

The SAS System

The UNIVARIATE Procedure Variable: G

Appendix One: Output from Proc Univariate

| Basic Statistical Measures | | | |
|----------------------------|----------|---------------------|-----------|
| Location | | Variability | |
| Mean | 226.0944 | Std Deviation | 50.59182 |
| Median | 235.1500 | Variance | 2560 |
| Mode | 226.8000 | Range | 168.10000 |
| | | Interquartile Range | 81.00000 |

| Moments | | | |
|-----------------|------------|------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 226.094444 | Sum Observations | 8139.4 |
| Std Deviation | 50.5918172 | Variance | 2559.53197 |
| Skewness | -0.5691755 | Kurtosis | -0.7896379 |
| Uncorrected SS | 1929856.74 | Corrected SS | 89583.6189 |
| Coeff Variation | 22.3764088 | Std Error Mean | 8.43196953 |

| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|----------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 26.81395 | Pr > t | <.0001 |
| Sign | M | 18 | Pr >= M | <.0001 |
| Signed Rank | S | 333 | Pr >= S | <.0001 |

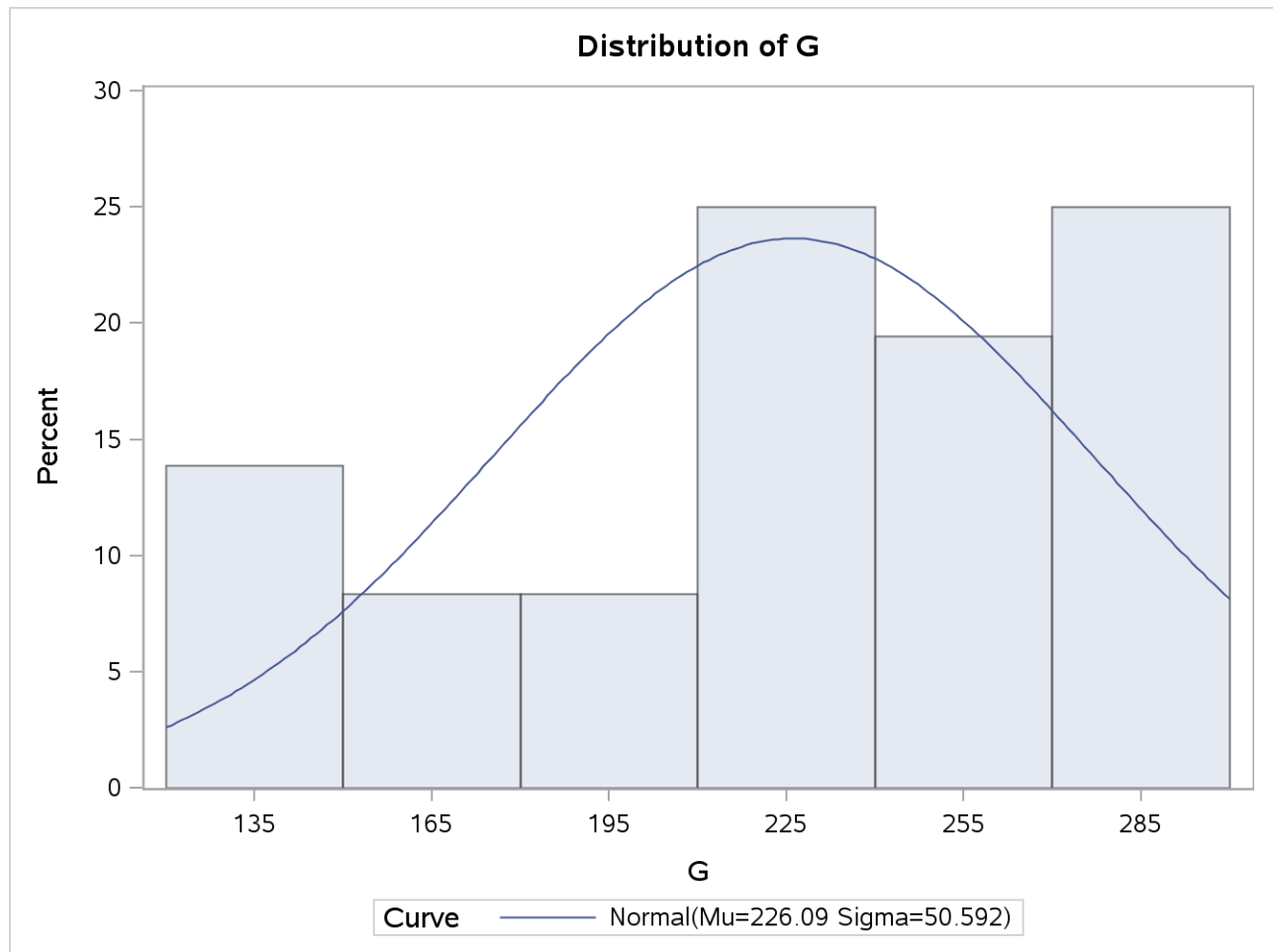
| Quantiles (Definition 5) | |
|--------------------------|----------|
| Quantile | Estimate |
| 100% Max | 297.80 |
| 99% | 297.80 |
| 95% | 290.20 |
| 90% | 284.10 |
| 75% Q3 | 270.60 |
| 50% Median | 235.15 |
| 25% Q1 | 189.60 |
| 10% | 141.60 |
| 5% | 131.30 |
| 1% | 129.70 |
| 0% Min | 129.70 |

The SAS System**The UNIVARIATE Procedure**
Variable: G

| Extreme Observations | | | |
|---------------------------------|------------|----------------|------------|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 129.7 | 1 | 282.0 | 31 |
| 131.3 | 2 | 284.1 | 30 |
| 137.1 | 3 | 286.7 | 34 |
| 141.6 | 4 | 290.2 | 35 |
| 148.8 | 5 | 297.8 | 36 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for G

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 226.0944 |
| Std Dev | Sigma | 50.59182 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|-------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.16276778 | Pr > D | 0.017 |
| Cramer-von Mises | W-Sq | 0.14624143 | Pr > W-Sq | 0.025 |
| Anderson-Darling | A-Sq | 0.93854006 | Pr > A-Sq | 0.017 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | 129.700 | 108.400 |
| 5.0 | 131.300 | 142.878 |
| 10.0 | 141.600 | 161.258 |
| 25.0 | 189.600 | 191.971 |
| 50.0 | 235.150 | 226.094 |
| 75.0 | 270.600 | 260.218 |
| 90.0 | 284.100 | 290.930 |
| 95.0 | 290.200 | 309.311 |
| 99.0 | 297.800 | 343.789 |

The SAS System

The UNIVARIATE Procedure Variable: Pop

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 221.947222 | Sum Observations | 7990.1 |
| Std Deviation | 24.0083853 | Variance | 576.402563 |
| Skewness | 0.01812887 | Kurtosis | -1.1173547 |
| Uncorrected SS | 1793554.59 | Corrected SS | 20174.0897 |
| Coeff Variation | 10.8171596 | Std Error Mean | 4.00139755 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|-----------|
| Location | | Variability | |
| Mean | 221.9472 | Std Deviation | 24.00839 |
| Median | 221.4000 | Variance | 576.40256 |
| Mode | . | Range | 82.50000 |
| | | Interquartile Range | 40.05000 |

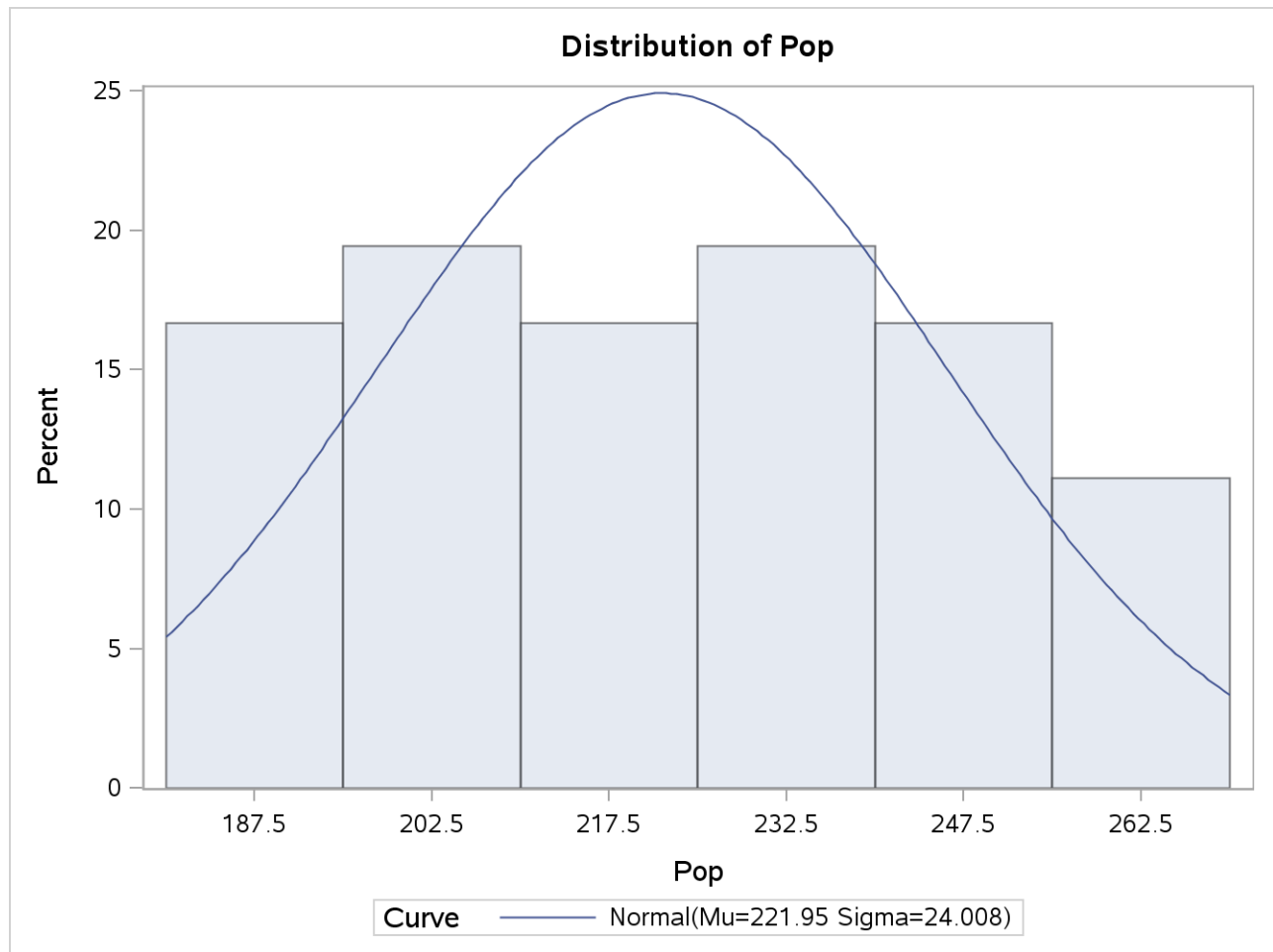
| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 55.46743 | Pr > t | <.0001 |
| Sign | M | 18 | Pr >= M | <.0001 |
| Signed Rank | S | 333 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Quantile | Estimate |
| 100% Max | 263.20 |
| 99% | 263.20 |
| 95% | 260.70 |
| 90% | 255.40 |
| 75% Q3 | 241.75 |
| 50% Median | 221.40 |
| 25% Q1 | 201.70 |
| 10% | 189.20 |
| 5% | 183.70 |
| 1% | 180.70 |
| 0% Min | 180.70 |

| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 180.7 | 1 | 252.6 | 32 |
| 183.7 | 2 | 255.4 | 33 |
| 186.5 | 3 | 258.1 | 34 |

The SAS System**The UNIVARIATE Procedure**
Variable: Pop

| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 189.2 | 4 | 260.7 | 35 |
| 191.9 | 5 | 263.2 | 36 |

The SAS System**The UNIVARIATE Procedure**

The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Pop

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 221.9472 |
| Std Dev | Sigma | 24.00839 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.06641090 | Pr > D | >0.150 |
| Cramer-von Mises | W-Sq | 0.04196170 | Pr > W-Sq | >0.250 |
| Anderson-Darling | A-Sq | 0.30516480 | Pr > A-Sq | >0.250 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | 180.700 | 166.095 |
| 5.0 | 183.700 | 182.457 |
| 10.0 | 189.200 | 191.179 |
| 25.0 | 201.700 | 205.754 |
| 50.0 | 221.400 | 221.947 |
| 75.0 | 241.750 | 238.141 |
| 90.0 | 255.400 | 252.715 |
| 95.0 | 260.700 | 261.438 |
| 99.0 | 263.200 | 277.799 |

The SAS System

The UNIVARIATE Procedure Variable: Ln_G_Pop

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | -0.0037086 | Sum Observations | -0.1335098 |
| Std Deviation | 0.15169085 | Variance | 0.02301011 |
| Skewness | -1.115919 | Kurtosis | -0.0570163 |
| Uncorrected SS | 0.80584913 | Corrected SS | 0.805354 |
| Coeff Variation | -4090.2395 | Std Error Mean | 0.02528181 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | -0.00371 | Std Deviation | 0.15169 |
| Median | 0.05196 | Variance | 0.02301 |
| Mode | . | Range | 0.49611 |
| | | Interquartile Range | 0.17231 |

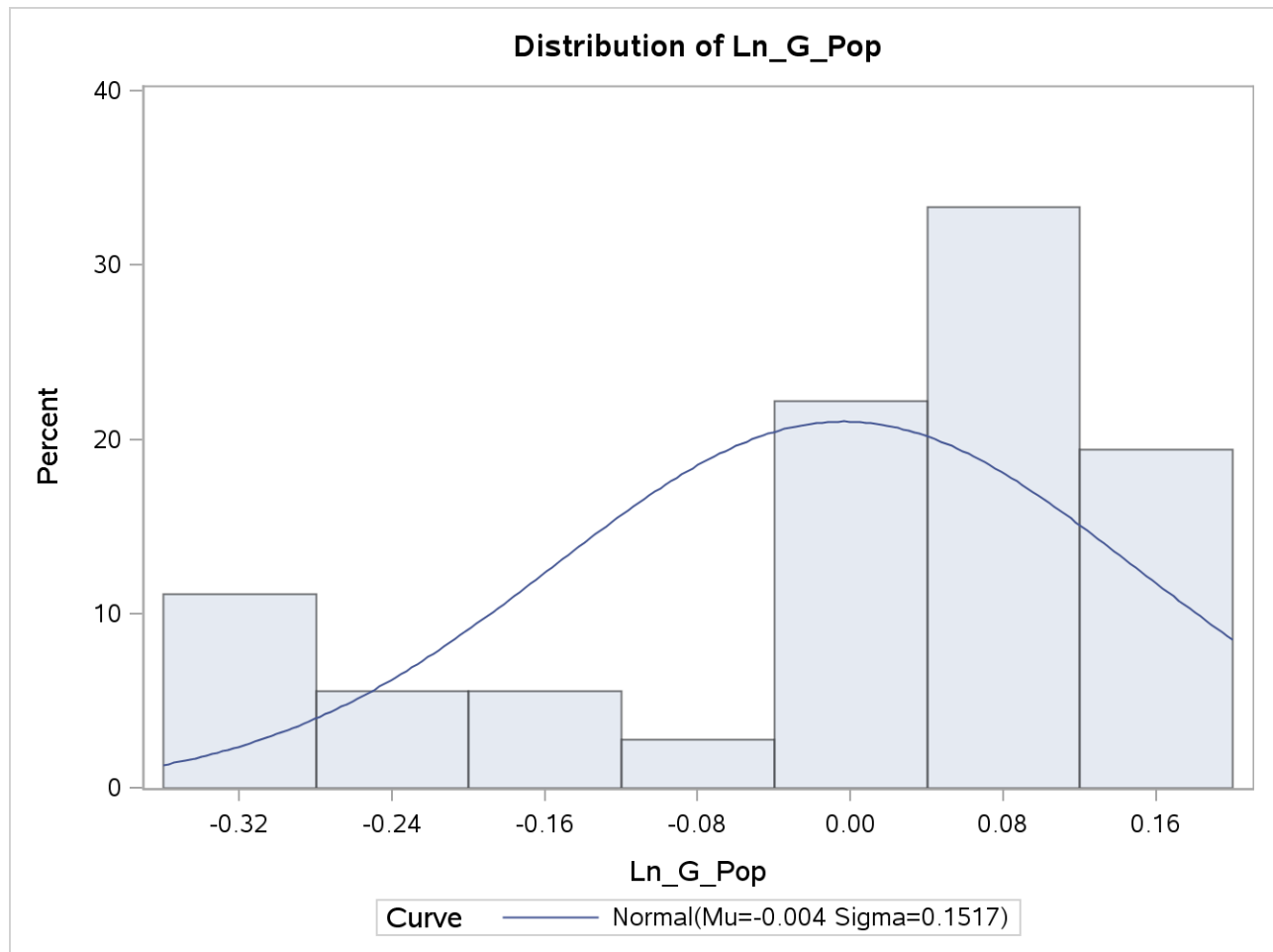
| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | -0.14669 | Pr > t | 0.8842 |
| Sign | M | 5 | Pr >= M | 0.1325 |
| Signed Rank | S | 45 | Pr >= S | 0.4873 |

| Quantiles (Definition 5) | |
|--------------------------|------------|
| Quantile | Estimate |
| 100% Max | 0.1602927 |
| 99% | 0.1602927 |
| 95% | 0.1387241 |
| 90% | 0.1310572 |
| 75% Q3 | 0.1099230 |
| 50% Median | 0.0519583 |
| 25% Q1 | -0.0623875 |
| 10% | -0.2897985 |
| 5% | -0.3316141 |
| 1% | -0.3358192 |
| 0% Min | -0.3358192 |

| Extreme Observations | | | |
|----------------------|-----|----------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| -0.335819 | 2 | 0.123720 | 18 |
| -0.331614 | 1 | 0.131057 | 28 |
| -0.307721 | 3 | 0.133174 | 29 |
| -0.289798 | 4 | 0.138724 | 30 |
| -0.254371 | 5 | 0.160293 | 19 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Ln_G_Pop

