

**Eastern Fold Belt, Assessment Unit 80470302
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 Type	MFS	Prob. (0-1)	Undiscovered Resources												Largest Undiscovered Field (MMBO or BCFG)			
			Oil (MMBO)				Gas (BCFG)				NGL (MMBNGL)				F95	F50	F5	Mean
			F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean				
Oil Fields	2	1.00	8	22	46	24	16	47	108	53	1	3	7	3	3	7	20	9
Gas Fields	12						7,321	24,527	51,784	26,441	26	96	250	111	1,030	2,946	6,811	3,312
Total		1.00	8	22	46	24	7,338	24,574	51,891	26,494	27	99	257	115				

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Forecast: Oil in Oil Fields

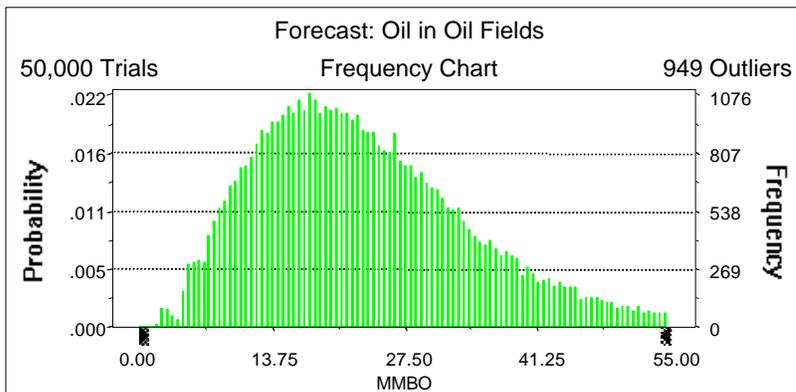
Summary:

Display range is from 0.00 to 55.00 MMBO

Entire range is from 2.05 to 116.60 MMBO

After 50,000 trials, the standard error of the mean is 0.05

Statistics:	<u>Value</u>
Trials	50000
Mean	23.92
Median	22.02
Mode	---
Standard Deviation	11.95
Variance	142.82
Skewness	1.04
Kurtosis	4.73
Coefficient of Variability	0.50
Range Minimum	2.05
Range Maximum	116.60
Range Width	114.55
Mean Standard Error	0.05



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Forecast: Oil in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	2.05
95%	8.17
90%	10.43
85%	12.23
80%	13.79
75%	15.23
70%	16.60
65%	17.94
60%	19.27
55%	20.62
50%	22.02
45%	23.47
40%	25.03
35%	26.68
30%	28.47
25%	30.46
20%	32.79
15%	35.72
10%	39.59
5%	46.20
0%	116.60

End of Forecast

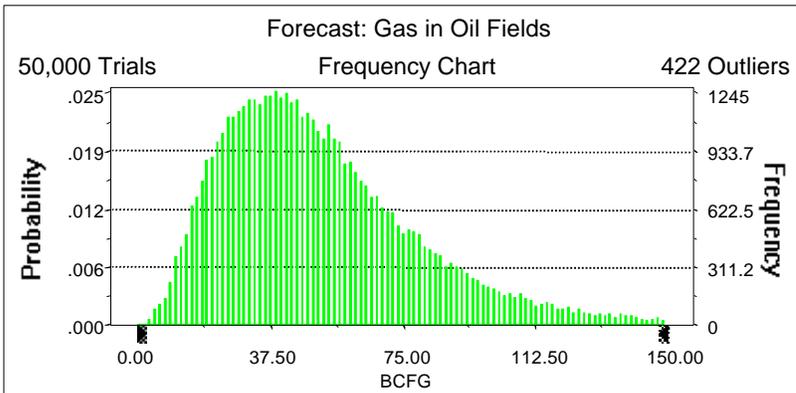
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Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 150.00 BCFG
Entire range is from 2.51 to 268.51 BCFG
After 50,000 trials, the standard error of the mean is 0.13

Statistics:	<u>Value</u>
Trials	50000
Mean	52.70
Median	47.33
Mode	---
Standard Deviation	28.99
Variance	840.69
Skewness	1.26
Kurtosis	5.61
Coefficient of Variability	0.55
Range Minimum	2.51
Range Maximum	268.51
Range Width	266.00
Mean Standard Error	0.13



