

```

GET
FILE='C:\Users\xwan0008\Downloads\Points.sav'.
DATASET NAME DataSet1 WINDOW=FRONT.
EXAMINE VARIABLES=LoForce HiForce diff
/PLOT BOXPLOT STEMLEAF HISTOGRAM NPLOT
/COMPARE GROUPS
/STATISTICS DESCRIPTIVES
/CINTERVAL 95
/MISSING LISTWISE
/NOTOTAL.

```

## Explore

### Notes

Output Created		09-MAY-2019 14:17:37
Comments		
Input	Data	C:\Users\xwan0008\Downloads\Points.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	171
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=LoForce HiForce diff /PLOT BOXPLOT STEMLEAF HISTOGRAM NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:02.92
	Elapsed Time	00:00:01.33

### Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
LoForce	171	100.0%	0	0.0%	171	100.0%
HiForce	171	100.0%	0	0.0%	171	100.0%
diff	171	100.0%	0	0.0%	171	100.0%

### Descriptives

		Statistic	Std. Error	
LoForce	Mean	98.8596	.54425	
	95% Confidence Interval for Mean	Lower Bound	97.7853	
		Upper Bound	99.9340	
	5% Trimmed Mean	98.7856		
	Median	99.0000		
	Variance	50.651		
	Std. Deviation	7.11694		
	Minimum	82.00		
	Maximum	118.00		
	Range	36.00		
	Interquartile Range	10.00		
	Skewness	.083	.186	
	Kurtosis	-.148	.369	
HiForce	Mean	97.0702	.61930	
	95% Confidence Interval for Mean	Lower Bound	95.8477	
		Upper Bound	98.2927	
	5% Trimmed Mean	97.2014		
	Median	97.0000		
	Variance	65.583		
	Std. Deviation	8.09835		
	Minimum	75.00		
	Maximum	114.00		
	Range	39.00		
	Interquartile Range	12.00		
	Skewness	-.260	.186	
	Kurtosis	-.113	.369	
diff	Mean	-1.7895	.68304	

## Descriptives

		Statistic	Std. Error
95% Confidence Interval for Mean	Lower Bound	-3.1378	
	Upper Bound	-.4411	
5% Trimmed Mean		-1.8541	
Median		-2.0000	
Variance		79.779	
Std. Deviation		8.93191	
Minimum		-26.00	
Maximum		25.00	
Range		51.00	
Interquartile Range		12.00	
Skewness		.164	.186
Kurtosis		.152	.369

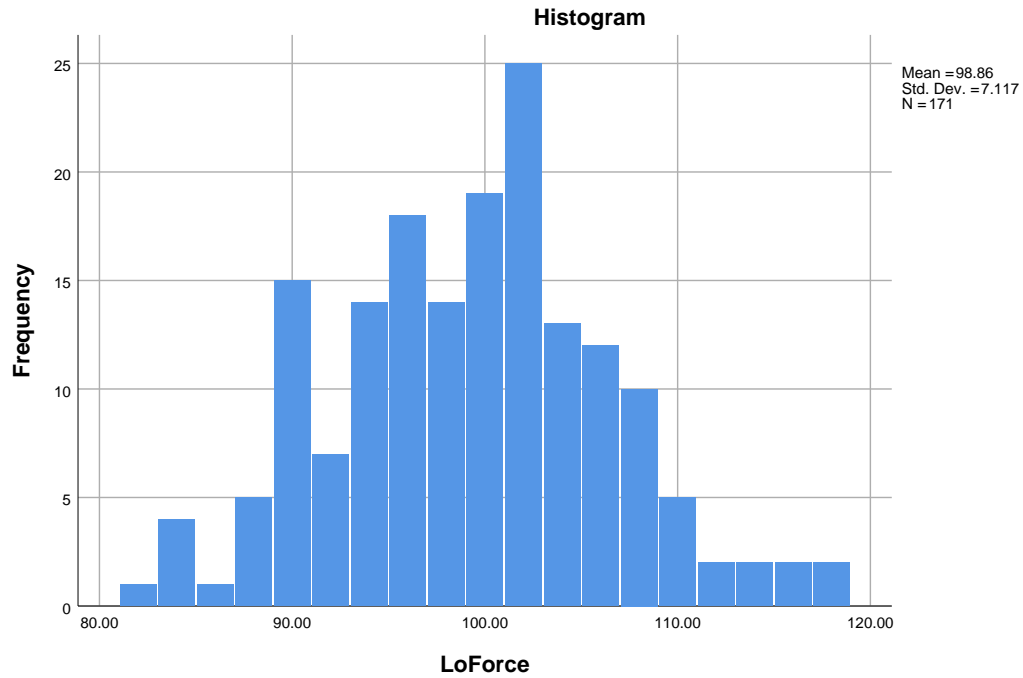
## Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
LoForce	.051	171	.200*	.992	171	.491
HiForce	.066	171	.068	.988	171	.152
diff	.061	171	.200*	.993	171	.604

