

Data File C:\Documents and Settings\acardenas\My Dc Variable: Sindicato

Raw Statistics		Normal Distribution Test	
Number of Valid Samples	170	Lilliefors Test Statistic	0.142695
Number of Unique Samples	116	Lilliefors 5% Critical Value	0.067953
Minimum	0.011	Data not normal at 5% significance level	
Maximum	0.651		
Mean	0.119447	95% UCL (Assuming Normal Distribution)	
Median	0.095	Student's-t UCL	0.132324
Standard Deviation	0.101515		
Variance	0.010305		
Coefficient of Variation	0.849871		
Skewness	1.792754		
Gamma Statistics		Gamma Distribution Test	
k hat	1.474167	A-D Test Statistic	0.473402
k star (bias corrected)	1.452074	A-D 5% Critical Value	0.771538
Theta hat	0.081027	K-S Test Statistic	0.057363
Theta star	0.08226	K-S 5% Critical Value	0.07276
nu hat	501.2168	Data follow gamma distribution	
nu star	493.7051	at 5% significance level	
Approx.Chi Square Value (.05)	443.17		
Adjusted Level of Significance	0.048588	95% UCLs (Assuming Gamma Distribution)	
Adjusted Chi Square Value	442.7653	Approximate Gamma UCL	0.133068
		Adjusted Gamma UCL	0.133189
Log-transformed Statistics		Lognormal Distribution Test	
Minimum of log data	-4.50986	Lilliefors Test Statistic	0.072079
Maximum of log data	-0.429246	Lilliefors 5% Critical Value	0.067953
Mean of log data	-2.500915	Data not lognormal at 5% significance level	
Standard Deviation of log data	0.941702		
Variance of log data	0.886802	95% UCLs (Assuming Lognormal Distribution)	
		95% H-UCL	0.148842
		95% Chebyshev (MVUE) UCL	0.174909
		97.5% Chebyshev (MVUE) UCL	0.195512
		99% Chebyshev (MVUE) UCL	0.235982
95% Non-parametric UCLs			
RECOMMENDATION		CLT UCL	0.132254
Data follow gamma distribution (0.05)		Adj-CLT UCL (Adjusted for skewness)	0.133397
Use Approximate Gamma UCL		Mod-t UCL (Adjusted for skewness)	0.132503
		Jackknife UCL	0.132324
		Standard Bootstrap UCL	0.132105
		Bootstrap-t UCL	0.134064
		Hall's Bootstrap UCL	0.134075
		Percentile Bootstrap UCL	0.132812
		BCA Bootstrap UCL	0.134282
		95% Chebyshev (Mean, Sd) UCL	0.153385
		97.5% Chebyshev (Mean, Sd) UCL	0.168069
		99% Chebyshev (Mean, Sd) UCL	0.196915

Data File C:\Documents and Settings\acardenas\My Dc Variable: Huanchán

Raw Statistics		Normal Distribution Test	
Number of Valid Samples	172	Lilliefors Test Statistic	0.157048
Number of Unique Samples	148	Lilliefors 5% Critical Value	0.067557
Minimum	0	Data not normal at 5% significance level	
Maximum	2.014		
Mean	0.290878	95% UCL (Assuming Normal Distribution)	
Median	0.1965	Student's-t UCL	0.32679
Standard Deviation	0.284787		
Variance	0.081104		
Coefficient of Variation	0.97906		
Skewness	2.403243		

Gamma Statistics Not Available

Lognormal Statistics Not Available

RECOMMENDATION
Data are Non-parametric (0.05)
Use 95% Chebyshev (Mean, Sd) UCL

95% Non-parametric UCLs	
CLT UCL	0.326596
Adj-CLT UCL (Adjusted for skewness)	0.330847
Mod-t UCL (Adjusted for skewness)	0.327453
Jackknife UCL	0.32679
Standard Bootstrap UCL	0.32713
Bootstrap-t UCL	0.329688
Hall's Bootstrap UCL	0.334923
Percentile Bootstrap UCL	0.327948
BCA Bootstrap UCL	0.33257
95% Chebyshev (Mean, Sd) UCL	0.38553
97.5% Chebyshev (Mean, Sd) UCL	0.426487
99% Chebyshev (Mean, Sd) UCL	0.506937

