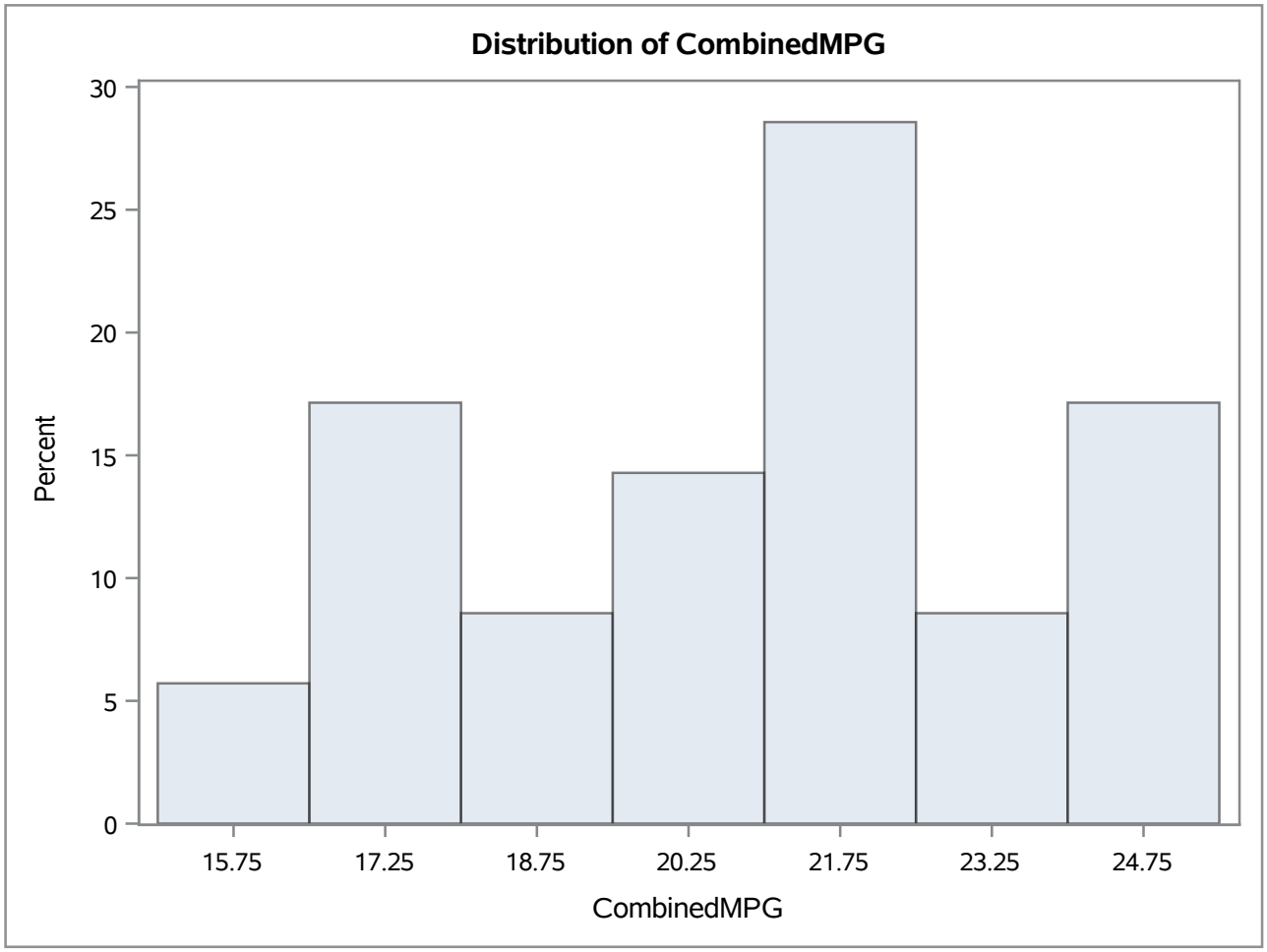
The UNIVARIATE Procedure

Class=Special Pur



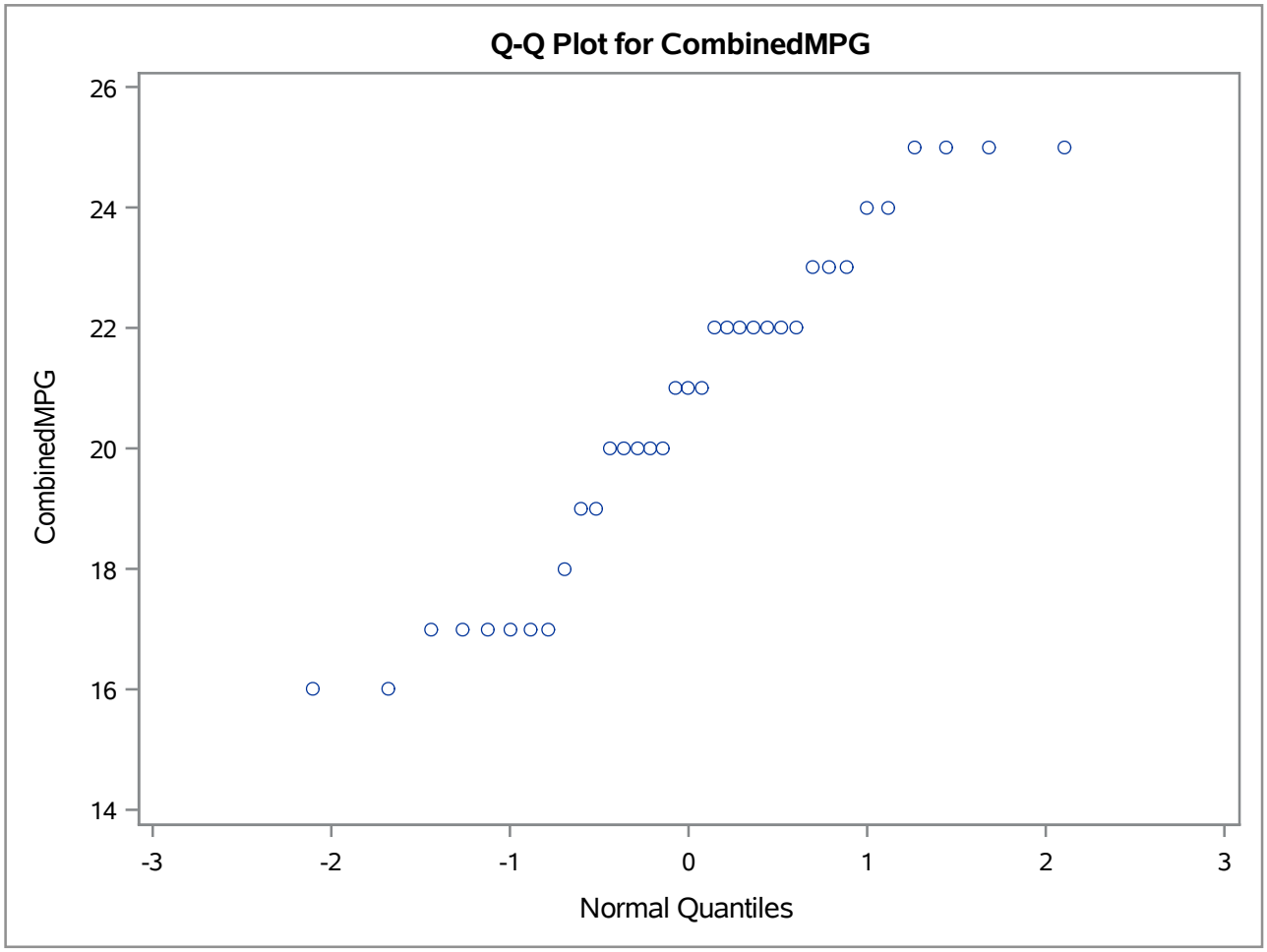
The UNIVARIATE Procedure

Class=Special Pur



The UNIVARIATE Procedure

Class=Special Pur



The UNIVARIATE Procedure
Variable: CombinedMPG

Class=Station Wag

Moments			
N	44	**Sum Weights**	44
Mean	27.4772727	**Sum Observations**	1209
Std Deviation	4.62796674	**Variance**	21.4180761
Skewness	0.51309758	**Kurtosis**	1.25787732
Uncorrected SS	34141	**Corrected SS**	920.977273
Coeff Variation	16.8428897	**Std Error Mean**	0.69769224

