

Trend Analysis for Average of Lifetime (years)

* NOTE * Zero values of Yt exist; MAPE calculated only for non-zero Yt.

Method

Model type Linear Trend Model

Data Average of Lifetime (years)

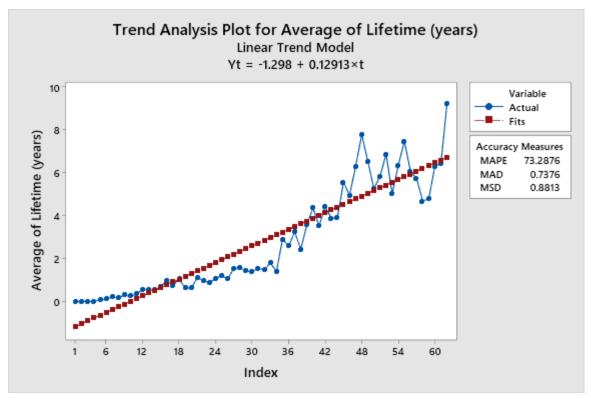
Length 62 NMissing 0

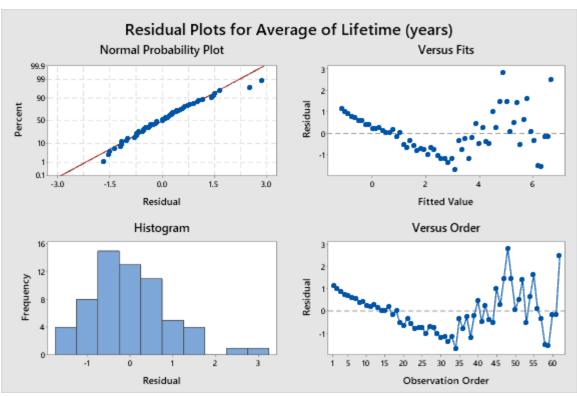
Fitted Trend Equation

 $Yt = -1.298 + 0.12913 \times t$

Accuracy Measures

MAPE 73.2876 MAD 0.7376 MSD 0.8813





Stem-and-leaf of Average of Lifetime (years) N = 62

21 0 000001122235556667899

(13) 1 0000133445557

Leaf Unit = 0.1

WORKSHEET 2

Moving Average for Average of Lifetime (years)

* NOTE * Zero values of Yt exist; MAPE calculated only for non-zero Yt.

Method

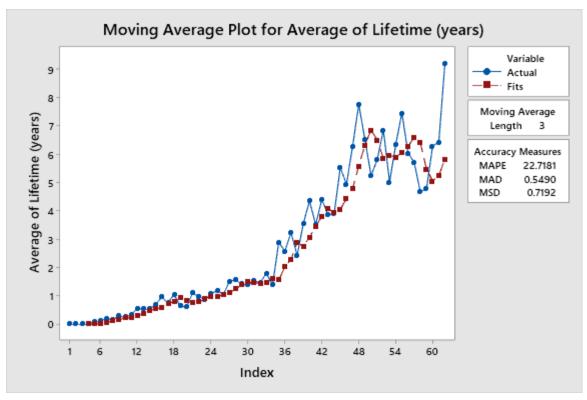
Data Average of Lifetime (years) Length 62 NMissing 0

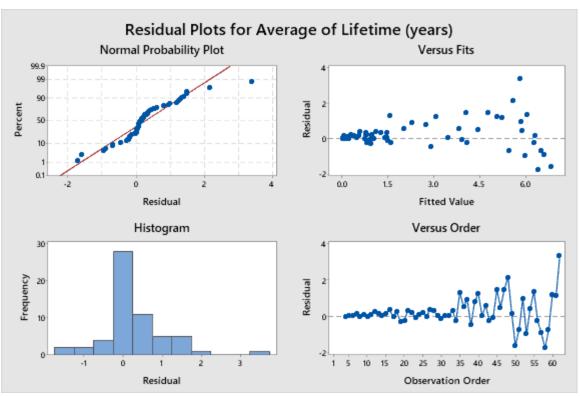
Moving Average

Length 3

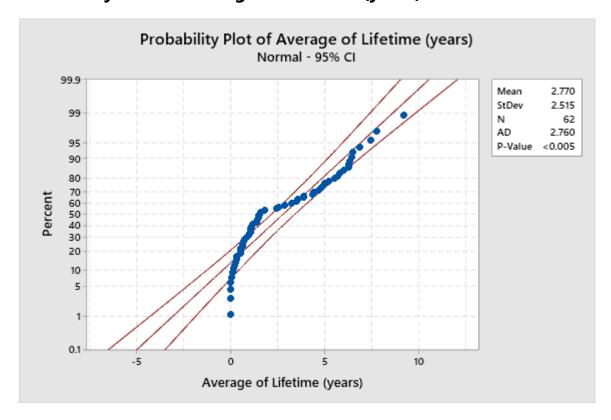
Accuracy Measures

MAPE 22.7181 MAD 0.5490 MSD 0.7192



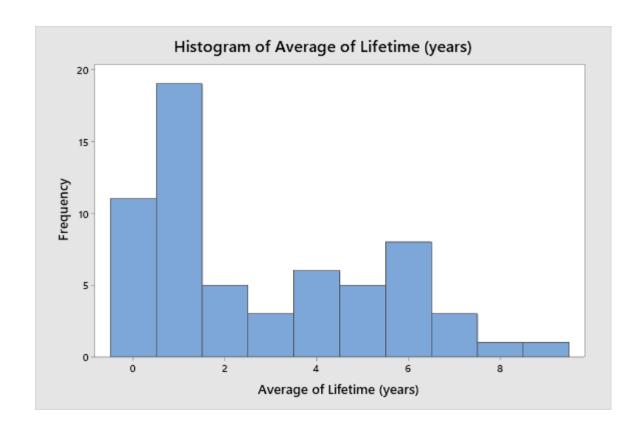


Probability Plot of Average of Lifetime (years)



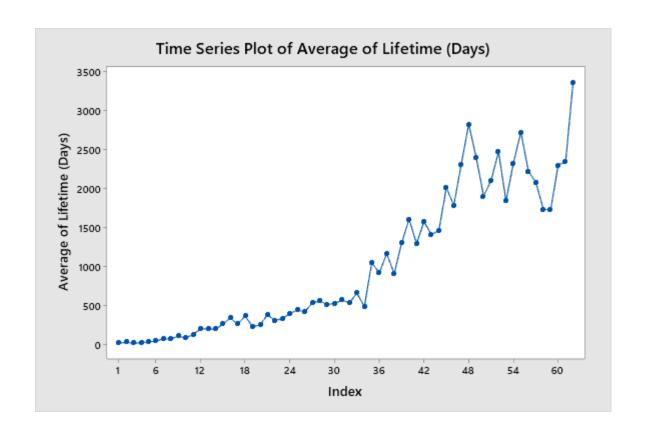
WORKSHEET 2

Histogram of Average of Lifetime (years)



