Subsalt, Assessment Unit 40680101 Assessment Results Summary

[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. MMBNGL, million barrels of natural gas liquids. MFS, minimum field size assessed (MMBO or BCFG). Prob., probability (including both geologic and accessibility probabilities) of at least one field equal to or greater than the MFS. Results shown are fully risked estimates. For gas fields, all liquids are included under the NGL (natural gas liquids) category. F95 represents a 95 percent chance of at least the amount tabulated. Other fractiles are defined similarly. Fractiles are additive under the assumption of perfect positive correlation. Shading indicates not applicable]

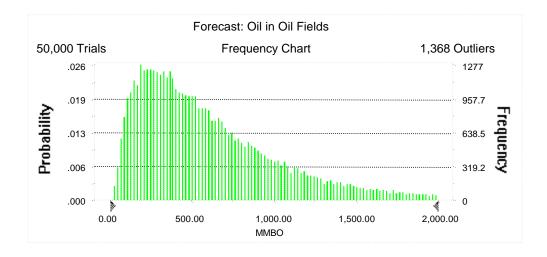
Field	MFS	S Prob.					_	U	ndiscovere	d Resource	es					Lar	gest Undis	covered Fie	eld
Field Type			Oil (MMBO)			Gas (BCFG)			NGL (MMBNGL)			(MMBO or BCFG)							
. 7 -		(0-1)	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean	
Oil Fields	20	0.00	0	216	1,399	388	0	454	3,149	856	0	26	193	51	50	193	921	297	
Gas Fields	120	0.60					0	41,207	148,531	50,354	0	1,715	6,809	2,214	3,845	10,934	28,067	12,709	
Total		0.60	0	216	1,399	388	0	41,661	151,679	51,210	0	1,741	7,001	2,265					

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 2,000.00 MMBO Entire range is from 20.75 to 5,120.52 MMBO After 50,000 trials, the standard error of the mean is 2.30

Statistics:	<u>Value</u>
Trials	50000
Mean	648.55
Median	512.05
Mode	
Standard Deviation	514.79
Variance	265,003.76
Skewness	1.83
Kurtosis	7.81
Coefficient of Variability	0.79
Range Minimum	20.75
Range Maximum	5,120.52
Range Width	5,099.77
Mean Standard Error	2.30



Forecast: Oil in Oil Fields (cont'd)

Percentiles:

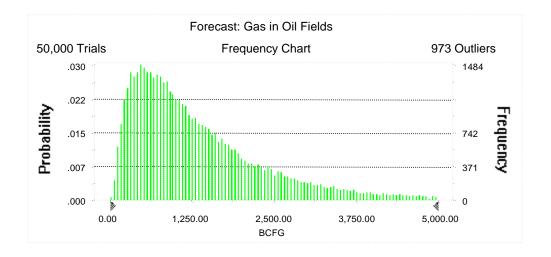
<u>Percentile</u>	MMBC
100%	20.75
95%	114.40
90%	161.13
85%	203.45
80%	244.14
75%	284.37
70%	325.89
65%	368.48
60%	412.18
55%	461.21
50%	512.05
45%	565.83
40%	624.23
35%	690.17
30%	766.42
25%	858.47
20%	964.89
15%	1,103.31
10%	1,300.78
5%	1,668.23
0%	5,120.52

Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 5,000.00 BCFG Entire range is from 28.83 to 11,148.28 BCFG After 50,000 trials, the standard error of the mean is 5.34

Statistics:	<u>Value</u>
Trials	50000
Mean	1,428.46
Median	1,092.87
Mode	
Standard Deviation	1,194.70
Variance	1,427,312.91
Skewness	2.00
Kurtosis	8.92
Coefficient of Variability	0.84
Range Minimum	28.83
Range Maximum	11,148.28
Range Width	11,119.45
Mean Standard Error	5.34



Forecast: Gas in Oil Fields (cont'd)

Percentiles:

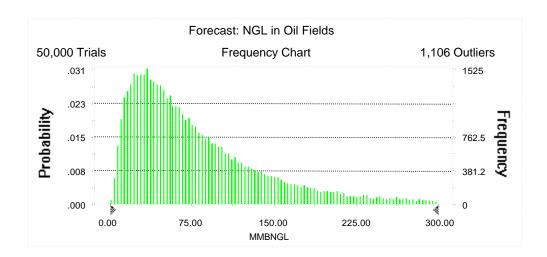
<u>Percentile</u>	<u>BCFG</u>
100%	28.83
95%	237.43
90%	335.35
85%	426.25
80%	511.73
75%	599.77
70%	691.15
65%	781.36
60%	877.18
55%	980.49
50%	1,092.87
45%	1,214.26
40%	1,352.25
35%	1,503.35
30%	1,675.85
25%	1,871.80
20%	2,128.47
15%	2,463.20
10%	2,930.76
5%	3,774.17
0%	11,148.28

Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 300.00 MMBNGL Entire range is from 1.19 to 890.71 MMBNGL After 50,000 trials, the standard error of the mean is 0.34

Statistics:	<u>Value</u>
Trials	50000
Mean	85.84
Median	64.02
Mode	
Standard Deviation	75.33
Variance	5,674.89
Skewness	2.23
Kurtosis	10.90
Coefficient of Variability	0.88
Range Minimum	1.19
Range Maximum	890.71
Range Width	889.52
Mean Standard Error	0.34



Forecast: NGL in Oil Fields (cont'd)

Percentiles:

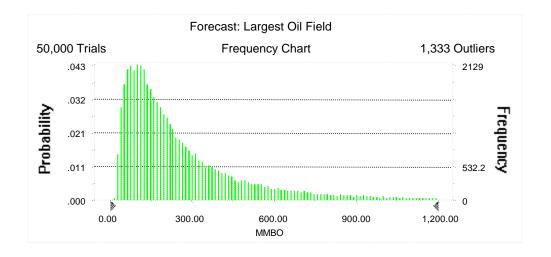
<u>Percentile</u>	MMBNGL
100%	1.19
95%	13.34
90%	19.18
85%	24.46
80%	29.70
75%	34.72
70%	39.85
65%	45.39
60%	51.10
55%	57.42
50%	64.02
45%	71.48
40%	79.54
35%	89.07
30%	99.68
25%	112.24
20%	128.08
15%	148.72
10%	178.59
5%	234.28
0%	890.71

Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 1,200.00 MMBO Entire range is from 20.75 to 2,496.94 MMBO After 50,000 trials, the standard error of the mean is 1.41

Statistics:	<u>Value</u>
Trials	50000
Mean	297.43
Median	193.44
Mode	
Standard Deviation	315.40
Variance	99,474.87
Skewness	2.83
Kurtosis	13.53
Coefficient of Variability	1.06
Range Minimum	20.75
Range Maximum	2,496.94
Range Width	2,476.19
Mean Standard Error	1.41



Forecast: Largest Oil Field (cont'd)

Percentiles:

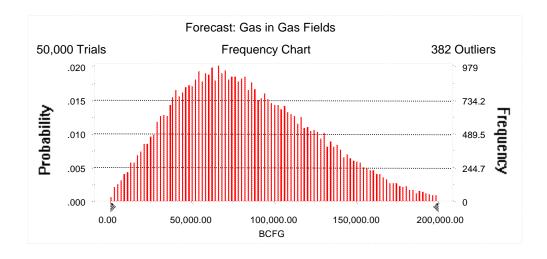
<u>Percentile</u>	MMB	<u>0</u>
100%	20.7	'5
95%	49.9	3
90%	65.6	7
85%	79.9	0
80%	94.1	7
75%	108.5	0
70%	122.7	8
65%	137.8	2
60%	154.5	7
55%	173.3	6
50%	193.4	
45%	216.2	
40%	242.4	
35%	273.5	
30%	311.8	
25%	359.3	
20%	419.9	
15%	506.2	
10%	643.6	
5%	921.4	_
0%	2,496.9	14

Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 200,000.00 BCFG Entire range is from 445.30 to 267,642.92 BCFG After 50,000 trials, the standard error of the mean is 191.23

Statistics:	<u>Value</u>
Trials	50000
Mean	84,041.34
Median	79,048.86
Mode	
Standard Deviation	42,761.38
Variance	1,828,535,440.70
Skewness	0.52
Kurtosis	2.89
Coefficient of Variability	0.51
Range Minimum	445.30
Range Maximum	267,642.92
Range Width	267,197.63
Mean Standard Error	191.23



Forecast: Gas in Gas Fields (cont'd)

Percentiles:

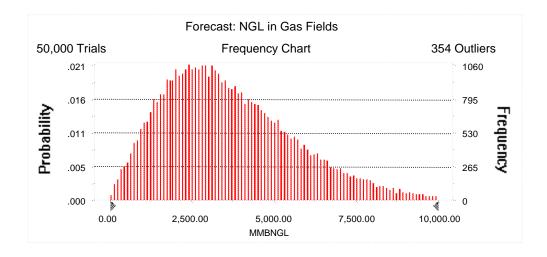
<u>Percentile</u>	<u>BCFG</u>
100%	445.30
95%	22,004.85
90%	31,809.82
85%	39,249.68
80%	45,633.19
75%	51,711.46
70%	57,302.62
65%	62,734.81
60%	68,045.28
55%	73,431.07
50%	79,048.86
45%	84,775.64
40%	90,862.01
35%	97,486.22
30%	104,606.17
25%	112,220.64
20%	120,935.23
15%	130,787.17
10%	143,269.19
5%	161,196.14
0%	267,642.92

Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 10,000.00 MMBNGL Entire range is from 22.10 to 15,954.34 MMBNGL After 50,000 trials, the standard error of the mean is 9.20

Statistics:	<u>Value</u>
Trials	50000
Mean	3,697.44
Median	3,369.72
Mode	
Standard Deviation	2,058.12
Variance	4,235,845.26
Skewness	0.81
Kurtosis	3.65
Coefficient of Variability	0.56
Range Minimum	22.10
Range Maximum	15,954.34
Range Width	15,932.24
Mean Standard Error	9.20



Forecast: NGL in Gas Fields (cont'd)

Percentiles:

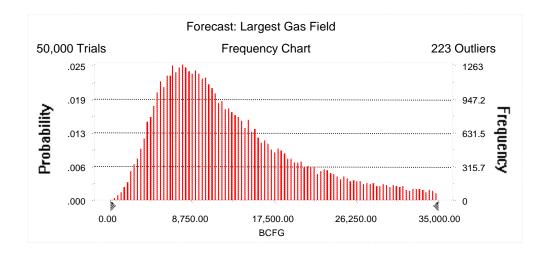
<u>Percentile</u>	MMBNGL
100%	22.10
95%	910.30
90%	1,313.03
85%	1,627.74
80%	1,898.52
75%	2,151.90
70%	2,401.61
65%	2,640.58
60%	2,883.00
55%	3,124.05
50%	3,369.72
45%	3,640.12
40%	3,925.11
35%	4,233.11
30%	4,560.04
25%	4,922.61
20%	5,342.45
15%	5,850.56
10%	6,519.73
5%	7,567.90
0%	15,954.34

Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 35,000.00 BCFG Entire range is from 235.52 to 35,998.61 BCFG After 50,000 trials, the standard error of the mean is 32.69

Statistics:	<u>Value</u>
Trials	50000
Mean	12,709.02
Median	10,933.90
Mode	
Standard Deviation	7,308.87
Variance	53,419,619.12
Skewness	0.99
Kurtosis	3.48
Coefficient of Variability	0.58
Range Minimum	235.52
Range Maximum	35,998.61
Range Width	35,763.10
Mean Standard Error	32.69



Forecast: Largest Gas Field (cont'd)

Percentiles:

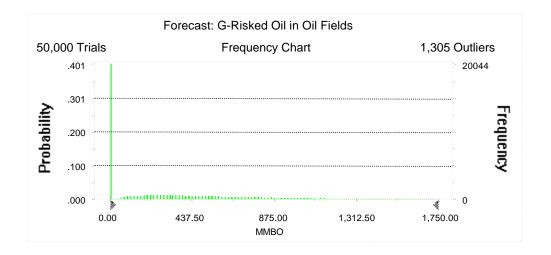
<u>Percentile</u>	<u>BCFG</u>
100%	235.52
95%	3,845.15
90%	4,933.13
85%	5,764.54
80%	6,534.59
75%	7,250.00
70%	7,953.04
65%	8,662.79
60%	9,393.60
55%	10,144.19
50%	10,933.90
45%	11,826.18
40%	12,809.47
35%	13,902.81
30%	15,105.70
25%	16,558.21
20%	18,342.87
15%	20,565.31
10%	23,558.28
5%	28,067.49
0%	35,998.61

Forecast: G-Risked Oil in Oil Fields

Summary:

Display range is from 0.00 to 1,750.00 MMBO Entire range is from 0.00 to 4,621.17 MMBO After 50,000 trials, the standard error of the mean is 2.28

Statistics:	<u>Value</u>
Trials	50000
Mean	388.29
Median	216.29
Mode	0.00
Standard Deviation	509.37
Variance	259,454.30
Skewness	1.96
Kurtosis	8.24
Coefficient of Variability	1.31
Range Minimum	0.00
Range Maximum	4,621.17
Range Width	4,621.17
Mean Standard Error	2.28



Forecast: G-Risked Oil in Oil Fields (cont'd)

Percentiles:

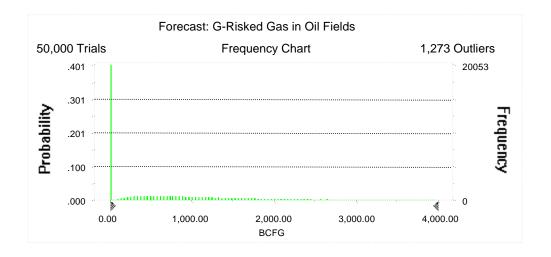
<u>Percentile</u>	MMBO
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	145.96
50%	216.29
45%	283.39
40%	354.93
35%	427.36
30%	510.22
25%	601.71
20%	713.17
15%	855.66
10%	1,052.30
5%	1,398.85
0%	4,621.17

Forecast: G-Risked Gas in Oil Fields

Summary:

Display range is from 0.00 to 4,000.00 BCFG Entire range is from 0.00 to 10,770.30 BCFG After 50,000 trials, the standard error of the mean is 5.19

Statistics:	<u>Value</u>
Trials	50000
Mean	856.28
Median	453.98
Mode	0.00
Standard Deviation	1,159.98
Variance	1,345,543.91
Skewness	2.15
Kurtosis	9.60
Coefficient of Variability	1.35
Range Minimum	0.00
Range Maximum	10,770.30
Range Width	10,770.30
Mean Standard Error	5.19



Forecast: G-Risked Gas in Oil Fields (cont'd)

Percentiles:

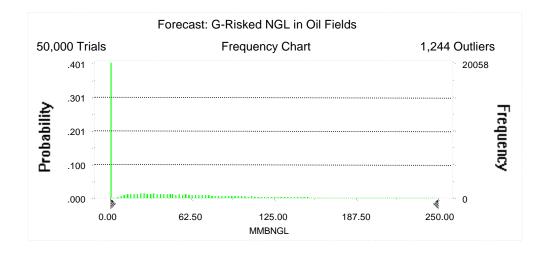
<u>Percentile</u>	<u>BCFG</u>
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	303.78
50%	453.98
45%	596.38
40%	751.77
35%	910.61
30%	1,091.17
25%	1,304.34
20%	1,553.48
15%	1,871.80
10%	2,344.42
5%	3,148.87
0%	10,770.30

Forecast: G-Risked NGL in Oil Fields

Summary:

Display range is from 0.00 to 250.00 MMBNGL Entire range is from 0.00 to 890.71 MMBNGL After 50,000 trials, the standard error of the mean is 0.32

Statistics:	<u>Value</u>
Trials	50000
Mean	51.43
Median	26.08
Mode	0.00
Standard Deviation	71.92
Variance	5,172.92
Skewness	2.39
Kurtosis	11.74
Coefficient of Variability	1.40
Range Minimum	0.00
Range Maximum	890.71
Range Width	890.71
Mean Standard Error	0.32



Forecast: G-Risked NGL in Oil Fields (cont'd)

Percentiles:

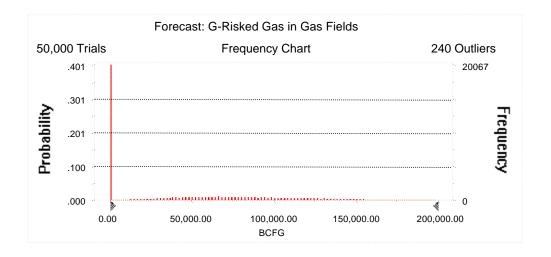
<u>Percentile</u>	MMBNGL
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	17.14
50%	26.08
45%	34.61
40%	43.38
35%	53.28
30%	63.82
25%	76.61
20%	91.88
15%	111.85
10%	140.59
5%	192.58
0%	890.71

Forecast: G-Risked Gas in Gas Fields

Summary:

Display range is from 0.00 to 200,000.00 BCFG Entire range is from 0.00 to 267,187.20 BCFG After 50,000 trials, the standard error of the mean is 236.30

Statistics:	<u>Value</u>
Trials	50000
Mean	50,354.05
Median	41,207.42
Mode	0.00
Standard Deviation	52,838.11
Variance	2,791,866,382.13
Skewness	0.73
Kurtosis	2.56
Coefficient of Variability	1.05
Range Minimum	0.00
Range Maximum	267,187.20
Range Width	267,187.20
Mean Standard Error	236.30



Forecast: G-Risked Gas in Gas Fields (cont'd)

Percentiles:

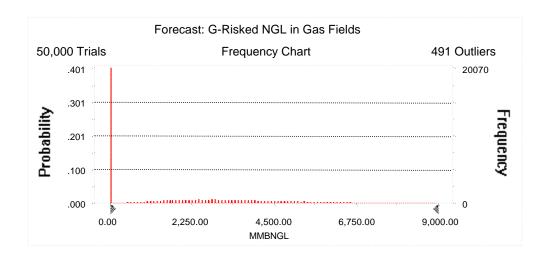
<u>Percentile</u>	<u>BCFG</u>
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	29,115.08
50%	41,207.42
45%	51,603.59
40%	60,833.66
35%	69,697.45
30%	78,825.99
25%	88,571.91
20%	99,620.10
15%	112,204.72
10%	127,228.46
5%	148,530.57
0%	267,187.20

Forecast: G-Risked NGL in Gas Fields

Summary:

Display range is from 0.00 to 9,000.00 MMBNGL Entire range is from 0.00 to 13,766.24 MMBNGL After 50,000 trials, the standard error of the mean is 10.78

Statistics:	<u>Value</u>
Trials	50000
Mean	2,213.51
Median	1,714.70
Mode	0.00
Standard Deviation	2,410.78
Variance	5,811,880.13
Skewness	0.93
Kurtosis	3.23
Coefficient of Variability	1.09
Range Minimum	0.00
Range Maximum	13,766.24
Range Width	13,766.24
Mean Standard Error	10.78



Forecast: G-Risked NGL in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	MMBNGL
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	1,179.62
50%	1,714.70
45%	2,147.08
40%	2,553.57
35%	2,950.24
30%	3,353.75
25%	3,809.17
20%	4,322.09
15%	4,923.35
10%	5,674.76
5%	6,808.74
0%	13,766.24

