Appendix F

Monte Carlo Simulation Result Graphics

Crystal Ball Report - Full

Simulation started on 3/31/2006 at 7:15:34 Simulation stopped on 3/31/2006 at 7:23:41

Run preferences:	
Number of trials run	1,000
Monte Carlo	
Random seed	
Precision control on	
Confidence level	95.00%
Run statistics:	
Total running time (sec)	487.37
Trials/second (average)	2
Random numbers per sec	35
Crystal Ball data:	
Assumptions	17
Correlations	0
Correlated groups	0
Decision variables	0
Forecasts	4

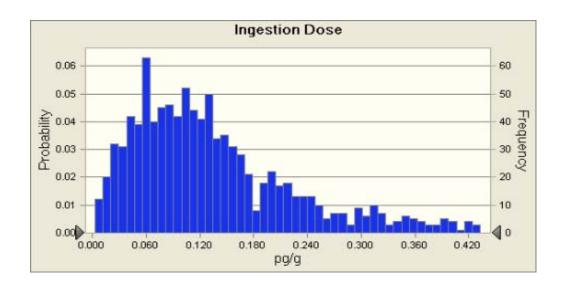
Forecasts

Worksheet: [VarDp-Dep monte5.xls]Monte

Forecast: Ingestion Dose Cell: C53

Summary:

Entire range is from 0.003 to 0.730 Base case is 0.058 After 1,000 trials, the std. error of the mean is 0.003



Statistics:	Forecast values
Trials	1,000
Mean	0.141
Median	0.115
Mode	
Standard Deviation	0.104
Variance	0.011
Skewness	1.56
Kurtosis	6.04
Coeff. of Variability	0.74
Minimum	0.003
Maximum	0.730
Range Width	0.727
Mean Std. Error	0.003

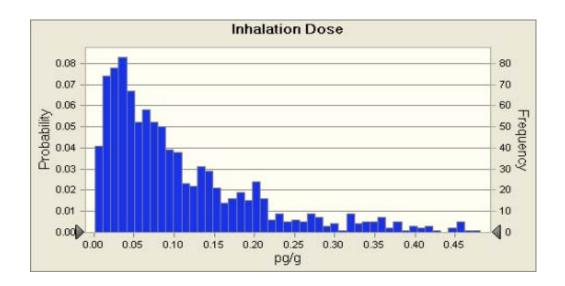
Forecast: Ingestion Dose (cont'd) Cell: C53

Percentiles:	Forecast values
reiterilles.	Fulecasi values
0%	0.003
10%	0.039
20%	0.059
30%	0.077
40%	0.097
50%	0.115
60%	0.135
70%	0.161
80%	0.207
90%	0.284
100%	0.730

Forecast: Inhalation Dose Cell: C83

Summary:

Entire range is from 0.00 to 1.05 Base case is 0.04 After 1,000 trials, the std. error of the mean is 0.00



Statistics:	Forecast values
Trials	1,000
Mean	0.12
Median	0.08
Mode	
Standard Deviation	0.13
Variance	0.02
Skewness	2.51
Kurtosis	11.75
Coeff. of Variability	1.07
Minimum	0.00
Maximum	1.05
Range Width	1.05
Mean Std. Error	0.00

Forecast: Inhalation Dose (cont'd) Cell: C83

Percentiles: 0% 10%	Forecast values 0.00 0.02
20%	0.03
30%	0.04
40%	0.06
50%	0.08
60%	0.10
70%	0.14
80%	0.18
90%	0.27
100%	1.05

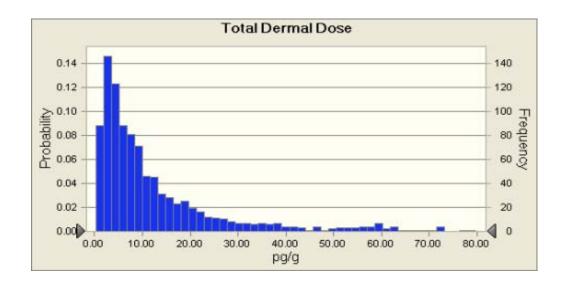
Forecast: Total Dermal Dose Cell: C45

Summary:

Entire range is from 0.27 to 217.51

Base case is 10.91

After 1,000 trials, the std. error of the mean is 0.72



Statistics:	Forecast values
Trials	1,000
Mean	15.50
Median	7.92
Mode	
Standard Deviation	22.91
Variance	524.87
Skewness	3.67
Kurtosis	20.69
Coeff. of Variability	1.48
Minimum	0.27
Maximum	217.51
Range Width	217.24
Mean Std. Error	0.72

Forecast: Total Dermal Dose (cont'd) Cell: C45

Percentiles:	Forecast values
0%	0.27
10%	2.02
20%	3.16
30%	4.29
40%	5.90
50%	7.92
60%	10.08
70%	14.09
80%	20.03
90%	36.15
100%	217.51