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Forecast: Gas in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	2.51
95%	16.45
90%	21.25
85%	25.15
80%	28.54
75%	31.77
70%	34.91
65%	38.03
60%	41.05
55%	44.15
50%	47.33
45%	50.62
40%	54.36
35%	58.04
30%	62.34
25%	67.42
20%	73.31
15%	80.64
10%	90.82
5%	107.82
0%	268.51

End of Forecast

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Forecast: NGL in Oil Fields

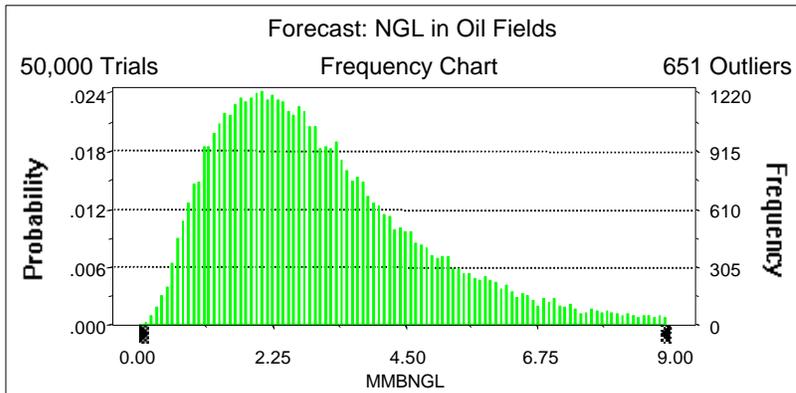
Summary:

Display range is from 0.00 to 9.00 MMBNGL

Entire range is from 0.13 to 20.35 MMBNGL

After 50,000 trials, the standard error of the mean is 0.01

Statistics:	<u>Value</u>
Trials	50000
Mean	3.16
Median	2.77
Mode	---
Standard Deviation	1.88
Variance	3.55
Skewness	1.44
Kurtosis	6.39
Coefficient of Variability	0.60
Range Minimum	0.13
Range Maximum	20.35
Range Width	20.22
Mean Standard Error	0.01



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Forecast: NGL in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.13
95%	0.90
90%	1.18
85%	1.41
80%	1.61
75%	1.81
70%	2.00
65%	2.18
60%	2.37
55%	2.56
50%	2.77
45%	2.97
40%	3.20
35%	3.44
30%	3.73
25%	4.05
20%	4.45
15%	4.94
10%	5.63
5%	6.76
0%	20.35

End of Forecast

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Forecast: Largest Oil Field

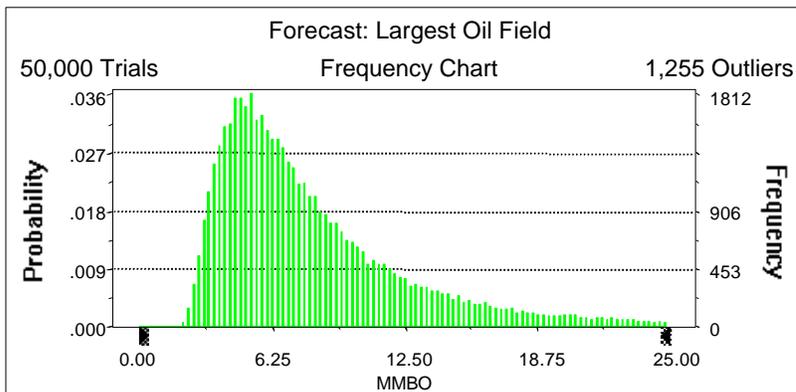
Summary:

Display range is from 0.00 to 25.00 MMBO

Entire range is from 2.05 to 44.98 MMBO

After 50,000 trials, the standard error of the mean is 0.03

Statistics:	Value
Trials	50000
Mean	8.70
Median	7.01
Mode	---
Standard Deviation	5.70
Variance	32.45
Skewness	2.33
Kurtosis	10.38
Coefficient of Variability	0.66
Range Minimum	2.05
Range Maximum	44.98
Range Width	42.93
Mean Standard Error	0.03



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Forecast: Largest Oil Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	2.05
95%	3.40
90%	3.89
85%	4.30
80%	4.68
75%	5.03
70%	5.38
65%	5.76
60%	6.14
55%	6.56
50%	7.01
45%	7.51
40%	8.07
35%	8.71
30%	9.46
25%	10.36
20%	11.53
15%	13.08
10%	15.39
5%	19.98
0%	44.98