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

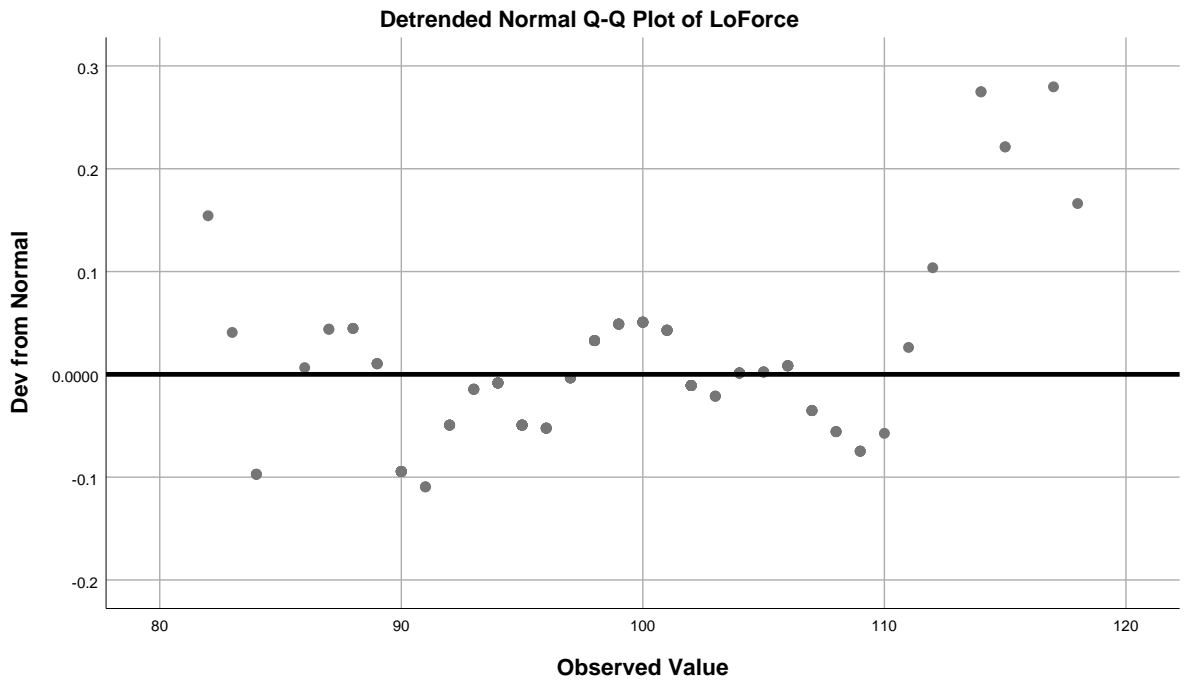
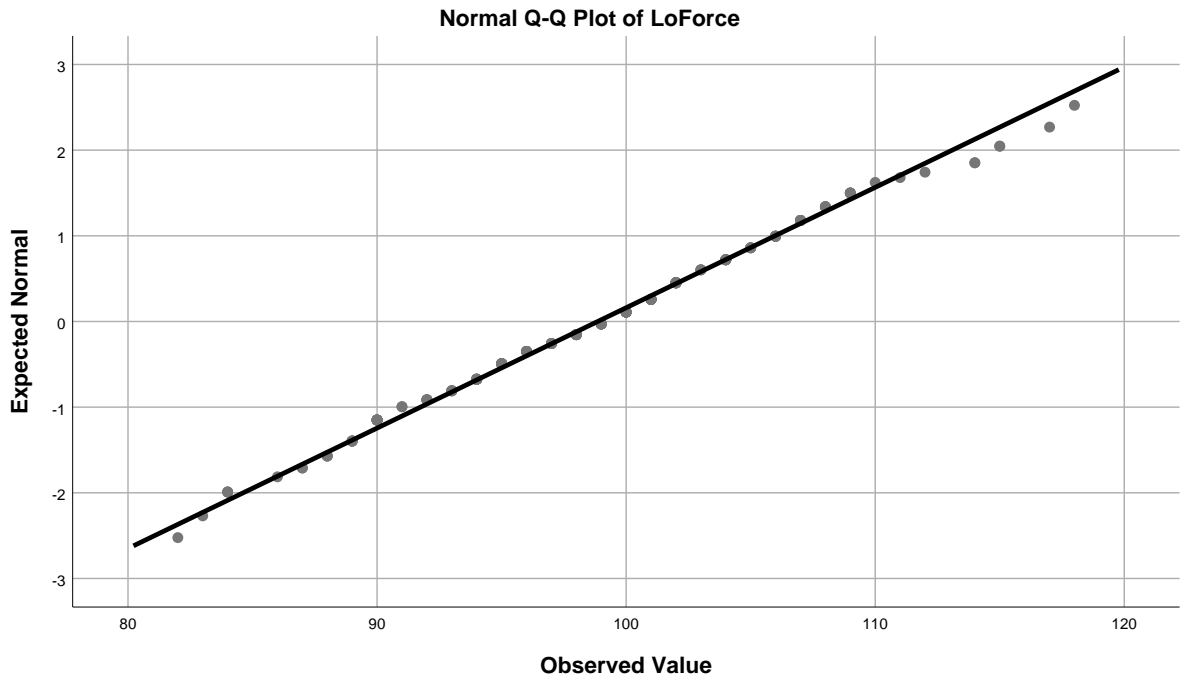
## LoForce

