

Descriptive Statistics for Bumblebee Bat Weights

The MEANS Procedure

Analysis Variable : weight

N	Mean	Std Dev	Std Error	t Value	Pr > t
15	1.6466667	0.2531704	0.0653683	25.19	<.0001

Normality Analysis of Bumblebee Bat Weights

The UNIVARIATE Procedure

Variable: weight

Moments

N	15	Sum Weights	15
Mean	1.6466667	Sum Observations	24.7
Std Deviation	0.25317037	Variance	0.06409524
Skewness	1.09630411	Kurtosis	2.72573796
Uncorrected SS	41.57	Corrected SS	0.89733333
Coeff Variation	15.374719	Std Error Mean	0.06536831

Basic Statistical Measures

Location		Variability	
Mean	1.646667	Std Deviation	0.25317
Median	1.600000	Variance	0.06410
Mode	1.600000	Range	1.10000
		Interquartile Range	0.20000

Tests for Location: Mu0=0

Test	Statistic	p Value	
Student's t	t 25.1906	Pr > t	<.0001
Sign	M 7.5	Pr >= M	<.0001
Signed Rank	S 60	Pr >= S	<.0001

Tests for Normality

Test	Statistic	p Value	
Shapiro-Wilk	W 0.884372	Pr < W	0.0552
Kolmogorov-Smirnov	D 0.239789	Pr > D	0.0205
Cramer-von Mises	W-Sq 0.17198	Pr > W-Sq	0.0101

Tests for Normality

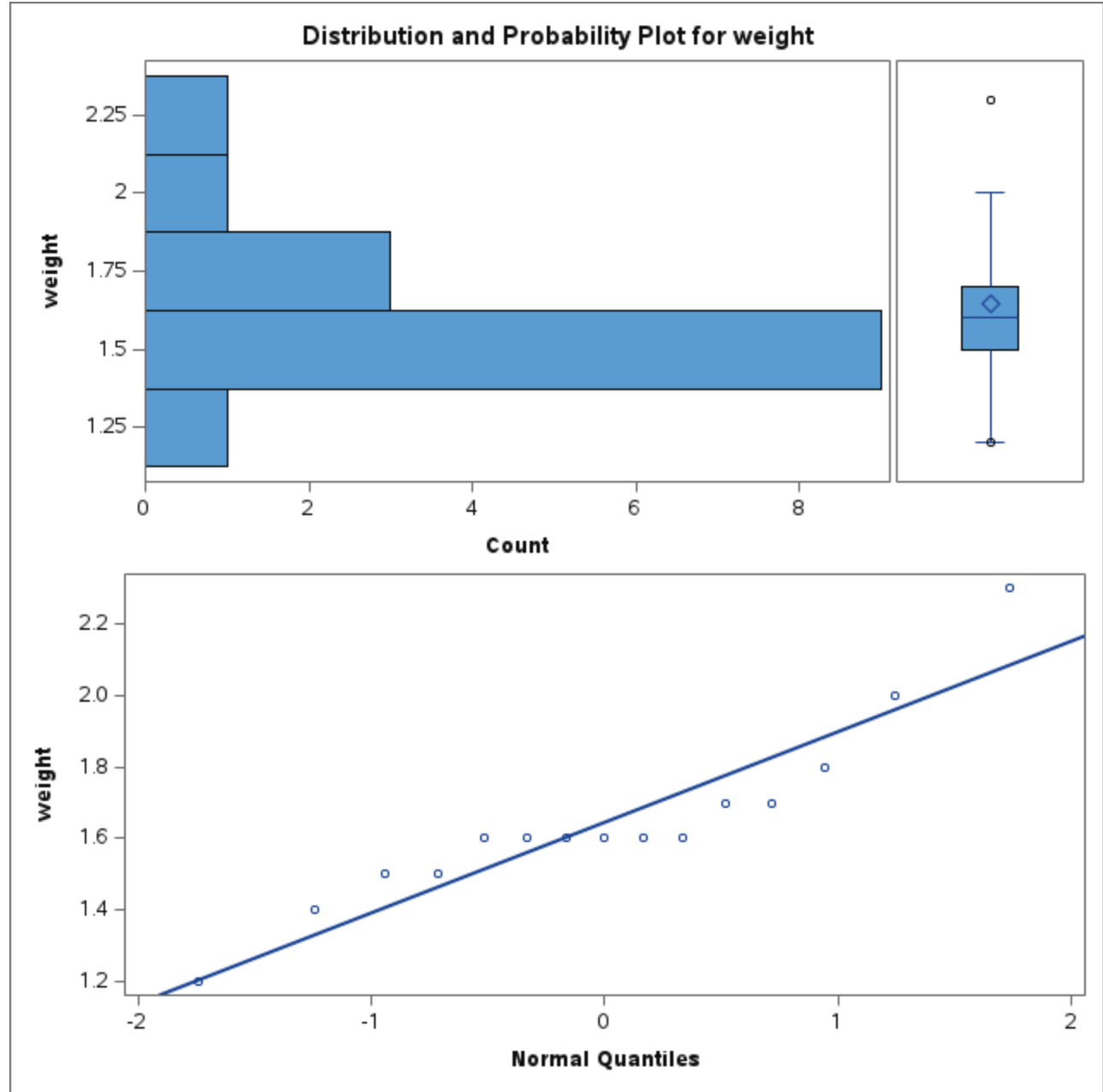
Test	Statistic		p Value	
Anderson-Darling	A-Sq	0.875499	Pr > A-Sq	0.0199