Basic Statistical Measures			
Location		**Variability**	
Mean	27.47727	**Std Deviation**	4.62797
Median	28.00000	**Variance**	21.41808
Mode	28.00000	**Range**	24.00000
		Interquartile Range	5.50000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	39.38309	**Pr > |t|**	<.0001
Sign	**M**	22	**Pr >= |M|**	<.0001
Signed Rank	**S**	495	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.972265	**Pr < W**	0.3629
Kolmogorov-Smirnov	**D**	0.09834	**Pr > D**	>0.1500
Cramer-von Mises	**W-Sq**	0.05808	**Pr > W-Sq**	>0.2500
Anderson-Darling	**A-Sq**	0.352625	**Pr > A-Sq**	>0.2500

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	42.0
99%	42.0
95%	35.0
90%	33.0
75% Q3	30.0
50% Median	28.0

The UNIVARIATE Procedure
Variable: CombinedMPG

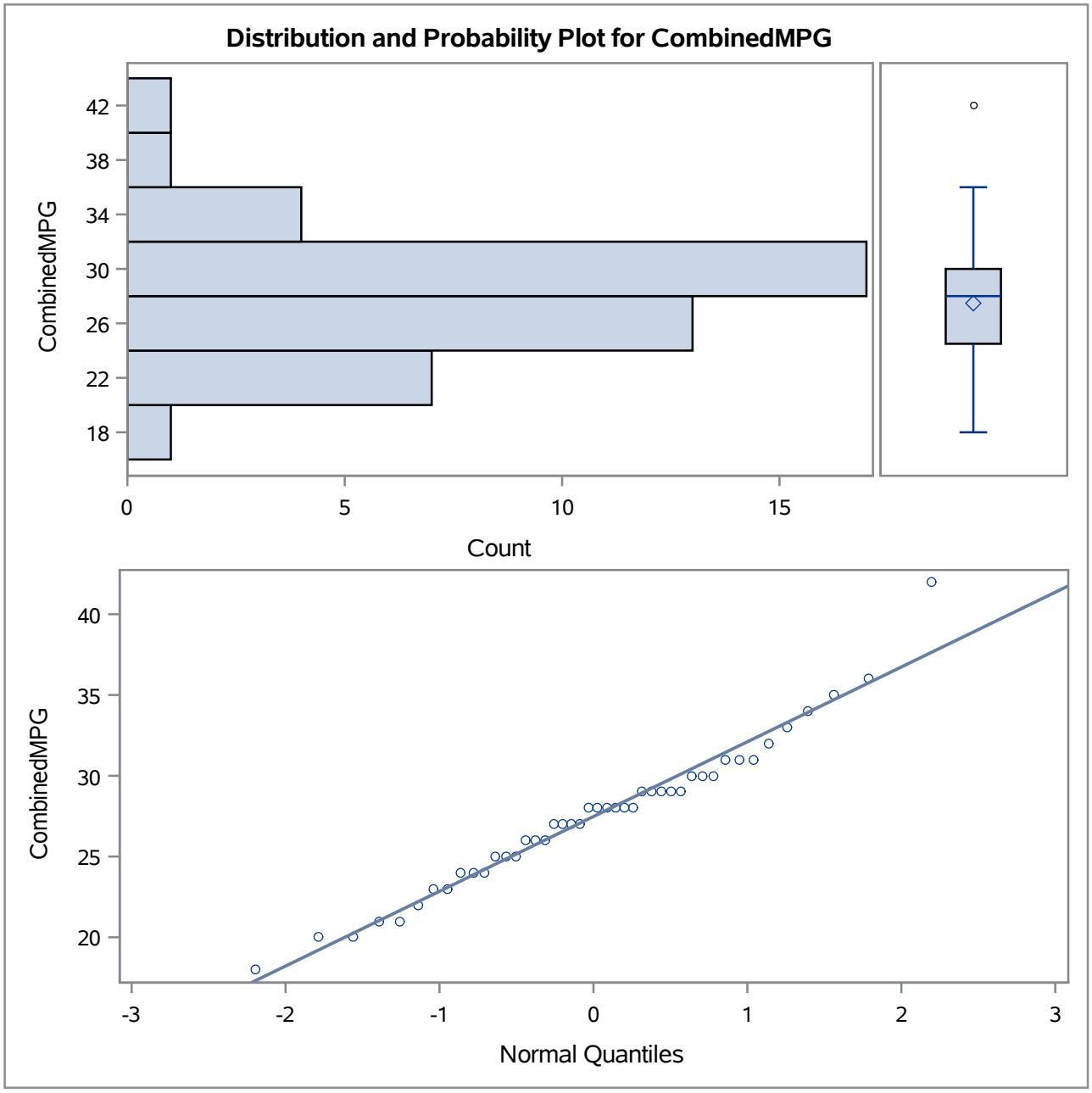
Class=Station Wag

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	24.5
10%	21.0
5%	20.0
1%	18.0
0% Min	18.0

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
18	982	33	1021
20	984	34	1022
20	983	35	1023
21	986	36	1024
21	985	42	1025