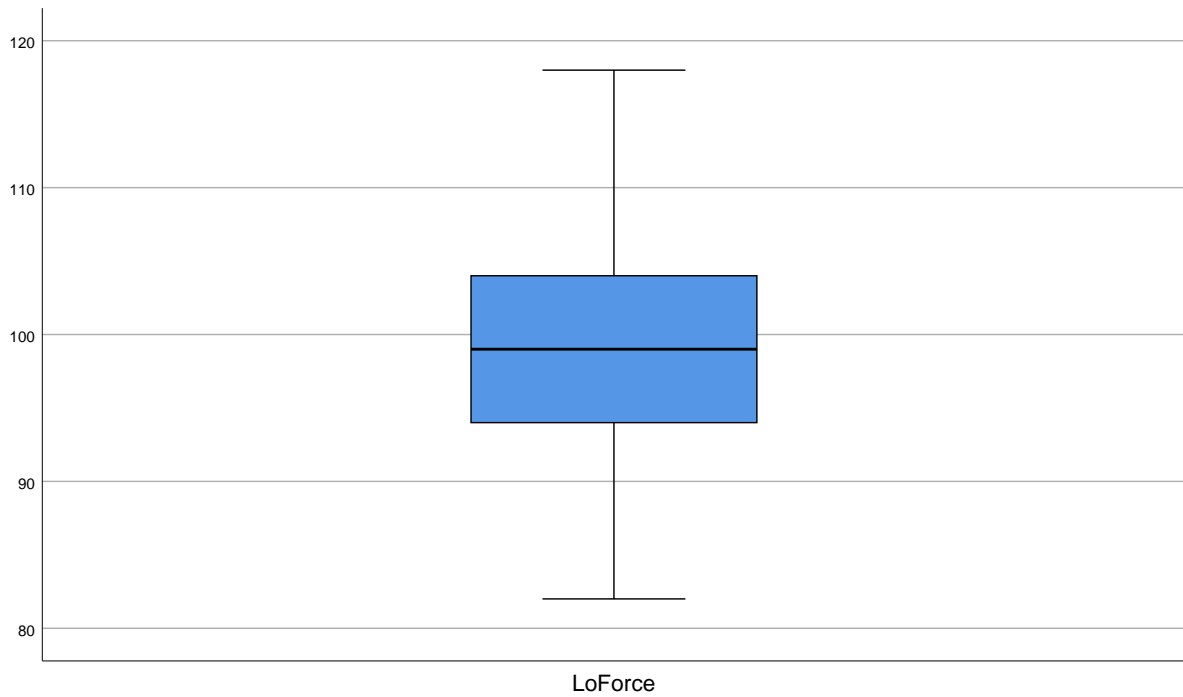


LoForce Stem-and-Leaf Plot

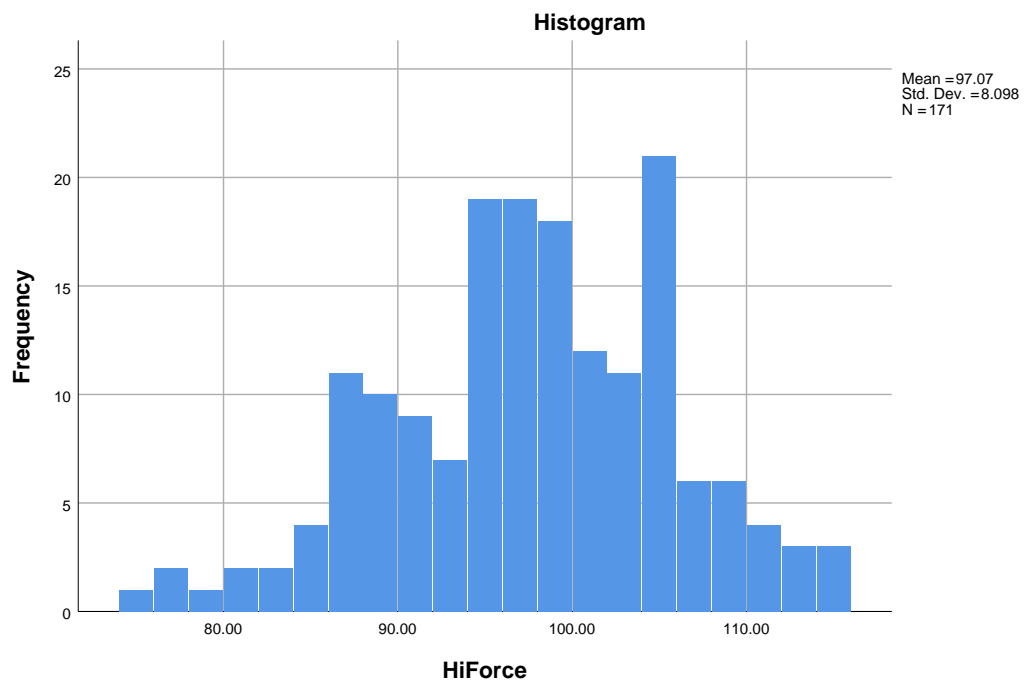
Frequency	Stem &	Leaf
.00	8 .	
2.00	8 .	23
3.00	8 .	444
3.00	8 .	677
8.00	8 .	88899999
12.00	9 .	00000000011
10.00	9 .	2222233333
21.00	9 .	44444444455555555555
12.00	9 .	66666777777
17.00	9 .	8888888899999999
20.00	10 .	0000000001111111111
18.00	10 .	222222222222222333
14.00	10 .	4444444444555
14.00	10 .	6666666777777
8.00	10 .	88889999
2.00	11 .	01
1.00	11 .	2
4.00	11 .	4455
1.00	11 .	7
