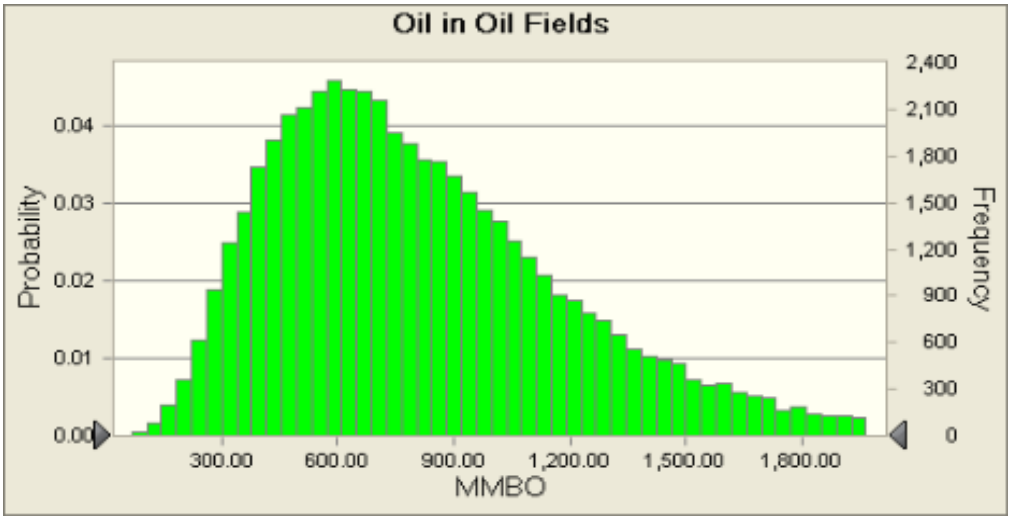
60990101
Main Maracaibo Basin
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 67.27 to 3,821.06
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.82



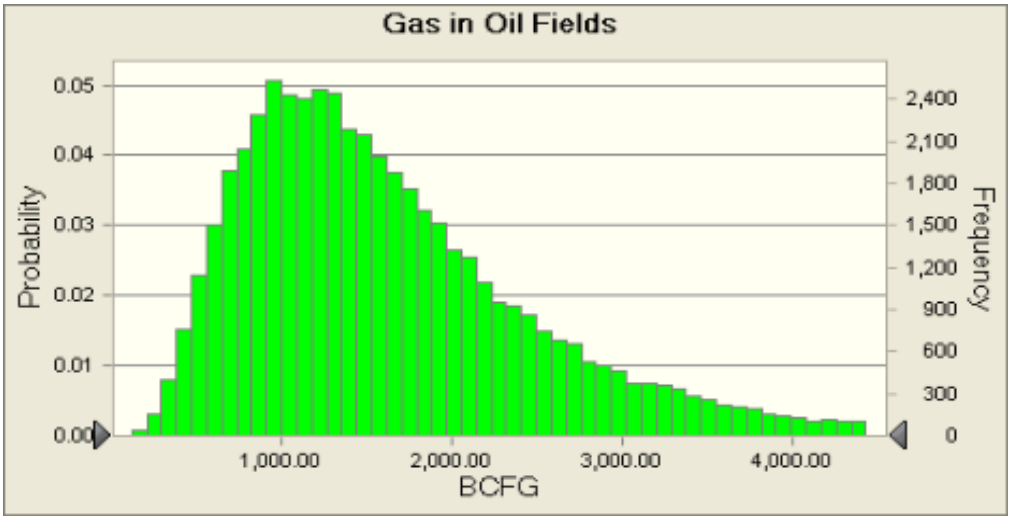
Statistics:	Forecast values
Trials	50,000
Mean	827.10
Median	749.82
Mode	---
Standard Deviation	406.79
Variance	165,475.37
Skewness	1.10
Kurtosis	4.77
Coefficient of Variability	0.4918
Minimum	67.27
Maximum	3,821.06
Range Width	3,753.80
Mean Standard Error	1.82

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	67.27
95%	309.38
90%	380.62
85%	433.70
80%	482.95
75%	529.31
70%	572.92
65%	615.18
60%	659.25
55%	703.33
50%	749.82
45%	801.52
40%	856.56
35%	912.86
30%	975.62
25%	1,045.97
20%	1,127.87
15%	1,234.57
10%	1,375.02
5%	1,602.50
0%	3,821.06

Forecast: Gas in Oil Fields

Summary:
Entire range is from 116.20 to 12,004.22
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 4.41