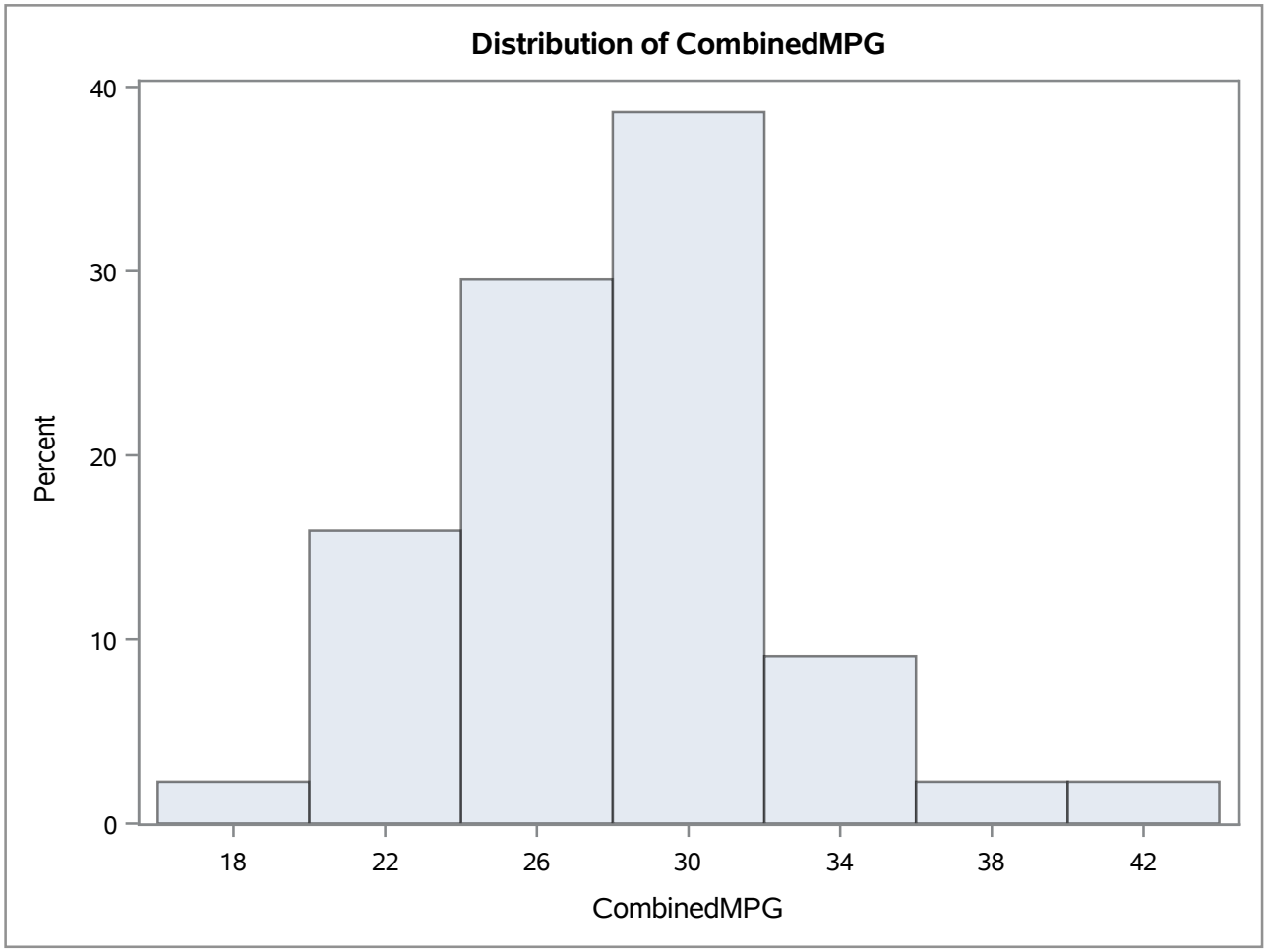
The UNIVARIATE Procedure

Class=Station Wag



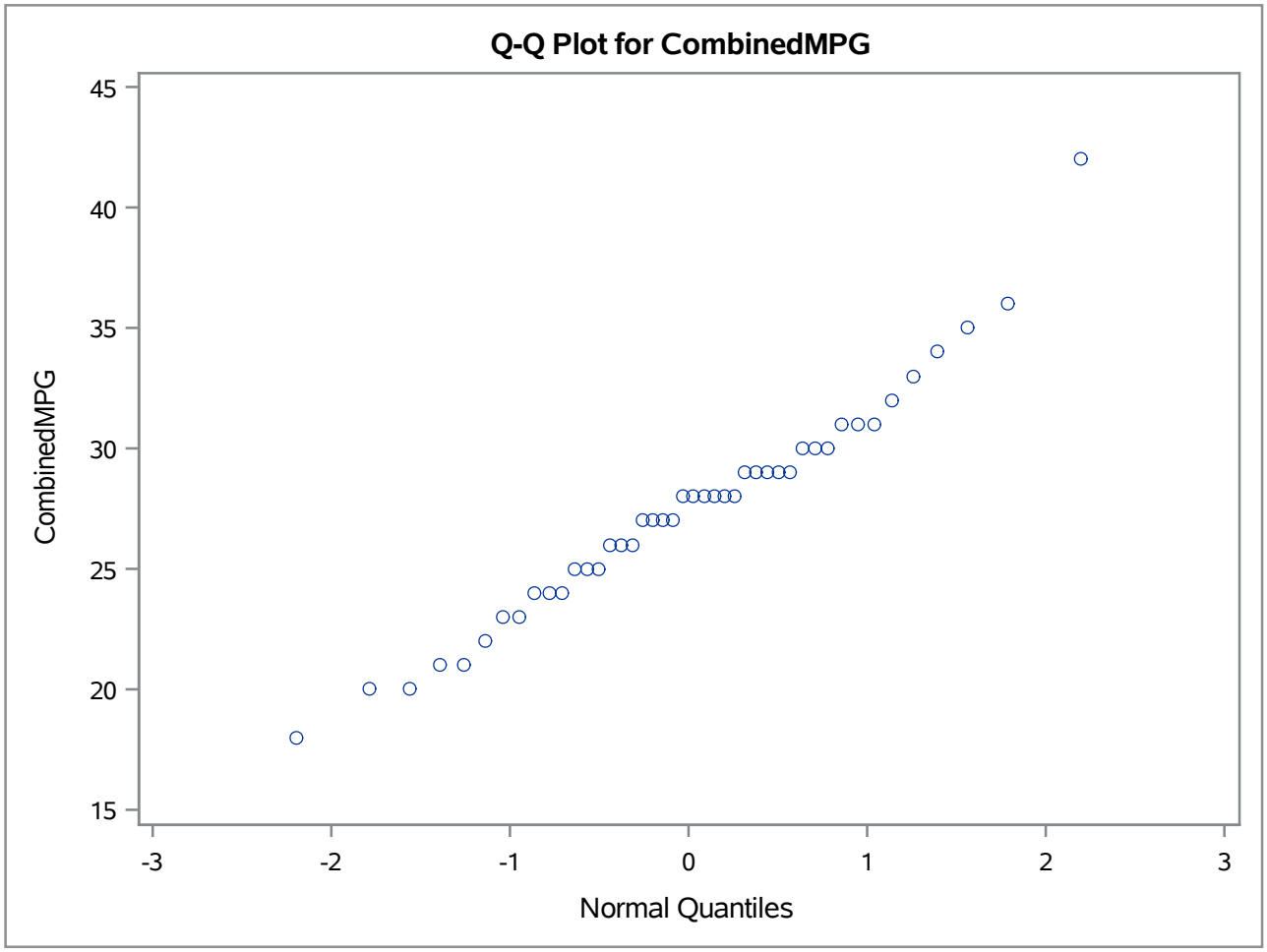
The UNIVARIATE Procedure

Class=Station Wag



The UNIVARIATE Procedure

Class=Station Wag



The UNIVARIATE Procedure
Variable: CombinedMPG

Class=Subcompact

Moments			
N	95	**Sum Weights**	95
Mean	23.6947368	**Sum Observations**	2251
Std Deviation	5.03619597	**Variance**	25.3632699
Skewness	0.44639835	**Kurtosis**	-0.0388161
Uncorrected SS	55721	**Corrected SS**	2384.14737
Coeff Variation	21.2544921	**Std Error Mean**	0.5167028

Basic Statistical Measures			
Location		**Variability**	
Mean	23.69474	**Std Deviation**	5.03620
Median	24.00000	**Variance**	25.36327
Mode	26.00000	**Range**	22.00000
		Interquartile Range	7.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	45.85757	**Pr > |t|**	<.0001
Sign	**M**	47.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2280	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.969128	**Pr < W**	0.0241
Kolmogorov-Smirnov	**D**	0.087394	**Pr > D**	0.0740
Cramer-von Mises	**W-Sq**	0.085686	**Pr > W-Sq**	0.1786
Anderson-Darling	**A-Sq**	0.675235	**Pr > A-Sq**	0.0794

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	37
99%	37
95%	34
90%	31
75% Q3	27
50% Median	24