WORKSHEET 2

Time Series Plot of Average of Lifetime (Days)



Single Exponential Smoothing for Average of Lifetime (Days)

Method

Data Average of Lifetime (Days)

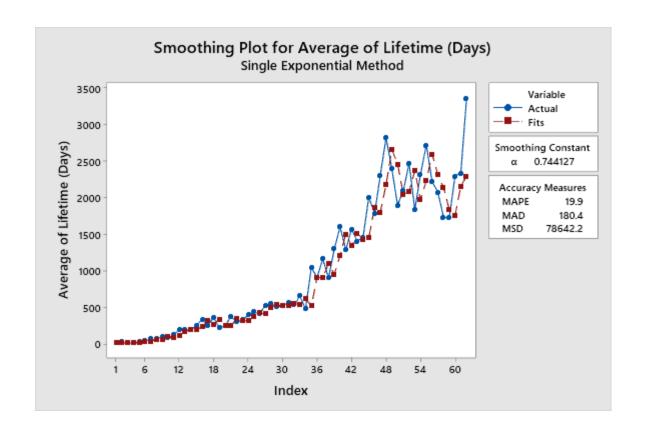
Length 62

Smoothing Constant

α 0.744127

Accuracy Measures

MAPE 19.9 MAD 180.4 MSD 78642.2



Single Exponential Smoothing for Average of Lifetime (Days)

Method

Data Average of Lifetime (Days)

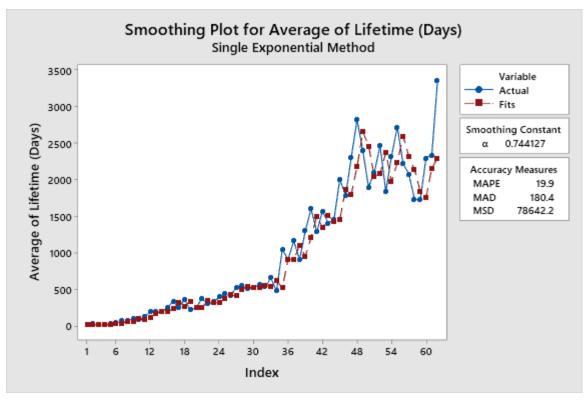
Length 62

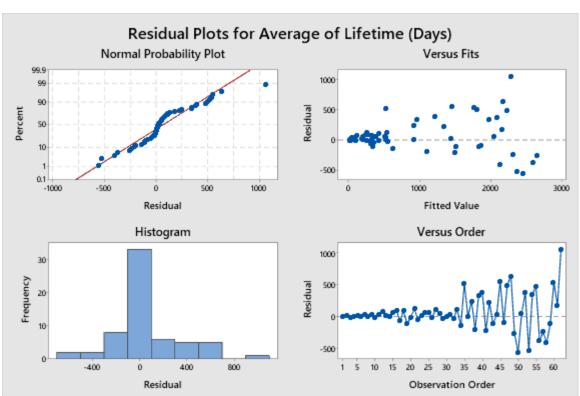
Smoothing Constant

α 0.744127

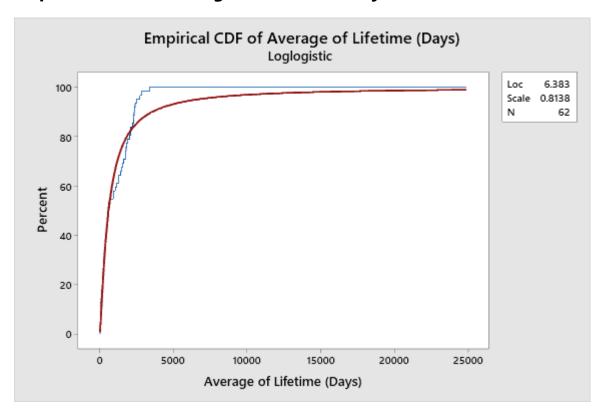
Accuracy Measures

MAPE 19.9 MAD 180.4 MSD 78642.2





Empirical CDF of Average of Lifetime (Days)

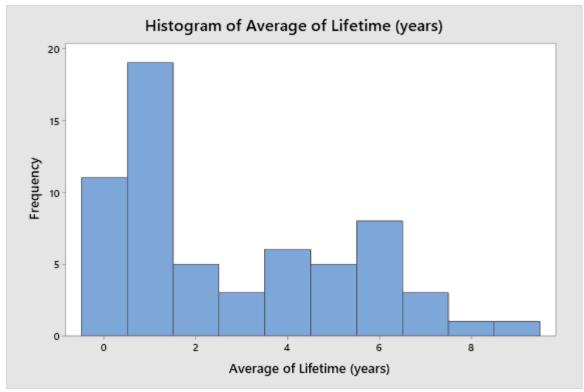


WORKSHEET 2

Descriptive Statistics: Average of Lifetime (years)

Statistics

Variable	N	N*	Mean	SE Mean	StDev	Var	iance	CoefVar	Minimum	Q1
Average of Lifetime (years)	62	0	2.770	0.319	2.515		6.323	90.79	0.000	0.628
Variable	N	<u> 1edia</u>	an Q	3 Maxim	um R	ange	IQR	Skewnes	s Kurtosis	<u>.</u>



Single Exponential Smoothing for Average of Lifetime (years)

* NOTE * Zero values of Yt exist; MAPE calculated only for non-zero Yt.

Method

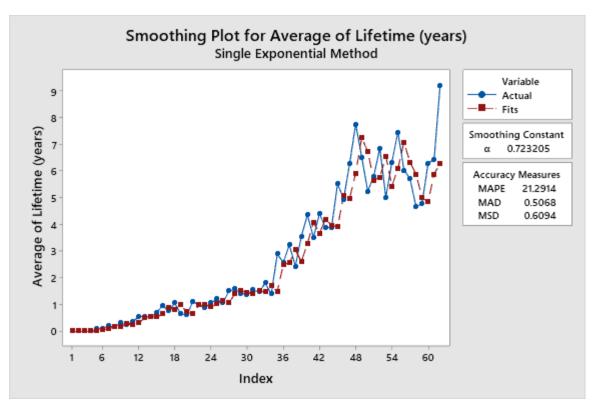
Data Average of Lifetime (years) Length 62

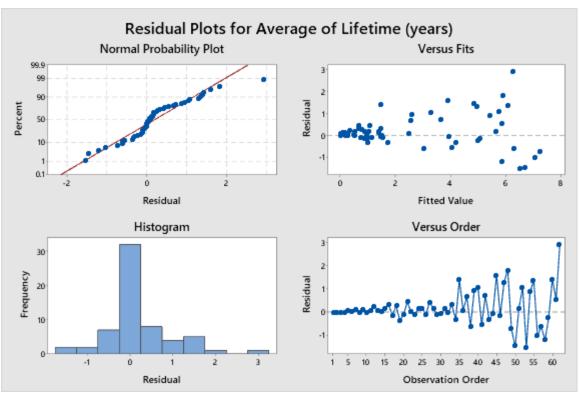
Smoothing Constant

α 0.723205

Accuracy Measures

MAPE 21.2914 MAD 0.5068 MSD 0.6094





Double Exponential Smoothing for Average of Lifetime (years)

* NOTE * Zero values of Yt exist; MAPE calculated only for non-zero Yt.

