

APPENDIX G

CRYSTAL BALL[®] REPORT

Crystal Ball Report - Full

Simulation started on 3/24/2008 at 13:05:29

Simulation stopped on 3/24/2008 at 13:07:42

Run preferences:

Number of trials run	10,000
Monte Carlo	
Random seed	

Run statistics:

Total running time (sec)	133.52
Trials/second (average)	75
Random numbers per sec	21,495

Crystal Ball data:

Assumptions	287
Correlations	21
Correlated groups	3
Decision variables	0
Forecasts	35

Forecasts

Worksheet: [NCSX Risk-Contingency Model - draft BCP 3-24-08.xls]Estimate Uncertainty Model

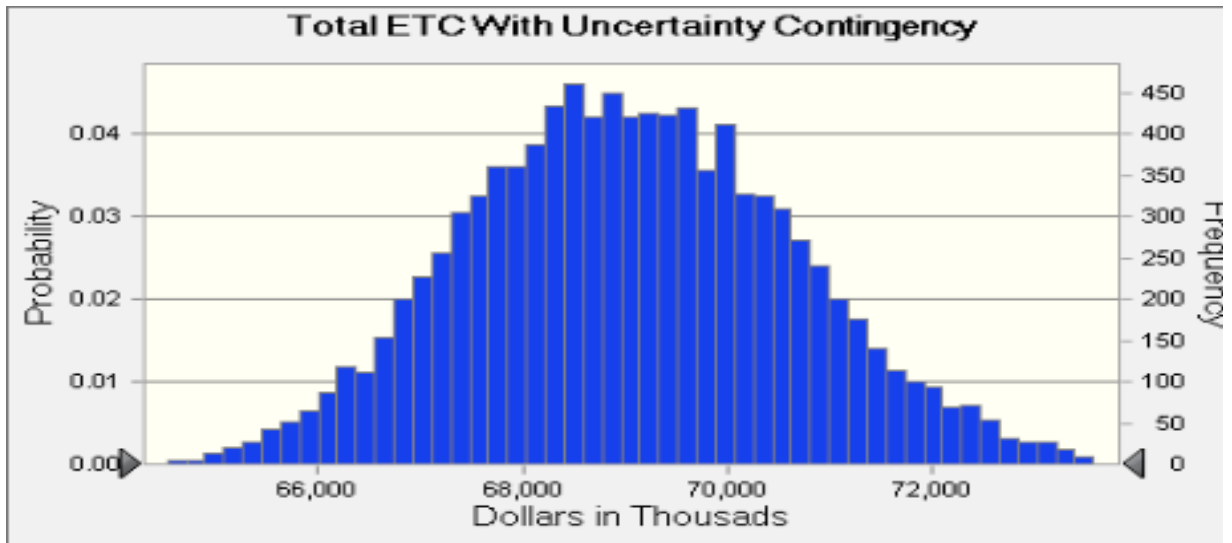
Forecast: Total ETC With Uncertainty Contingency

Summary:

Entire range is from 63,763 to 75,541

Base case is 69,068

After 10,000 trials, the std. error of the mean is 16



Statistics:

Forecast values

Trials	10,000
Mean	69,055
Median	69,010
Mode	---
Standard Deviation	1,617
Variance	2,613,870
Skewness	0.1520
Kurtosis	2.93
Coeff. of Variability	0.0234
Minimum	63,763
Maximum	75,541
Range Width	11,778
Mean Std. Error	16

Forecast: Total ETC With Uncertainty Contingency (cont'd)

Percentiles:	Forecast values
0%	63,763
10%	67,009
20%	67,655
30%	68,163
40%	68,584
50%	69,010
60%	69,448
70%	69,903
80%	70,432
90%	71,143
100%	75,541