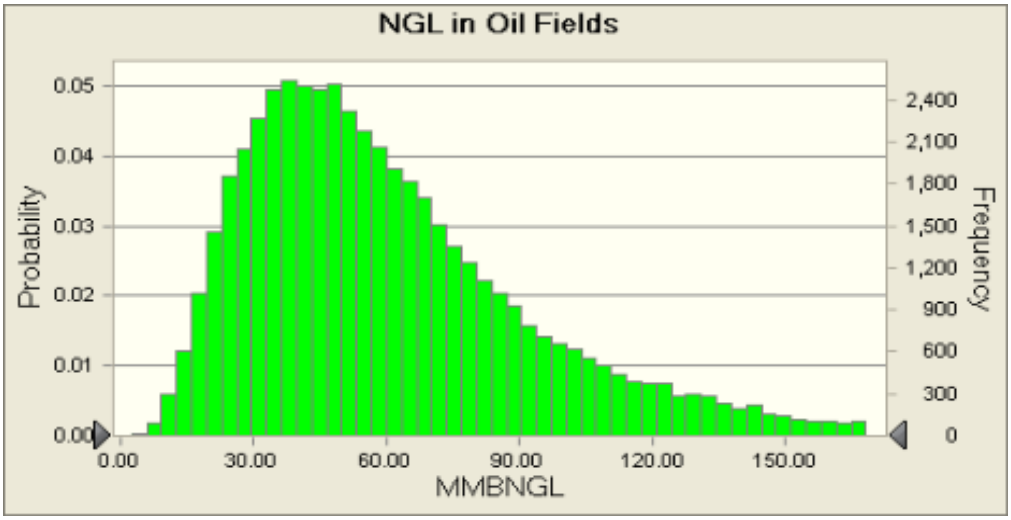
Statistics:	Forecast values
Trials	50,000
Mean	1,668.96
Median	1,448.17
Mode	---
Standard Deviation	985.68
Variance	971,568.54
Skewness	1.88
Kurtosis	9.84
Coefficient of Variability	0.5906
Minimum	116.20
Maximum	12,004.22
Range Width	11,888.02
Mean Standard Error	4.41

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	116.20
95%	556.35
90%	691.98
85%	801.72
80%	899.48
75%	988.22
70%	1,077.50
65%	1,169.08
60%	1,258.06
55%	1,347.77
50%	1,448.17
45%	1,553.96
40%	1,664.94
35%	1,789.12
30%	1,928.12
25%	2,089.88
20%	2,290.91
15%	2,545.66
10%	2,908.88
5%	3,520.95
0%	12,004.22

Forecast: NGL in Oil Fields

Summary:
Entire range is from 2.48 to 554.68
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.17



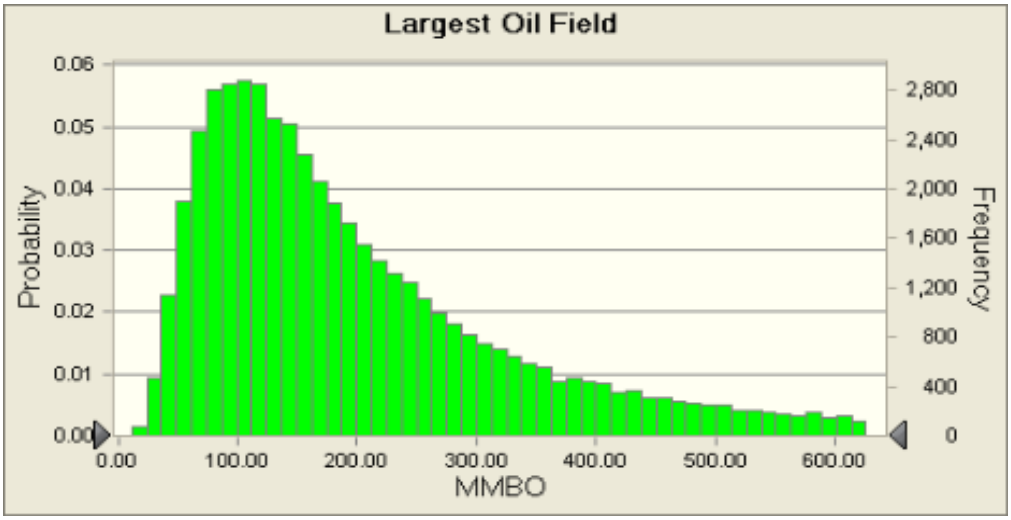
Statistics:	Forecast values
Trials	50,000
Mean	62.51
Median	53.93
Mode	---
Standard Deviation	37.71
Variance	1,421.82
Skewness	2.02
Kurtosis	11.26
Coefficient of Variability	0.6032
Minimum	2.48
Maximum	554.68
Range Width	552.20
Mean Standard Error	0.17

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	2.48
95%	20.65
90%	25.57
85%	29.69
80%	33.38
75%	36.79
70%	40.07
65%	43.50
60%	46.86
55%	50.25
50%	53.93
45%	57.89
40%	62.19
35%	66.80
30%	72.00
25%	78.19
20%	85.61
15%	95.60
10%	109.49
5%	133.13
0%	554.68

Forecast: Largest Oil Field

Summary:
Entire range is from 11.21 to 799.67
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.67