Data File C:\Documents and Settings\acardenas\My Dc Variable: Hotel Inca

Raw Statistics		Normal Distribution Test	
Number of Valid Samples	172	Lilliefors Test Statistic	0.146896
Number of Unique Samples	104	Lilliefors 5% Critical Value	0.067557
Minimum	0	Data not normal at 5% significance level	
Maximum	0.328		
Mean	0.082256	95% UCL (Assuming Normal Distribution)	
Median	0.059	Student's-t UCL	0.090811
Standard Deviation	0.067845		
Variance	0.004603		
Coefficient of Variation	0.824802		
Skewness	1.143572		

Gamma Statistics Not Available

Lognormal Statistics Not Available

RECOMMENDATION
Data are Non-parametric (0.05)

Use 95% Chebyshev (Mean, Sd) UCL

95% Non-parametric UCLs	
CLT UCL	0.090765
Adj-CLT UCL (Adjusted for skewness)	0.091247
Mod-t UCL (Adjusted for skewness)	0.090886
Jackknife UCL	0.090811
Standard Bootstrap UCL	0.090865
Bootstrap-t UCL	0.09169
Hall's Bootstrap UCL	0.091153
Percentile Bootstrap UCL	0.091209
BCA Bootstrap UCL	0.091047
95% Chebyshev (Mean, Sd) UCL	0.104805
97.5% Chebyshev (Mean, Sd) UCL	0.114562
99% Chebyshev (Mean, Sd) UCL	0.133728

Data File C:\Documents and Settings\acardenas\My Dc Variable: Cushurupampa

Raw Statistics	Normal Distribution Test
Number of Valid Samples	Lilliefors Test Statistic 0.170643
Number of Unique Samples	Lilliefors 5% Critical Value 0.067557
Minimum	Data not normal at 5% significance level
Maximum	95% UCL (Assuming Normal Distribution)
Mean	Student's-t UCL 0.064943
Median	0.043
Standard Deviation	0.049526
Variance	0.002453
Coefficient of Variation	0.843755
Skewness	1.751145

Gamma Statistics Not Available

Lognormal Statistics Not Available

RECOMMENDATION
Data are Non-parametric (0.05)

Use 95% Chebyshev (Mean, Sd) UCL

95% Non-parametric UCLs
CLT UCL 0.064909
Adj-CLT UCL (Adjusted for skewness) 0.065448
Mod-t UCL (Adjusted for skewness) 0.065027
Jackknife UCL 0.064943
Standard Bootstrap UCL 0.064759
Bootstrap-t UCL 0.065406
Hall's Bootstrap UCL 0.065476
Percentile Bootstrap UCL 0.065047
BCA Bootstrap UCL 0.065349
95% Chebyshev (Mean, Sd) UCL 0.075158
97.5% Chebyshev (Mean, Sd) UCL 0.082281
99% Chebyshev (Mean, Sd) UCL 0.096272

Data File C:\Documents and Settings\acardenas\My Dc Variable: Casaracra

Raw Statistics		Normal Distribution Test	
Number of Valid Samples	172	Lilliefors Test Statistic	0.307449
Number of Unique Samples	41	Lilliefors 5% Critical Value	0.067557
Minimum	0	Data not normal at 5% significance level	
Maximum	0.168		
Mean	0.022442	95% UCL (Assuming Normal Distribution)	
Median	0.011	Student's-t UCL	0.026158
Standard Deviation	0.029469		
Variance	0.000868		
Coefficient of Variation	1.313119		
Skewness	3.096432		

Gamma Statistics Not Available

Lognormal Statistics Not Available

RECOMMENDATION
Data are Non-parametric (0.05)
Use 95% Chebyshev (Mean, Sd) UCL

95% Non-parametric UCLs	
CLT UCL	0.026138
Adj-CLT UCL (Adjusted for skewness)	0.026705
Mod-t UCL (Adjusted for skewness)	0.026246
Jackknife UCL	0.026158
Standard Bootstrap UCL	0.026164
Bootstrap-t UCL	0.026901
Hall's Bootstrap UCL	0.026696
Percentile Bootstrap UCL	0.026233
BCA Bootstrap UCL	0.026797
95% Chebyshev (Mean, Sd) UCL	0.032236
97.5% Chebyshev (Mean, Sd) UCL	0.036474
99% Chebyshev (Mean, Sd) UCL	0.044799