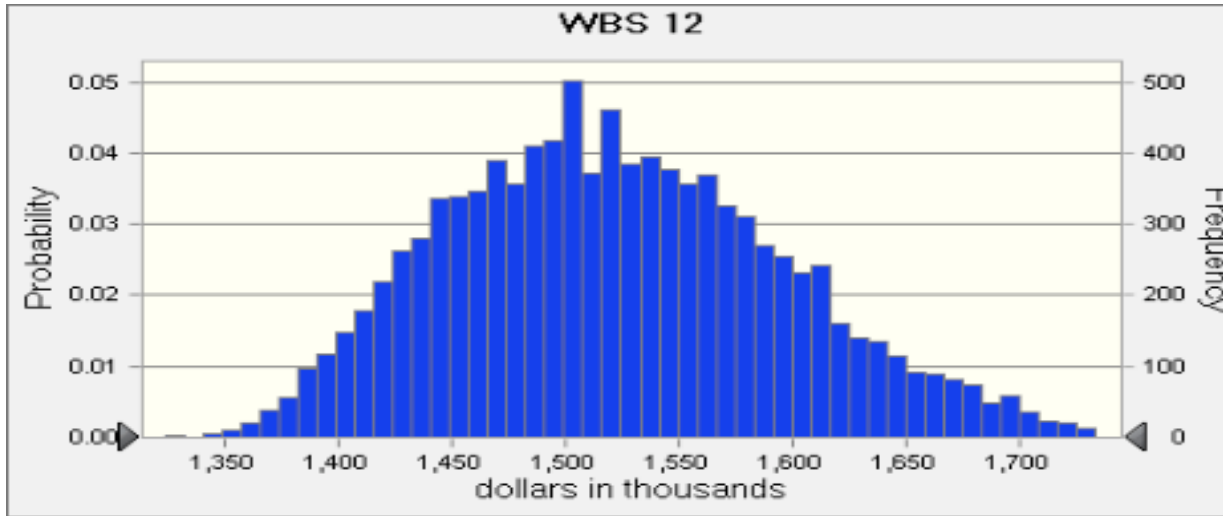
Forecast: WBS 12

Summary:

Entire range is from 1,323 to 1,811

Base case is 1,523

After 10,000 trials, the std. error of the mean is 1



Statistics:

Forecast values

Trials	10,000
Mean	1,522
Median	1,518
Mode	---
Standard Deviation	75
Variance	5,664
Skewness	0.3416
Kurtosis	2.78
Coeff. of Variability	0.0494
Minimum	1,323
Maximum	1,811
Range Width	487
Mean Std. Error	1

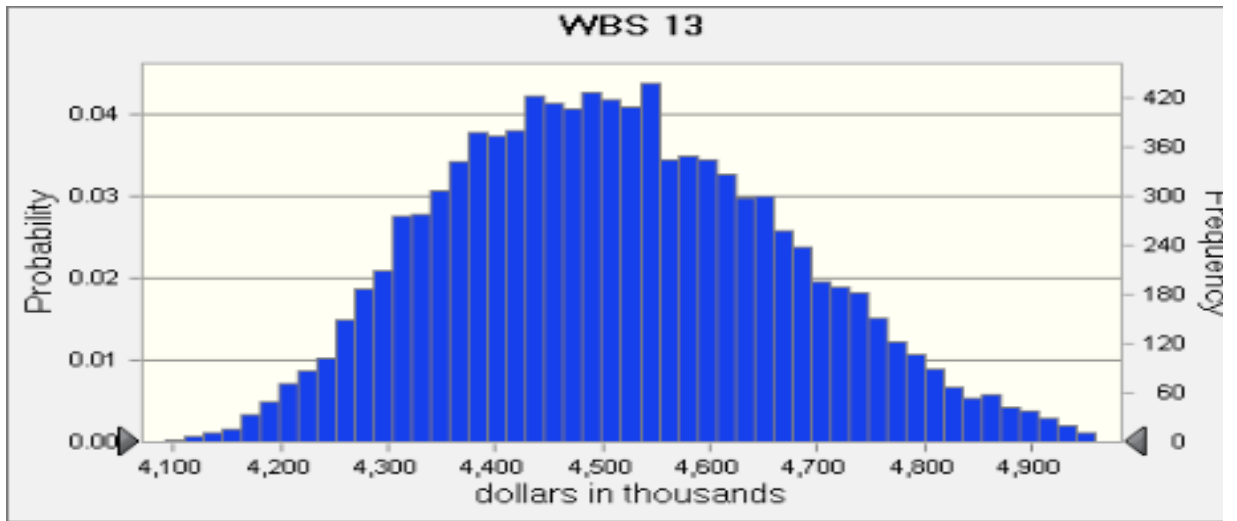
Forecast: WBS 12 (cont'd)