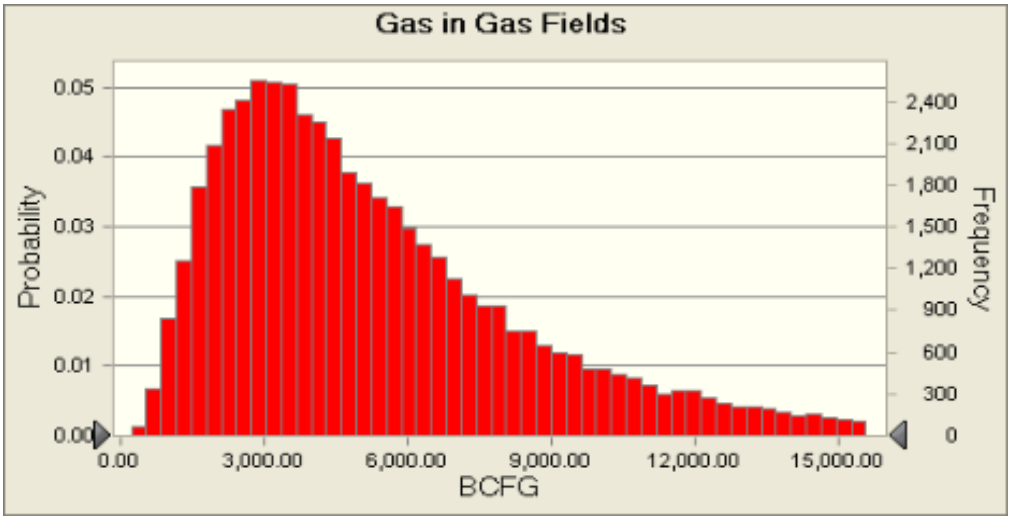
Statistics:	Forecast values
Trials	50,000
Mean	208.66
Median	163.03
Mode	---
Standard Deviation	149.20
Variance	22,260.98
Skewness	1.50
Kurtosis	5.12
Coefficient of Variability	0.7150
Minimum	11.21
Maximum	799.67
Range Width	788.46
Mean Standard Error	0.67

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	11.21
95%	54.76
90%	68.95
85%	80.65
80%	91.62
75%	102.77
70%	113.50
65%	124.55
60%	136.79
55%	149.24
50%	163.03
45%	178.43
40%	196.16
35%	216.23
30%	240.02
25%	267.54
20%	303.04
15%	350.70
10%	420.13
5%	535.16
0%	799.67

Forecast: Gas in Gas Fields

Summary:
Entire range is from 207.93 to 35,763.32
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 16.16



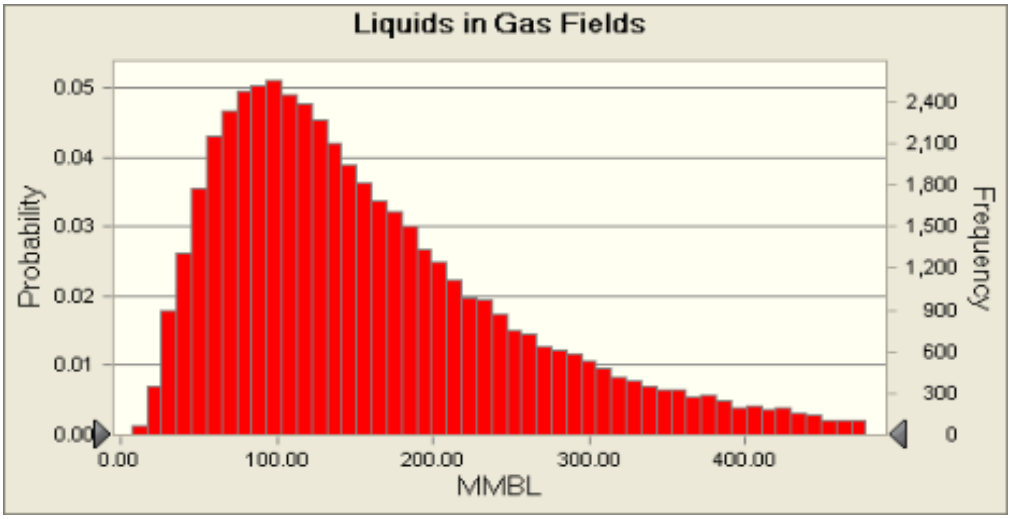
Statistics:	Forecast values
Trials	50,000
Mean	5,463.03
Median	4,537.19
Mode	---
Standard Deviation	3,613.81
Variance	13,059,595.89
Skewness	1.56
Kurtosis	6.43
Coefficient of Variability	0.6615
Minimum	207.93
Maximum	35,763.32
Range Width	35,555.39
Mean Standard Error	16.16