The UNIVARIATE Procedure
Variable: CombinedMPG

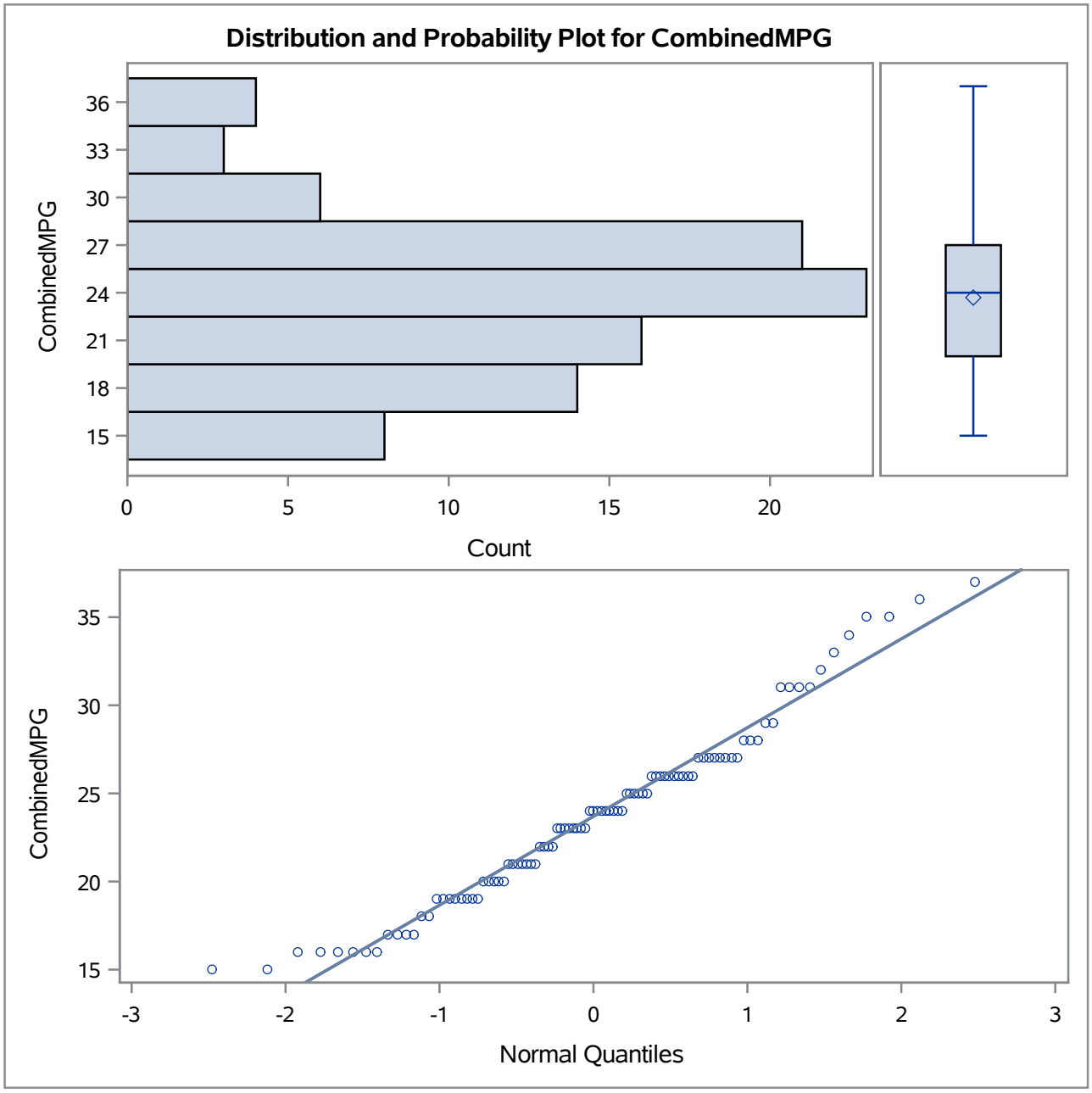
Class=Subcompact

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	20
10%	17
5%	16
1%	15
0% Min	15

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
15	1027	34	1116
15	1026	35	1117
16	1033	35	1118
16	1032	36	1119
16	1031	37	1120