1.00	11 .	8

Stem width: 10.00  
Each leaf: 1 case(s)





## HiForce



### HiForce Stem-and-Leaf Plot

Frequency	Stem &	Leaf
.00	7 .	
4.00	7 .	5669
7.00	8 .	0033444

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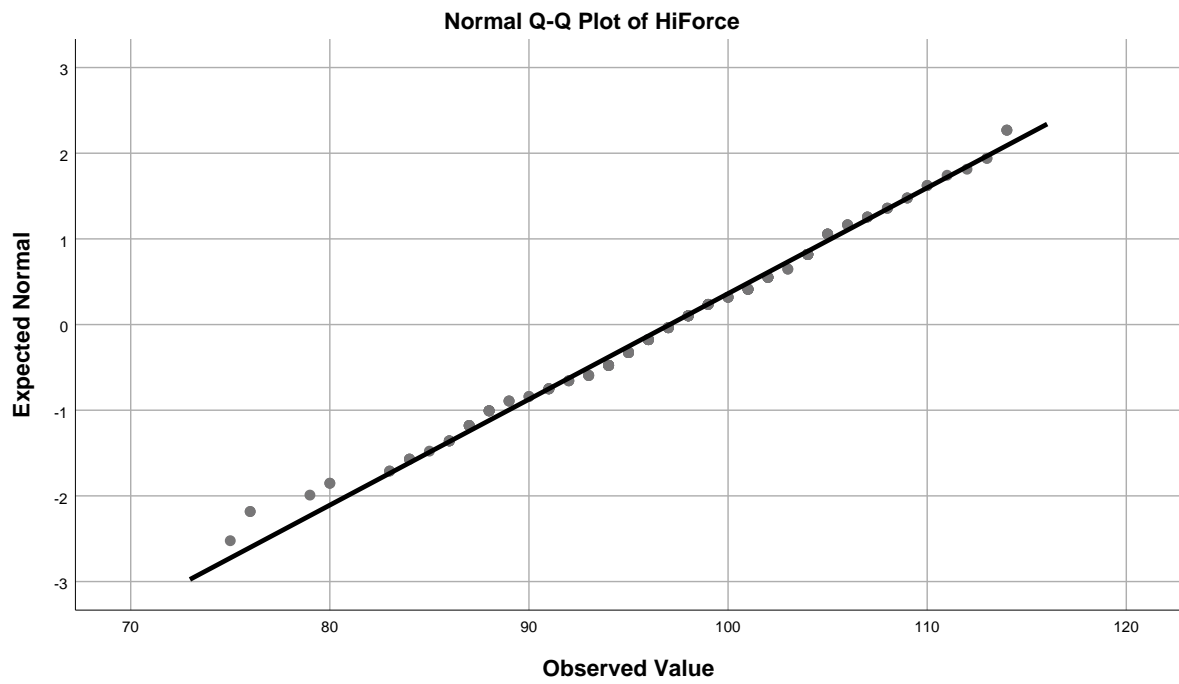
22.00      8 . 5666667777778888888999
26.00      9 . 00111111122233334444444444
46.00      9 . 555555556666666666677777788888888889999999
39.00     10 . 00001111111222222223344444444444444444
17.00     10 . 55556666777888999
10.00     11 . 0001233444