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	207.93
95%	1,464.68
90%	1,891.95
85%	2,248.83
80%	2,578.96
75%	2,886.22
70%	3,199.08
65%	3,506.20
60%	3,837.88
55%	4,170.99
50%	4,537.12
45%	4,945.98
40%	5,386.87
35%	5,862.82
30%	6,399.10
25%	7,040.64
20%	7,844.23
15%	8,864.08
10%	10,323.90
5%	12,669.90
0%	35,763.32

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 6.46 to 1,095.32
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.50



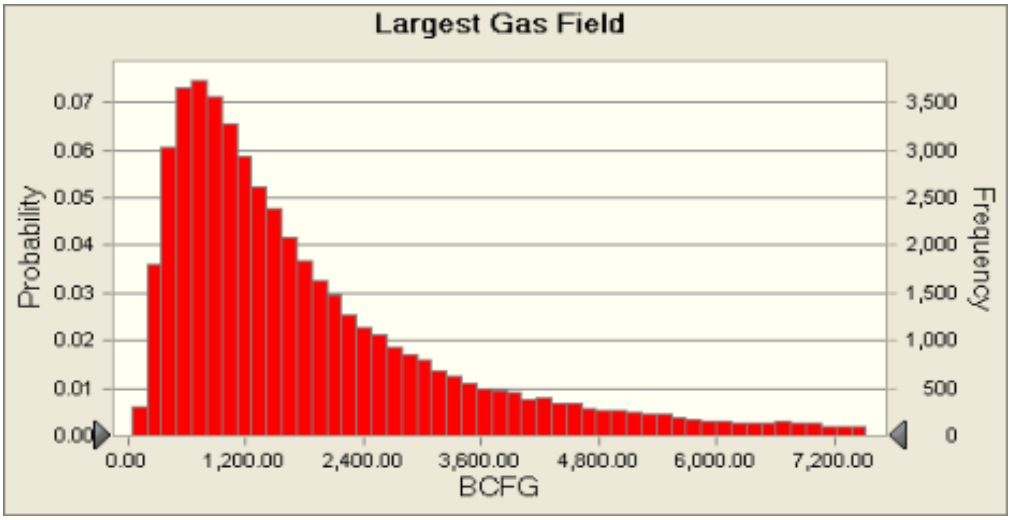
Statistics:	Forecast values
Trials	50,000
Mean	166.60
Median	138.22
Mode	---
Standard Deviation	110.99
Variance	12,318.66
Skewness	1.59
Kurtosis	6.59
Coefficient of Variability	0.6662
Minimum	6.46
Maximum	1,095.32
Range Width	1,088.86
Mean Standard Error	0.50

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	6.46
95%	44.17
90%	57.49
85%	67.99
80%	78.23
75%	87.74
70%	97.23
65%	106.84
60%	116.65
55%	126.98
50%	138.22
45%	150.29
40%	163.66
35%	178.35
30%	194.92
25%	214.95
20%	239.16
15%	271.09
10%	314.02
5%	387.34
0%	1,095.32

Forecast: Largest Gas Field

Summary:
Entire range is from 38.07 to 11,991.29
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 8.71



Statistics:	Forecast values
Trials	50,000
Mean	2,072.09
Median	1,418.88
Mode	---
Standard Deviation	1,948.27
Variance	3,795,745.46
Skewness	2.12
Kurtosis	8.11
Coefficient of Variability	0.9402
Minimum	38.07
Maximum	11,991.29
Range Width	11,953.22
Mean Standard Error	8.71

Forecast: Largest Gas Field (continued)

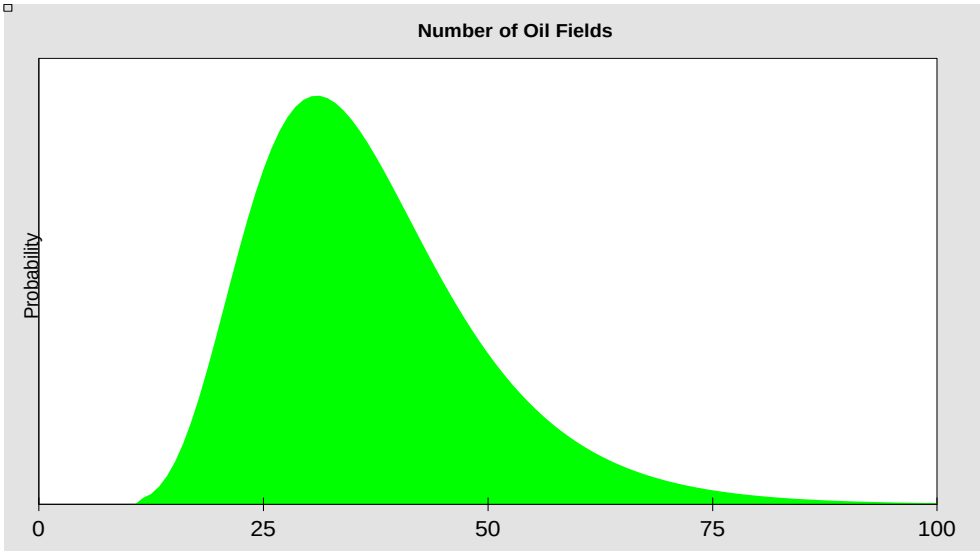
Percentiles:	BCFG
100%	38.07
95%	368.33
90%	491.76
85%	598.54
80%	698.43
75%	801.50
70%	906.29
65%	1,021.20
60%	1,137.94
55%	1,270.94
50%	1,418.86
45%	1,579.75
40%	1,767.52
35%	1,986.74
30%	2,256.47
25%	2,585.57
20%	3,017.32
15%	3,619.90
10%	4,544.51
5%	6,286.45
0%	11,991.29