Data File C:\Documents and Settings\acardenas\My Dc Variable: Sindicato

Raw Statistics		Normal Distribution Test	
Number of Valid Samples	170	Lilliefors Test Statistic	0.140429
Number of Unique Samples	166	Lilliefors 5% Critical Value	0.067953
Minimum	0.106	Data not normal at 5% significance level	
Maximum	20.501		
Mean	2.667835	95% UCL (Assuming Normal Distribution)	
Median	2.0225	Student's-t UCL	2.96918
Standard Deviation	2.375601		
Variance	5.643481		
Coefficient of Variation	0.89046		
Skewness	3.069023		
Gamma Statistics		Gamma Distribution Test	
k hat	1.523768	A-D Test Statistic	0.298185
k star (bias corrected)	1.5008	A-D 5% Critical Value	0.770647
Theta hat	1.750814	K-S Test Statistic	0.034024
Theta star	1.777609	K-S 5% Critical Value	0.072702
nu hat	518.0813	Data follow gamma distribution	
nu star	510.272	at 5% significance level	
Approx.Chi Square Value (.05)	458.8763		
Adjusted Level of Significance	0.048588	95% UCLs (Assuming Gamma Distribution)	
Adjusted Chi Square Value	458.4643	Approximate Gamma UCL	2.966642
		Adjusted Gamma UCL	2.969308
Log-transformed Statistics		Lognormal Distribution Test	
Minimum of log data	-2.244316	Lilliefors Test Statistic	0.079188
Maximum of log data	3.020474	Lilliefors 5% Critical Value	0.067953
Mean of log data	0.618559	Data not lognormal at 5% significance level	
Standard Deviation of log data	0.93791		
Variance of log data	0.879675	95% UCLs (Assuming Lognormal Distribution)	
		95% H-UCL	3.354155
		95% Chebyshev (MVUE) UCL	3.939501
		97.5% Chebyshev (MVUE) UCL	4.401795
		99% Chebyshev (MVUE) UCL	5.309882
95% Non-parametric UCLs			
RECOMMENDATION		CLT UCL	2.967528
Data follow gamma distribution (0.05)		Adj-CLT UCL (Adjusted for skewness)	3.013353
Use Approximate Gamma UCL		Mod-t UCL (Adjusted for skewness)	2.976328
		Jackknife UCL	2.96918
		Standard Bootstrap UCL	2.963193
		Bootstrap-t UCL	3.029949
		Hall's Bootstrap UCL	3.059786
		Percentile Bootstrap UCL	2.9748
		BCA Bootstrap UCL	3.023612
		95% Chebyshev (Mean, Sd) UCL	3.462028
		97.5% Chebyshev (Mean, Sd) UCL	3.805676
		99% Chebyshev (Mean, Sd) UCL	4.480705

Data File C:\Documents and Settings\acardenas\My Dc Variable: Huanchán

Raw Statistics		Normal Distribution Test	
Number of Valid Samples	172	Lilliefors Test Statistic	0.1257
Number of Unique Samples	169	Lilliefors 5% Critical Value	0.067557
Minimum	0	Data not normal at 5% significance level	
Maximum	19.364	95% UCL (Assuming Normal Distribution)	
Mean	4.164314	Student's-t UCL	4.590162
Median	3.5555		
Standard Deviation	3.377009		
Variance	11.40419		
Coefficient of Variation	0.81094		
Skewness	1.593253		

Gamma Statistics Not Available

Lognormal Statistics Not Available

RECOMMENDATION
Data are Non-parametric (0.05)

Use 95% Chebyshev (Mean, Sd) UCL

95% Non-parametric UCLs	
CLT UCL	4.587855
Adj-CLT UCL (Adjusted for skewness)	4.62128
Mod-t UCL (Adjusted for skewness)	4.595375
Jackknife UCL	4.590162
Standard Bootstrap UCL	4.589413
Bootstrap-t UCL	4.602016
Hall's Bootstrap UCL	4.630311
Percentile Bootstrap UCL	4.57668
BCA Bootstrap UCL	4.628529
95% Chebyshev (Mean, Sd) UCL	5.286707
97.5% Chebyshev (Mean, Sd) UCL	5.772367
99% Chebyshev (Mean, Sd) UCL	6.726352