End of Forecast

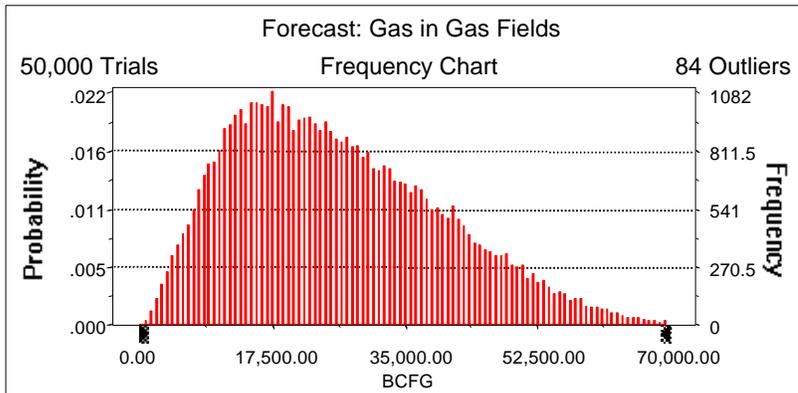
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Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 70,000.00 BCFG
Entire range is from 670.20 to 88,093.78 BCFG
After 50,000 trials, the standard error of the mean is 61.63

Statistics:	Value
Trials	50000
Mean	26,441.24
Median	24,526.90
Mode	---
Standard Deviation	13,780.16
Variance	189,892,852.29
Skewness	0.57
Kurtosis	2.80
Coefficient of Variability	0.52
Range Minimum	670.20
Range Maximum	88,093.78
Range Width	87,423.58
Mean Standard Error	61.63



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Forecast: Gas in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	670.20
95%	7,321.27
90%	9,939.44
85%	12,024.47
80%	13,828.86
75%	15,604.54
70%	17,299.15
65%	19,055.03
60%	20,809.43
55%	22,644.82
50%	24,526.90
45%	26,435.02
40%	28,516.58
35%	30,685.64
30%	33,095.37
25%	35,694.71
20%	38,551.57
15%	41,818.71
10%	45,925.91
5%	51,783.63
0%	88,093.78

End of Forecast

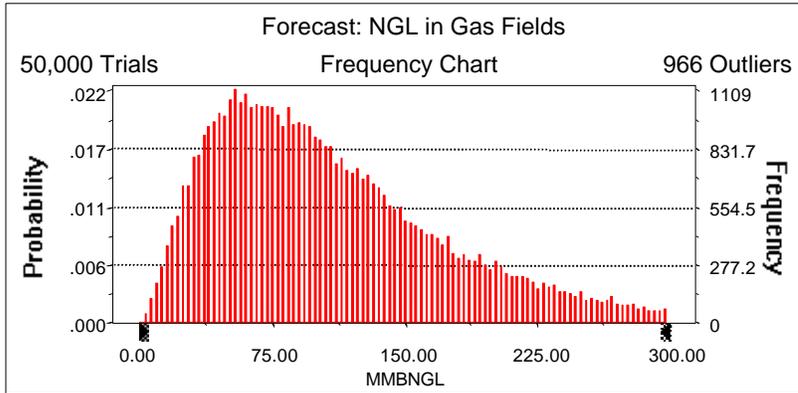
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Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 300.00 MMBNGL
Entire range is from 2.18 to 601.18 MMBNGL
After 50,000 trials, the standard error of the mean is 0.31

Statistics:	Value
Trials	50000
Mean	111.44
Median	96.20
Mode	---
Standard Deviation	70.35
Variance	4,948.84
Skewness	1.18
Kurtosis	4.68
Coefficient of Variability	0.63
Range Minimum	2.18
Range Maximum	601.18
Range Width	599.00
Mean Standard Error	0.31



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Forecast: NGL in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	2.18
95%	26.38
90%	36.45
85%	44.49
80%	51.98
75%	58.90
70%	66.02
65%	73.34
60%	80.66
55%	88.31
50%	96.20
45%	104.69
40%	113.80
35%	124.00
30%	134.80
25%	147.59
20%	163.27
15%	182.76
10%	208.51
5%	249.75
0%	601.18