Percentiles:	Forecast values
0%	1,323
10%	1,427
20%	1,455
30%	1,478
40%	1,499
50%	1,518
60%	1,538
70%	1,561
80%	1,587
90%	1,623
100%	1,811

Forecast: WBS 13

Summary:

Entire range is from 4,093 to 5,095
 Base case is 4,511
 After 10,000 trials, the std. error of the mean is 2



Statistics:	Forecast values
Trials	10,000
Mean	4,513
Median	4,504
Mode	---
Standard Deviation	160
Variance	25,550
Skewness	0.2678
Kurtosis	2.68
Coeff. of Variability	0.0354
Minimum	4,093
Maximum	5,095
Range Width	1,003
Mean Std. Error	2

Forecast: WBS 13 (cont'd)

Percentiles:	Forecast values
0%	4,093
10%	4,311
20%	4,371
30%	4,418
40%	4,461
50%	4,504
60%	4,547
70%	4,595
80%	4,652
90%	4,729
100%	5,095

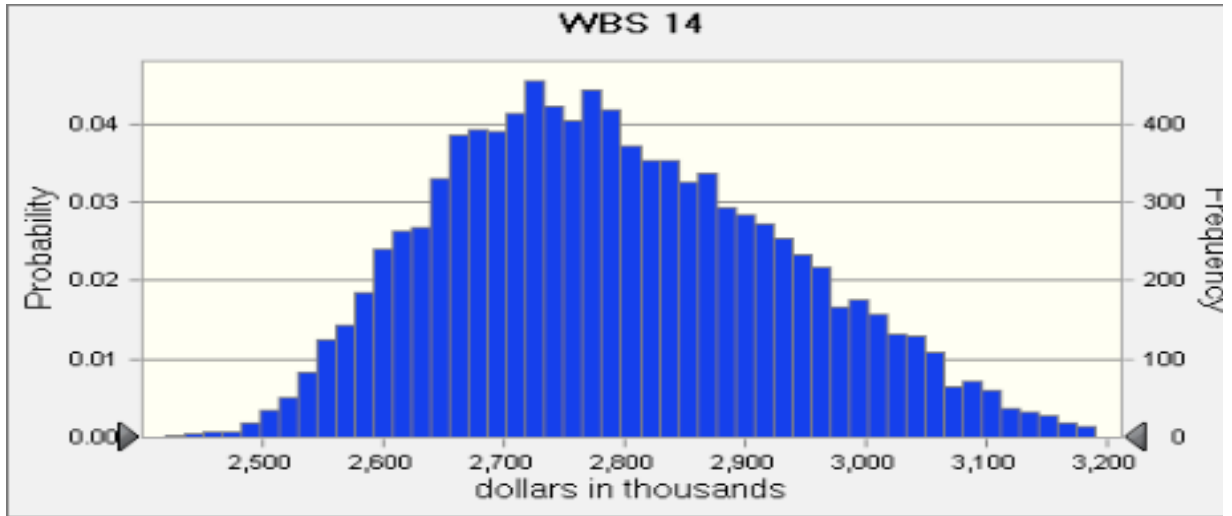
Forecast: WBS 14

Summary:

Entire range is from 2,420 to 3,257

Base case is 2,794

After 10,000 trials, the std. error of the mean is 1



Statistics:

Forecast values

Trials	10,000
Mean	2,792
Median	2,779
Mode	---
Standard Deviation	142
Variance	20,143
Skewness	0.3396
Kurtosis	2.62
Coeff. of Variability	0.0508
Minimum	2,420
Maximum	3,257
Range Width	838
Mean Std. Error	1