Method

Data Average of Lifetime (years)

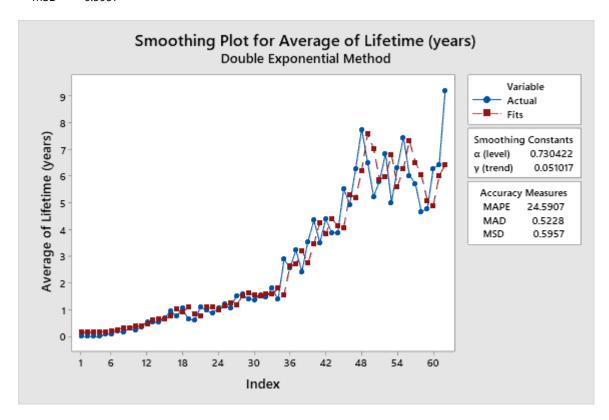
Length 62

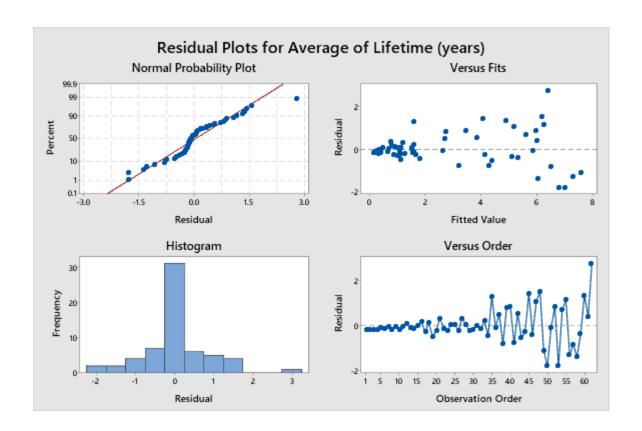
Smoothing Constants

 α (level) 0.730422 γ (trend) 0.051017

Accuracy Measures

MAPE 24.5907 MAD 0.5228 MSD 0.5957





Single Exponential Smoothing for Average of Lifetime (Days)

Method

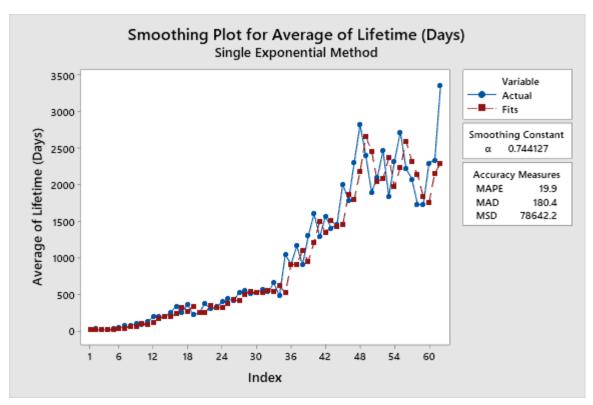
Data Average of Lifetime (Days) Length 62

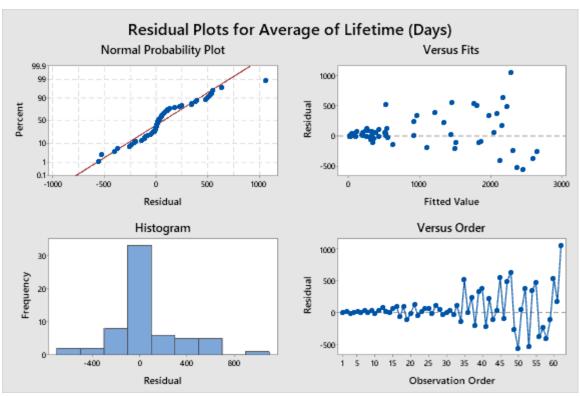
Smoothing Constant

α 0.744127

Accuracy Measures

MAPE 19.9 MAD 180.4 MSD 78642.2





Double Exponential Smoothing for Average of Lifetime (Days)

Method

Data Average of Lifetime (Days)

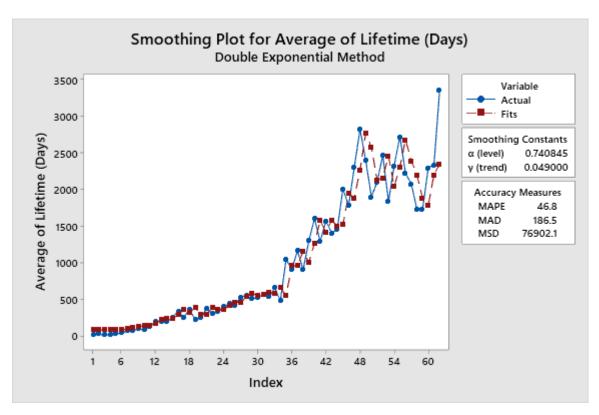
Length 62

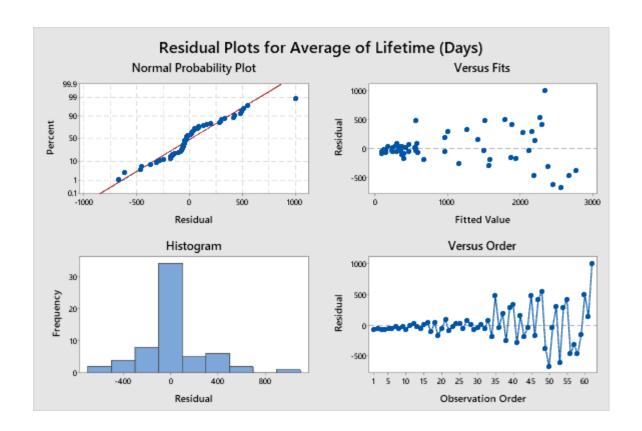
Smoothing Constants

 $\begin{array}{ll} \alpha \; (level) & 0.740845 \\ \gamma \; (trend) & 0.049000 \end{array}$