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | -0.00371 |
| Std Dev | Sigma | 0.151691 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.18124811 | Pr > D | <0.010 |
| Cramer-von Mises | W-Sq | 0.41331041 | Pr > W-Sq | <0.005 |
| Anderson-Darling | A-Sq | 2.39443264 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | -0.33582 | -0.35659 |
| 5.0 | -0.33161 | -0.25322 |
| 10.0 | -0.28980 | -0.19811 |
| 25.0 | -0.06239 | -0.10602 |
| 50.0 | 0.05196 | -0.00371 |
| 75.0 | 0.10992 | 0.09861 |
| 90.0 | 0.13106 | 0.19069 |
| 95.0 | 0.13872 | 0.24580 |
| 99.0 | 0.16029 | 0.34918 |

The SAS System

The UNIVARIATE Procedure Variable: G_Pop

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 1.00690343 | Sum Observations | 36.2485234 |
| Std Deviation | 0.14077583 | Variance | 0.01981783 |
| Skewness | -0.9632352 | Kurtosis | -0.3713127 |
| Uncorrected SS | 37.1923867 | Corrected SS | 0.69362421 |
| Coeff Variation | 13.9810658 | Std Error Mean | 0.02346264 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | 1.006903 | Std Deviation | 0.14078 |
| Median | 1.053334 | Variance | 0.01982 |
| Mode | . | Range | 0.45910 |
| | | Interquartile Range | 0.17632 |

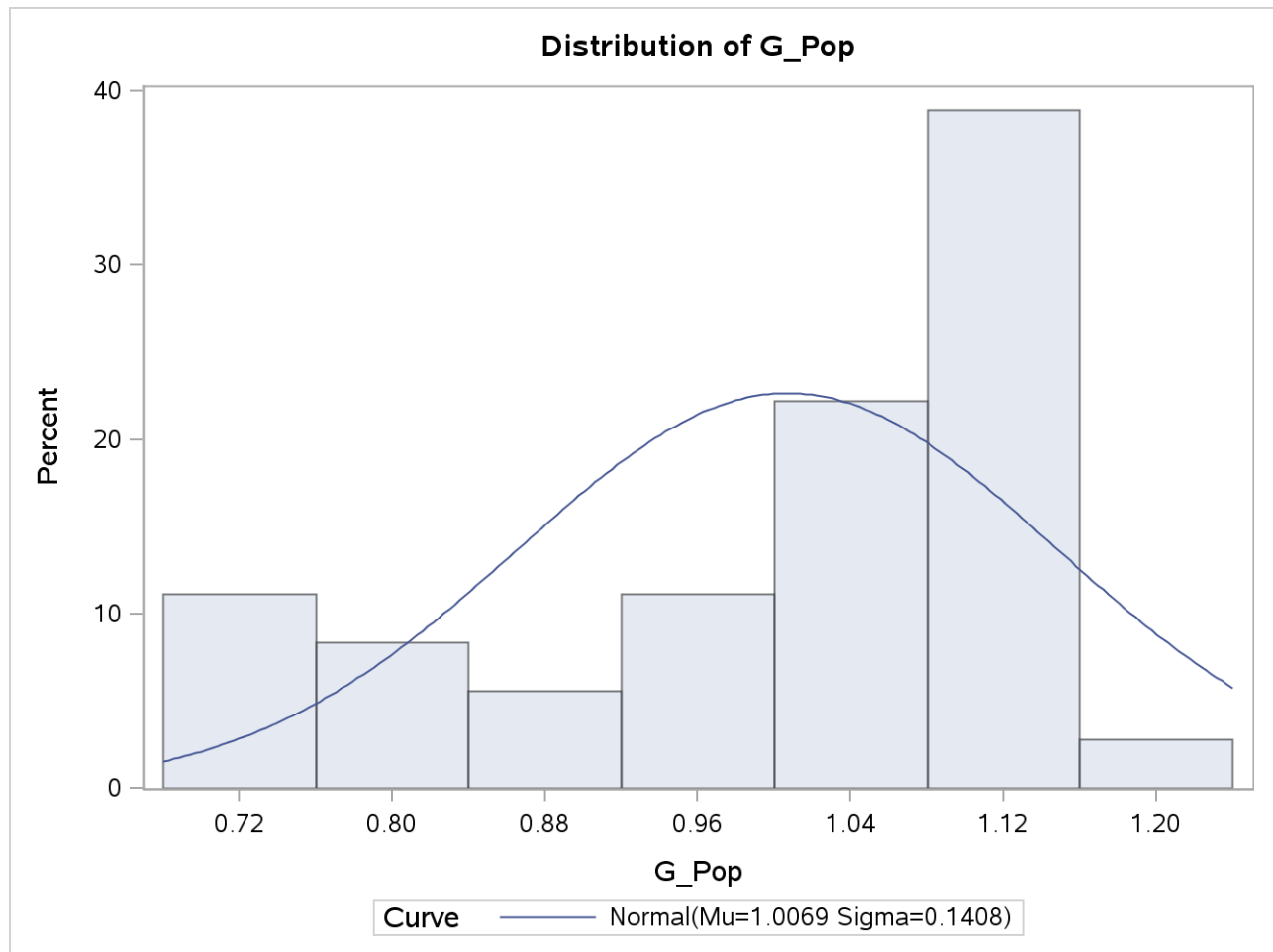
| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 42.91518 | Pr > t | <.0001 |
| Sign | M | 18 | Pr >= M | <.0001 |
| Signed Rank | S | 333 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Quantile | Estimate |
| 100% Max | 1.173854 |
| 99% | 1.173854 |
| 95% | 1.148807 |
| 90% | 1.140033 |
| 75% Q3 | 1.116196 |
| 50% Median | 1.053334 |
| 25% Q1 | 0.939881 |
| 10% | 0.748414 |
| 5% | 0.717764 |
| 1% | 0.714752 |
| 0% Min | 0.714752 |

| Extreme Observations | | | | |
|----------------------|-----|---------|-----|--|
| Lowest | | Highest | | |
| Value | Obs | Value | Obs | |
| 0.714752 | 2 | 1.13170 | 18 | |
| 0.717764 | 1 | 1.14003 | 28 | |
| 0.735121 | 3 | 1.14245 | 29 | |
| 0.748414 | 4 | 1.14881 | 30 | |
| 0.775404 | 5 | 1.17385 | 19 | |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for G_Pop

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 1.006903 |
| Std Dev | Sigma | 0.140776 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.16026168 | Pr > D | 0.020 |
| Cramer-von Mises | W-Sq | 0.32479573 | Pr > W-Sq | <0.005 |
| Anderson-Darling | A-Sq | 1.95102533 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | 0.71475 | 0.67941 |
| 5.0 | 0.71776 | 0.77535 |
| 10.0 | 0.74841 | 0.82649 |
| 25.0 | 0.93988 | 0.91195 |
| 50.0 | 1.05333 | 1.00690 |
| 75.0 | 1.11620 | 1.10186 |
| 90.0 | 1.14003 | 1.18731 |
| 95.0 | 1.14881 | 1.23846 |
| 99.0 | 1.17385 | 1.33440 |

The SAS System

The UNIVARIATE Procedure Variable: Ln_pg

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 0.67409433 | Sum Observations | 24.267396 |
| Std Deviation | 0.60422801 | Variance | 0.36509149 |
| Skewness | -0.1014765 | Kurtosis | -1.8253032 |
| Uncorrected SS | 29.1367163 | Corrected SS | 12.7782021 |
| Coeff Variation | 89.6355273 | Std Error Mean | 0.10070467 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | 0.67409 | Std Deviation | 0.60423 |
| Median | 0.65340 | Variance | 0.36509 |
| Mode | -0.08992 | Range | 1.50310 |
| | | Interquartile Range | 1.28448 |

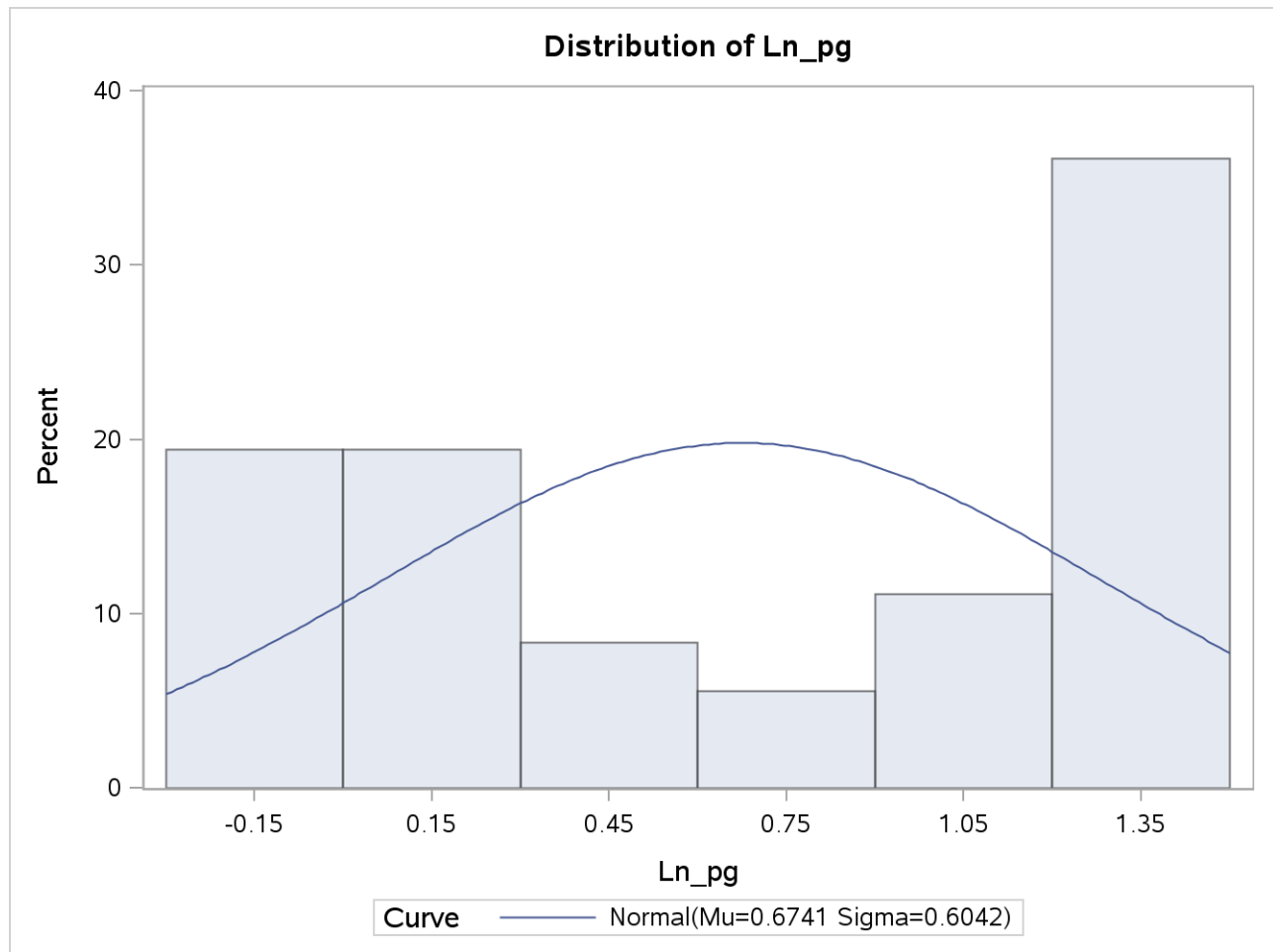
| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 6.693774 | Pr > t | <.0001 |
| Sign | M | 10.5 | Pr >= M | 0.0005 |
| Signed Rank | S | 259 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|------------|
| Quantile | Estimate |
| 100% Max | 1.4131797 |
| 99% | 1.4131797 |
| 95% | 1.3594369 |
| 90% | 1.3321021 |
| 75% Q3 | 1.3143922 |
| 50% Median | 0.6534045 |
| 25% Q1 | 0.0299159 |
| 10% | -0.0844692 |
| 5% | -0.0899247 |
| 1% | -0.0899247 |
| 0% Min | -0.0899247 |

| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| -0.0899247 | 5 | 1.32601 | 32 |
| -0.0899247 | 2 | 1.33210 | 36 |
| -0.0855579 | 4 | 1.34391 | 31 |
| -0.0844692 | 3 | 1.35944 | 23 |
| -0.0779615 | 1 | 1.41318 | 22 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Ln_pg

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 0.674094 |
| Std Dev | Sigma | 0.604228 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.20109684 | Pr > D | <0.010 |
| Cramer-von Mises | W-Sq | 0.39366240 | Pr > W-Sq | <0.005 |
| Anderson-Darling | A-Sq | 2.59082350 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | -0.08992 | -0.73155 |
| 5.0 | -0.08992 | -0.31977 |
| 10.0 | -0.08447 | -0.10026 |
| 25.0 | 0.02992 | 0.26655 |
| 50.0 | 0.65340 | 0.67409 |
| 75.0 | 1.31439 | 1.08164 |
| 90.0 | 1.33210 | 1.44844 |
| 95.0 | 1.35944 | 1.66796 |
| 99.0 | 1.41318 | 2.07974 |

The SAS System

The UNIVARIATE Procedure Variable: Pg

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 2.31661111 | Sum Observations | 83.398 |
| Std Deviation | 1.25173462 | Variance | 1.56683956 |
| Skewness | 0.12087287 | Kurtosis | -1.8301829 |
| Uncorrected SS | 248.040118 | Corrected SS | 54.8393846 |
| Coeff Variation | 54.033006 | Std Error Mean | 0.20862244 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | 2.316611 | Std Deviation | 1.25173 |
| Median | 1.922500 | Variance | 1.56684 |
| Mode | 0.914000 | Range | 3.19500 |
| | | Interquartile Range | 2.69200 |

| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 11.10432 | Pr > t | <.0001 |
| Sign | M | 18 | Pr >= M | <.0001 |
| Signed Rank | S | 333 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Quantile | Estimate |
| 100% Max | 4.1090 |
| 99% | 4.1090 |
| 95% | 3.8940 |
| 90% | 3.7890 |
| 75% Q3 | 3.7225 |
| 50% Median | 1.9225 |
| 25% Q1 | 1.0305 |
| 10% | 0.9190 |
| 5% | 0.9140 |
| 1% | 0.9140 |
| 0% Min | 0.9140 |