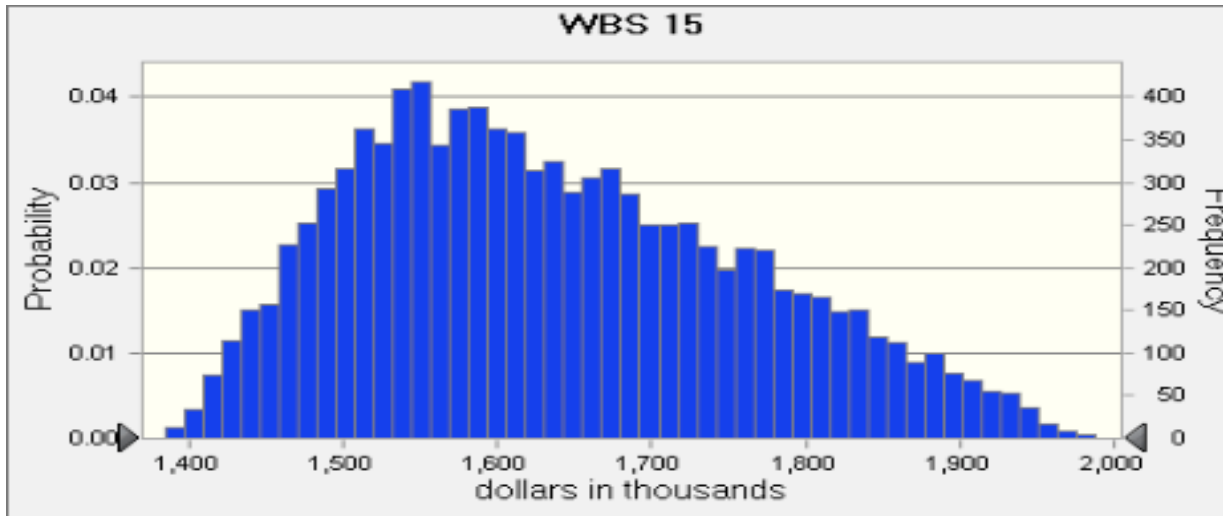
Forecast: WBS 14 (cont'd)

Percentiles:	Forecast values
0%	2,420
10%	2,614
20%	2,666
30%	2,705
40%	2,741
50%	2,779
60%	2,819
70%	2,865
80%	2,919
90%	2,990
100%	3,257

Forecast: WBS 15

Summary:

Entire range is from 1,384 to 1,988
 Base case is 1,637
 After 10,000 trials, the std. error of the mean is 1



Statistics:	Forecast values
Trials	10,000
Mean	1,636
Median	1,618
Mode	---
Standard Deviation	126
Variance	15,894
Skewness	0.4120
Kurtosis	2.39
Coeff. of Variability	0.0771
Minimum	1,384
Maximum	1,988
Range Width	604
Mean Std. Error	1

Forecast: WBS 15 (cont'd)

Percentiles:	Forecast values
0%	1,384
10%	1,482
20%	1,520
30%	1,552
40%	1,585
50%	1,618
60%	1,659
70%	1,701
80%	1,753
90%	1,818
100%	1,988

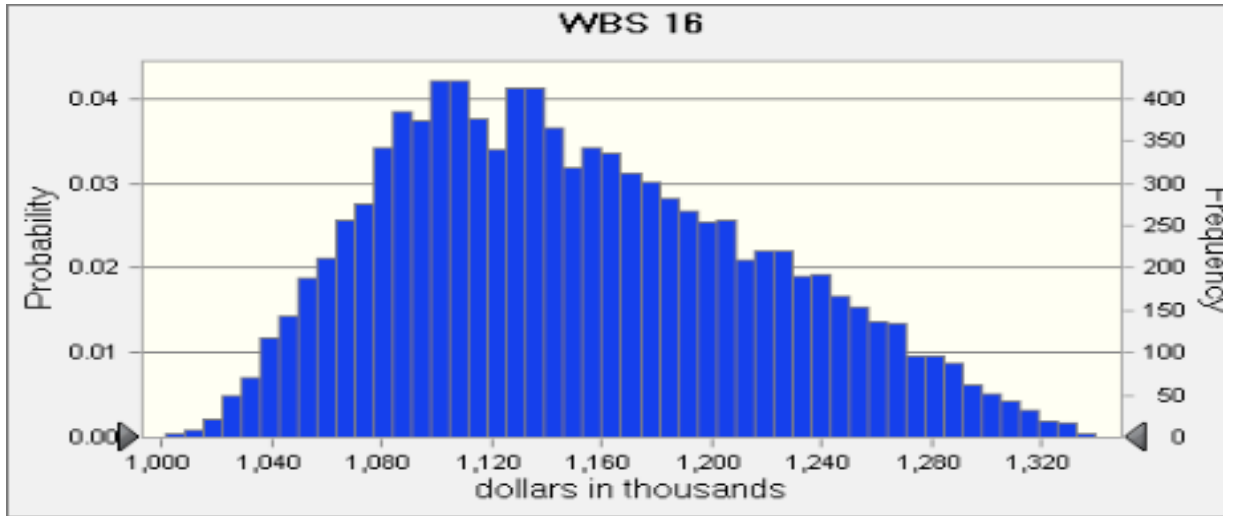
Forecast: WBS 16

Summary:

Entire range is from 1,001 to 1,355

Base case is 1,151

After 10,000 trials, the std. error of the mean is 1



Statistics:

	Forecast values
Trials	10,000
Mean	1,151
Median	1,143
Mode	---
Standard Deviation	67
Variance	4,522
Skewness	0.3853
Kurtosis	2.45
Coeff. of Variability	0.0584
Minimum	1,001
Maximum	1,355
Range Width	354
Mean Std. Error	1

Forecast: WBS 16 (cont'd)

Percentiles:	Forecast values
0%	1,001
10%	1,069
20%	1,090
30%	1,107
40%	1,126
50%	1,143
60%	1,163
70%	1,185
80%	1,213
90%	1,247
100%	1,355

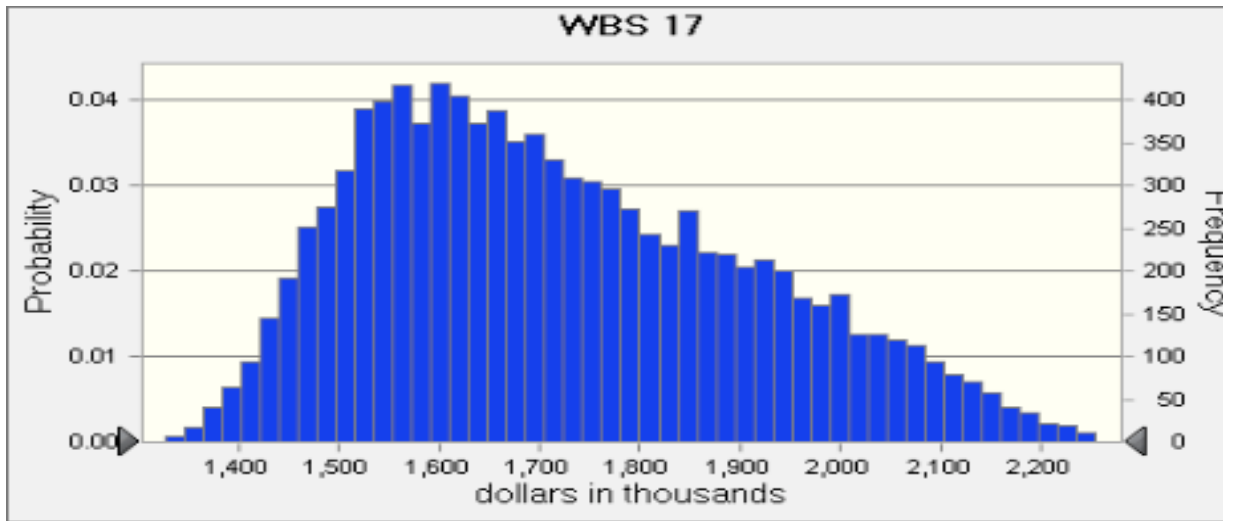
Forecast: WBS 17

Summary:

Entire range is from 1,327 to 2,280

Base case is 1,720

After 10,000 trials, the std. error of the mean is 2



Statistics:

Forecast values

Trials	10,000
Mean	1,720
Median	1,691
Mode	---
Standard Deviation	191
Variance	36,398
Skewness	0.4696
Kurtosis	2.44
Coeff. of Variability	0.1109
Minimum	1,327
Maximum	2,280
Range Width	953
Mean Std. Error	2

Forecast: WBS 17 (cont'd)

Percentiles:	Forecast values
0%	1,327
10%	1,492
20%	1,546
30%	1,593
40%	1,640
50%	1,691
60%	1,748
70%	1,816
80%	1,897
90%	1,998
100%	2,280