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	36.10	37.1
Standard Deviation	12.87	12.87
Selected range is from -Infinity to 99.00		1.00 to 100.00



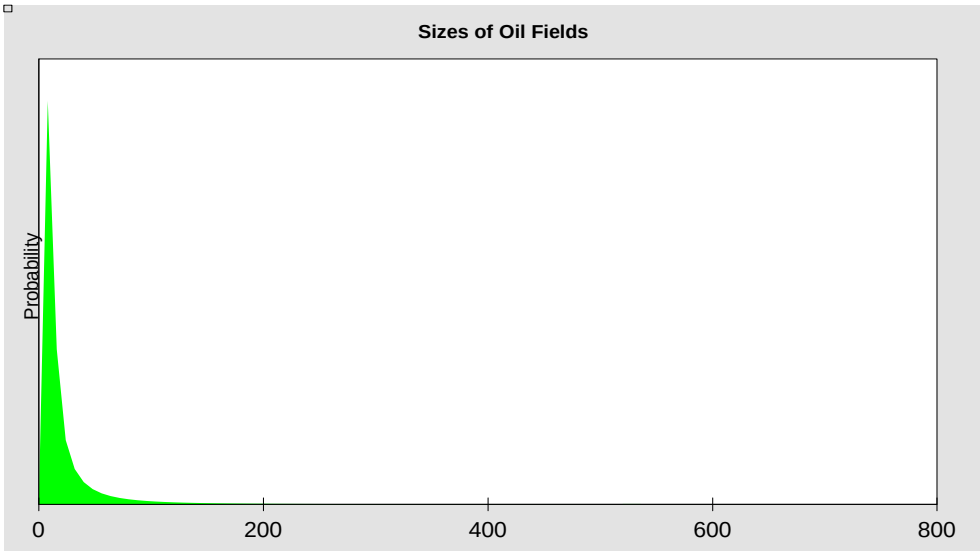
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	36.96	37.02
Median	34.94	34.99
Mode	---	---
Standard Deviation	12.58	12.66
Variance	158.26	160.25
Skewness	0.9810	0.9809
Kurtosis	4.38	4.37
Coefficient of Variability	0.3404	0.3419
Minimum	7.22	1.00
Maximum	99.99	100.00
Range Width	92.77	99.00
Mean Standard Error	0.06	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	7.22	1.00
95%	20.26	20.25
90%	22.82	22.82
85%	24.75	24.75
80%	26.43	26.41
75%	27.97	27.92
70%	29.40	29.35
65%	30.72	30.75
60%	32.07	32.14
55%	33.48	33.54
50%	34.94	34.99
45%	36.43	36.49
40%	38.03	38.09
35%	39.75	39.82
30%	41.60	41.73
25%	43.80	43.90
20%	46.30	46.44
15%	49.51	49.60
10%	53.72	53.87
5%	60.75	60.87
0%	99.99	100.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	22.67	23.67
Standard Deviation	69.85	69.85
Selected range is from -Infinity to 799.00		1.00 to 800.00