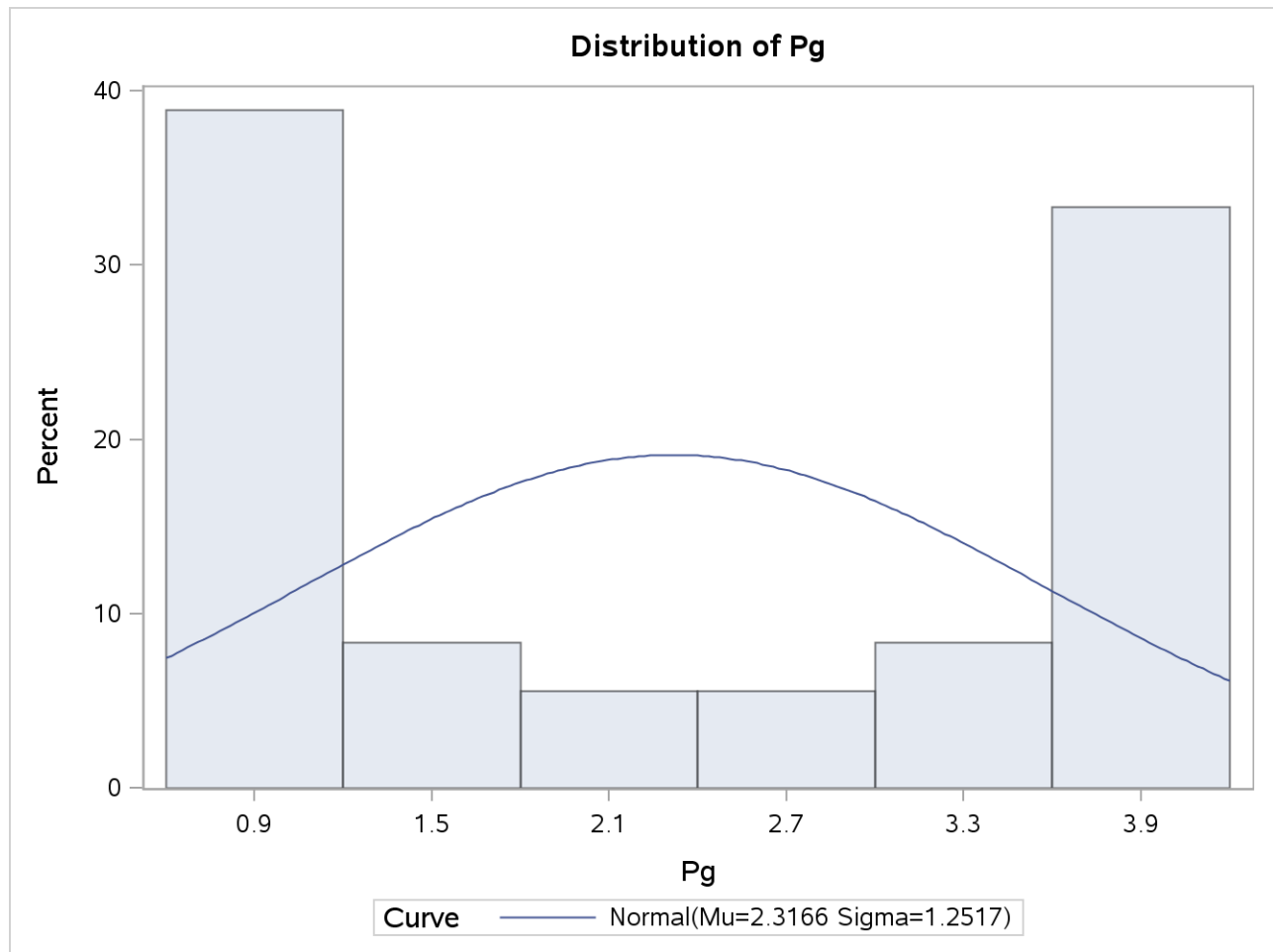
| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0.914 | 5 | 3.766 | 32 |
| 0.914 | 2 | 3.789 | 36 |
| 0.918 | 4 | 3.834 | 31 |

The SAS System**The UNIVARIATE Procedure**
Variable: Pg

| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0.919 | 3 | 3.894 | 23 |
| 0.925 | 1 | 4.109 | 22 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Pg

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 2.316611 |
| Std Dev | Sigma | 1.251735 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.20674628 | Pr > D | <0.010 |
| Cramer-von Mises | W-Sq | 0.41505428 | Pr > W-Sq | <0.005 |
| Anderson-Darling | A-Sq | 2.67691509 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | 0.91400 | -0.59536 |
| 5.0 | 0.91400 | 0.25769 |
| 10.0 | 0.91900 | 0.71245 |
| 25.0 | 1.03050 | 1.47233 |
| 50.0 | 1.92250 | 2.31661 |
| 75.0 | 3.72250 | 3.16089 |
| 90.0 | 3.78900 | 3.92077 |
| 95.0 | 3.89400 | 4.37553 |
| 99.0 | 4.10900 | 5.22858 |

The SAS System

The UNIVARIATE Procedure Variable: Ln_Income

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 9.11092772 | Sum Observations | 327.993398 |
| Std Deviation | 0.20480507 | Variance | 0.04194512 |
| Skewness | -0.5656092 | Kurtosis | -0.7810654 |
| Uncorrected SS | 2989.79222 | Corrected SS | 1.46807903 |
| Coeff Variation | 2.24790573 | Std Error Mean | 0.03413418 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | 9.110928 | Std Deviation | 0.20481 |
| Median | 9.164294 | Variance | 0.04195 |
| Mode | . | Range | 0.68165 |
| | | Interquartile Range | 0.32606 |

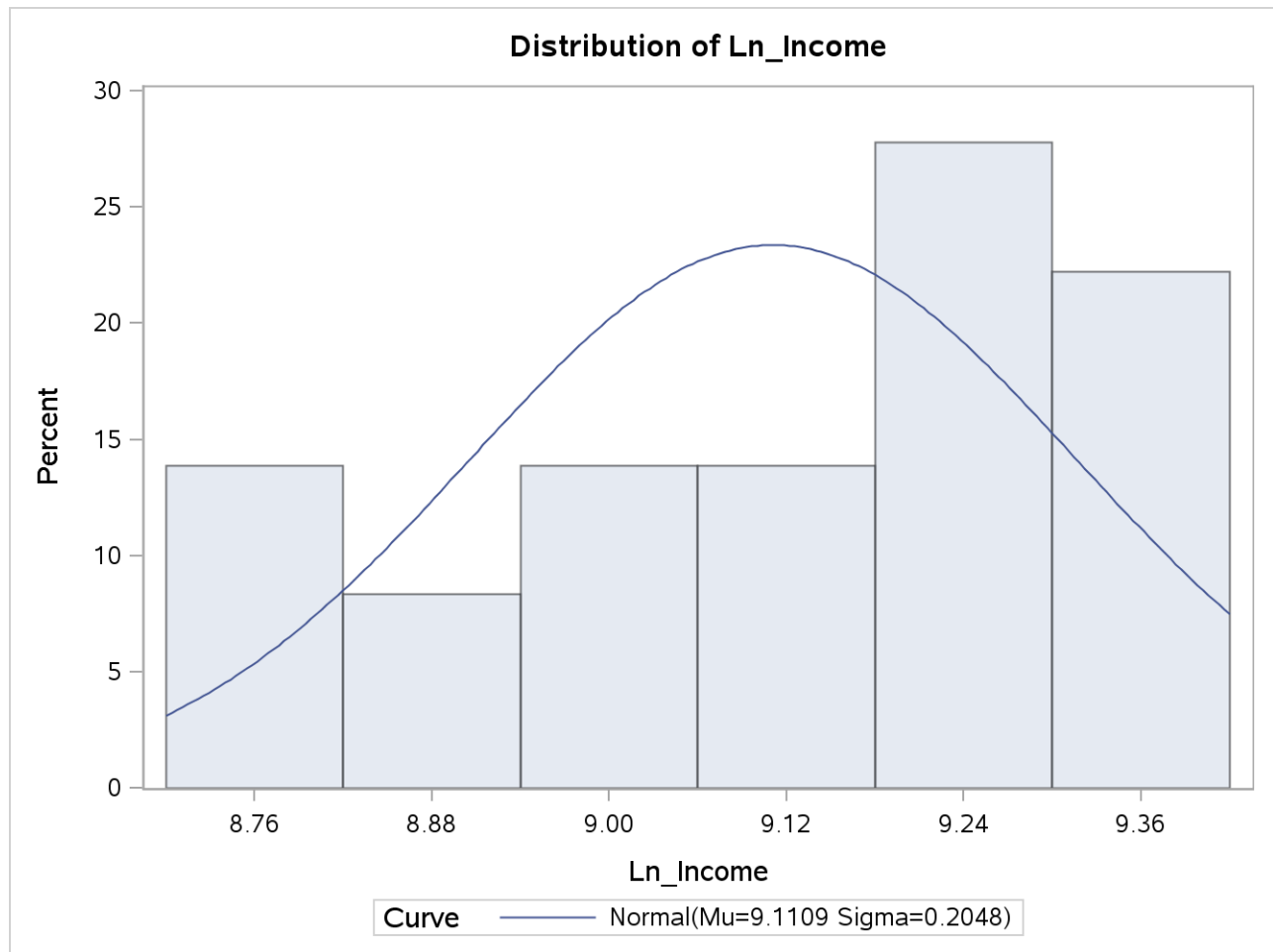
| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 266.9151 | Pr > t | <.0001 |
| Sign | M | 18 | Pr >= M | <.0001 |
| Signed Rank | S | 333 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Quantile | Estimate |
| 100% Max | 9.38715 |
| 99% | 9.38715 |
| 95% | 9.36186 |
| 90% | 9.34714 |
| 75% Q3 | 9.28910 |
| 50% Median | 9.16429 |
| 25% Q1 | 8.96304 |
| 10% | 8.76061 |
| 5% | 8.71817 |
| 1% | 8.70550 |
| 0% Min | 8.70550 |

| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 8.70550 | 1 | 9.34040 | 31 |
| 8.71817 | 2 | 9.34714 | 33 |
| 8.74369 | 3 | 9.34801 | 34 |
| 8.76061 | 4 | 9.36186 | 35 |
| 8.81388 | 5 | 9.38715 | 36 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Ln_Income

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 9.110928 |
| Std Dev | Sigma | 0.204805 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|-------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.13598229 | Pr > D | 0.090 |
| Cramer-von Mises | W-Sq | 0.11261380 | Pr > W-Sq | 0.077 |
| Anderson-Darling | A-Sq | 0.77808274 | Pr > A-Sq | 0.041 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | 8.70550 | 8.63448 |
| 5.0 | 8.71817 | 8.77405 |
| 10.0 | 8.76061 | 8.84846 |
| 25.0 | 8.96304 | 8.97279 |
| 50.0 | 9.16429 | 9.11093 |
| 75.0 | 9.28910 | 9.24907 |
| 90.0 | 9.34714 | 9.37340 |
| 95.0 | 9.36186 | 9.44780 |
| 99.0 | 9.38715 | 9.58738 |

The SAS System

The UNIVARIATE Procedure Variable: Y

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 9232.86111 | Sum Observations | 332383 |
| Std Deviation | 1786.38084 | Variance | 3191156.52 |
| Skewness | -0.2954903 | Kurtosis | -1.0548465 |
| Uncorrected SS | 3180536553 | Corrected SS | 111690478 |
| Coeff Variation | 19.3480745 | Std Error Mean | 297.730141 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | 9232.861 | Std Deviation | 1786 |
| Median | 9551.500 | Variance | 3191157 |
| Mode | . | Range | 5898 |
| | | Interquartile Range | 3010 |

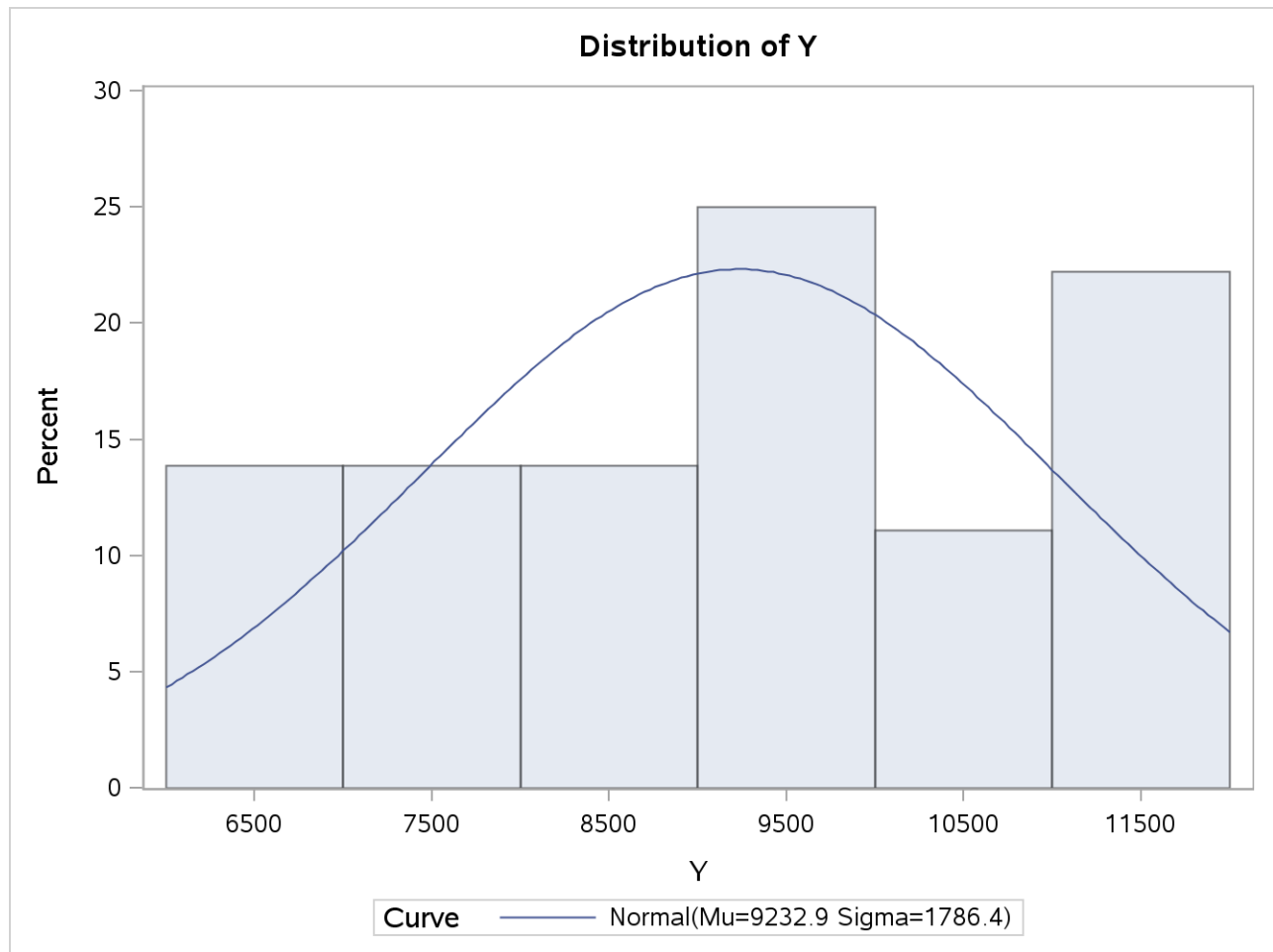
| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 31.01084 | Pr > t | <.0001 |
| Sign | M | 18 | Pr >= M | <.0001 |
| Signed Rank | S | 333 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Quantile | Estimate |
| 100% Max | 11934.0 |
| 99% | 11934.0 |
| 95% | 11636.0 |
| 90% | 11466.0 |
| 75% Q3 | 10819.5 |
| 50% Median | 9551.5 |
| 25% Q1 | 7809.5 |
| 10% | 6378.0 |
| 5% | 6113.0 |
| 1% | 6036.0 |
| 0% Min | 6036.0 |

| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 6036 | 1 | 11389 | 31 |
| 6113 | 2 | 11466 | 33 |
| 6271 | 3 | 11476 | 34 |
| 6378 | 4 | 11636 | 35 |
| 6727 | 5 | 11934 | 36 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Y

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 9232.861 |
| Std Dev | Sigma | 1786.381 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.10788682 | Pr > D | >0.150 |
| Cramer-von Mises | W-Sq | 0.06983802 | Pr > W-Sq | >0.250 |
| Anderson-Darling | A-Sq | 0.53544942 | Pr > A-Sq | 0.165 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | 6036.00 | 5077.12 |
| 5.0 | 6113.00 | 6294.53 |
| 10.0 | 6378.00 | 6943.52 |
| 25.0 | 7809.50 | 8027.97 |
| 50.0 | 9551.50 | 9232.86 |
| 75.0 | 10819.50 | 10437.76 |
| 90.0 | 11466.00 | 11522.20 |
| 95.0 | 11636.00 | 12171.20 |
| 99.0 | 11934.00 | 13388.60 |