End of Forecast

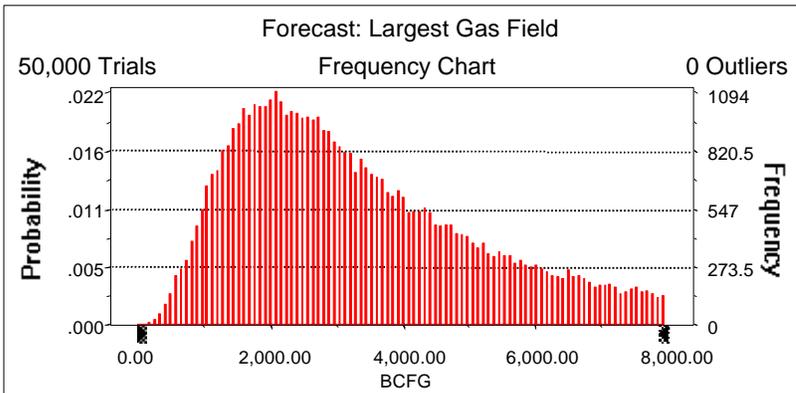
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Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 8,000.00 BCFG
Entire range is from 147.03 to 7,999.53 BCFG
After 50,000 trials, the standard error of the mean is 7.85

Statistics:	Value
Trials	50000
Mean	3,311.86
Median	2,945.80
Mode	---
Standard Deviation	1,755.06
Variance	3,080,246.65
Skewness	0.69
Kurtosis	2.71
Coefficient of Variability	0.53
Range Minimum	147.03
Range Maximum	7,999.53
Range Width	7,852.50
Mean Standard Error	7.85



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Forecast: Largest Gas Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	147.03
95%	1,030.43
90%	1,313.45
85%	1,543.05
80%	1,748.47
75%	1,941.10
70%	2,132.35
65%	2,323.94
60%	2,527.76
55%	2,733.30
50%	2,945.80
45%	3,184.25
40%	3,444.75
35%	3,729.16
30%	4,050.13
25%	4,418.01
20%	4,835.86
15%	5,347.60
10%	5,986.22
5%	6,810.82
0%	7,999.53

End of Forecast

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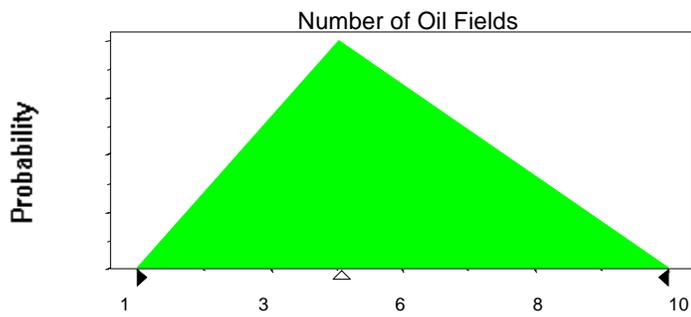
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	4
Maximum	10

Selected range is from 1 to 10
Mean value in simulation was 5



Assumption: Sizes of Oil Fields

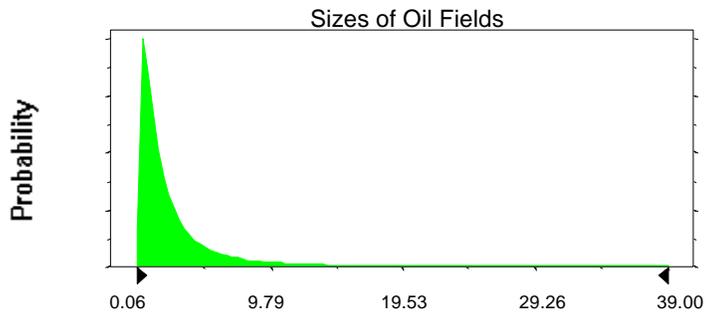
Lognormal distribution with parameters:

Mean	2.71	Shifted parameters	4.71
Standard Deviation	4.06		4.06

Selected range is from 0.00 to 43.00 2.00 to 45.00
Mean value in simulation was 2.66 4.66

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Assumption: Sizes of Oil Fields (cont'd)