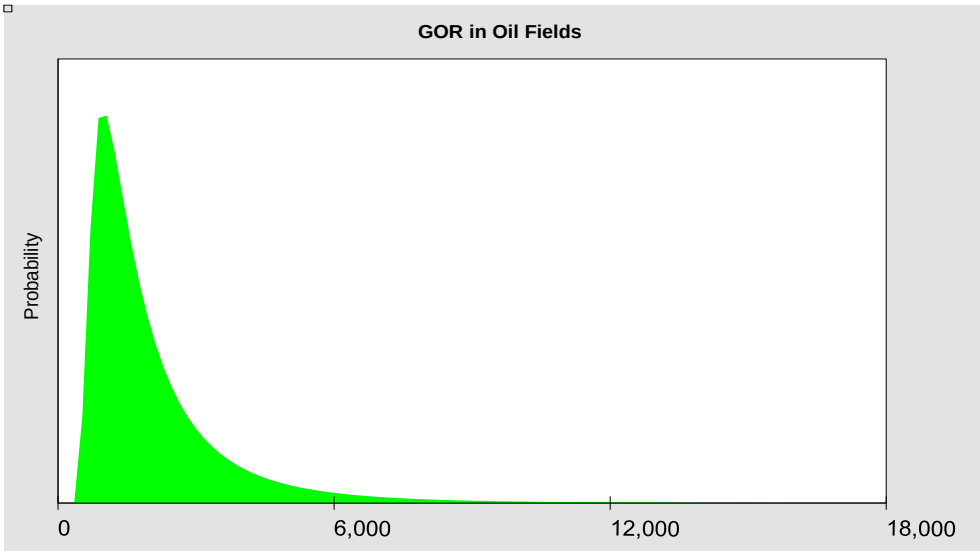
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	22.06	22.39
Median	7.91	7.99
Mode	---	---
Standard Deviation	46.92	47.89
Variance	2,201.58	2,293.35
Skewness	6.58	6.61
Kurtosis	65.20	65.53
Coefficient of Variability	2.13	2.14
Minimum	1.01	1.00
Maximum	797.15	800.00
Range Width	796.14	799.00
Mean Standard Error	0.21	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.01	1.00
95%	1.57	1.56
90%	1.99	1.98
85%	2.42	2.43
80%	2.90	2.92
75%	3.47	3.49
70%	4.12	4.13
65%	4.85	4.87
60%	5.69	5.74
55%	6.71	6.76
50%	7.91	7.99
45%	9.38	9.47
40%	11.27	11.30
35%	13.54	13.60
30%	16.54	16.59
25%	20.43	20.62
20%	25.93	26.33
15%	34.57	35.10
10%	50.12	50.55
5%	86.78	86.94
0%	797.15	800.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	1,645.20	2,045.20
Standard Deviation	1,829.76	1,829.76
Selected range is from -Infinity to 17,600.00		400.00 to 18,000.00



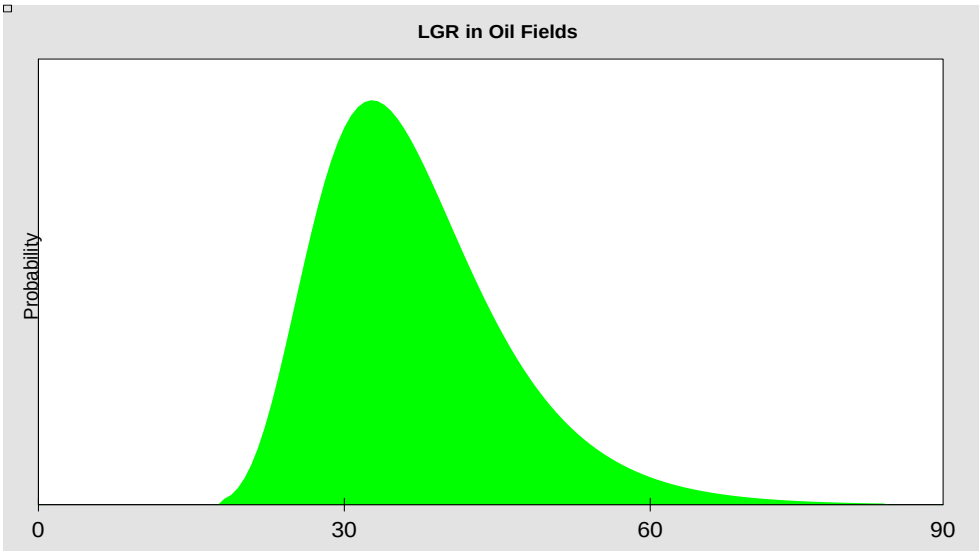
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	2,025.70	2,023.51
Median	1,507.47	1,498.76
Mode	---	---
Standard Deviation	1,673.69	1,683.40
Variance	2,801,243.56	2,833,822.02
Skewness	3.05	3.06
Kurtosis	17.18	17.09
Coefficient of Variability	0.83	0.83
Minimum	426.96	400.00
Maximum	17,833.70	18,000.00
Range Width	17,406.74	17,600.00
Mean Standard Error	7.48	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	426.96	400.00
95%	654.26	651.32
90%	749.74	748.15
85%	832.48	833.77
80%	913.79	916.59
75%	998.52	1,000.13
70%	1,084.58	1,086.60
65%	1,175.92	1,177.81
60%	1,276.86	1,275.52
55%	1,389.15	1,381.71
50%	1,507.44	1,498.76
45%	1,641.48	1,629.76
40%	1,790.27	1,778.83
35%	1,963.21	1,951.89
30%	2,172.59	2,157.75
25%	2,430.86	2,410.53
20%	2,751.26	2,734.77
15%	3,188.99	3,178.78
10%	3,860.39	3,857.78
5%	5,171.47	5,173.08
0%	17,833.70	18,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	27.53	37.53
Standard Deviation	9.59	9.59
Selected range is from -Infinity to 74.00		10.00 to 84.00