The SAS System

The UNIVARIATE Procedure Variable: Ln_Pnc

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 0.44319821 | Sum Observations | 15.9551355 |
| Std Deviation | 0.37942223 | Variance | 0.14396123 |
| Skewness | 0.17387674 | Kurtosis | -1.6820128 |
| Uncorrected SS | 12.1099306 | Corrected SS | 5.03864313 |
| Coeff Variation | 85.6100562 | Std Error Mean | 0.06323704 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | 0.443198 | Std Deviation | 0.37942 |
| Median | 0.393729 | Variance | 0.14396 |
| Mode | 0.044017 | Range | 1.04400 |
| | | Interquartile Range | 0.78022 |

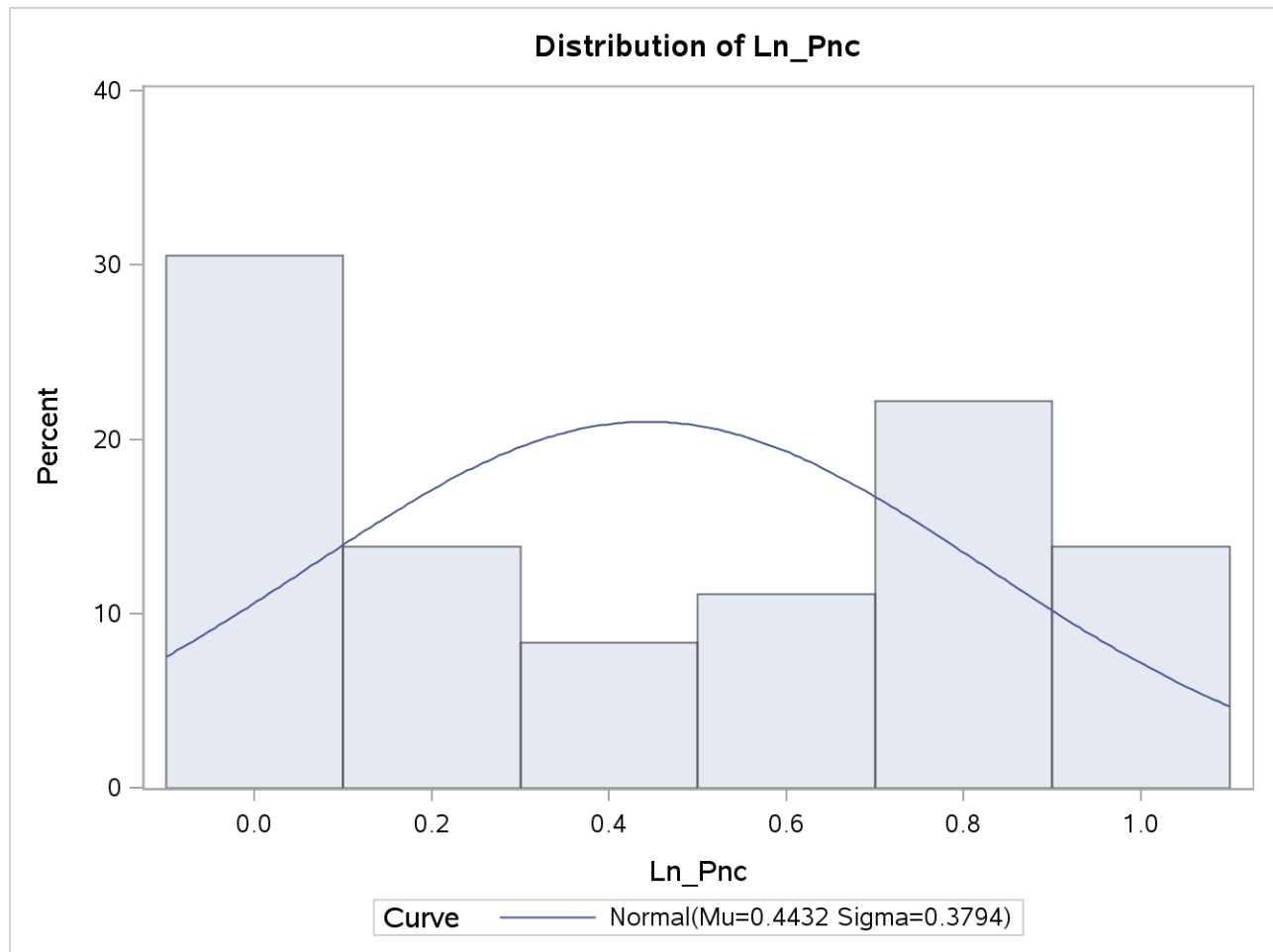
| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 7.008522 | Pr > t | <.0001 |
| Sign | M | 16.5 | Pr >= M | <.0001 |
| Signed Rank | S | 313 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|-------------|
| Quantile | Estimate |
| 100% Max | 1.03496226 |
| 99% | 1.03496226 |
| 95% | 1.01305440 |
| 90% | 0.93137637 |
| 75% Q3 | 0.82423700 |
| 50% Median | 0.39372889 |
| 25% Q1 | 0.04401689 |
| 10% | 0.02761517 |
| 5% | 0.00000000 |
| 1% | -0.00904074 |
| 0% Min | -0.00904074 |

| Extreme Observations | | | |
|----------------------|-----|----------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| -0.00904074 | 7 | 0.927428 | 33 |
| 0.00000000 | 8 | 0.931376 | 32 |
| 0.00895974 | 6 | 0.979453 | 34 |
| 0.02761517 | 9 | 1.013054 | 35 |
| 0.03149867 | 5 | 1.034962 | 36 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Ln_Pnc

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 0.443198 |
| Std Dev | Sigma | 0.379422 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.19657458 | Pr > D | <0.010 |
| Cramer-von Mises | W-Sq | 0.29707918 | Pr > W-Sq | <0.005 |
| Anderson-Darling | A-Sq | 1.87371515 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | -0.00904 | -0.43947 |
| 5.0 | 0.00000 | -0.18090 |
| 10.0 | 0.02762 | -0.04305 |
| 25.0 | 0.04402 | 0.18728 |
| 50.0 | 0.39373 | 0.44320 |
| 75.0 | 0.82424 | 0.69911 |
| 90.0 | 0.93138 | 0.92945 |
| 95.0 | 1.01305 | 1.06729 |
| 99.0 | 1.03496 | 1.32587 |

The SAS System

The UNIVARIATE Procedure Variable: Pnc

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 1.67077778 | Sum Observations | 60.148 |
| Std Deviation | 0.63354527 | Variance | 0.40137961 |
| Skewness | 0.39814391 | Kurtosis | -1.4413242 |
| Uncorrected SS | 114.542228 | Corrected SS | 14.0482862 |
| Coeff Variation | 37.9191821 | Std Error Mean | 0.10559088 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | 1.670778 | Std Deviation | 0.63355 |
| Median | 1.483500 | Variance | 0.40138 |
| Mode | 1.045000 | Range | 1.82400 |
| | | Interquartile Range | 1.23550 |

| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 15.82313 | Pr > t | <.0001 |
| Sign | M | 18 | Pr >= M | <.0001 |
| Signed Rank | S | 333 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Quantile | Estimate |
| 100% Max | 2.8150 |
| 99% | 2.8150 |
| 95% | 2.7540 |
| 90% | 2.5380 |
| 75% Q3 | 2.2805 |
| 50% Median | 1.4835 |
| 25% Q1 | 1.0450 |
| 10% | 1.0280 |
| 5% | 1.0000 |
| 1% | 0.9910 |
| 0% Min | 0.9910 |

| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0.991 | 7 | 2.528 | 33 |
| 1.000 | 8 | 2.538 | 32 |
| 1.009 | 6 | 2.663 | 34 |

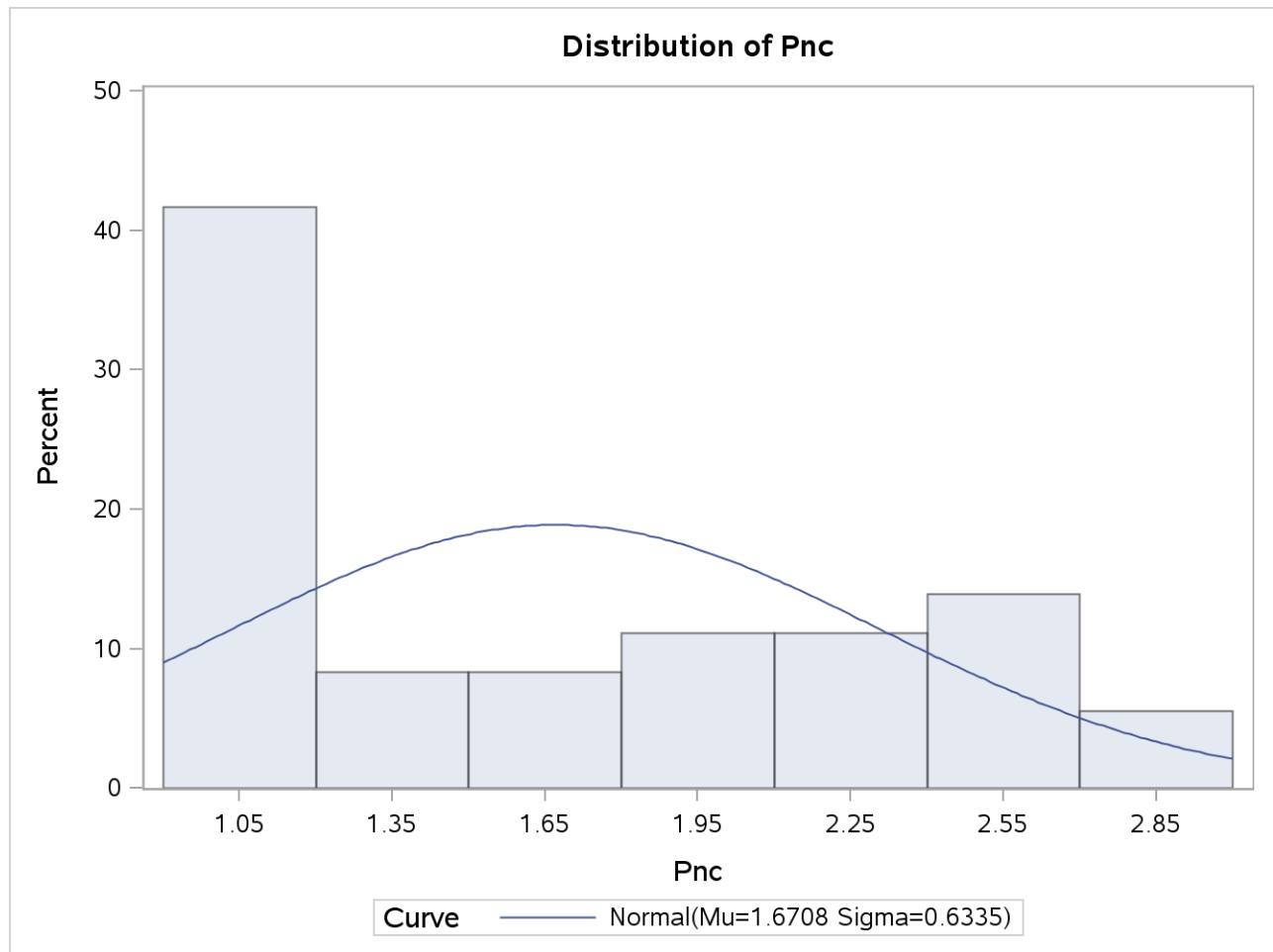
The SAS System

The UNIVARIATE Procedure
Variable: Pnc

| Extreme Observations | | | |
|---------------------------------|------------|----------------|------------|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 1.028 | 9 | 2.754 | 35 |
| 1.032 | 5 | 2.815 | 36 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Pnc

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 1.670778 |
| Std Dev | Sigma | 0.633545 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.19971954 | Pr > D | <0.010 |
| Cramer-von Mises | W-Sq | 0.30550532 | Pr > W-Sq | <0.005 |
| Anderson-Darling | A-Sq | 1.88795394 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | 0.99100 | 0.19693 |
| 5.0 | 1.00000 | 0.62869 |
| 10.0 | 1.02800 | 0.85886 |
| 25.0 | 1.04500 | 1.24346 |
| 50.0 | 1.48350 | 1.67078 |
| 75.0 | 2.28050 | 2.09810 |
| 90.0 | 2.53800 | 2.48270 |
| 95.0 | 2.75400 | 2.71287 |
| 99.0 | 2.81500 | 3.14462 |

The SAS System

The UNIVARIATE Procedure Variable: Ln_Puc

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 0.66361224 | Sum Observations | 23.8900406 |
| Std Deviation | 0.63010641 | Variance | 0.39703409 |
| Skewness | 0.13055244 | Kurtosis | -1.7006684 |
| Uncorrected SS | 29.7499165 | Corrected SS | 13.8961931 |
| Coeff Variation | 94.9509929 | Std Error Mean | 0.10501774 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | 0.663612 | Std Deviation | 0.63011 |
| Median | 0.613242 | Variance | 0.39703 |
| Mode | . | Range | 1.83239 |
| | | Interquartile Range | 1.30237 |

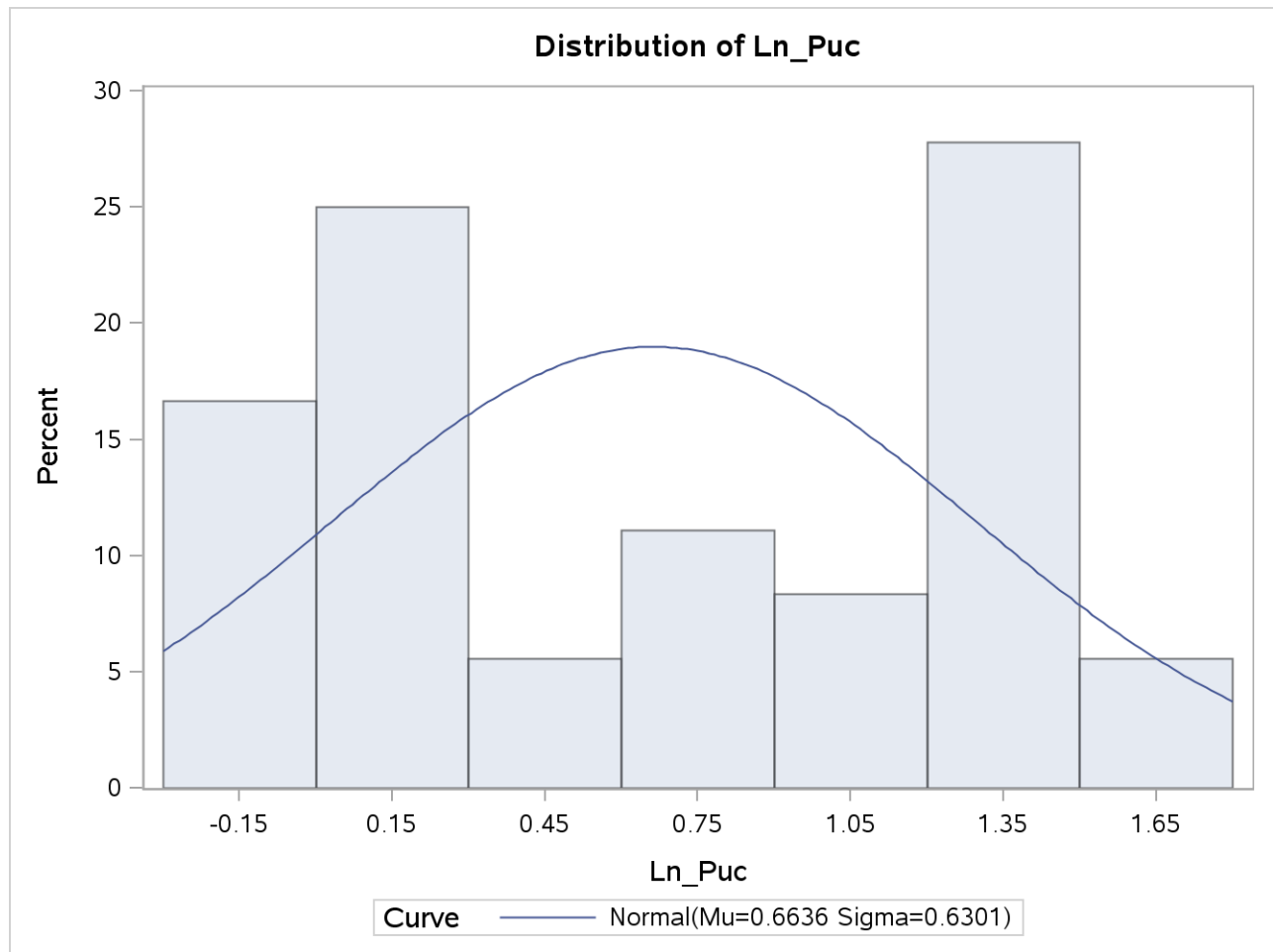
| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 6.319049 | Pr > t | <.0001 |
| Sign | M | 11.5 | Pr >= M | 0.0001 |
| Signed Rank | S | 271 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|------------|
| Quantile | Estimate |
| 100% Max | 1.6532634 |
| 99% | 1.6532634 |
| 95% | 1.5539252 |
| 90% | 1.4141527 |
| 75% Q3 | 1.3314383 |
| 50% Median | 0.6132418 |
| 25% Q1 | 0.0290722 |
| 10% | -0.0408220 |
| 5% | -0.1404122 |
| 1% | -0.1791267 |
| 0% Min | -0.1791267 |

| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| -0.1791267 | 1 | 1.39103 | 30 |
| -0.1404122 | 2 | 1.41415 | 33 |
| -0.0534008 | 3 | 1.49739 | 34 |
| -0.0408220 | 4 | 1.55393 | 35 |
| -0.0304592 | 7 | 1.65326 | 36 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Ln_Puc