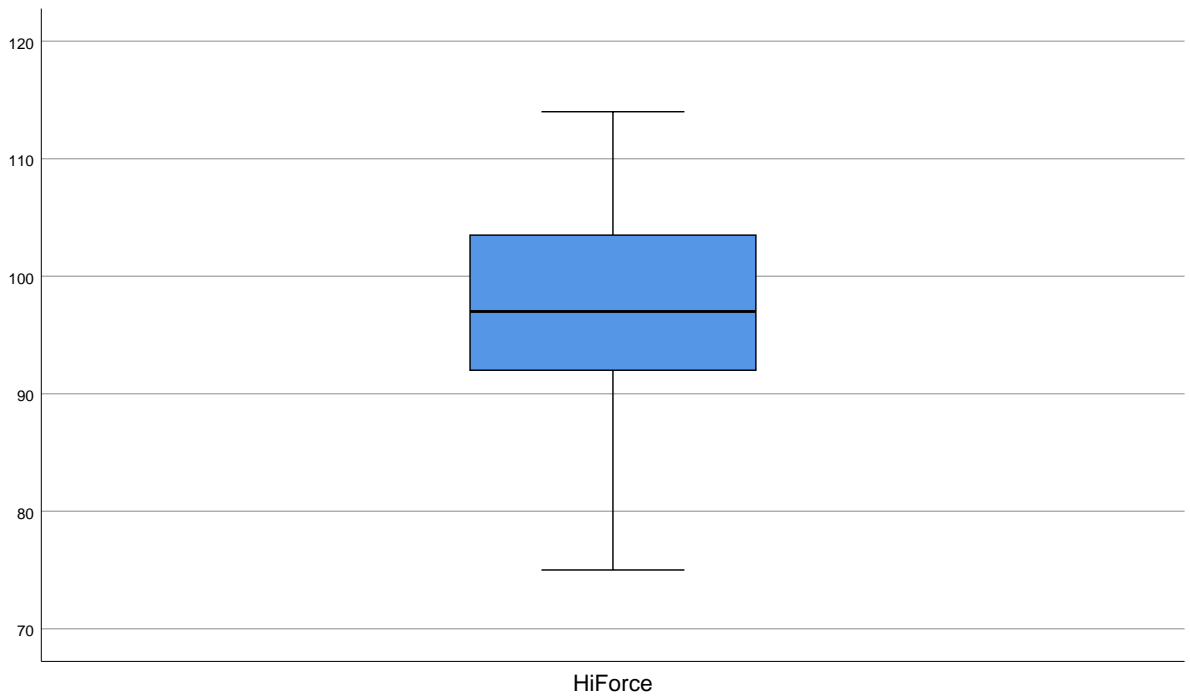
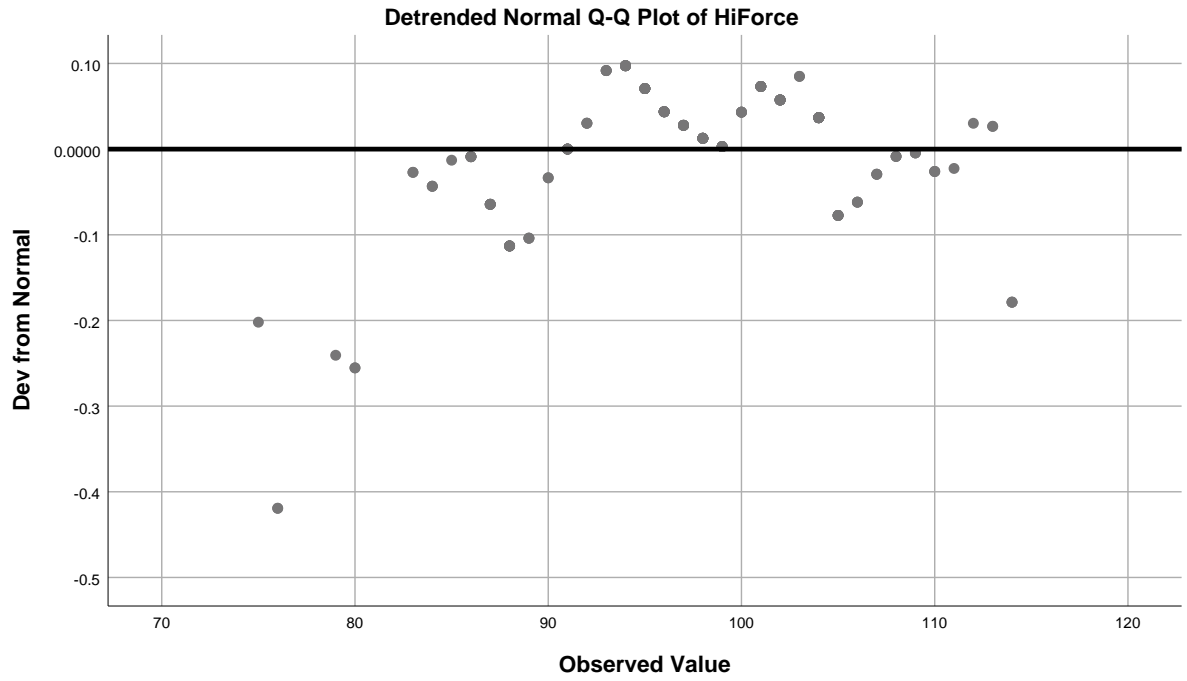
```