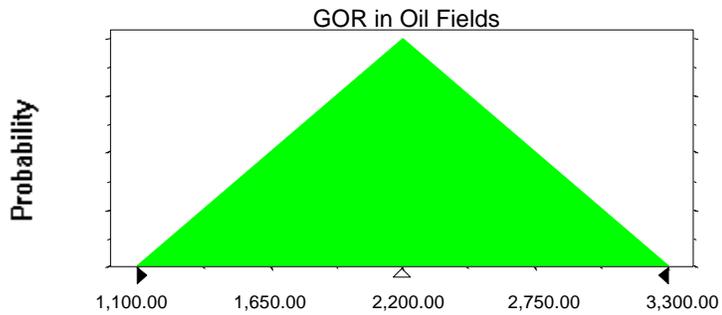


Assumption: GOR in Oil Fields

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 2,202.50



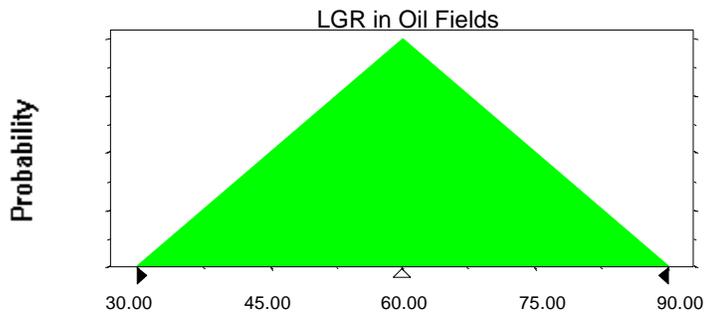
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Assumption: LGR in Oil Fields

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 59.85



Assumption: Number of Gas Fields

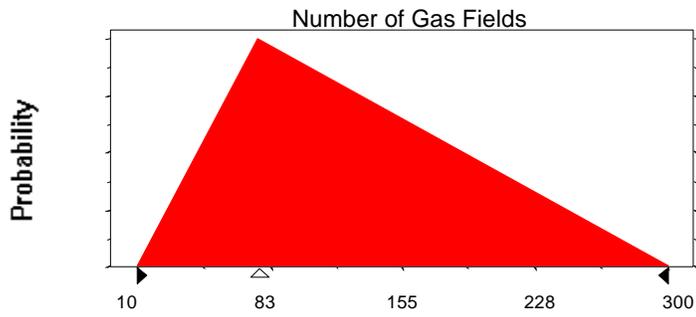
Triangular distribution with parameters:

Minimum	10
Likeliest	77
Maximum	300

Selected range is from 10 to 300
Mean value in simulation was 129

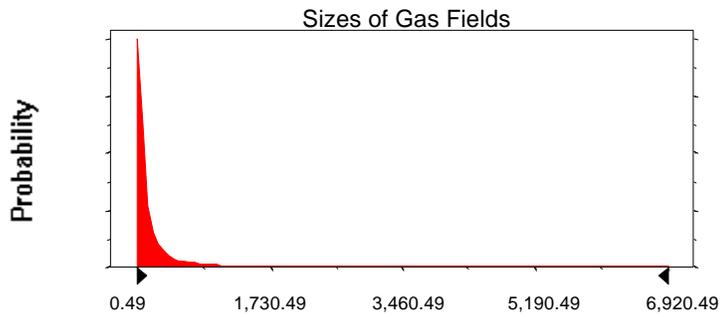
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Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:	Shifted parameters	
Mean	206.59	218.59
Standard Deviation	706.28	706.28
Selected range is from 0.00 to 7,988.00	12.00 to 8,000.00	
Mean value in simulation was 193.42	205.42	



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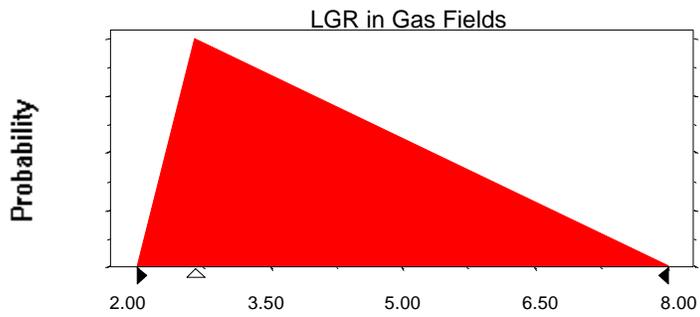
Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	2.00
Likeliest	2.67
Maximum	8.00

Selected range is from 2.00 to 8.00

Mean value in simulation was 4.21



End of Assumptions

Simulation started on 8/24/99 at 15:53:53
Simulation stopped on 8/24/99 at 17:05:41