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 0.663612 |
| Std Dev | Sigma | 0.630106 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.18391226 | Pr > D | <0.010 |
| Cramer-von Mises | W-Sq | 0.29614243 | Pr > W-Sq | <0.005 |
| Anderson-Darling | A-Sq | 1.90279255 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | -0.17913 | -0.80223 |
| 5.0 | -0.14041 | -0.37282 |
| 10.0 | -0.04082 | -0.14390 |
| 25.0 | 0.02907 | 0.23861 |
| 50.0 | 0.61324 | 0.66361 |
| 75.0 | 1.33144 | 1.08861 |
| 90.0 | 1.41415 | 1.47113 |
| 95.0 | 1.55393 | 1.70005 |
| 99.0 | 1.65326 | 2.12946 |

The SAS System

The UNIVARIATE Procedure Variable: Puc

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 2.34363889 | Sum Observations | 84.371 |
| Std Deviation | 1.40987147 | Variance | 1.98773755 |
| Skewness | 0.48382724 | Kurtosis | -1.354977 |
| Uncorrected SS | 267.305971 | Corrected SS | 69.5708143 |
| Coeff Variation | 60.1573678 | Std Error Mean | 0.23497858 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | 2.343639 | Std Deviation | 1.40987 |
| Median | 1.846500 | Variance | 1.98774 |
| Mode | . | Range | 4.38800 |
| | | Interquartile Range | 2.75700 |

| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 9.973841 | Pr > t | <.0001 |
| Sign | M | 18 | Pr >= M | <.0001 |
| Signed Rank | S | 333 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Quantile | Estimate |
| 100% Max | 5.2240 |
| 99% | 5.2240 |
| 95% | 4.7300 |
| 90% | 4.1130 |
| 75% Q3 | 3.7865 |
| 50% Median | 1.8465 |
| 25% Q1 | 1.0295 |
| 10% | 0.9600 |
| 5% | 0.8690 |
| 1% | 0.8360 |
| 0% Min | 0.8360 |

| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0.836 | 1 | 4.019 | 30 |
| 0.869 | 2 | 4.113 | 33 |
| 0.948 | 3 | 4.470 | 34 |

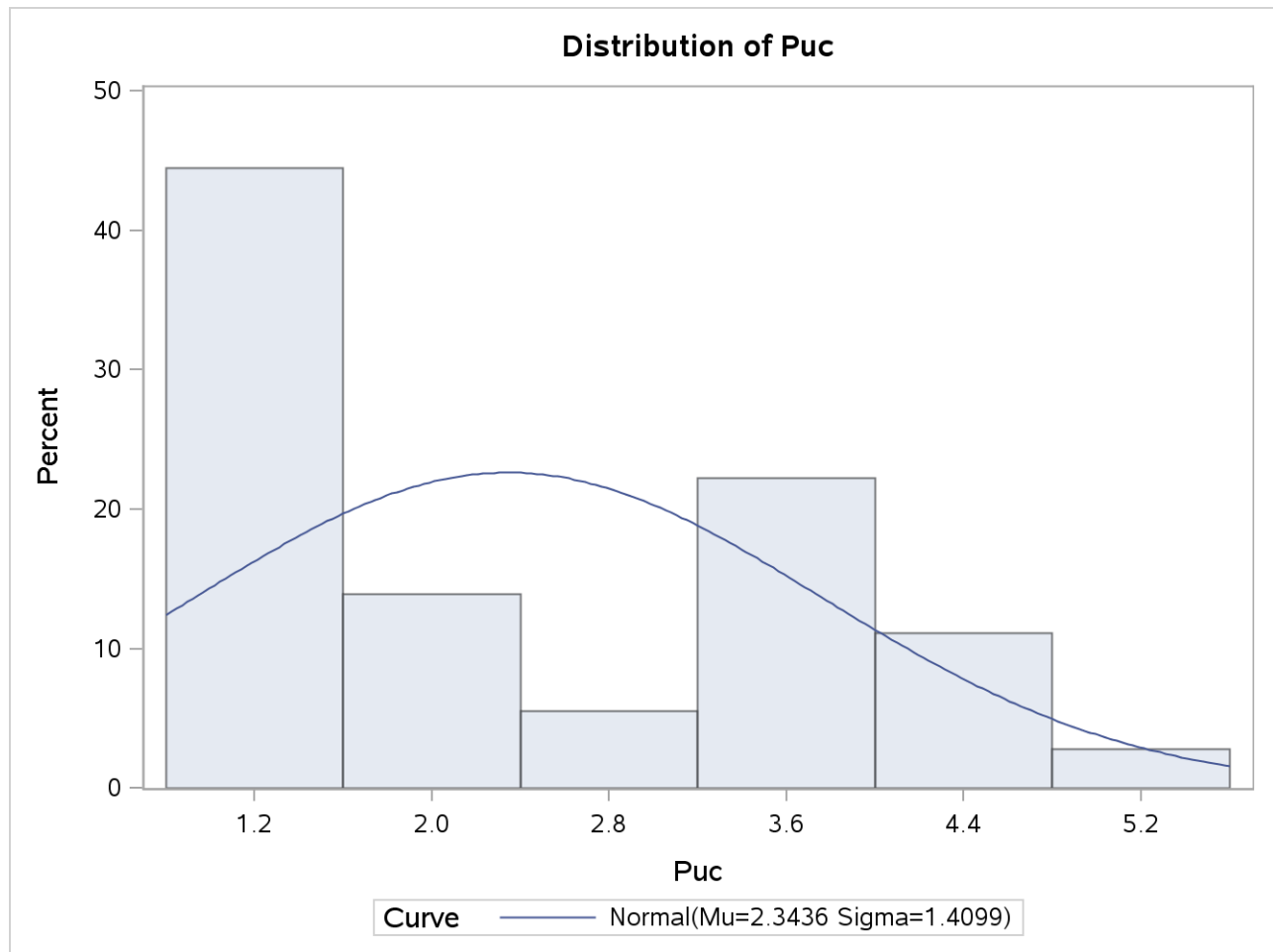
The SAS System

The UNIVARIATE Procedure
Variable: Puc

| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0.960 | 4 | 4.730 | 35 |
| 0.970 | 7 | 5.224 | 36 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Puc

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 2.343639 |
| Std Dev | Sigma | 1.409871 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.20269733 | Pr > D | <0.010 |
| Cramer-von Mises | W-Sq | 0.37915228 | Pr > W-Sq | <0.005 |
| Anderson-Darling | A-Sq | 2.22758637 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | 0.83600 | -0.93621 |
| 5.0 | 0.86900 | 0.02461 |
| 10.0 | 0.96000 | 0.53682 |
| 25.0 | 1.02950 | 1.39270 |
| 50.0 | 1.84650 | 2.34364 |
| 75.0 | 3.78650 | 3.29458 |
| 90.0 | 4.11300 | 4.15046 |
| 95.0 | 4.73000 | 4.66267 |
| 99.0 | 5.22400 | 5.62349 |

The SAS System

The UNIVARIATE Procedure Variable: Ln_Pp

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 0.77208265 | Sum Observations | 27.7949753 |
| Std Deviation | 0.71083044 | Variance | 0.50527991 |
| Skewness | 0.12039593 | Kurtosis | -1.5439769 |
| Uncorrected SS | 39.144815 | Corrected SS | 17.6847969 |
| Coeff Variation | 92.0666256 | Std Error Mean | 0.11847174 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | 0.772083 | Std Deviation | 0.71083 |
| Median | 0.615620 | Variance | 0.50528 |
| Mode | . | Range | 2.06858 |
| | | Interquartile Range | 1.38511 |

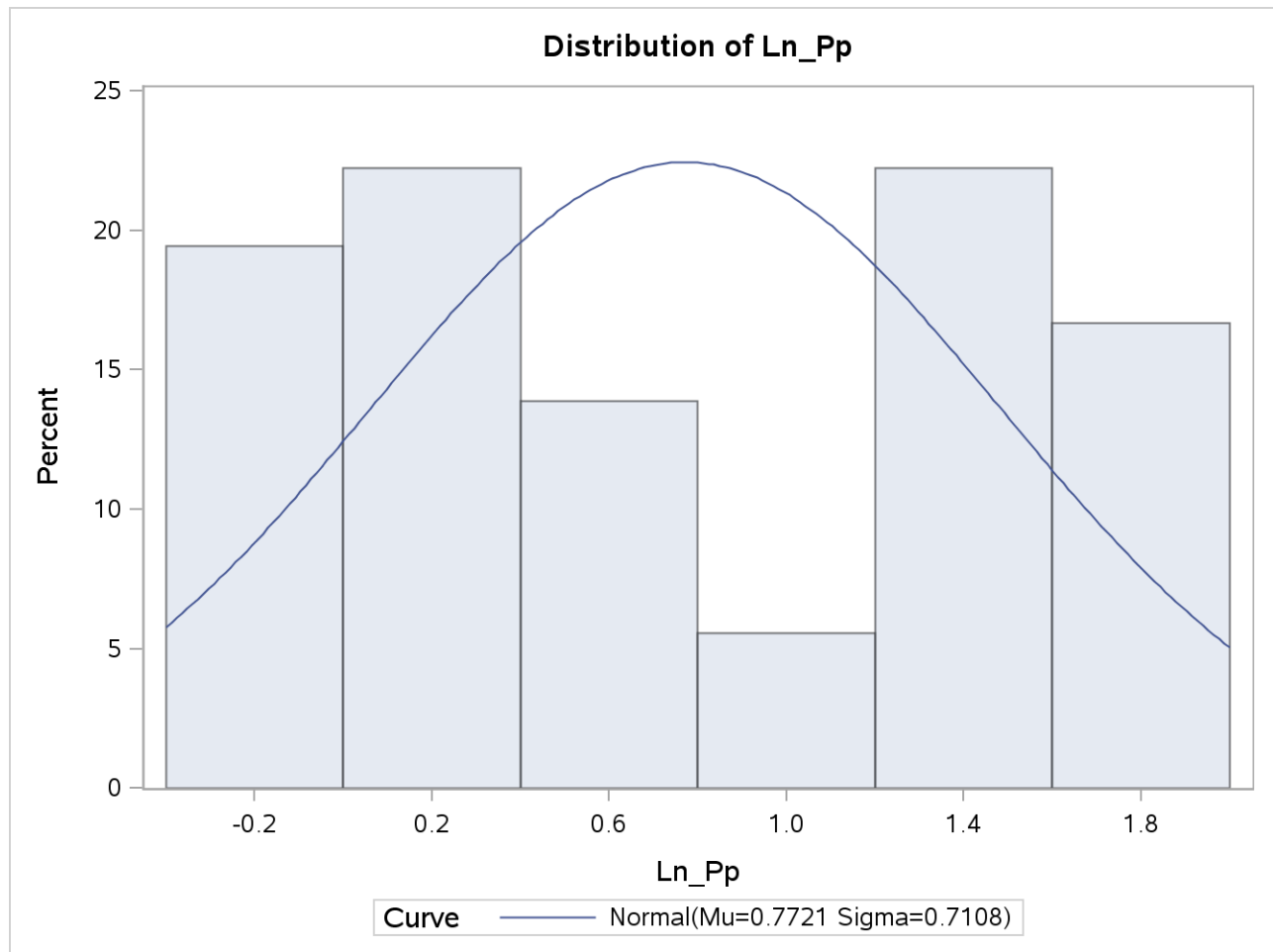
| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|---------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 6.51702 | Pr > t | <.0001 |
| Sign | M | 10.5 | Pr >= M | 0.0005 |
| Signed Rank | S | 276 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|------------|
| Quantile | Estimate |
| 100% Max | 1.8578593 |
| 99% | 1.8578593 |
| 95% | 1.8354573 |
| 90% | 1.7080155 |
| 75% Q3 | 1.4673812 |
| 50% Median | 0.6156196 |
| 25% Q1 | 0.0822663 |
| 10% | -0.1221676 |
| 5% | -0.1672359 |
| 1% | -0.2107210 |
| 0% Min | -0.2107210 |

| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| -0.210721 | 1 | 1.69139 | 32 |
| -0.167236 | 2 | 1.70802 | 33 |
| -0.134675 | 3 | 1.80599 | 34 |
| -0.122168 | 4 | 1.83546 | 35 |
| -0.104250 | 5 | 1.85786 | 36 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Ln_Pp

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 0.772083 |
| Std Dev | Sigma | 0.71083 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.13427906 | Pr > D | 0.097 |
| Cramer-von Mises | W-Sq | 0.18925225 | Pr > W-Sq | 0.007 |
| Anderson-Darling | A-Sq | 1.18286178 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | -0.21072 | -0.88156 |
| 5.0 | -0.16724 | -0.39713 |
| 10.0 | -0.12217 | -0.13888 |
| 25.0 | 0.08227 | 0.29263 |
| 50.0 | 0.61562 | 0.77208 |
| 75.0 | 1.46738 | 1.25153 |
| 90.0 | 1.70802 | 1.68305 |
| 95.0 | 1.83546 | 1.94129 |
| 99.0 | 1.85786 | 2.42572 |

The SAS System

The UNIVARIATE Procedure Variable: Ppt

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 2.74486111 | Sum Observations | 98.815 |
| Std Deviation | 1.85635499 | Variance | 3.44605384 |
| Skewness | 0.63940643 | Kurtosis | -1.0521411 |
| Uncorrected SS | 391.845335 | Corrected SS | 120.611884 |
| Coeff Variation | 67.6301974 | Std Error Mean | 0.3093925 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | 2.744861 | Std Deviation | 1.85635 |
| Median | 1.851000 | Variance | 3.44605 |
| Mode | . | Range | 5.60000 |
| | | Interquartile Range | 3.25200 |

| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 8.871777 | Pr > t | <.0001 |
| Sign | M | 18 | Pr >= M | <.0001 |
| Signed Rank | S | 333 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Quantile | Estimate |
| 100% Max | 6.4100 |
| 99% | 6.4100 |
| 95% | 6.2680 |
| 90% | 5.5180 |
| 75% Q3 | 4.3385 |
| 50% Median | 1.8510 |
| 25% Q1 | 1.0865 |
| 10% | 0.8850 |
| 5% | 0.8460 |
| 1% | 0.8100 |
| 0% Min | 0.8100 |