Accuracy Measures

MAPE 46.8 MAD 186.5 MSD 76902.1

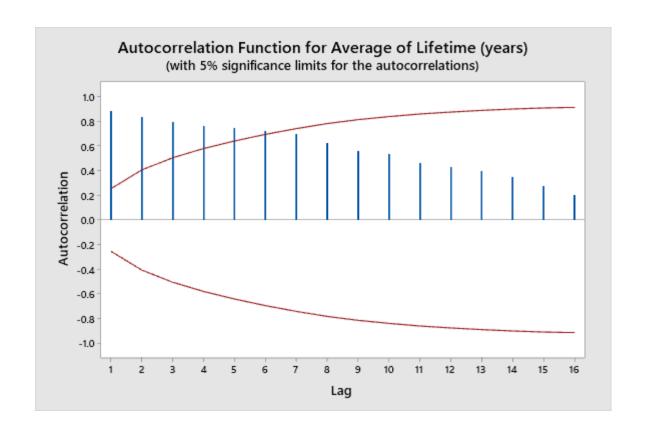




Autocorrelation Function: Average of Lifetime (years)

Autocorrelations

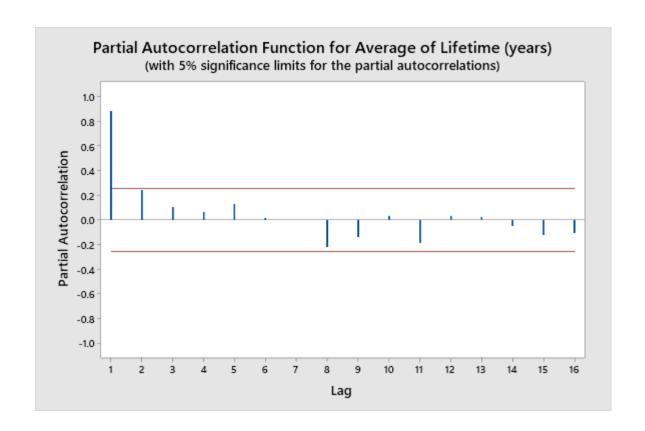
Lag	ACF	Т	LBQ
1	0.884319	6.96	50.87
2	0.834457	4.10	96.92
3	0.794746	3.15	139.40
4	0.760412	2.62	178.96
5	0.747163	2.33	217.82
6	0.720858	2.07	254.64
7	0.695678	1.88	289.56
8	0.626226	1.60	318.37
9	0.563087	1.38	342.11
10	0.530196	1.26	363.56
11	0.459867	1.07	380.01
12	0.429360	0.98	394.64
13	0.393640	0.88	407.19
14	0.342713	0.76	416.90
15	0.275306	0.61	423.30
16	0.203683	0.45	426.88



Partial Autocorrelation Function: Average of Lifetime (years)

Partial Autocorrelations

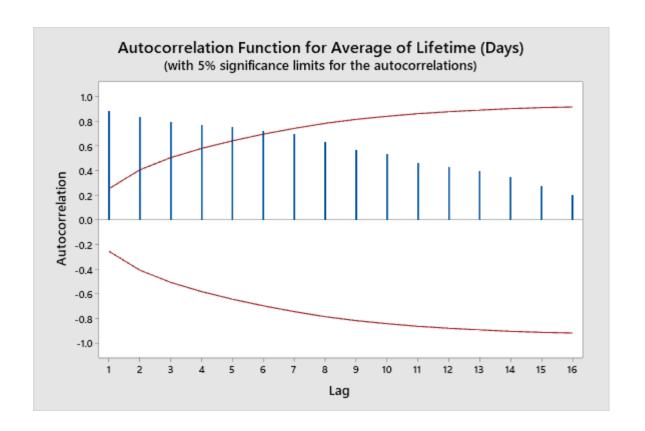
Lag	PACF	T
1	0.884319	6.96
2	0.240560	1.89
3	0.105198	0.83
4	0.058950	0.46
5	0.124716	0.98
6	0.012750	0.10
7	0.007113	0.06
8	-0.220599	-1.74
9	-0.137631	-1.08
10	0.033732	0.27
11	-0.185934	-1.46
12	0.030564	0.24
13	0.020792	0.16
14	-0.049176	-0.39
15	-0.121006	-0.95
16	-0.101678	-0.80



Autocorrelation Function: Average of Lifetime (Days)

Autocorrelations

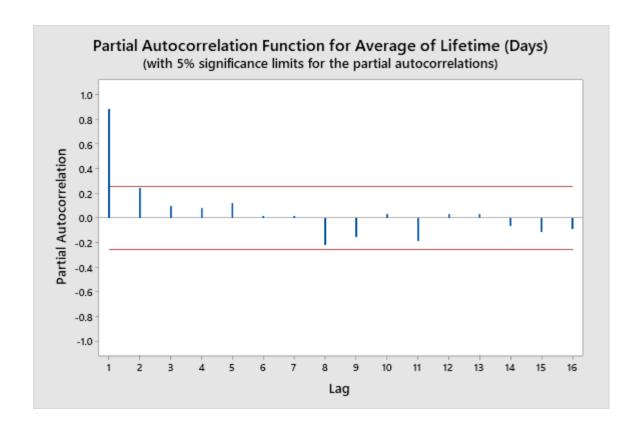
Lag	ACF	Т	LBQ
1	0.886497	6.98	51.12
2	0.837281	4.11	97.48
3	0.795558	3.14	140.05
4	0.764091	2.63	179.99
5	0.749309	2.33	219.08
6	0.722799	2.07	256.10
7	0.698707	1.88	291.32
8	0.630047	1.61	320.49
9	0.564864	1.38	344.37
10	0.530433	1.26	365.84
11	0.461186	1.07	382.39
12	0.430260	0.98	397.08
13	0.395212	0.89	409.73
14	0.343561	0.76	419.49
15	0.276067	0.61	425.92
16	0.204835	0.45	429.54



Partial Autocorrelation Function: Average of Lifetime (Days)

Partial Autocorrelations

Lag	PACF	T
1	0.886497	6.98
2	0.240063	1.89
3	0.092581	0.73
4	0.074819	0.59
5	0.115658	0.91
6	0.010596	0.08
7	0.012057	0.09
8	-0.218622	-1.72
9	-0.153419	-1.21
10	0.033458	0.26
11	-0.184494	-1.45
12	0.031198	0.25
13	0.031837	0.25
14	-0.065823	-0.52
15	-0.112885	-0.89
16	-0.091911	-0.72