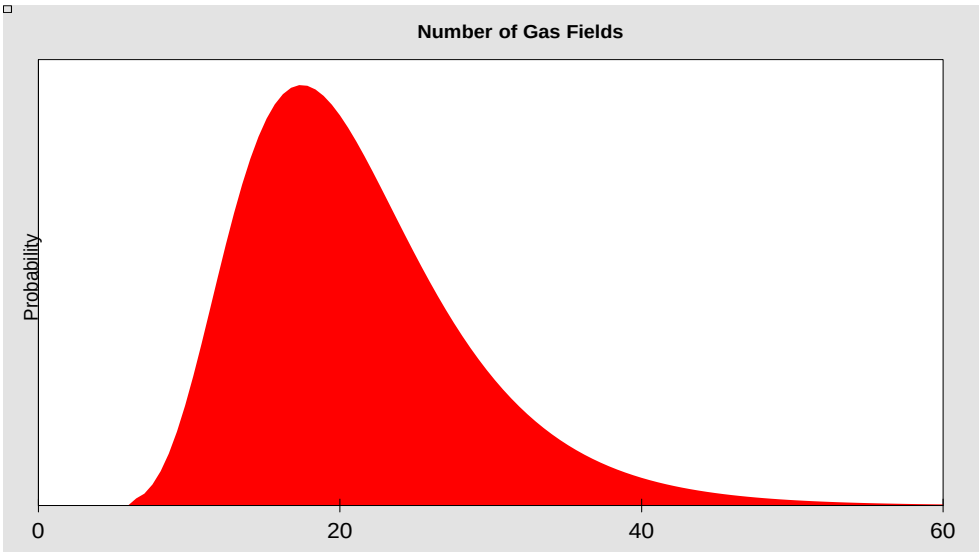
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	37.47	37.48
Median	35.98	35.99
Mode	---	---
Standard Deviation	9.45	9.44
Variance	89.23	89.14
Skewness	0.9719	0.9581
Kurtosis	4.38	4.30
Coefficient of Variability	0.2521	0.2519
Minimum	16.63	10.00
Maximum	83.95	84.00
Range Width	67.33	74.00
Mean Standard Error	0.04	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	16.63	10.00
95%	24.93	24.90
90%	26.83	26.85
85%	28.28	28.30
80%	29.51	29.55
75%	30.66	30.69
70%	31.74	31.76
65%	32.82	32.81
60%	33.86	33.85
55%	34.91	34.91
50%	35.98	35.99
45%	37.13	37.12
40%	38.30	38.31
35%	39.60	39.60
30%	41.03	41.03
25%	42.60	42.64
20%	44.45	44.54
15%	46.84	46.88
10%	50.05	50.05
5%	55.15	55.23
0%	83.95	84.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	20.32	21.32
Standard Deviation	7.71	7.71
Selected range is from -Infinity to 59.00		1.00 to 60.00



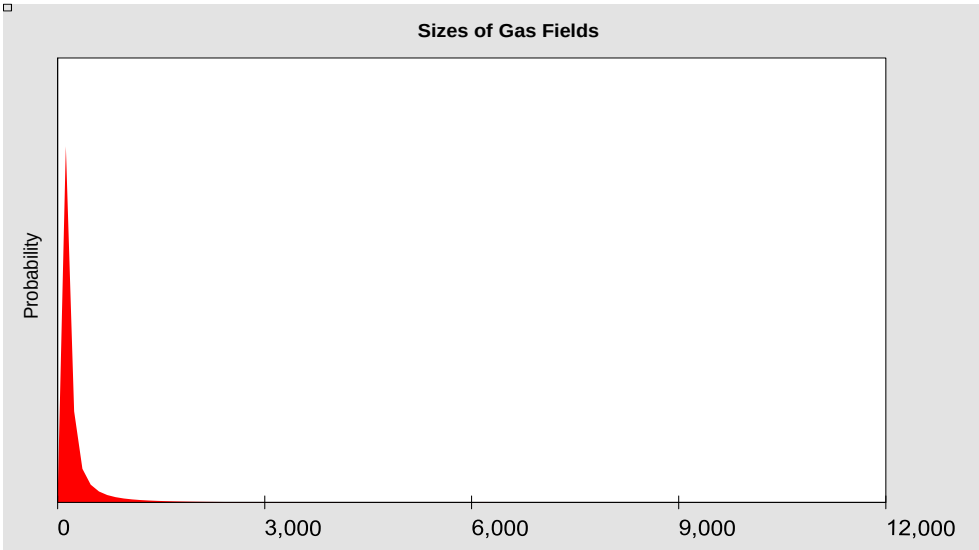
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	21.24	21.28
Median	19.95	19.99
Mode	---	---
Standard Deviation	7.56	7.58
Variance	57.19	57.40
Skewness	1.06	1.05
Kurtosis	4.61	4.57
Coefficient of Variability	0.3560	0.3561
Minimum	5.59	1.00
Maximum	59.95	60.00
Range Width	54.35	59.00
Mean Standard Error	0.03	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.59	1.00
95%	11.45	11.39
90%	12.91	12.87
85%	13.98	13.99
80%	14.93	14.95
75%	15.80	15.83
70%	16.65	16.67
65%	17.43	17.49
60%	18.28	18.31
55%	19.11	19.14
50%	19.95	19.99
45%	20.82	20.89
40%	21.76	21.84
35%	22.79	22.87
30%	23.92	24.01
25%	25.23	25.31
20%	26.79	26.84
15%	28.65	28.75
10%	31.31	31.34
5%	35.64	35.61
0%	59.95	60.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	272.33	278.33
Standard Deviation	1,090.18	1,090.18
Selected range is from -Infinity to 11,994.00		6.00 to 12,000.00