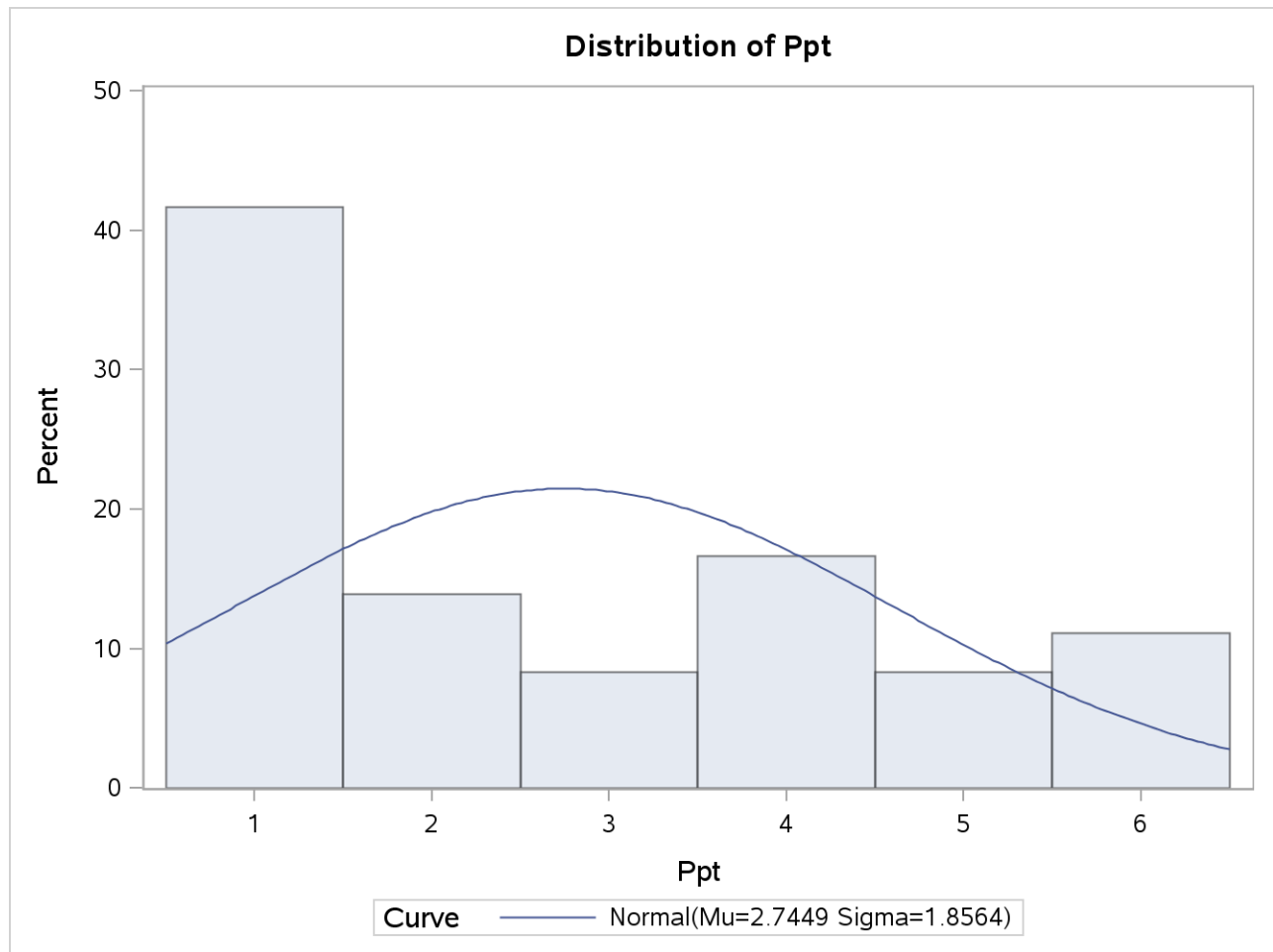
| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0.810 | 1 | 5.427 | 32 |
| 0.846 | 2 | 5.518 | 33 |
| 0.874 | 3 | 6.086 | 34 |

The SAS System**The UNIVARIATE Procedure
Variable: Ppt**

| Extreme Observations | | | |
|-------------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0.885 | 4 | 6.268 | 35 |
| 0.901 | 5 | 6.410 | 36 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Ppt

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 2.744861 |
| Std Dev | Sigma | 1.856355 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.21084221 | Pr > D | <0.010 |
| Cramer-von Mises | W-Sq | 0.32014300 | Pr > W-Sq | <0.005 |
| Anderson-Darling | A-Sq | 1.84130608 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | 0.81000 | -1.57367 |
| 5.0 | 0.84600 | -0.30857 |
| 10.0 | 0.88500 | 0.36585 |
| 25.0 | 1.08650 | 1.49277 |
| 50.0 | 1.85100 | 2.74486 |
| 75.0 | 4.33850 | 3.99695 |
| 90.0 | 5.51800 | 5.12388 |
| 95.0 | 6.26800 | 5.79829 |
| 99.0 | 6.41000 | 7.06339 |

The SAS System

The UNIVARIATE Procedure Variable: Ln_Pn

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | -0.3754351 | Sum Observations | -13.515663 |
| Std Deviation | 0.52796692 | Variance | 0.27874907 |
| Skewness | -0.0756213 | Kurtosis | -1.6269867 |
| Uncorrected SS | 14.830471 | Corrected SS | 9.75621732 |
| Coeff Variation | -140.62802 | Std Error Mean | 0.08799449 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | -0.37544 | Std Deviation | 0.52797 |
| Median | -0.36444 | Variance | 0.27875 |
| Mode | . | Range | 1.45559 |
| | | Interquartile Range | 1.00661 |

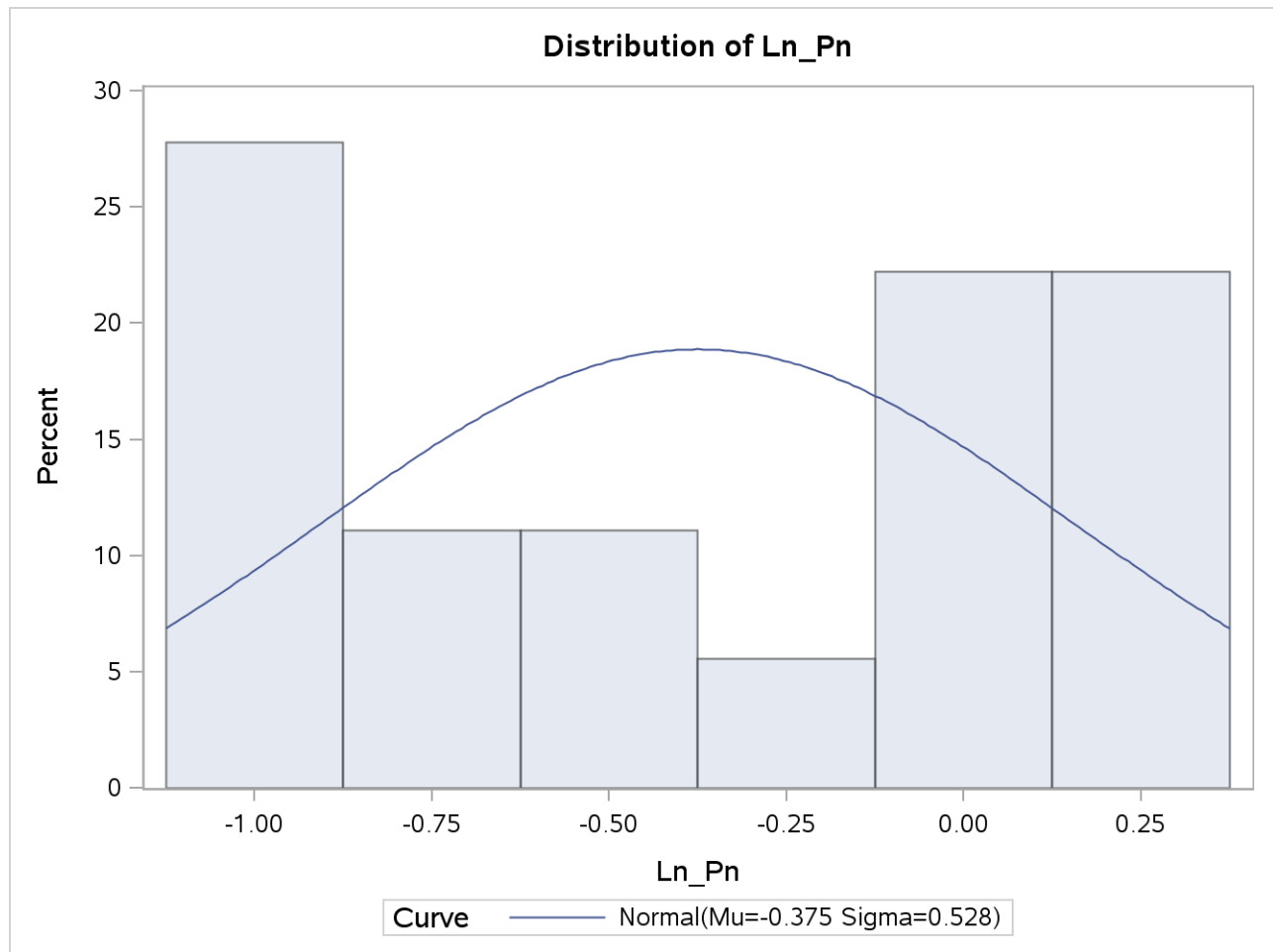
| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | -4.26657 | Pr > t | 0.0001 |
| Sign | M | -4.5 | Pr >= M | 0.1755 |
| Signed Rank | S | -196 | Pr >= S | 0.0006 |

| Quantiles (Definition 5) | |
|--------------------------|------------|
| Quantile | Estimate |
| 100% Max | 0.3499524 |
| 99% | 0.3499524 |
| 95% | 0.3336110 |
| 90% | 0.3060130 |
| 75% Q3 | 0.0887906 |
| 50% Median | -0.3644400 |
| 25% Q1 | -0.9178243 |
| 10% | -1.0700248 |
| 5% | -1.0936247 |
| 1% | -1.1056369 |
| 0% Min | -1.1056369 |

| Extreme Observations | | | |
|----------------------|-----|----------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| -1.10564 | 1 | 0.286682 | 32 |
| -1.09362 | 2 | 0.306013 | 33 |
| -1.08471 | 3 | 0.321359 | 34 |
| -1.07002 | 4 | 0.333611 | 35 |
| -1.05843 | 5 | 0.349952 | 36 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Ln_Pn

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | -0.37544 |
| Std Dev | Sigma | 0.527967 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.15928886 | Pr > D | 0.021 |
| Cramer-von Mises | W-Sq | 0.21212168 | Pr > W-Sq | <0.005 |
| Anderson-Darling | A-Sq | 1.38357259 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | -1.10564 | -1.60367 |
| 5.0 | -1.09362 | -1.24386 |
| 10.0 | -1.07002 | -1.05205 |
| 25.0 | -0.91782 | -0.73154 |
| 50.0 | -0.36444 | -0.37544 |
| 75.0 | 0.08879 | -0.01933 |
| 90.0 | 0.30601 | 0.30118 |
| 95.0 | 0.33361 | 0.49299 |
| 99.0 | 0.34995 | 0.85280 |

The SAS System

The UNIVARIATE Procedure Variable: Pn

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 0.78191667 | Sum Observations | 28.149 |
| Std Deviation | 0.38487685 | Variance | 0.14813019 |
| Skewness | 0.28090388 | Kurtosis | -1.4694765 |
| Uncorrected SS | 27.194729 | Corrected SS | 5.18455675 |
| Coeff Variation | 49.2222344 | Std Error Mean | 0.06414614 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | 0.781917 | Std Deviation | 0.38488 |
| Median | 0.695000 | Variance | 0.14813 |
| Mode | . | Range | 1.08800 |
| | | Interquartile Range | 0.69350 |

| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 12.18961 | Pr > t | <.0001 |
| Sign | M | 18 | Pr >= M | <.0001 |
| Signed Rank | S | 333 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Quantile | Estimate |
| 100% Max | 1.4190 |
| 99% | 1.4190 |
| 95% | 1.3960 |
| 90% | 1.3580 |
| 75% Q3 | 1.0930 |
| 50% Median | 0.6950 |
| 25% Q1 | 0.3995 |
| 10% | 0.3430 |
| 5% | 0.3350 |
| 1% | 0.3310 |
| 0% Min | 0.3310 |

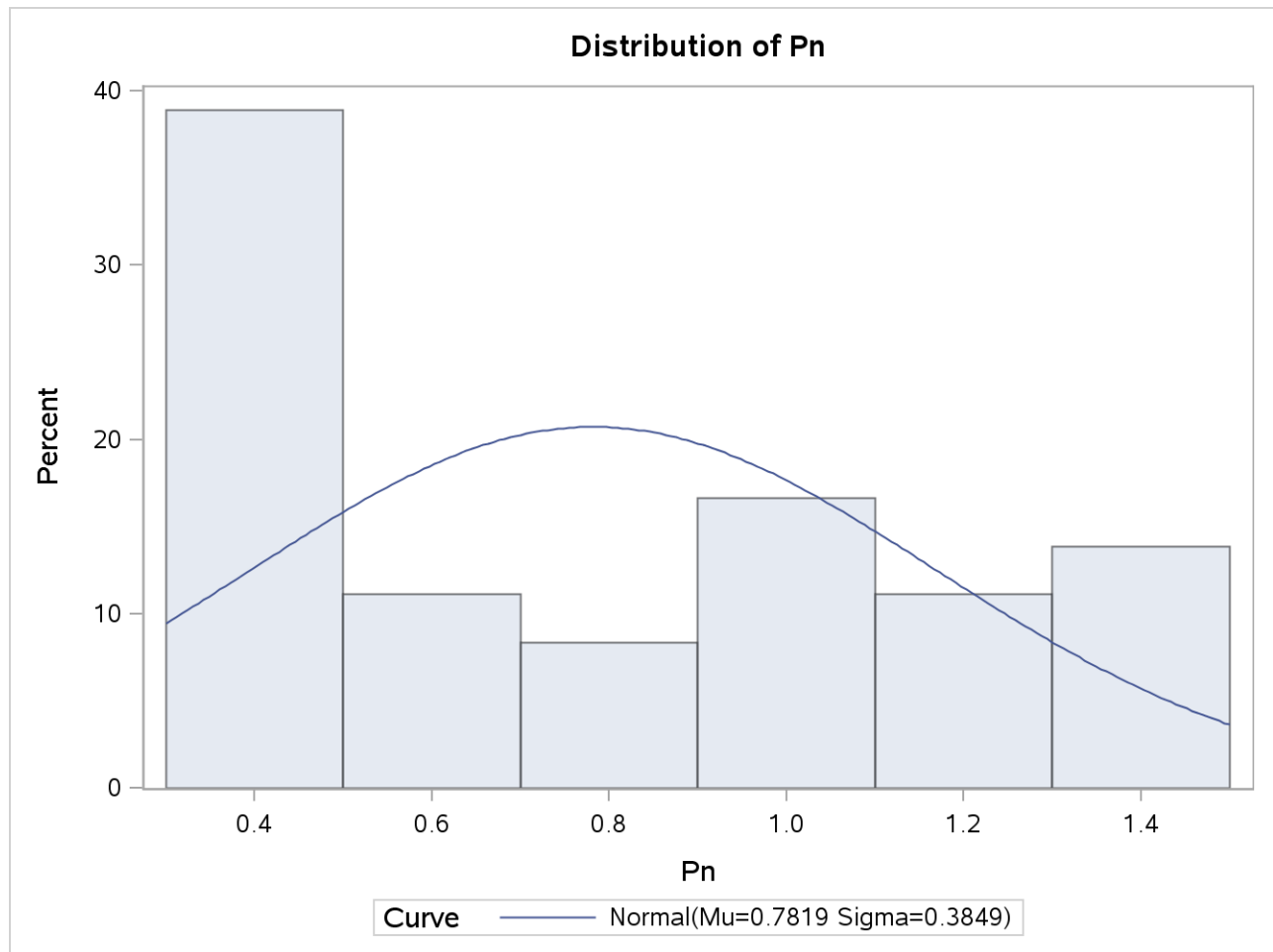
| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0.331 | 1 | 1.332 | 32 |
| 0.335 | 2 | 1.358 | 33 |
| 0.338 | 3 | 1.379 | 34 |

The SAS System**The UNIVARIATE Procedure**
Variable: Pn

| Extreme Observations | | | |
|---------------------------------|------------|----------------|------------|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0.343 | 4 | 1.396 | 35 |
| 0.347 | 5 | 1.419 | 36 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Pn