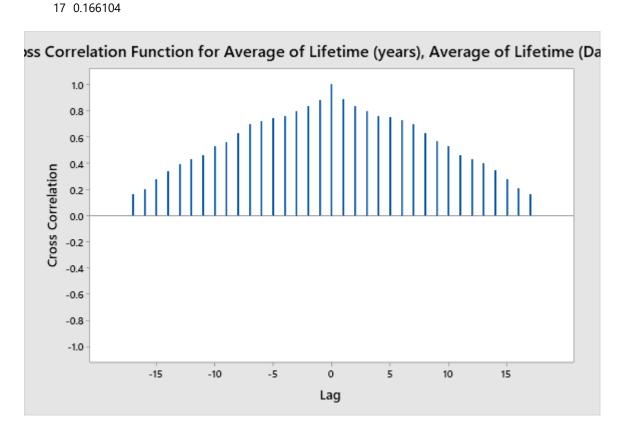
Cross Correlation Function: Average of Lifetime (years), Average of Lifetime (Days)

CCF - correlates Average of Lifetime (years)(t) and Average of Lifetime (Days)(t+k)

Cross Correlations

Lag	CCF
-17	0.164018
-16	0.202756
-15	0.274264
-14	0.341222
-13	0.392881
-12	0.428073
-11	0.458891
-10	0.528019
-9	0.561768
-8	0.626796
-7	0.696194
-6	0.720475
-5	0.746995
-4	0.761883
-3	0.794179
-2	0.835414
-1	0.885298
0	0.999813

```
1 0.885507
 2 0.836387
 3 0.796128
 4 0.762649
 5 0.749441
 6 0.723133
 7 0.698206
 8 0.629565
 9 0.566137
10 0.532611
11 0.462166
12 0.431562
13 0.396006
14 0.345014
15 0.277071
16 0.205805
```



Trend Analysis for Average of Lifetime (years)

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Method

Model type Linear Trend Model
Data Average of Lifetime (years)

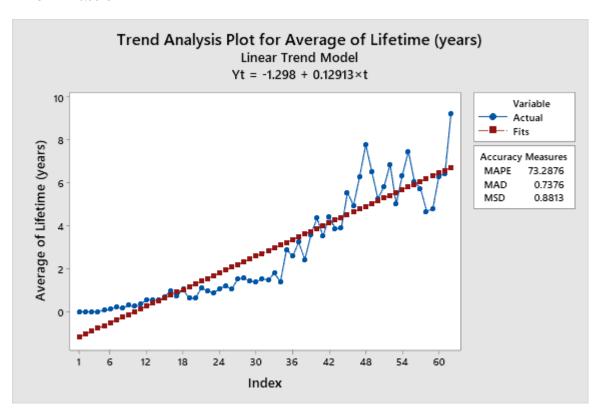
Length 62 NMissing 0

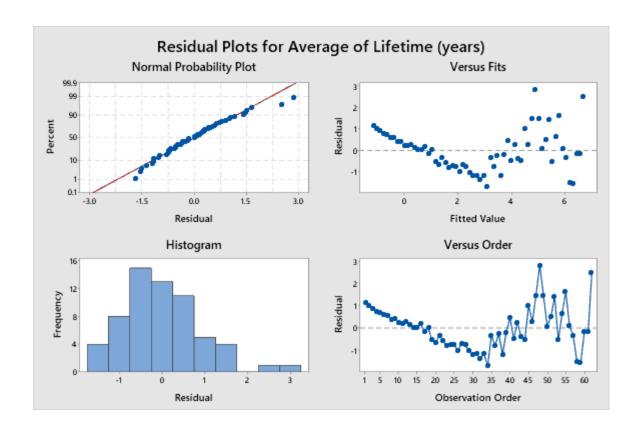
Fitted Trend Equation

 $Yt = -1.298 + 0.12913 \times t$

Accuracy Measures

MAPE 73.2876 MAD 0.7376 MSD 0.8813





Trend Analysis for Average of Lifetime (Days)

Method

Model type Linear Trend Model

Data Average of Lifetime (Days)

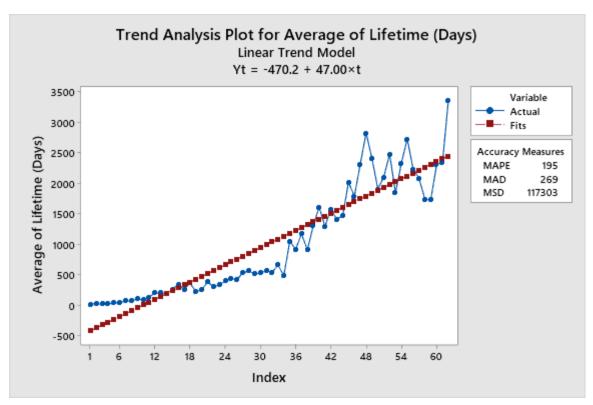
Length 62 NMissing 0

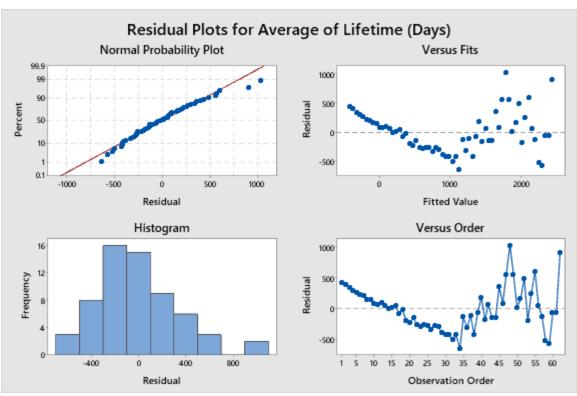
Fitted Trend Equation

 $Yt = -470.2 + 47.00 \times t$

Accuracy Measures

MAPE 195 MAD 269 MSD 117303





Trend Analysis for Average of Lifetime (Days)

Method

Model type Growth Curve Model
Data Average of Lifetime (Days)