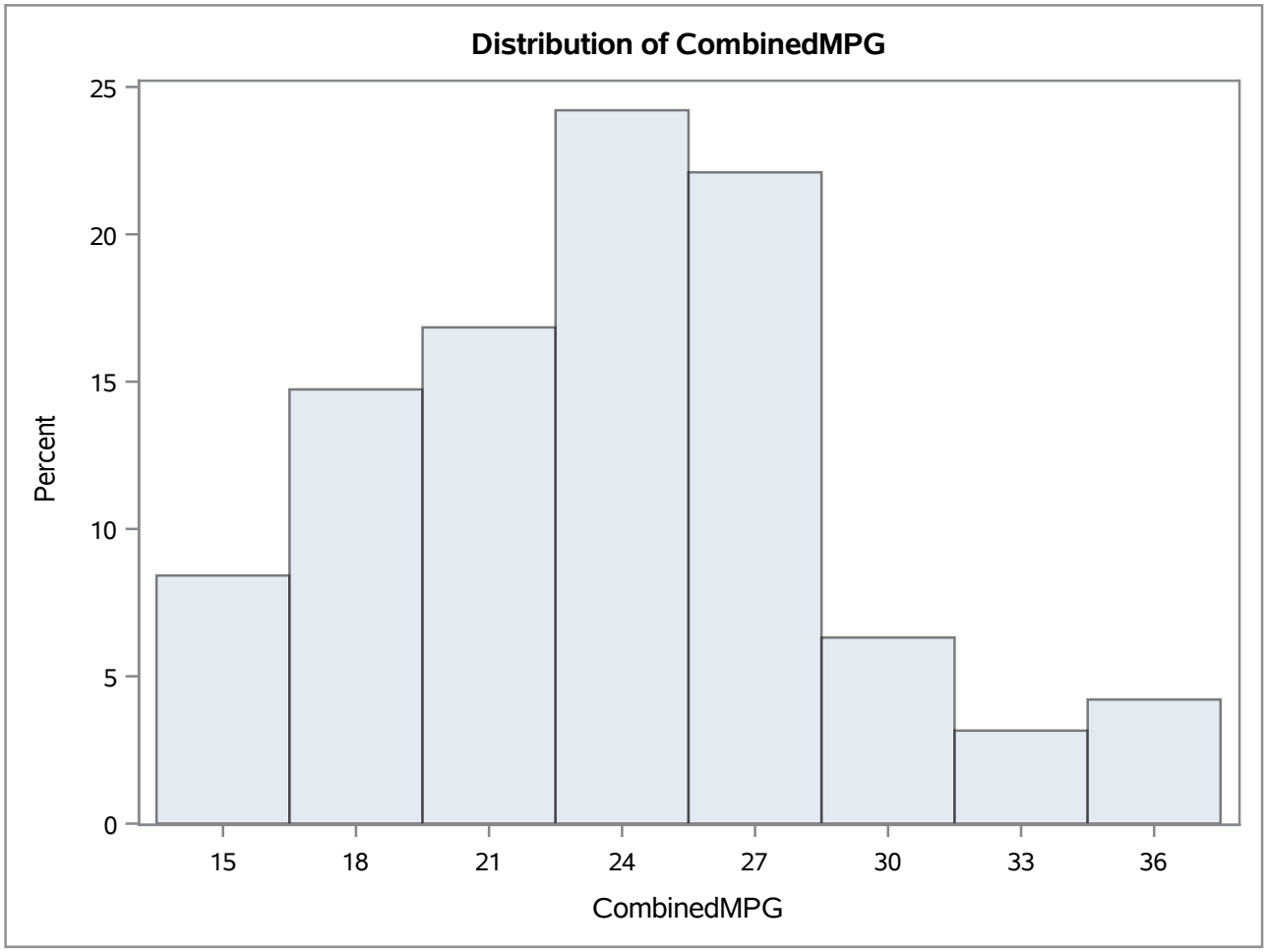
The UNIVARIATE Procedure

Class=Subcompact



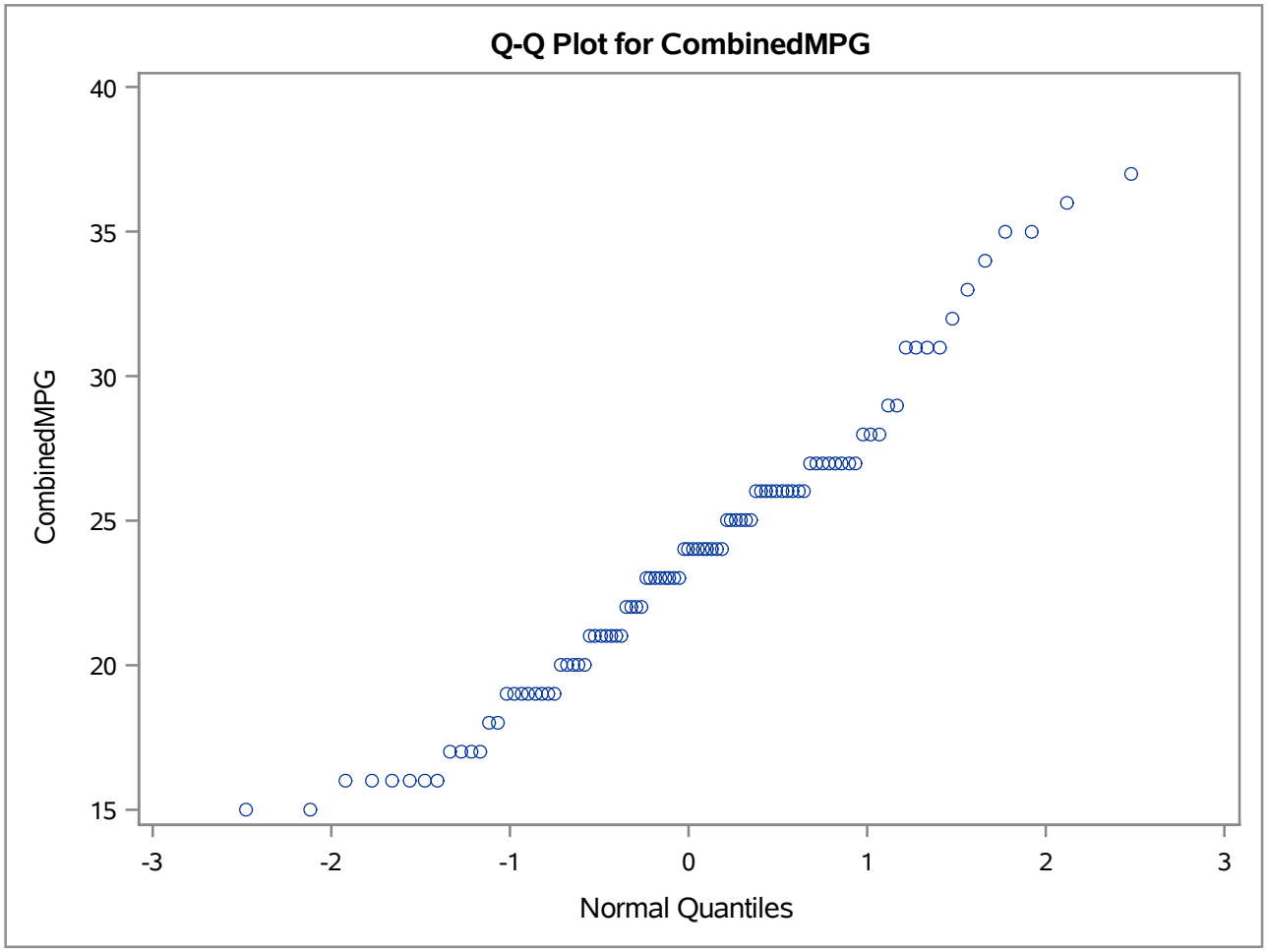
The UNIVARIATE Procedure

Class=Subcompact



The UNIVARIATE Procedure

Class=Subcompact



The UNIVARIATE Procedure
Variable: CombinedMPG

Class=Two Seaters

Moments			
N	85	**Sum Weights**	85
Mean	20.3411765	**Sum Observations**	1729
Std Deviation	5.39742651	**Variance**	29.1322129
Skewness	0.98570581	**Kurtosis**	1.21986435
Uncorrected SS	37617	**Corrected SS**	2447.10588
Coeff Variation	26.5344854	**Std Error Mean**	0.5854331

Basic Statistical Measures			
Location		**Variability**	
Mean	20.34118	**Std Deviation**	5.39743
Median	19.00000	**Variance**	29.13221
Mode	18.00000	**Range**	25.00000
		Interquartile Range	6.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	34.74552	**Pr > |t|**	<.0001
Sign	**M**	42.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1827.5	**Pr >= |S|**	<.0001

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.931749	**Pr < W**	0.0002
Kolmogorov-Smirnov	**D**	0.108706	**Pr > D**	0.0145
Cramer-von Mises	**W-Sq**	0.209359	**Pr > W-Sq**	<0.0050
Anderson-Darling	**A-Sq**	1.387904	**Pr > A-Sq**	<0.0050

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	37
99%	37
95%	30
90%	26
75% Q3	23
50% Median	19