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 0.781917 |
| Std Dev | Sigma | 0.384877 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.16110830 | Pr > D | 0.019 |
| Cramer-von Mises | W-Sq | 0.21820426 | Pr > W-Sq | <0.005 |
| Anderson-Darling | A-Sq | 1.40179387 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | 0.33100 | -0.11344 |
| 5.0 | 0.33500 | 0.14885 |
| 10.0 | 0.34300 | 0.28868 |
| 25.0 | 0.39950 | 0.52232 |
| 50.0 | 0.69500 | 0.78192 |
| 75.0 | 1.09300 | 1.04151 |
| 90.0 | 1.35800 | 1.27516 |
| 95.0 | 1.39600 | 1.41498 |
| 99.0 | 1.41900 | 1.67727 |

The SAS System

The UNIVARIATE Procedure
Variable: Ln_Pd

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | -0.2943132 | Sum Observations | -10.595277 |
| Std Deviation | 0.37769397 | Variance | 0.14265273 |
| Skewness | -0.0473695 | Kurtosis | -1.7186798 |
| Uncorrected SS | 8.11117607 | Corrected SS | 4.99284566 |
| Coeff Variation | -128.3306 | Std Error Mean | 0.06294899 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | -0.29431 | Std Deviation | 0.37769 |
| Median | -0.29075 | Variance | 0.14265 |
| Mode | . | Range | 1.02624 |
| | | Interquartile Range | 0.74495 |

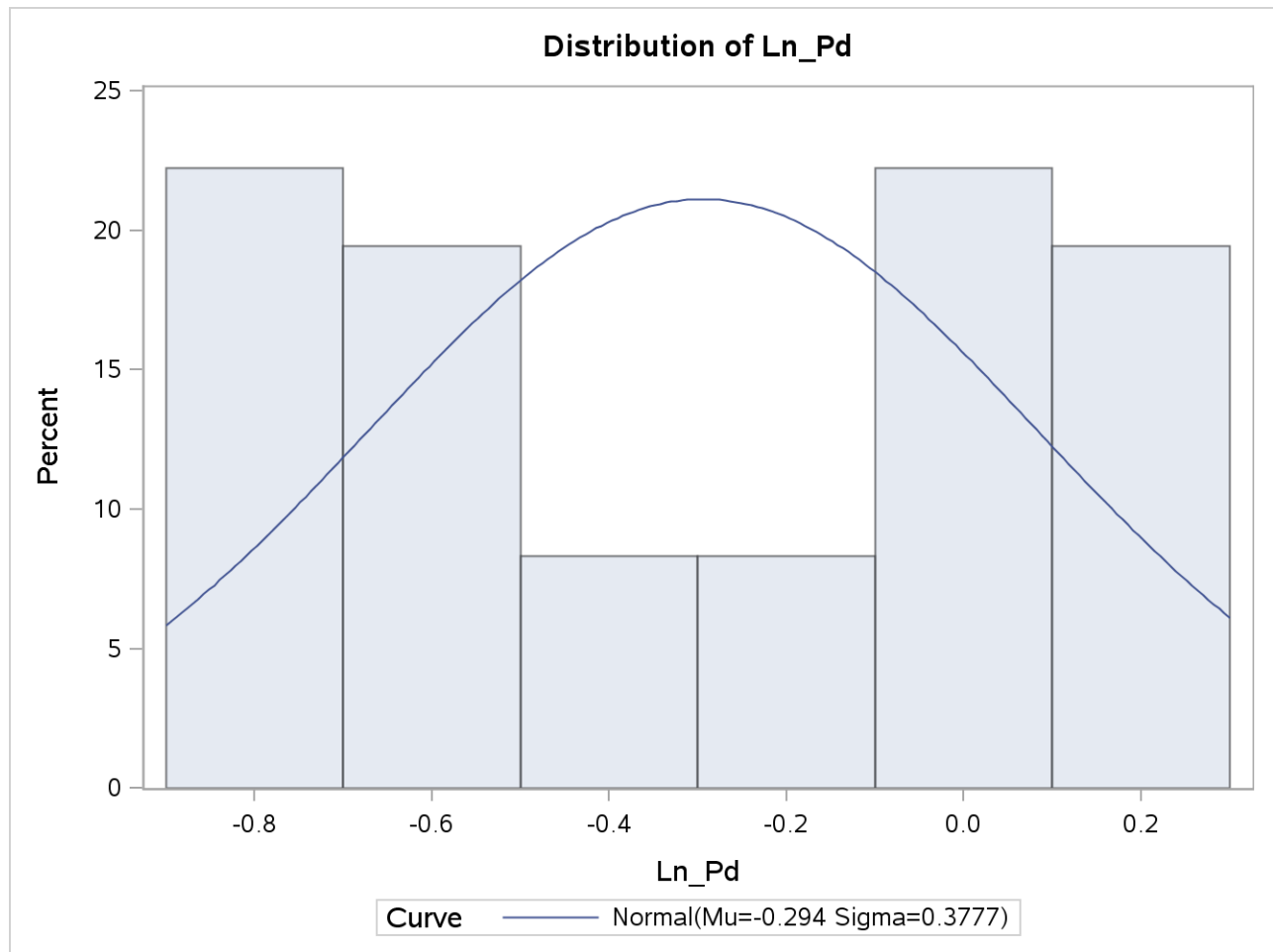
| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | -4.67542 | Pr > t | <.0001 |
| Sign | M | -4.5 | Pr >= M | 0.1755 |
| Signed Rank | S | -204 | Pr >= S | 0.0003 |

| Quantiles (Definition 5) | |
|--------------------------|------------|
| Quantile | Estimate |
| 100% Max | 0.2143046 |
| 99% | 0.2143046 |
| 95% | 0.2029408 |
| 90% | 0.1688985 |
| 75% Q3 | 0.0666116 |
| 50% Median | -0.2907466 |
| 25% Q1 | -0.6783406 |
| 10% | -0.7700282 |
| 5% | -0.8029620 |
| 1% | -0.8119307 |
| 0% Min | -0.8119307 |

| Extreme Observations | | | |
|----------------------|-----|----------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| -0.811931 | 1 | 0.154436 | 32 |
| -0.802962 | 2 | 0.168899 | 33 |
| -0.783072 | 3 | 0.182322 | 34 |
| -0.770028 | 4 | 0.202941 | 35 |
| -0.755023 | 5 | 0.214305 | 36 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Ln_Pd

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | -0.29431 |
| Std Dev | Sigma | 0.377694 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.17113475 | Pr > D | <0.010 |
| Cramer-von Mises | W-Sq | 0.26695247 | Pr > W-Sq | <0.005 |
| Anderson-Darling | A-Sq | 1.70318524 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | -0.81193 | -1.17296 |
| 5.0 | -0.80296 | -0.91556 |
| 10.0 | -0.77003 | -0.77835 |
| 25.0 | -0.67834 | -0.54906 |
| 50.0 | -0.29075 | -0.29431 |
| 75.0 | 0.06661 | -0.03956 |
| 90.0 | 0.16890 | 0.18972 |
| 95.0 | 0.20294 | 0.32694 |
| 99.0 | 0.21430 | 0.58433 |

The SAS System

The UNIVARIATE Procedure Variable: Pd

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 0.79722222 | Sum Observations | 28.7 |
| Std Deviation | 0.28951162 | Variance | 0.08381698 |
| Skewness | 0.15404777 | Kurtosis | -1.6823008 |
| Uncorrected SS | 25.813872 | Corrected SS | 2.93359422 |
| Coeff Variation | 36.3150463 | Std Error Mean | 0.04825194 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | 0.797222 | Std Deviation | 0.28951 |
| Median | 0.748000 | Variance | 0.08382 |
| Mode | . | Range | 0.79500 |
| | | Interquartile Range | 0.56150 |

| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 16.52208 | Pr > t | <.0001 |
| Sign | M | 18 | Pr >= M | <.0001 |
| Signed Rank | S | 333 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Quantile | Estimate |
| 100% Max | 1.2390 |
| 99% | 1.2390 |
| 95% | 1.2250 |
| 90% | 1.1840 |
| 75% Q3 | 1.0690 |
| 50% Median | 0.7480 |
| 25% Q1 | 0.5075 |
| 10% | 0.4630 |
| 5% | 0.4480 |
| 1% | 0.4440 |
| 0% Min | 0.4440 |

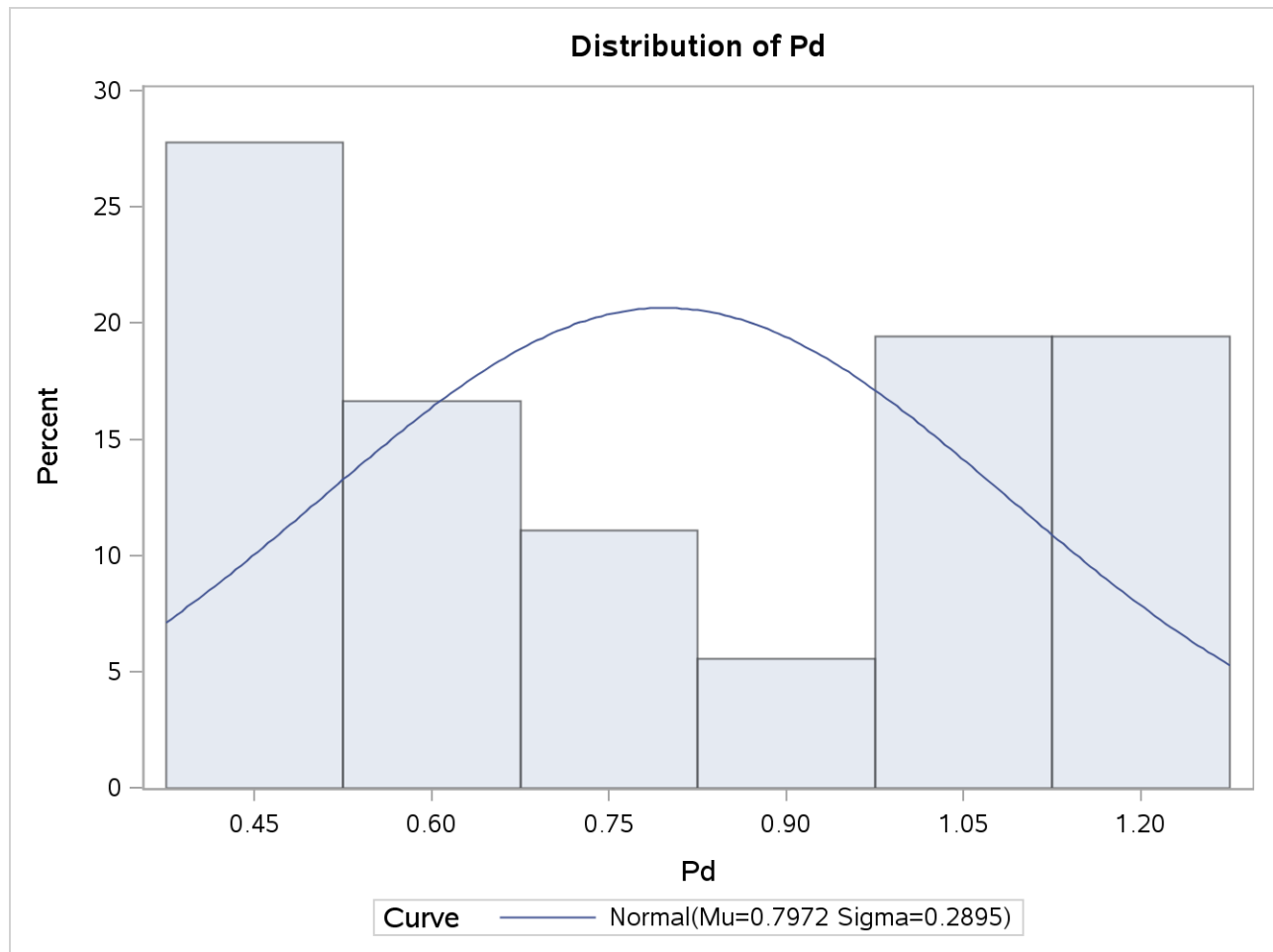
| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0.444 | 1 | 1.167 | 32 |
| 0.448 | 2 | 1.184 | 33 |
| 0.457 | 3 | 1.200 | 34 |

The SAS System**The UNIVARIATE Procedure**
Variable: Pd

| Extreme Observations | | | |
|---------------------------------|------------|----------------|------------|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0.463 | 4 | 1.225 | 35 |
| 0.470 | 5 | 1.239 | 36 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Pd

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 0.797222 |
| Std Dev | Sigma | 0.289512 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.17664597 | Pr > D | <0.010 |
| Cramer-von Mises | W-Sq | 0.27853489 | Pr > W-Sq | <0.005 |
| Anderson-Darling | A-Sq | 1.73716020 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | 0.44400 | 0.12372 |
| 5.0 | 0.44800 | 0.32102 |
| 10.0 | 0.46300 | 0.42620 |
| 25.0 | 0.50750 | 0.60195 |
| 50.0 | 0.74800 | 0.79722 |
| 75.0 | 1.06900 | 0.99249 |
| 90.0 | 1.18400 | 1.16825 |
| 95.0 | 1.22500 | 1.27343 |
| 99.0 | 1.23900 | 1.47073 |

The SAS System

The UNIVARIATE Procedure Variable: Ln_Ps

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | -0.3602393 | Sum Observations | -12.968615 |
| Std Deviation | 0.61989335 | Variance | 0.38426776 |
| Skewness | 0.08348977 | Kurtosis | -1.5557055 |
| Uncorrected SS | 18.1211766 | Corrected SS | 13.4493716 |
| Coeff Variation | -172.07821 | Std Error Mean | 0.10331556 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | -0.36024 | Std Deviation | 0.61989 |
| Median | -0.39670 | Variance | 0.38427 |
| Mode | . | Range | 1.77731 |
| | | Interquartile Range | 1.19676 |

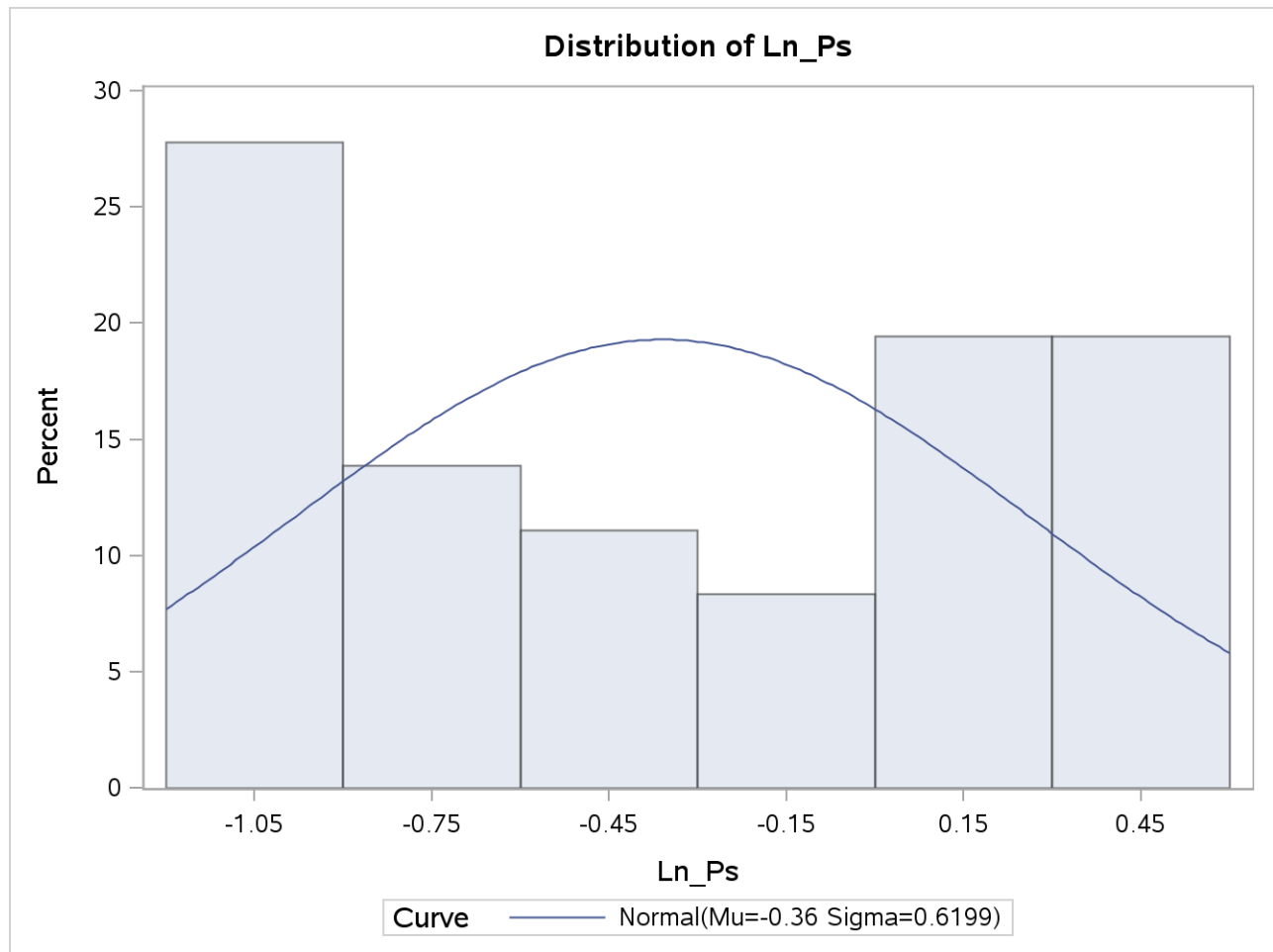
| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | -3.48679 | Pr > t | 0.0013 |
| Sign | M | -4.5 | Pr >= M | 0.1755 |
| Signed Rank | S | -180 | Pr >= S | 0.0020 |

| Quantiles (Definition 5) | |
|--------------------------|-----------|
| Quantile | Estimate |
| 100% Max | 0.579978 |
| 99% | 0.579978 |
| 95% | 0.550431 |
| 90% | 0.485508 |
| 75% Q3 | 0.220964 |
| 50% Median | -0.396700 |
| 25% Q1 | -0.975795 |
| 10% | -1.139434 |
| 5% | -1.180908 |
| 1% | -1.197328 |
| 0% Min | -1.197328 |

| Extreme Observations | | | |
|----------------------|-----|----------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| -1.19733 | 1 | 0.442761 | 32 |
| -1.18091 | 2 | 0.485508 | 33 |
| -1.15836 | 3 | 0.521172 | 34 |
| -1.13943 | 4 | 0.550431 | 35 |
| -1.12393 | 5 | 0.579978 | 36 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Ln_Ps