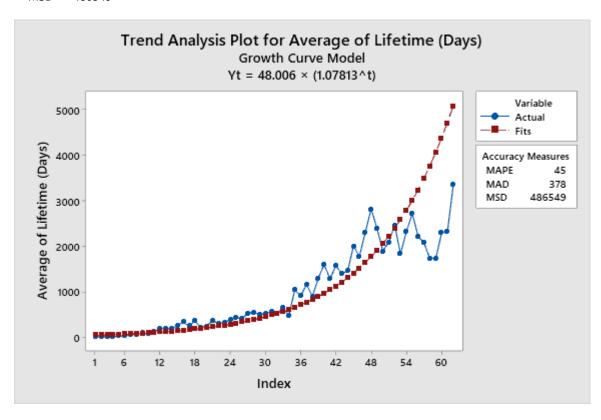
Length 62 NMissing 0

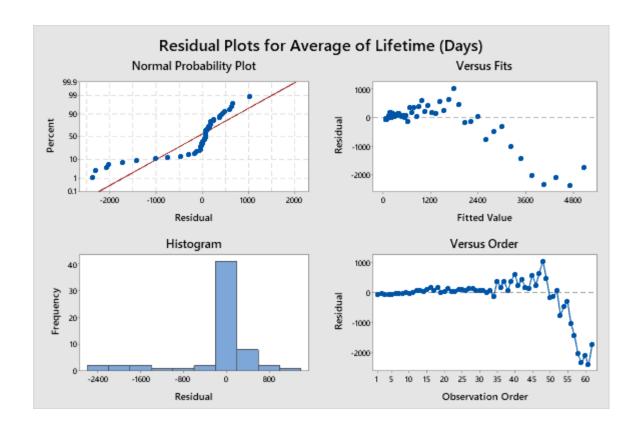
Fitted Trend Equation

 $Yt = 48.006 \times (1.07813^t)$

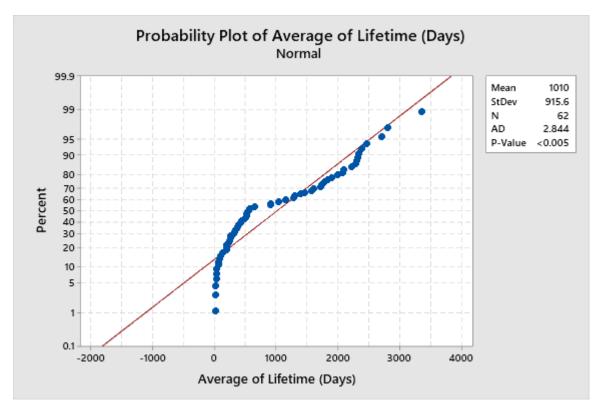
Accuracy Measures

MAPE 45 MAD 378 MSD 486549



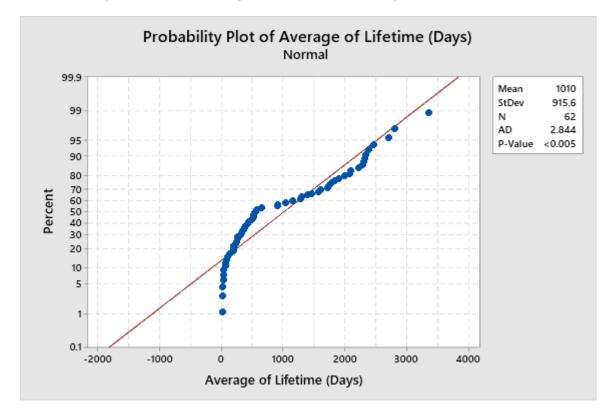


WORKSHEET 2 **Probability Plot of Average of Lifetime (Days)**



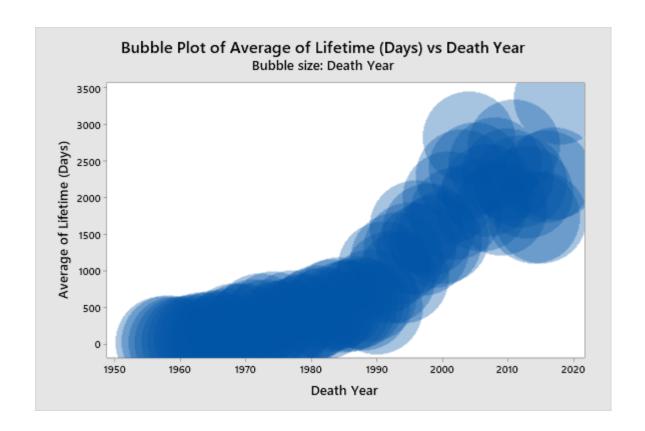
WORKSHEET 2

Probability Plot of Average of Lifetime (Days)



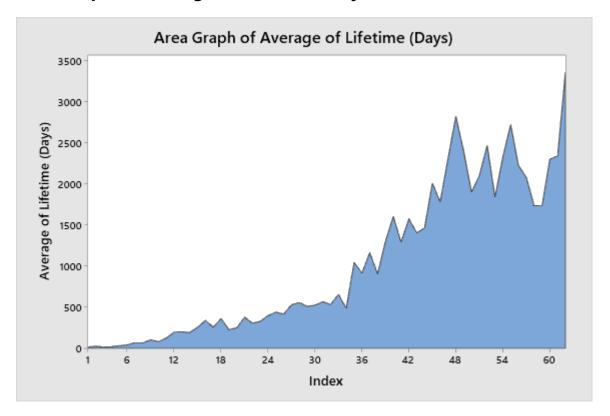
WORKSHEET 2

Bubble Plot of Average of Lifetime (Days) vs Death Year



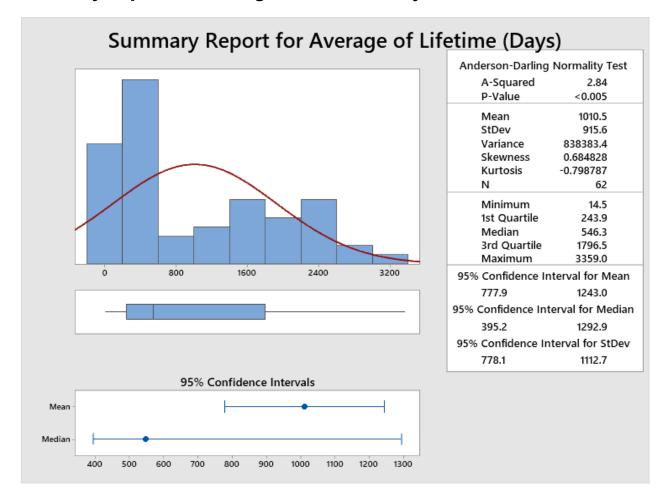
WORKSHEET 2

Area Graph of Average of Lifetime (Days)



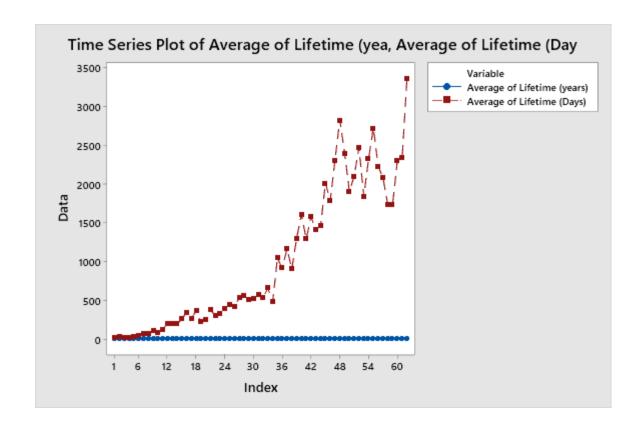
WORKSHEET 2

Summary Report for Average of Lifetime (Days)