The UNIVARIATE Procedure
Variable: CombinedMPG

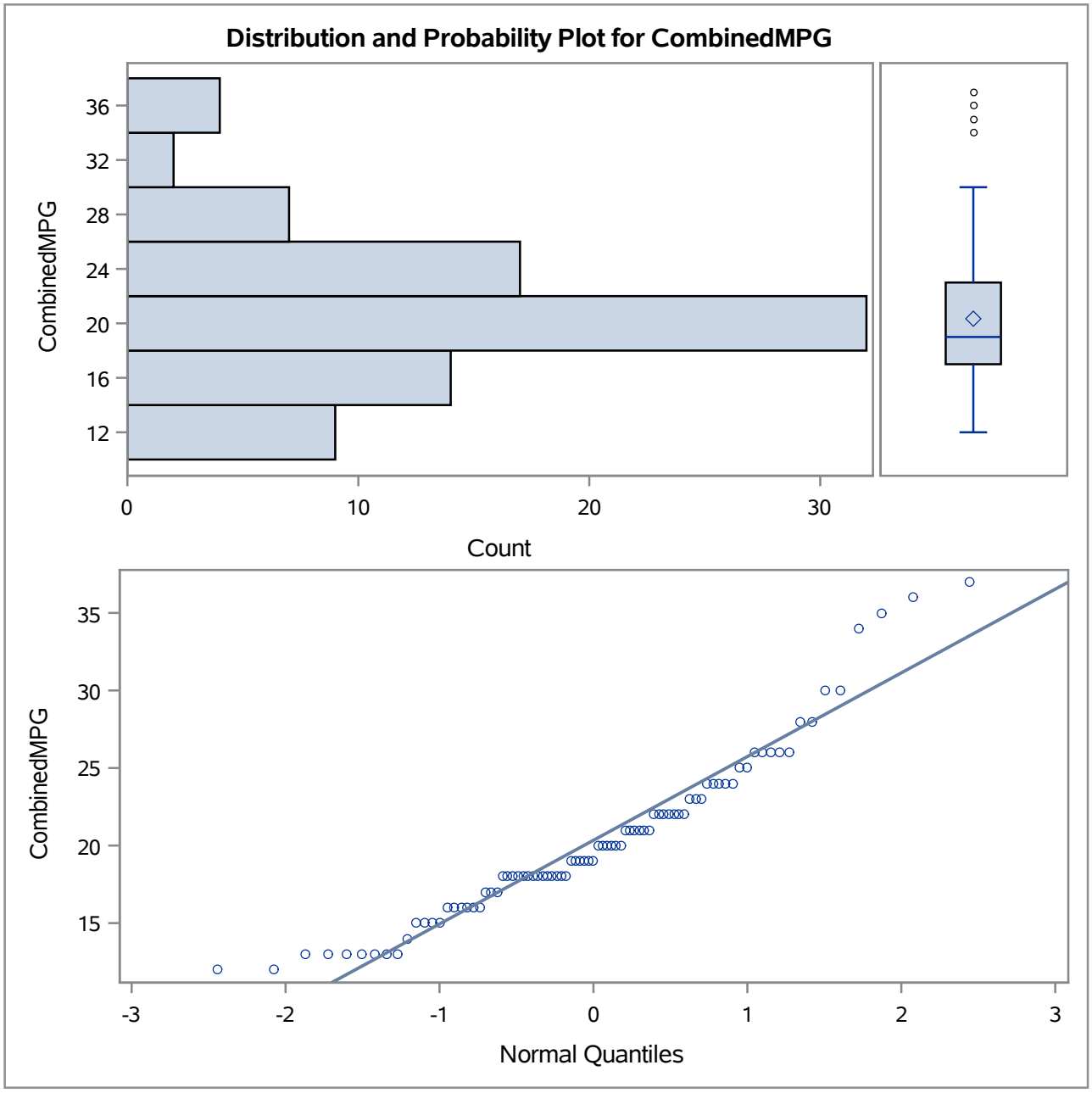
Class=Two Seaters

Quantiles (Definition 5)	
Level	**Quantile**
25% Q1	17
10%	13
5%	13
1%	12
0% Min	12

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
12	1122	30	1201
12	1121	34	1202
13	1129	35	1203
13	1128	36	1204
13	1127	37	1205