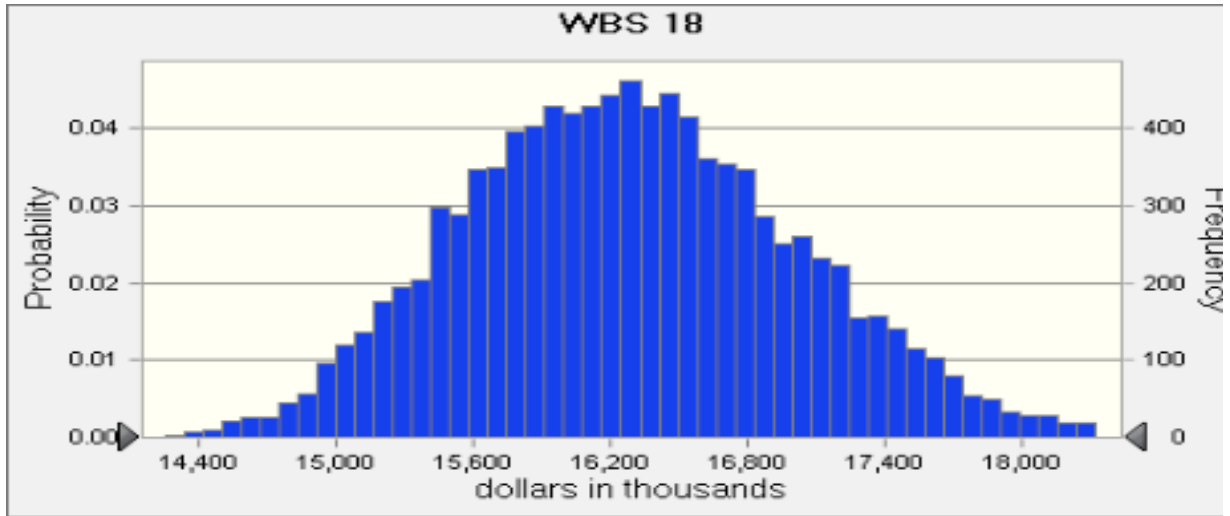
Forecast: WBS 18

Summary:

Entire range is from 14,118 to 18,901

Base case is 16,299

After 10,000 trials, the std. error of the mean is 7



Statistics:	Forecast values
Trials	10,000
Mean	16,288
Median	16,262
Mode	---
Standard Deviation	725
Variance	525,242
Skewness	0.2159
Kurtosis	2.83
Coeff. of Variability	0.0445
Minimum	14,118
Maximum	18,901
Range Width	4,783
Mean Std. Error	7

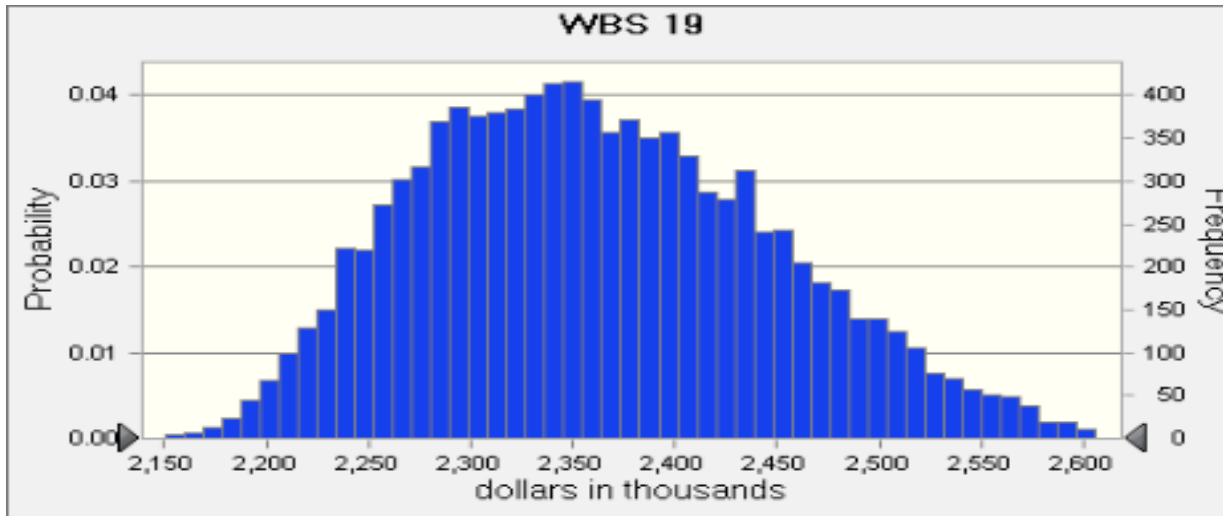
Forecast: WBS 18 (cont'd)