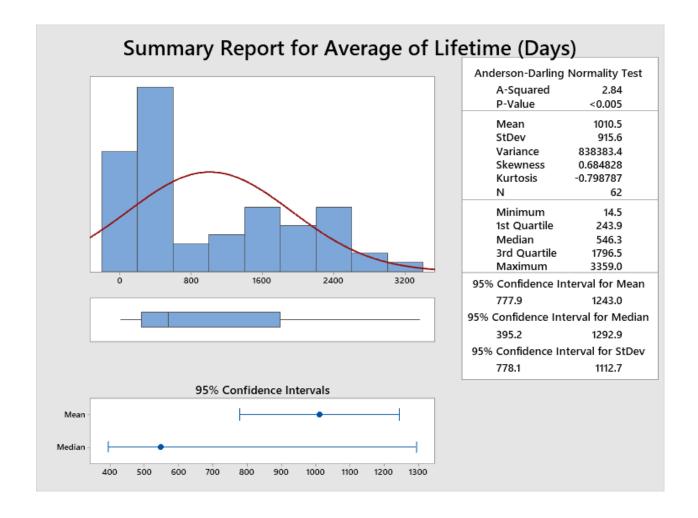
WORKSHEET 2

Time Series Plot of Average of Lifetime (years), Average of Lifetime (Days)

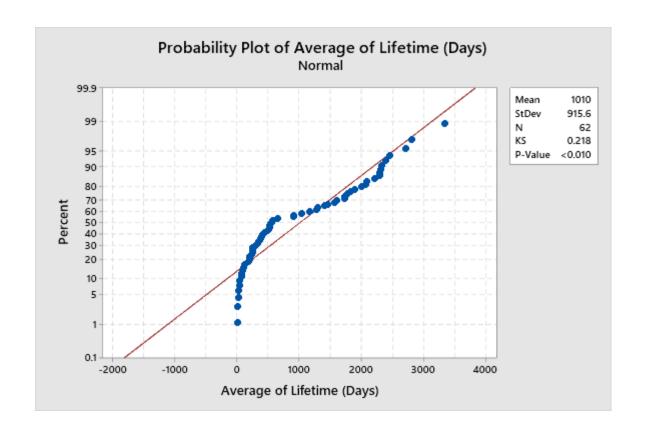


WORKSHEET 2

Summary Report for Average of Lifetime (Days)

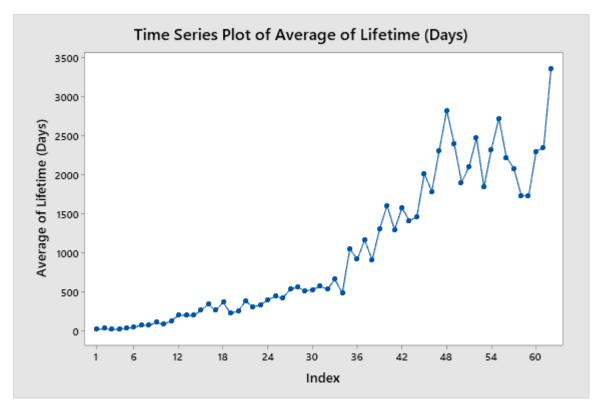


Probability Plot of Average of Lifetime (Days)



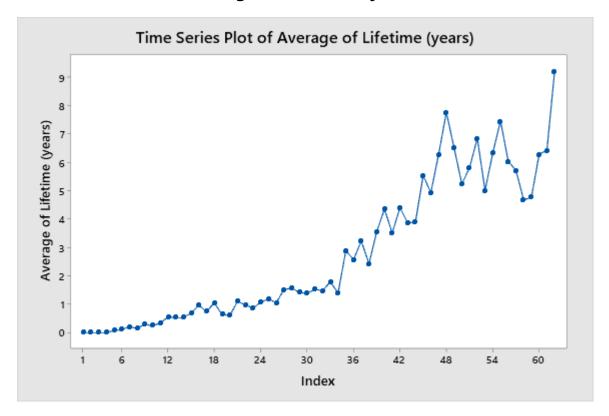
WORKSHEET 2

Time Series Plot of Average of Lifetime (Days)



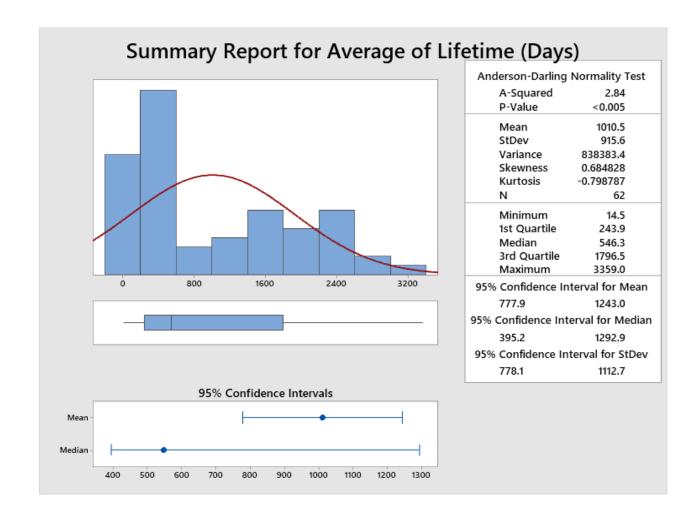
WORKSHEET 2

Time Series Plot of Average of Lifetime (years)



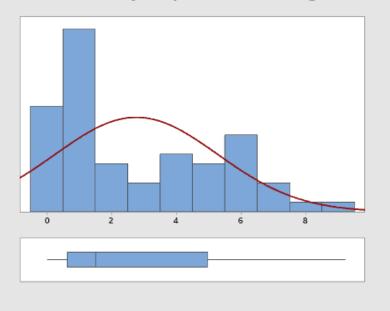
WORKSHEET 2

Summary Report for Average of Lifetime (Days)



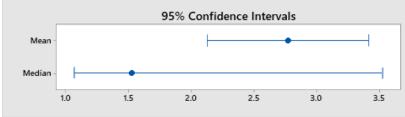
Summary Report for Average of Lifetime (years)