Quantiles (Definition 5)

Level	Quantile
100% Max	2.3
99%	2.3
95%	2.3
90%	2.0
75% Q3	1.7
50% Median	1.6
25% Q1	1.5
10%	1.4
5%	1.2
1%	1.2
0% Min	1.2

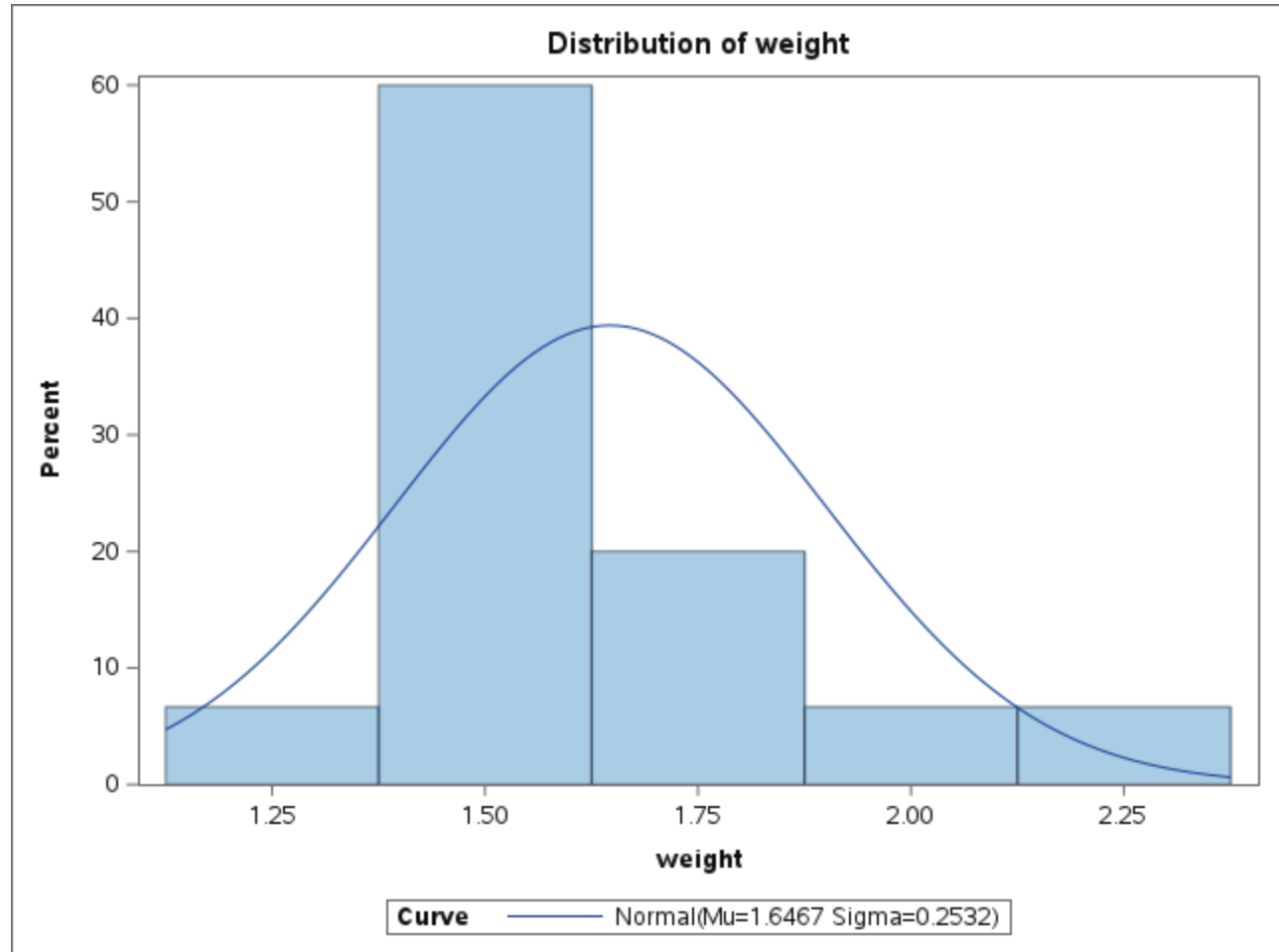
Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
1.2	11	1.7	1
1.4	12	1.7	10
1.5	9	1.8	8
1.5	3	2.0	4
1.6	15	2.3	5



Normality Analysis of Bumblebee Bat Weights

The UNIVARIATE Procedure



Normality Analysis of Bumblebee Bat Weights

The UNIVARIATE Procedure Fitted Normal Distribution for weight

Parameters for Normal Distribution

Parameter	Symbol	Estimate
Mean	Mu	1.646667
Std Dev	Sigma	0.25317

Goodness-of-Fit Tests for Normal Distribution

Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.23978902	Pr > D	0.021
Cramer-von Mises	W-Sq	0.17197960	Pr > W-Sq	0.010
Anderson-Darling	A-Sq	0.87549869	Pr > A-Sq	0.020