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | -0.36024 |
| Std Dev | Sigma | 0.619893 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.12230763 | Pr > D | >0.150 |
| Cramer-von Mises | W-Sq | 0.16751215 | Pr > W-Sq | 0.014 |
| Anderson-Darling | A-Sq | 1.11369794 | Pr > A-Sq | 0.006 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | -1.19733 | -1.80233 |
| 5.0 | -1.18091 | -1.37987 |
| 10.0 | -1.13943 | -1.15466 |
| 25.0 | -0.97580 | -0.77835 |
| 50.0 | -0.39670 | -0.36024 |
| 75.0 | 0.22096 | 0.05787 |
| 90.0 | 0.48551 | 0.43419 |
| 95.0 | 0.55043 | 0.65939 |
| 99.0 | 0.57998 | 1.08185 |

The SAS System

The UNIVARIATE Procedure Variable: Ps

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 0.83625 | Sum Observations | 30.105 |
| Std Deviation | 0.49651548 | Variance | 0.24652762 |
| Skewness | 0.55691754 | Kurtosis | -1.1410274 |
| Uncorrected SS | 33.803773 | Corrected SS | 8.62846675 |
| Coeff Variation | 59.3740484 | Std Error Mean | 0.08275258 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|---------|
| Location | | Variability | |
| Mean | 0.836250 | Std Deviation | 0.49652 |
| Median | 0.673000 | Variance | 0.24653 |
| Mode | . | Range | 1.48400 |
| | | Interquartile Range | 0.87050 |

| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 10.10543 | Pr > t | <.0001 |
| Sign | M | 18 | Pr >= M | <.0001 |
| Signed Rank | S | 333 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Quantile | Estimate |
| 100% Max | 1.7860 |
| 99% | 1.7860 |
| 95% | 1.7340 |
| 90% | 1.6250 |
| 75% Q3 | 1.2475 |
| 50% Median | 0.6730 |
| 25% Q1 | 0.3770 |
| 10% | 0.3200 |
| 5% | 0.3070 |
| 1% | 0.3020 |
| 0% Min | 0.3020 |

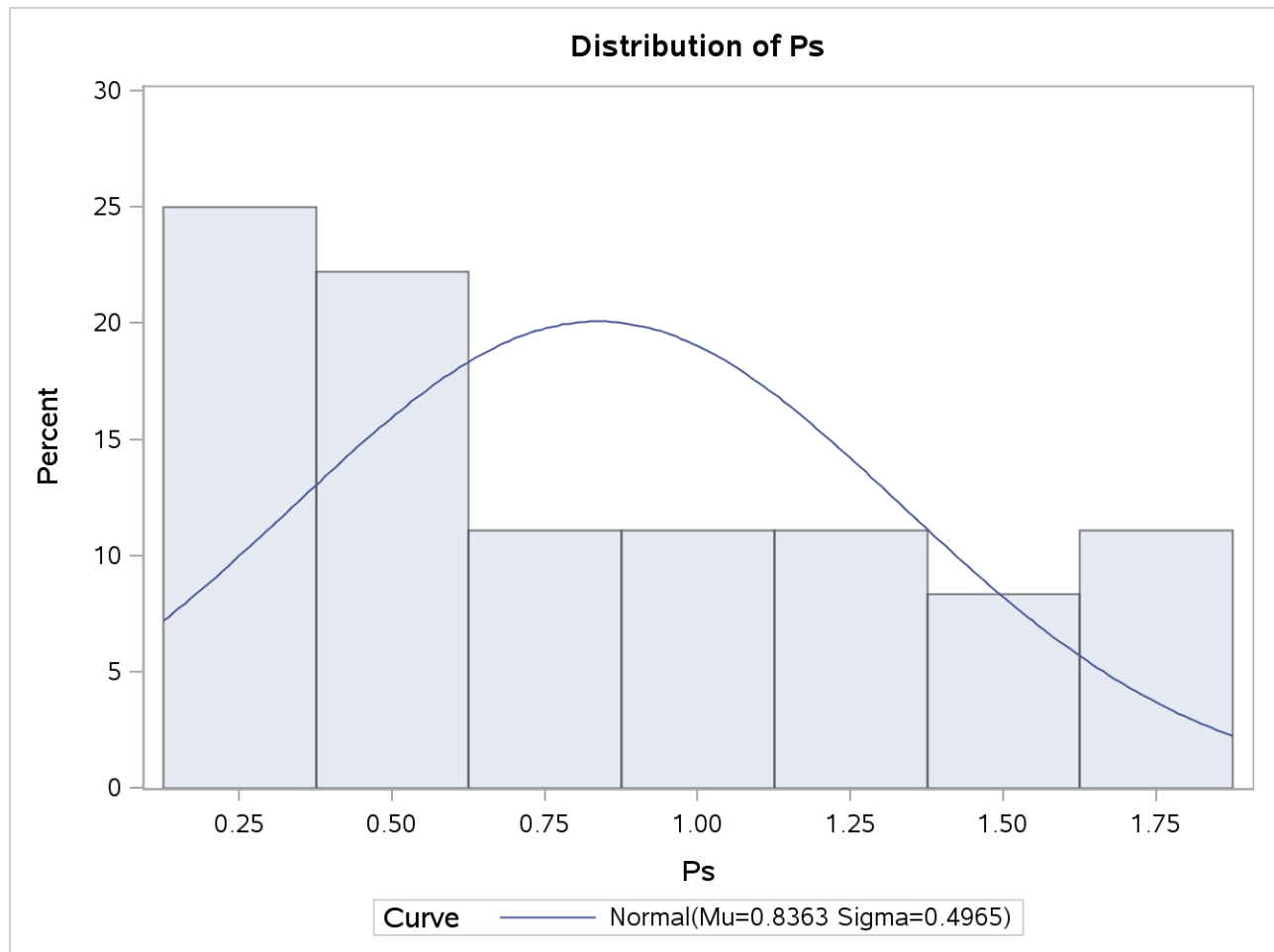
| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0.302 | 1 | 1.557 | 32 |
| 0.307 | 2 | 1.625 | 33 |
| 0.314 | 3 | 1.684 | 34 |

The SAS System**The UNIVARIATE Procedure**
Variable: Ps

| Extreme Observations | | | |
|---------------------------------|------------|----------------|------------|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 0.320 | 4 | 1.734 | 35 |
| 0.325 | 5 | 1.786 | 36 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for Ps

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 0.83625 |
| Std Dev | Sigma | 0.496515 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.15915540 | Pr > D | 0.021 |
| Cramer-von Mises | W-Sq | 0.24366559 | Pr > W-Sq | <0.005 |
| Anderson-Darling | A-Sq | 1.51347441 | Pr > A-Sq | <0.005 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | 0.30200 | -0.31882 |
| 5.0 | 0.30700 | 0.01955 |
| 10.0 | 0.32000 | 0.19994 |
| 25.0 | 0.37700 | 0.50136 |
| 50.0 | 0.67300 | 0.83625 |
| 75.0 | 1.24750 | 1.17114 |
| 90.0 | 1.62500 | 1.47256 |
| 95.0 | 1.73400 | 1.65295 |
| 99.0 | 1.78600 | 1.99132 |

The SAS System

The UNIVARIATE Procedure Variable: t

| Moments | | | |
|------------------------|------------|-------------------------|------------|
| N | 36 | Sum Weights | 36 |
| Mean | 18.5 | Sum Observations | 666 |
| Std Deviation | 10.5356538 | Variance | 111 |
| Skewness | 0 | Kurtosis | -1.2 |
| Uncorrected SS | 16206 | Corrected SS | 3885 |
| Coeff Variation | 56.9494797 | Std Error Mean | 1.75594229 |

| Basic Statistical Measures | | | |
|----------------------------|----------|----------------------------|-----------|
| Location | | Variability | |
| Mean | 18.50000 | Std Deviation | 10.53565 |
| Median | 18.50000 | Variance | 111.00000 |
| Mode | . | Range | 35.00000 |
| | | Interquartile Range | 18.00000 |

| Tests for Location: Mu0=0 | | | | |
|---------------------------|-----------|----------|---------------------|--------|
| Test | Statistic | | p Value | |
| Student's t | t | 10.53565 | Pr > t | <.0001 |
| Sign | M | 18 | Pr >= M | <.0001 |
| Signed Rank | S | 333 | Pr >= S | <.0001 |

| Quantiles (Definition 5) | |
|--------------------------|----------|
| Quantile | Estimate |
| 100% Max | 36.0 |
| 99% | 36.0 |
| 95% | 35.0 |
| 90% | 33.0 |
| 75% Q3 | 27.5 |
| 50% Median | 18.5 |
| 25% Q1 | 9.5 |
| 10% | 4.0 |
| 5% | 2.0 |
| 1% | 1.0 |
| 0% Min | 1.0 |

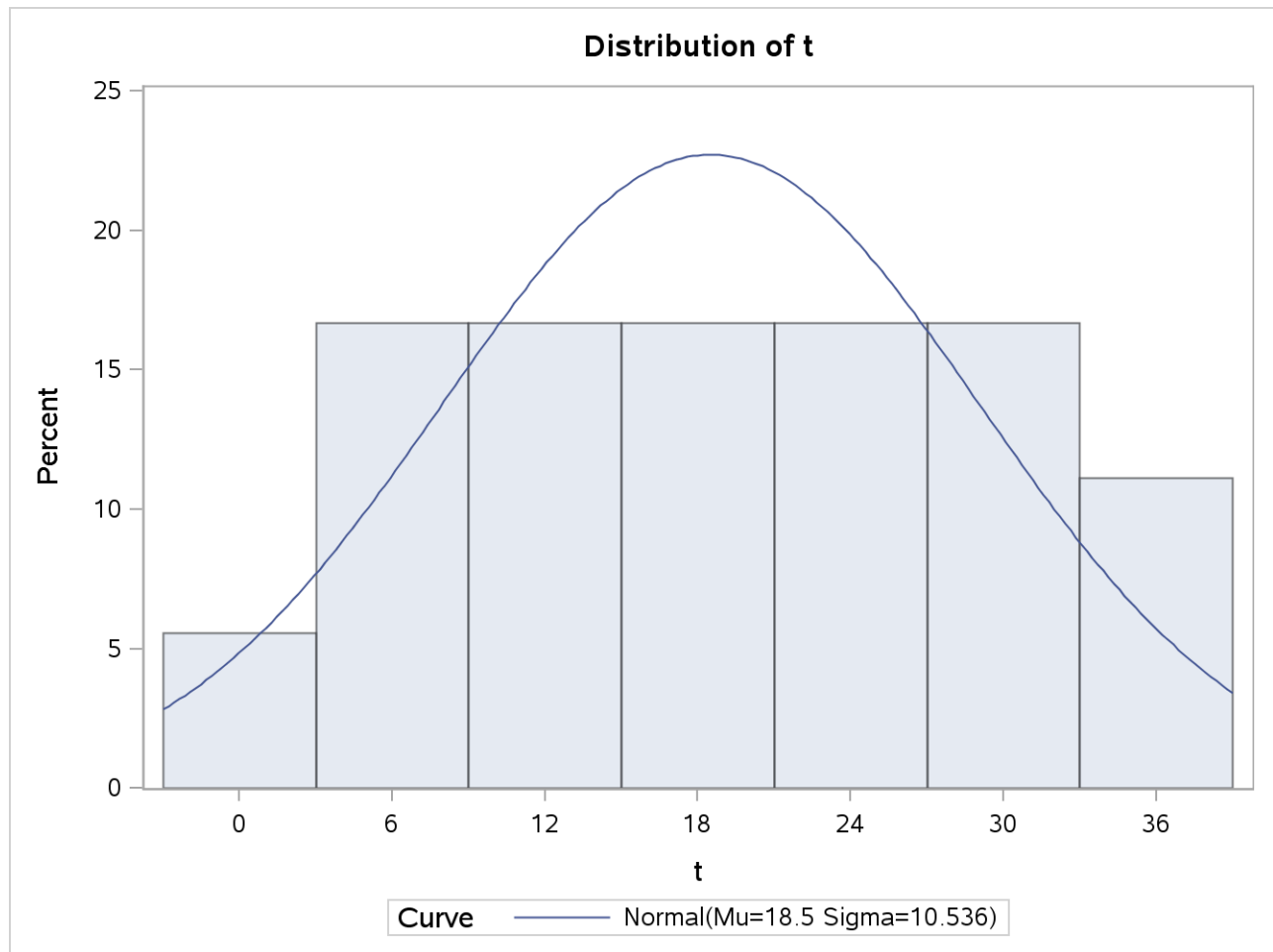
| Extreme Observations | | | |
|----------------------|-----|---------|-----|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 1 | 1 | 32 | 32 |
| 2 | 2 | 33 | 33 |
| 3 | 3 | 34 | 34 |

The SAS System**The UNIVARIATE Procedure**
Variable: t

| Extreme Observations | | | |
|---------------------------------|------------|----------------|------------|
| Lowest | | Highest | |
| Value | Obs | Value | Obs |
| 4 | 4 | 35 | 35 |
| 5 | 5 | 36 | 36 |

The SAS System

The UNIVARIATE Procedure



The SAS System

The UNIVARIATE Procedure Fitted Normal Distribution for t

| Parameters for Normal Distribution | | |
|------------------------------------|--------|----------|
| Parameter | Symbol | Estimate |
| Mean | Mu | 18.5 |
| Std Dev | Sigma | 10.53565 |

| Goodness-of-Fit Tests for Normal Distribution | | | | |
|---|-----------|------------|-----------|--------|
| Test | Statistic | | p Value | |
| Kolmogorov-Smirnov | D | 0.06788239 | Pr > D | >0.150 |
| Cramer-von Mises | W-Sq | 0.05140437 | Pr > W-Sq | >0.250 |
| Anderson-Darling | A-Sq | 0.38403292 | Pr > A-Sq | >0.250 |

| Quantiles for Normal Distribution | | |
|-----------------------------------|----------|-----------|
| Percent | Quantile | |
| | Observed | Estimated |
| 1.0 | 1.00000 | -6.00960 |
| 5.0 | 2.00000 | 1.17039 |
| 10.0 | 4.00000 | 4.99802 |
| 25.0 | 9.50000 | 11.39381 |
| 50.0 | 18.50000 | 18.50000 |
| 75.0 | 27.50000 | 25.60619 |
| 90.0 | 33.00000 | 32.00198 |
| 95.0 | 35.00000 | 35.82961 |
| 99.0 | 36.00000 | 43.00960 |