Data File C:\Documents and Settings\acardenas\My Dc Variable: Hotel Inca

Raw Statistics		Normal Distribution Test	
Number of Valid Samples	172	Lilliefors Test Statistic	0.112066
Number of Unique Samples	169	Lilliefors 5% Critical Value	0.067557
Minimum	0	Data not normal at 5% significance level	
Maximum	5.698		
Mean	1.70039	95% UCL (Assuming Normal Distribution)	
Median	1.401	Student's-t UCL	1.863407
Standard Deviation	1.292741		
Variance	1.671178		
Coefficient of Variation	0.760261		
Skewness	1.128502		

Gamma Statistics Not Available

Lognormal Statistics Not Available

RECOMMENDATION
Data are Non-parametric (0.05)

Use 95% Chebyshev (Mean, Sd) UCL

95% Non-parametric UCLs		
CLT UCL		1.862524
Adj-CLT UCL (Adjusted for skewness)		1.871587
Mod-t UCL (Adjusted for skewness)		1.86482
Jackknife UCL		1.863407
Standard Bootstrap UCL		1.860763
Bootstrap-t UCL		1.868185
Hall's Bootstrap UCL		1.871641
Percentile Bootstrap UCL		1.858785
BCA Bootstrap UCL		1.866203
95% Chebyshev (Mean, Sd) UCL		2.130049
97.5% Chebyshev (Mean, Sd) UCL		2.315962
99% Chebyshev (Mean, Sd) UCL		2.681154

Data File C:\Documents and Settings\acardenas\My Dc Variable: Cushurupampa

Raw Statistics		Normal Distribution Test	
Number of Valid Samples	172	Lilliefors Test Statistic	0.129775
Number of Unique Samples	159	Lilliefors 5% Critical Value	0.067557
Minimum	0	Data not normal at 5% significance level	
Maximum	6.852		
Mean	1.24111	95% UCL (Assuming Normal Distribution)	
Median	1.0325	Student's-t UCL	1.369394
Standard Deviation	1.017298		
Variance	1.034896		
Coefficient of Variation	0.819668		
Skewness	1.964211		

Gamma Statistics Not Available

Lognormal Statistics Not Available

RECOMMENDATION
Data are Non-parametric (0.05)

Use 95% Chebyshev (Mean, Sd) UCL

95% Non-parametric UCLs	
CLT UCL	1.368699
Adj-CLT UCL (Adjusted for skewness)	1.381112
Mod-t UCL (Adjusted for skewness)	1.37133
Jackknife UCL	1.369394
Standard Bootstrap UCL	1.370384
Bootstrap-t UCL	1.387054
Hall's Bootstrap UCL	1.386725
Percentile Bootstrap UCL	1.373442
BCA Bootstrap UCL	1.377494
95% Chebyshev (Mean, Sd) UCL	1.579223
97.5% Chebyshev (Mean, Sd) UCL	1.725524
99% Chebyshev (Mean, Sd) UCL	2.012905

Data File C:\Documents and Settings\acardenas\My Dc Variable: Casaracra

Raw Statistics		Normal Distribution Test	
Number of Valid Samples	172	Lilliefors Test Statistic	0.22602
Number of Unique Samples	118	Lilliefors 5% Critical Value	0.067557
Minimum	0	Data not normal at 5% significance level	
Maximum	2.617		
Mean	0.502884	95% UCL (Assuming Normal Distribution)	
Median	0.258	Student's-t UCL	0.575893
Standard Deviation	0.578967		
Variance	0.335203		
Coefficient of Variation	1.151295		
Skewness	1.945993		

Gamma Statistics Not Available

Lognormal Statistics Not Available

RECOMMENDATION
Data are Non-parametric (0.05)

Use 95% Chebyshev (Mean, Sd) UCL

95% Non-parametric UCLs	
CLT UCL	0.575497
Adj-CLT UCL (Adjusted for skewness)	0.582496
Mod-t UCL (Adjusted for skewness)	0.576984
Jackknife UCL	0.575893
Standard Bootstrap UCL	0.576616
Bootstrap-t UCL	0.584085
Hall's Bootstrap UCL	0.585071
Percentile Bootstrap UCL	0.575523
BCA Bootstrap UCL	0.583919
95% Chebyshev (Mean, Sd) UCL	0.695311
97.5% Chebyshev (Mean, Sd) UCL	0.778574
99% Chebyshev (Mean, Sd) UCL	0.942129