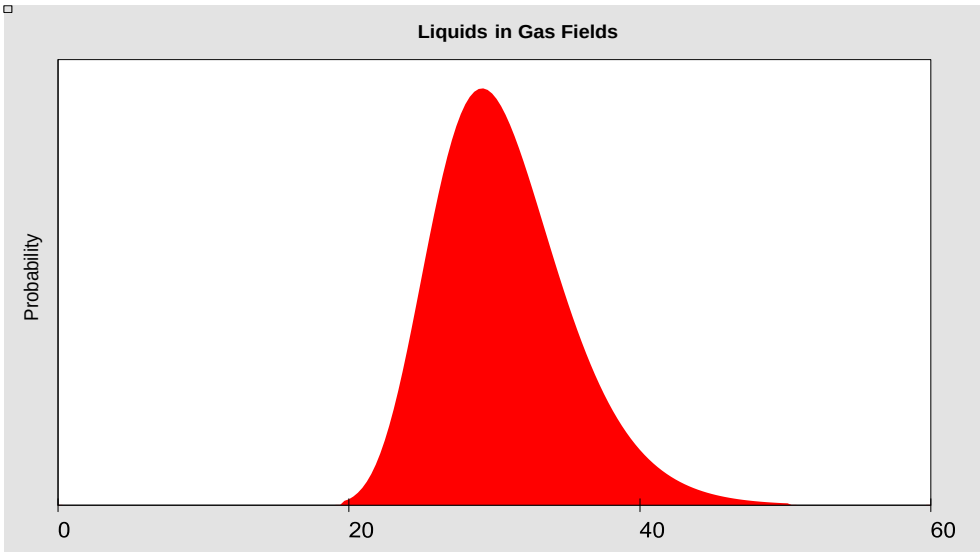
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	257.43	258.76
Median	71.79	71.86
Mode	---	---
Standard Deviation	656.67	655.85
Variance	431,212.97	430,140.73
Skewness	7.42	7.60
Kurtosis	79.52	84.29
Coefficient of Variability	2.55	2.53
Minimum	6.02	6.00
Maximum	11,960.88	12,000.00
Range Width	11,954.86	11,994.00
Mean Standard Error	2.94	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.02	6.00
95%	10.17	10.13
90%	13.57	13.62
85%	17.55	17.51
80%	21.98	21.98
75%	27.12	27.17
70%	33.31	33.26
65%	40.62	40.44
60%	49.24	49.01
55%	59.43	59.31
50%	71.79	71.86
45%	86.65	87.36
40%	106.49	106.85
35%	131.53	131.89
30%	164.66	165.04
25%	211.16	210.65
20%	277.74	276.93
15%	380.17	381.60
10%	568.80	572.08
5%	1,043.11	1,042.52
0%	11,960.88	12,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	20.51	30.51
Standard Deviation	4.66	4.66
Selected range is from -Infinity to 40.00		10.00 to 50.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	30.50	30.49
Median	30.01	29.99
Mode	---	---
Standard Deviation	4.59	4.61
Variance	21.06	21.23
Skewness	0.6089	0.6157
Kurtosis	3.44	3.47
Coefficient of Variability	0.1505	0.1511
Minimum	18.60	10.00
Maximum	50.00	50.00
Range Width	31.40	40.00
Mean Standard Error	0.02	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	18.60	10.00
95%	23.88	23.83
90%	25.04	25.00
85%	25.86	25.85
80%	26.57	26.56
75%	27.22	27.19
70%	27.82	27.78
65%	28.37	28.34
60%	28.92	28.89
55%	29.46	29.44
50%	30.01	29.99
45%	30.59	30.57
40%	31.17	31.16
35%	31.79	31.80
30%	32.47	32.49
25%	33.25	33.25
20%	34.13	34.14
15%	35.21	35.21
10%	36.60	36.63
5%	38.87	38.87
0%	50.00	50.00

End of Assumptions

Simulation started on 6/1/2009 at 13:43:02
Simulation stopped on 6/1/2009 at 14:05:40