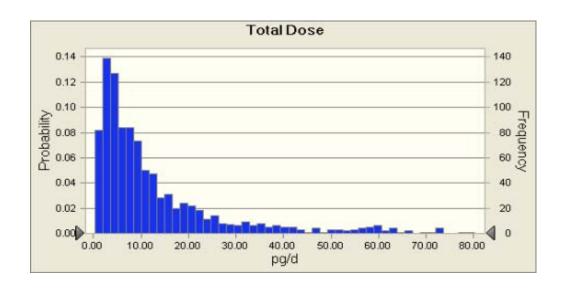
Forecast: Total Dose Cell: C86

Summary:

Entire range is from 0.28 to 219.14

Base case is 11.01

After 1,000 trials, the std. error of the mean is 0.73



Statistics:	Forecast values
Trials	1,000
Mean	15.76
Median	8.12
Mode	
Standard Deviation	23.01
Variance	529.38
Skewness	3.66
Kurtosis	20.67
Coeff. of Variability	1.46
Minimum	0.28
Maximum	219.14
Range Width	218.86
Mean Std. Error	0.73

Forecast: Total Dose (cont'd) Cell: C86

Percentiles:	Forecast values
0%	0.28
10%	2.15
20%	3.32
30%	4.51
40%	6.15
50%	8.12
60%	10.39
70%	14.44
80%	20.58
90%	36.63
100%	219.14

End of Forecasts

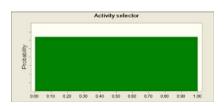
Assumptions

Worksheet: [VarDp-Dep monte5.xls]Monte

Assumption: Activity selector Cell: C56

Uniform distribution with parameters:

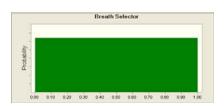
Minimum	0.00
Maximum	1.00



Assumption: Breath Selector Cell: C61

Uniform distribution with parameters:

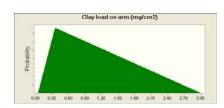
Minimum	0.00
Maximum	1.00



Assumption: Clay load on arm (mg/cm2) Cell: C22

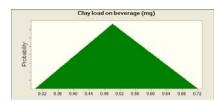
Triangular distribution with parameters:

Minimum	0.04
Likeliest	0.35
Maximum	3.00



Assumption: Clay load on beverage (mg) Cell: C51

Minimum	0.30
Likeliest	0.50
Maximum	0.72

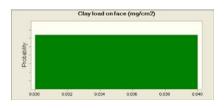


Assumption: Clay load on face (mg/cm2)

Cell: C40

Uniform distribution with parameters:

Minimum	0.030
Maximum	0.040

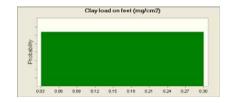


Assumption: Clay load on feet (mg/cm2)

Cell: C34

Uniform	distribution	with	parameters:
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Minimum	0.03
Maximum	0.30

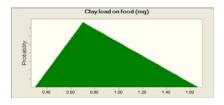


Assumption: Clay load on food (mg)

Cell: C49

Triangular distribution with parameters:

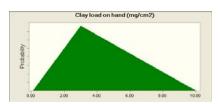
Minimum	0.30
Likeliest	0.70
Maximum	1.66



Assumption: Clay load on hand (mg/cm2)

Cell: C17

Minimum	0.10
Likeliest	3.00
Maximum	10.00

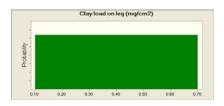


Assumption: Clay load on leg (mg/cm2)

Cell: C28

Uniform distribution with parameters:

Minimum	0.10
Maximum	0.70

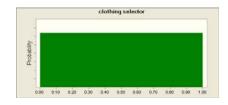


Assumption: clothing selector

Cell: C9

Uniform distribution with parameters:

Minimum	0.00
Maximum	1.00



Assumption: Dioxin conc in ball clay (pg/g)

Cell: C5

Lognormal distribution with parameters:

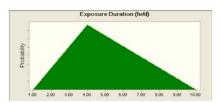
Mean	808.00
Std. Dev.	318.00



Assumption: Exposure Duration (hr/d)

Cell: C7

Minimum	1.00
Likeliest	4.00
Maximum	10.00

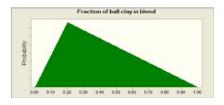


Assumption: Fraction of ball clay in blend

Cell: C6

Triangular distribution with parameters:

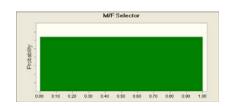
Minimum	0.00
Likeliest	0.20
Maximum	1.00



Assumption: M/F Selector Cell: C62

Uniform distribution with parameters:

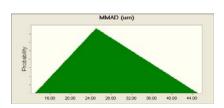
Minimum	0.00
Maximum	1.00



Assumption: MMAD (um) Cell: C60

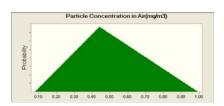
Triangular distribution with parameters:

Minimum	13.00
Likeliest	25.00
Maximum	45.00



Assumption: Particle Concentration in Air(mg/m3) Cell: C59

Minimum	0.08
Likeliest	0.44
Maximum	0.99



Assumption: Total Body Surface Area (cm2)

Cell: C8

Lognormal distribution with parameters:

Mean 18,000.00 Std. Dev. 37.40



End of Assumptions