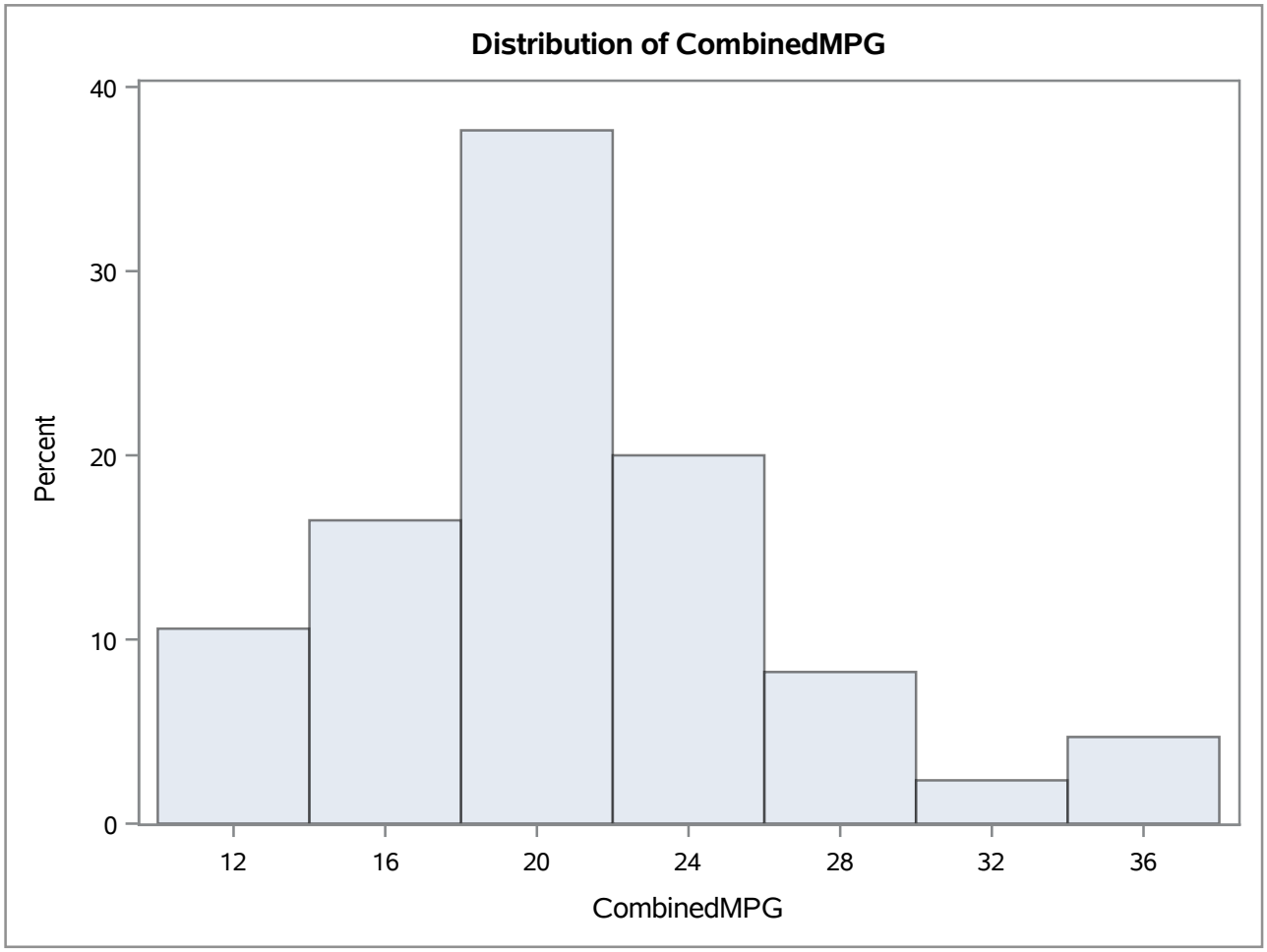
The UNIVARIATE Procedure

Class=Two Seaters



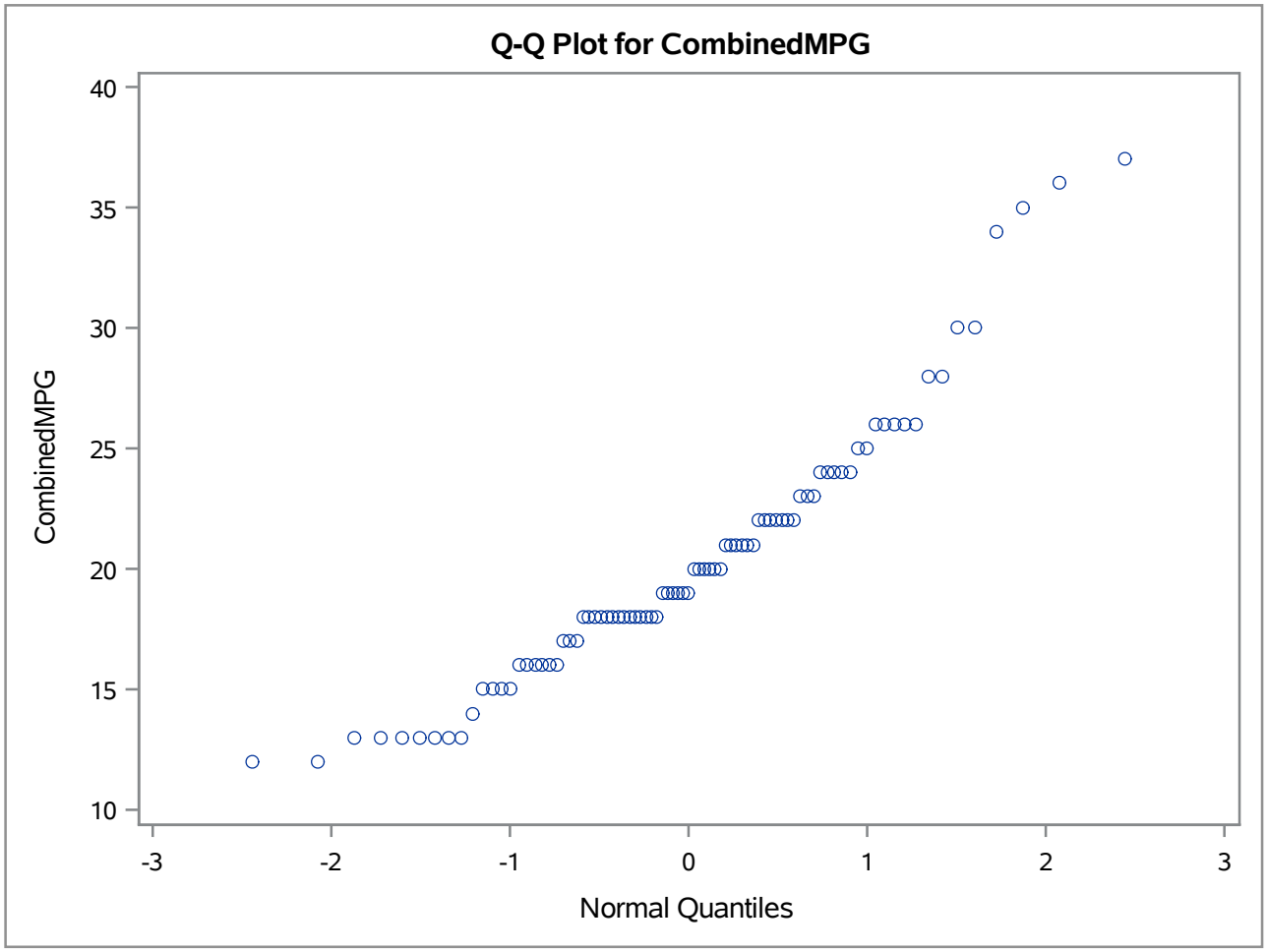
The UNIVARIATE Procedure

Class=Two Seaters



The UNIVARIATE Procedure

Class=Two Seaters



The UNIVARIATE Procedure
Variable: CombinedMPG

Class=Vans, Passe

Moments			
N	6	**Sum Weights**	6
Mean	13.6666667	**Sum Observations**	82
Std Deviation	1.86189867	**Variance**	3.46666667
Skewness	0.72300059	**Kurtosis**	-1.875
Uncorrected SS	1138	**Corrected SS**	17.3333333
Coeff Variation	13.6236488	**Std Error Mean**	0.76011695

Basic Statistical Measures			
Location		**Variability**	
Mean	13.66667	**Std Deviation**	1.86190
Median	13.00000	**Variance**	3.46667
Mode	12.00000	**Range**	4.00000
		Interquartile Range	4.00000

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.97969	**Pr > |t|**	<.0001
Sign	**M**	3	**Pr >= |M|**	0.0313
Signed Rank	**S**	10.5	**Pr >= |S|**	0.0313

Tests for Normality				
Test	**Statistic**		**p Value**	
Shapiro-Wilk	**W**	0.787561	**Pr < W**	0.0453
Kolmogorov-Smirnov	**D**	0.306517	**Pr > D**	0.0769
Cramer-von Mises	**W-Sq**	0.102959	**Pr > W-Sq**	0.0829
Anderson-Darling	**A-Sq**	0.614638	**Pr > A-Sq**	0.0591

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16
99%	16
95%	16
90%	16
75% Q3	16

The UNIVARIATE Procedure
Variable: CombinedMPG

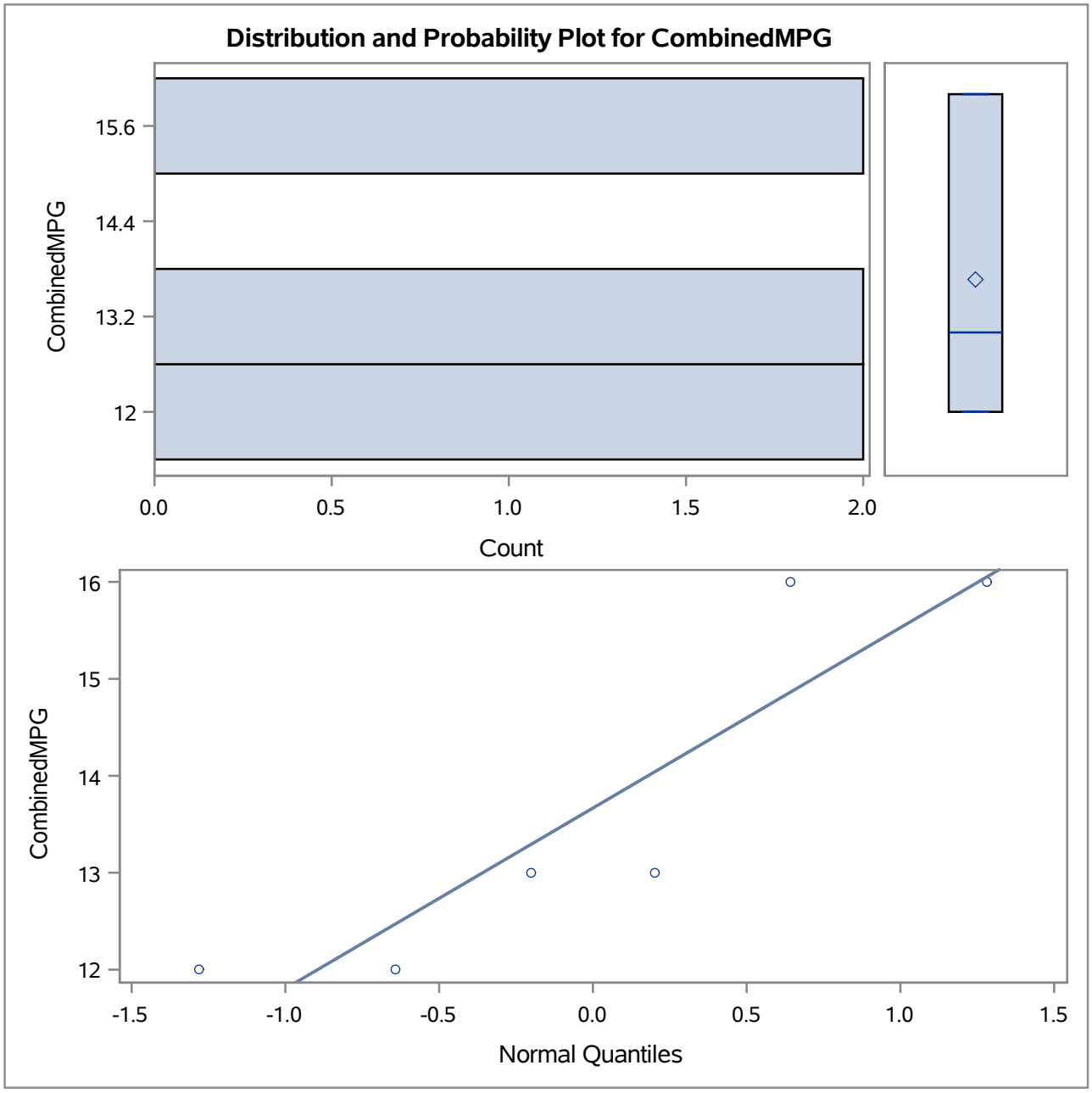
Class=Vans, Passe

Quantiles (Definition 5)	
Level	**Quantile**
50% Median	13
25% Q1	12
10%	12
5%	12
1%	12
0% Min	12

Extreme Observations			
Lowest		**Highest**	
Value	**Obs**	**Value**	**Obs**
12	1207	12	1207
12	1206	13	1208
13	1209	13	1209
13	1208	16	1210
16	1211	16	1211