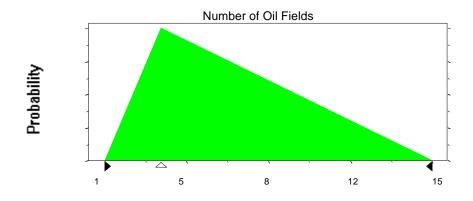
Assumptions

Assumption: Number of Oil Fields

Triangular	distribution	with	parameters:

Minimum	1
Likeliest	3
Maximum	15

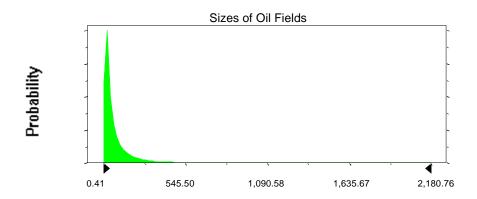
Selected range is from 1 to 15 Mean value in simulation was 6



Assumption: Sizes of Oil Fields

Lognormal distribution with para	Shifted parameters	
Mean	83.25	103.25
Standard Deviation	215.50	215.5
Selected range is from 0.00 to 2,	20.00 to 2,500.00	
Mean value in simulation was 79	99 78	

Assumption: Sizes of Oil Fields (cont'd)

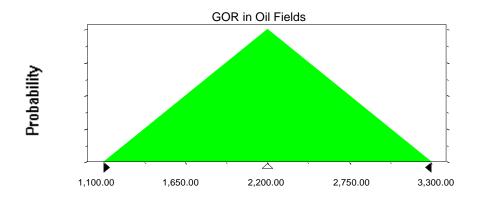


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	1,100.00
Likeliest	2,200.00
Maximum	3,300.00

Selected range is from 1,100.00 to 3,300.00 Mean value in simulation was 2,199.87



Assumption: LGR in Oil Fields

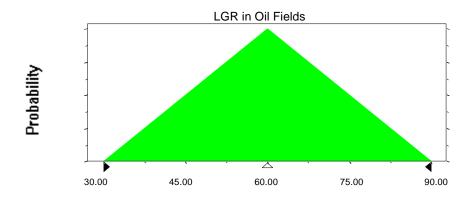
Triangular distribution with parameters:

 Minimum
 30.00

 Likeliest
 60.00

 Maximum
 90.00

Selected range is from 30.00 to 90.00 Mean value in simulation was 60.11



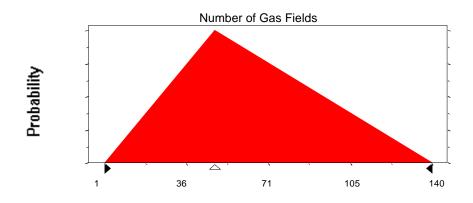
Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum 1 Likeliest 48 Maximum 140

Selected range is from 1 to 140 Mean value in simulation was 63

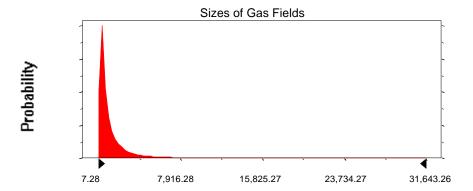
Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	1,272.10	1,392.10
Standard Deviation	3,122.12	3,122.12
Selected range is from 0.00 to 35,880.00		120.00 to 36,000.00

Selected range is from 0.00 to 35,880.00 120
Mean value in simulation was 1,215.56



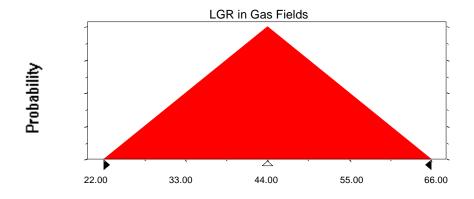
1,335.56

Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	22.00
Likeliest	44.00
Maximum	66.00

Selected range is from 22.00 to 66.00 Mean value in simulation was 44.03



End of Assumptions

Simulation started on 1/4/00 at 16:43:33 Simulation stopped on 1/4/00 at 17:30:44