```

Stem width:    10.00
Each leaf:     1 case(s)

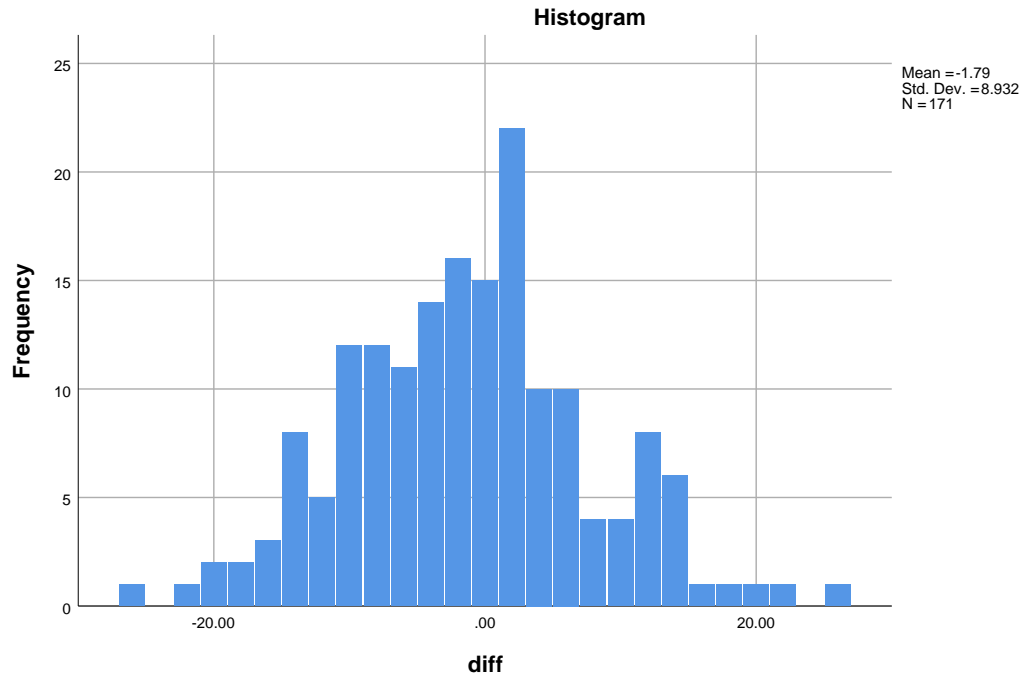
```





**diff**

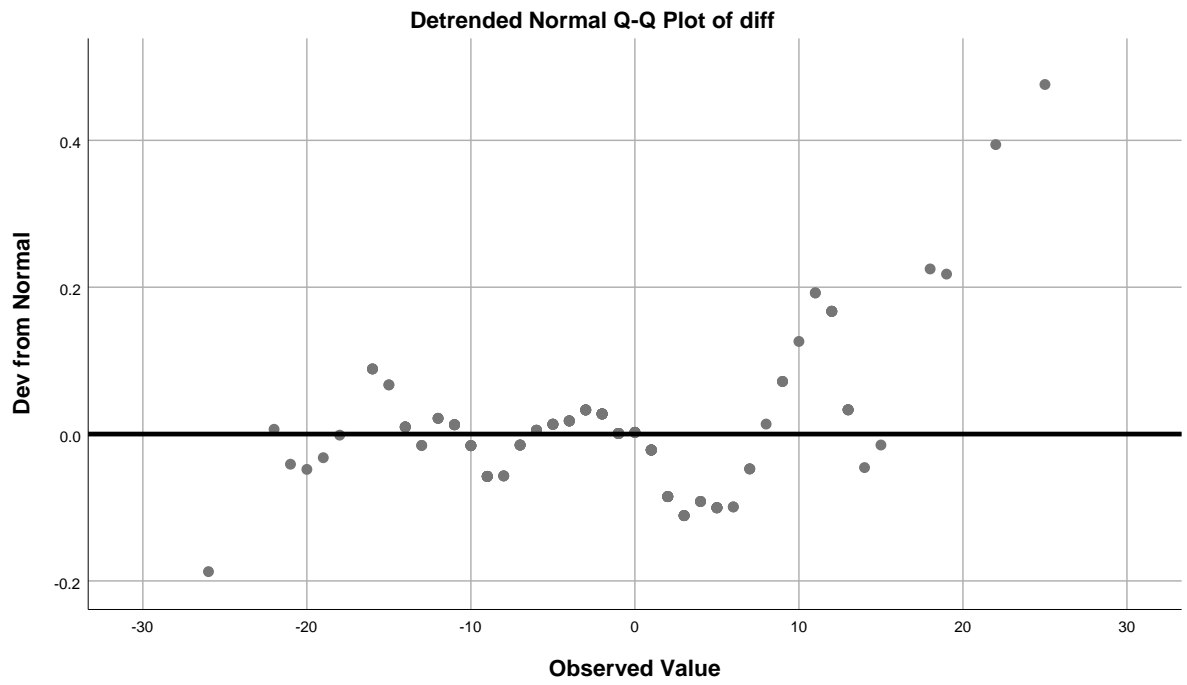
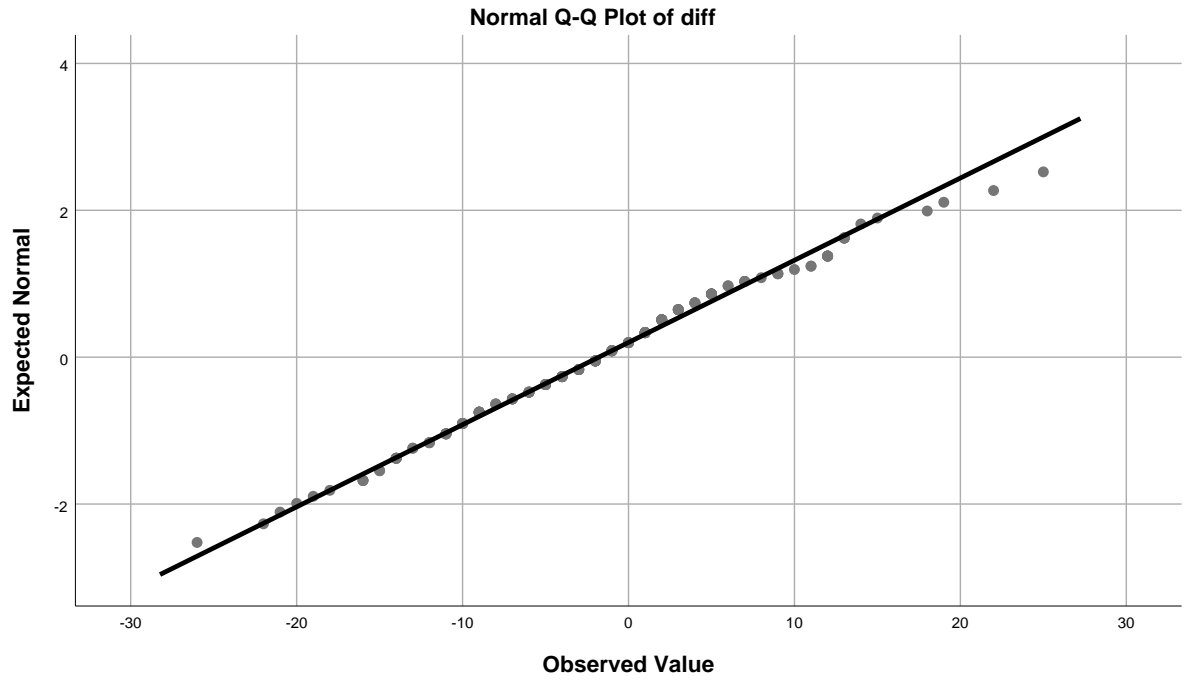


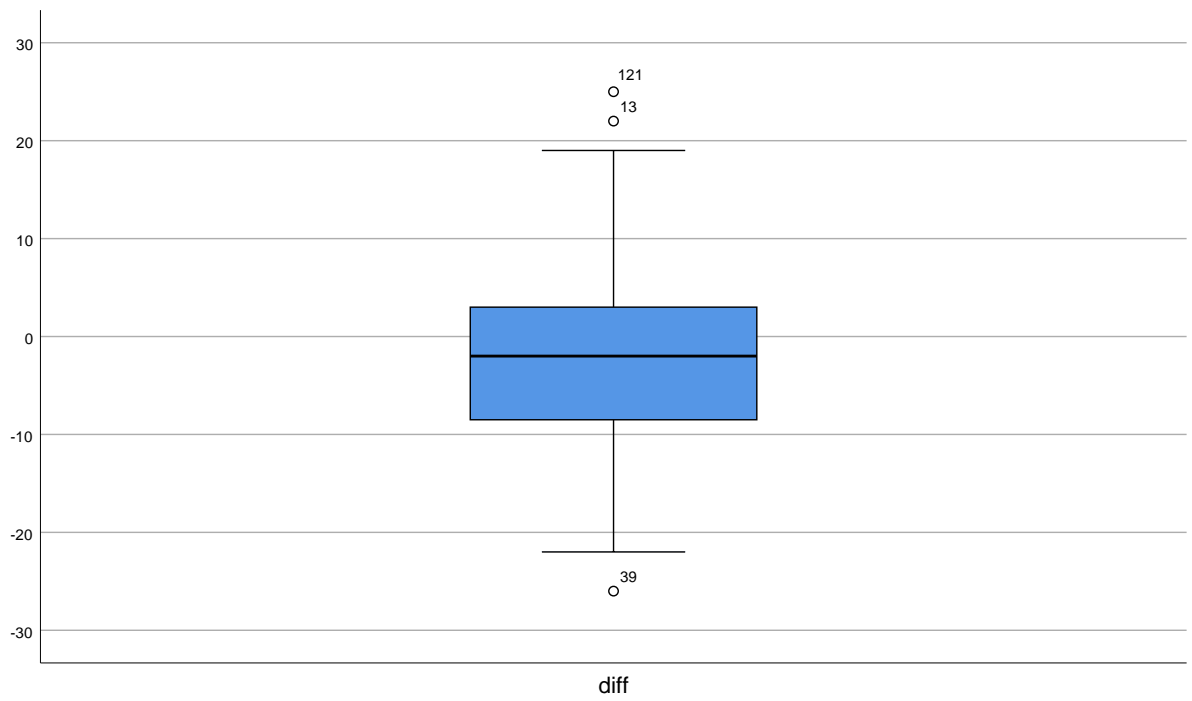


diff Stem-and-Leaf Plot

Frequency	Stem &	Leaf
1.00	Extremes	(= $\leq$ -26)
3.00	-2	. 012
7.00	-1	. 5566689
23.00	-1	. 00000011111122233444444
30.00	-0	. 55555566666677777888999999999
32.00	-0	. 11111111222222222333334444444
38.00	0	. 00000011111111112222222223333344444
17.00	0	. 5555555667778999
15.00	1	. 011222222333334
3.00	1	. 589
2.00	Extremes	( $\geq$ 22)

Stem width: 10.00  
Each leaf: 1 case(s)





```
T-TEST PAIRS=LoForce WITH HiForce (PAIRED)  
/CRITERIA=CI(.9500)  
/MISSING=ANALYSIS.
```

## T-Test

## Notes

Output Created		09-MAY-2019 14:17:58
Comments		
Input	Data	C:\Users\xwan0008\Downloads\Points.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	171
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST PAIRS=LoForce WITH HiForce (PAIRED) /CRITERIA=CI(.9500) /MISSING=ANALYSIS.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

### Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	LoForce	98.8596	171	7.11694	.54425
	HiForce	97.0702	171	8.09835	.61930

### Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	LoForce & HiForce	171	.316	.000

### Paired Samples Test

		Paired Differences			
		Mean	Std. Deviation	Std. Error Mean	95% Confidence ...
					Lower
Pair 1	LoForce - HiForce	1.78947	8.93191	.68304	.44114

### Paired Samples Test

		Paired ...			
		95% Confidence Interval of the ...			
		Upper	t	df	Sig. (2-tailed)
Pair 1	LoForce - HiForce	3.13781	2.620	170	.010