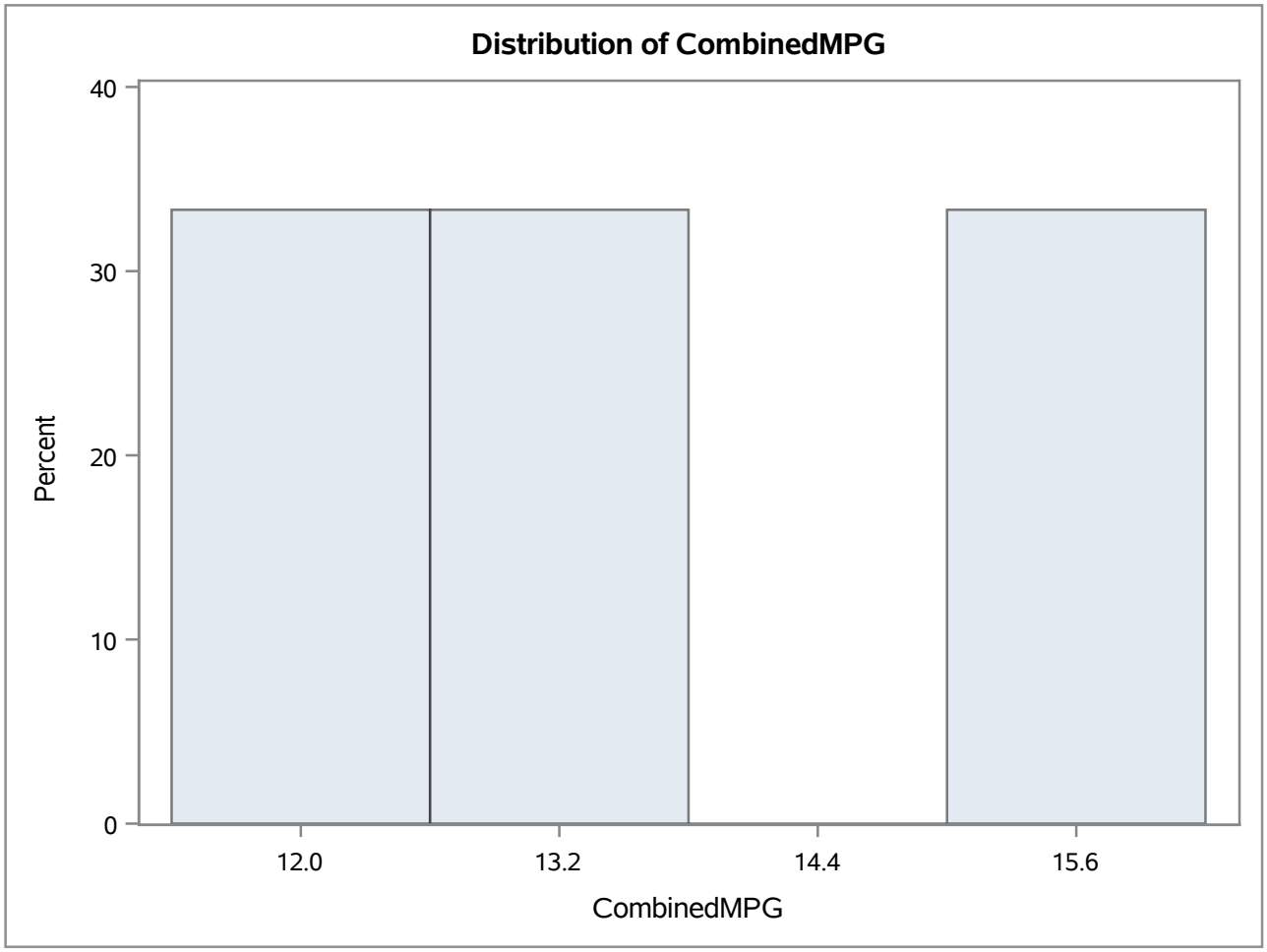
The UNIVARIATE Procedure

Class=Vans, Passe



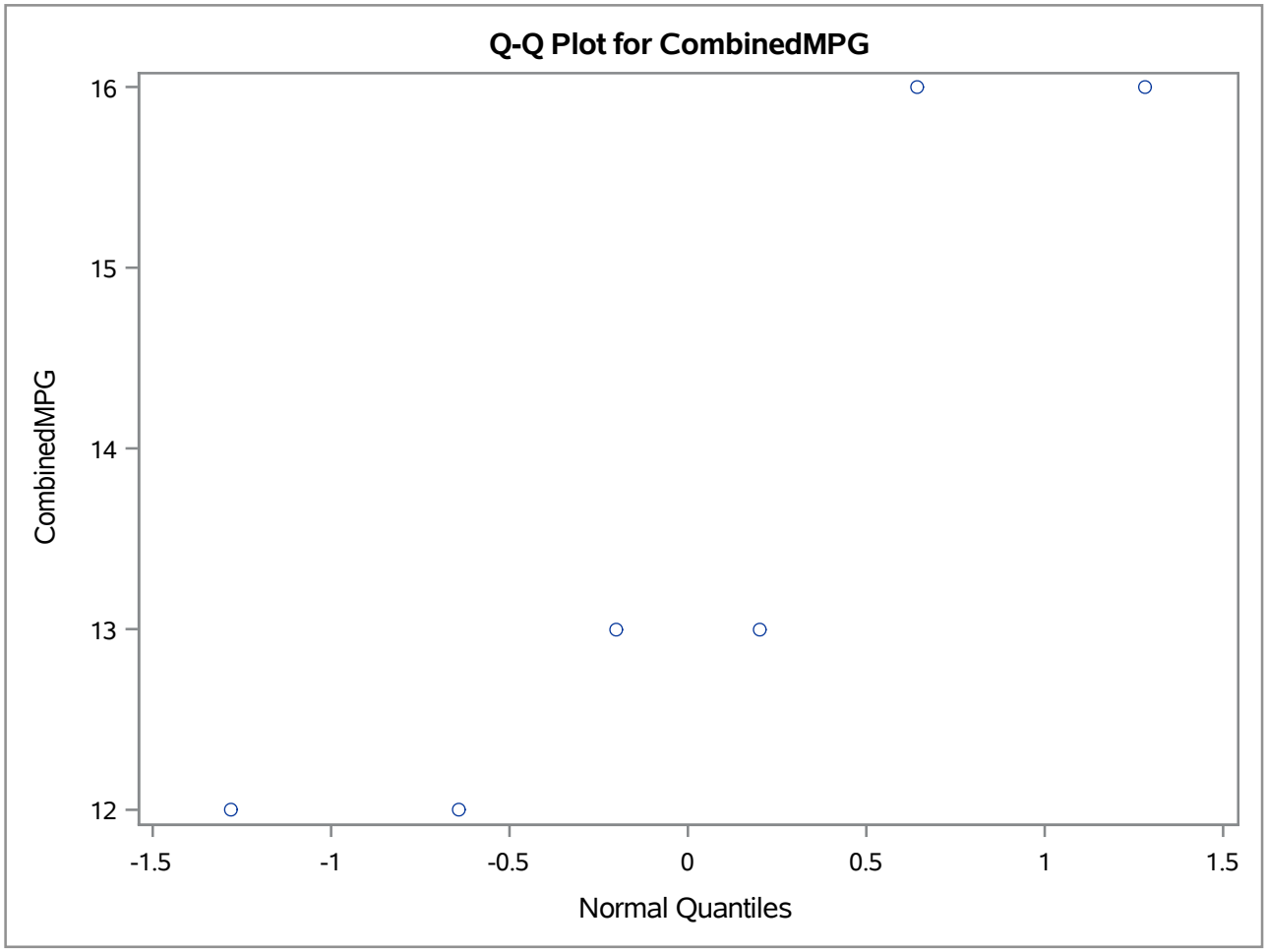
The UNIVARIATE Procedure

Class=Vans, Passe



The UNIVARIATE Procedure

Class=Vans, Passe



The UNIVARIATE Procedure