Quantiles for Normal Distribution

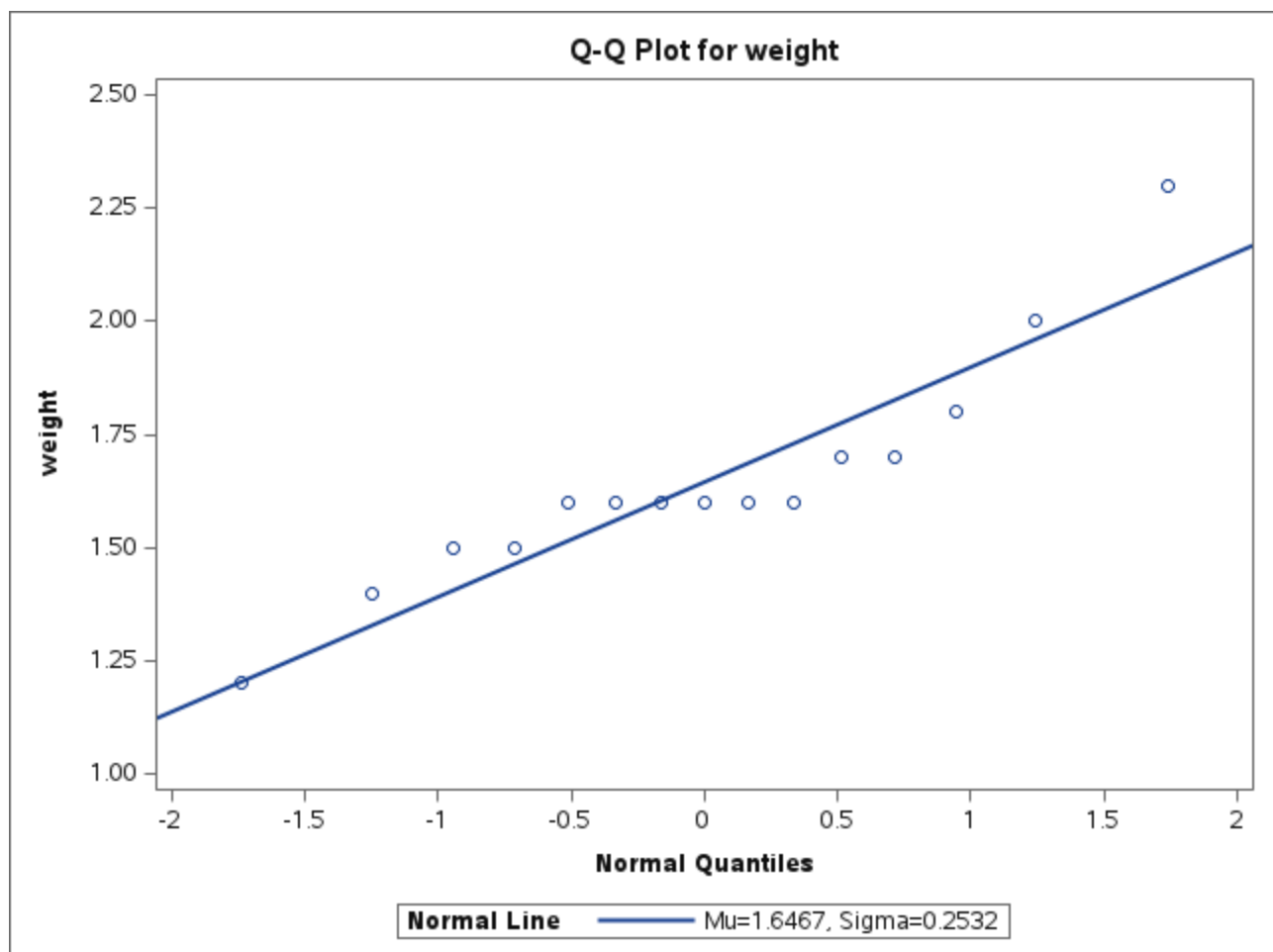
Quantile		
Percent	Observed	Estimated
1.0	1.20000	1.05770
5.0	1.20000	1.23024

Quantiles for Normal Distribution

Percent	Quantile	
	Observed	Estimated
10.0	1.40000	1.32222
25.0	1.50000	1.47591
50.0	1.60000	1.64667
75.0	1.70000	1.81743
90.0	2.00000	1.97112
95.0	2.30000	2.06309
99.0	2.30000	2.23563

Normality Analysis of Bumblebee Bat Weights

The UNIVARIATE Procedure



One-Sample t-Test for Bumblebee Bat Weights

The TTEST Procedure

Variable: weight

N	Mean	Std Dev	Std Err	Minimum	Maximum
15	1.6467	0.2532	0.0654	1.2000	2.3000

Mean	95% CL Mean	Std Dev	95% CL Std Dev
1.6467	1.5065 1.7869	0.2532	0.1854 0.3993

DF	t Value	Pr > t
14	-2.35	0.0342