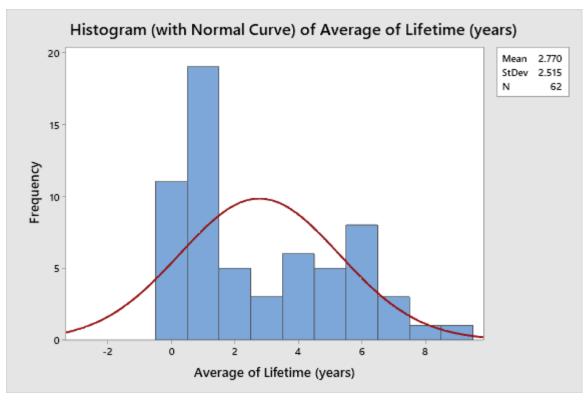
Summary Report for Average of Lifetime (years)

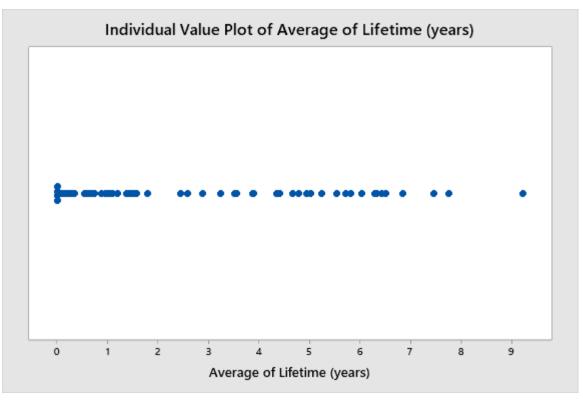


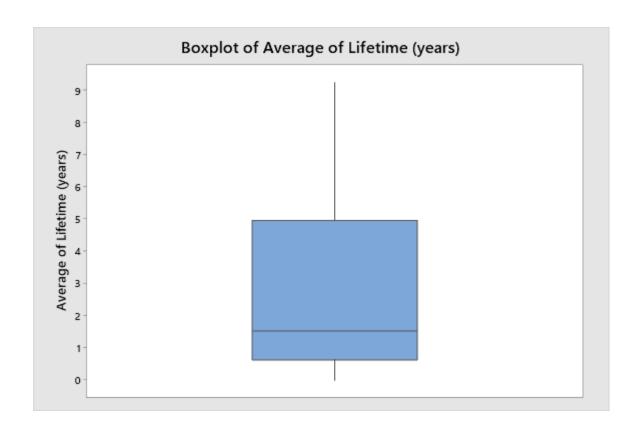
.,,	•
Anderson-Darling	Normality Test
A-Squared	2.76
P-Value	< 0.005
Mean	2.7699
StDev	2.5146
Variance	6.3235
Skewness	0.682222
Kurtosis	-0.789089
N	62
Minimum	0.0000
1st Quartile	0.6275
Median	1.5251
3rd Quartile	4.9594
Maximum	9.2314
95% Confidence In	nterval for Mean
2.1313	3.4085

95% Confidence Interval for Mean
2.1313 3.4085
95% Confidence Interval for Median
1.0697 3.5214
95% Confidence Interval for StDev
2.1369 3.0560





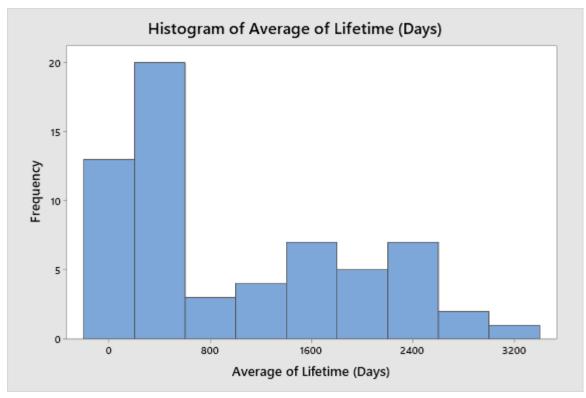


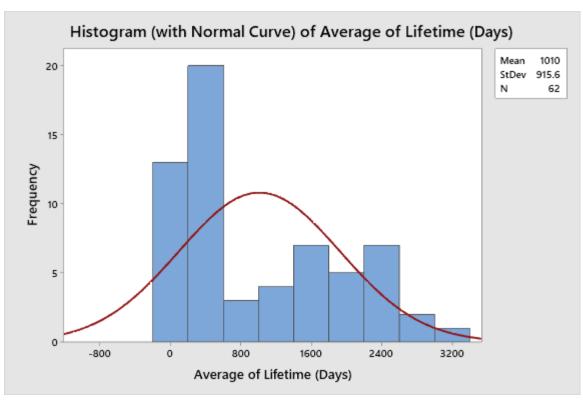


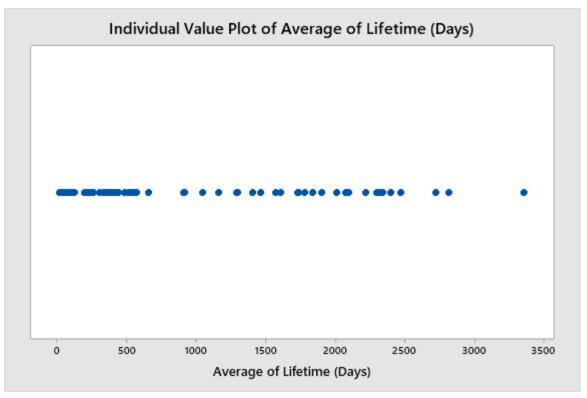
Descriptive Statistics: Average of Lifetime (Days)

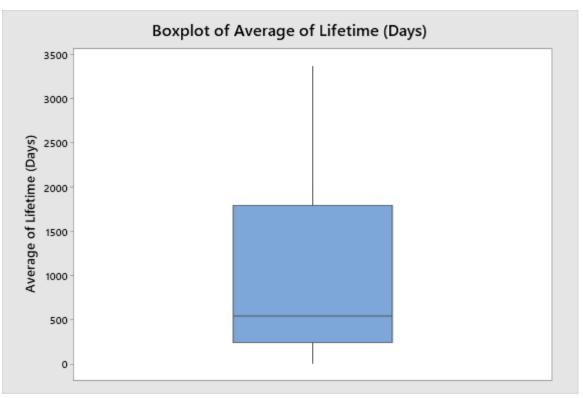
Statistics

Variable	N	N*	Mean	SE Mean	StDev	Variance	CoefVar	Minimum	Q1
Average of Lifetime (Days)	62	0	1010	116	916	838383	90.61	15	244
Variable	M	ediar	1 Q3	Maximur	n Rang	ge IQR	Skewness	Kurtosis	









Probability Plot of Average of Lifetime (years)