Percentiles:	Forecast values
0%	14,118
10%	15,368
20%	15,655
30%	15,876
40%	16,072
50%	16,262
60%	16,447
70%	16,651
80%	16,899
90%	17,248
100%	18,901

Forecast: WBS 19

Summary:

Entire range is from 2,150 to 2,655
 Base case is 2,362
 After 10,000 trials, the std. error of the mean is 1



Statistics:	Forecast values
Trials	10,000
Mean	2,363
Median	2,355
Mode	---
Standard Deviation	87
Variance	7,574
Skewness	0.3543
Kurtosis	2.67
Coeff. of Variability	0.0368
Minimum	2,150
Maximum	2,655
Range Width	504
Mean Std. Error	1

Forecast: WBS 19 (cont'd)

Percentiles:	Forecast values
0%	2,150
10%	2,254
20%	2,284
30%	2,309
40%	2,333
50%	2,355
60%	2,380
70%	2,406
80%	2,438
90%	2,482
100%	2,655

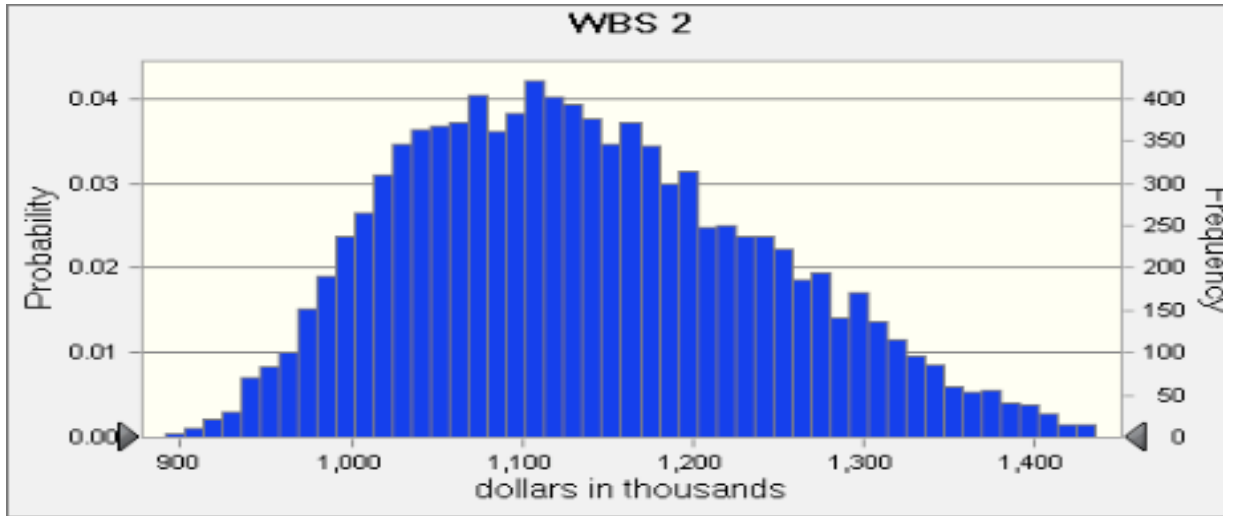
Forecast: WBS 2

Summary:

Entire range is from 891 to 1,500

Base case is 1,139

After 10,000 trials, the std. error of the mean is 1



Statistics:	Forecast values
Trials	10,000
Mean	1,138
Median	1,127
Mode	---
Standard Deviation	106
Variance	11,340
Skewness	0.3996
Kurtosis	2.66
Coeff. of Variability	0.0936
Minimum	891
Maximum	1,500
Range Width	609
Mean Std. Error	1

Forecast: WBS 2 (cont'd)

Percentiles:	Forecast values
0%	891
10%	1,007
20%	1,041
30%	1,071
40%	1,100
50%	1,127
60%	1,157
70%	1,190
80%	1,233
90%	1,287
100%	1,500

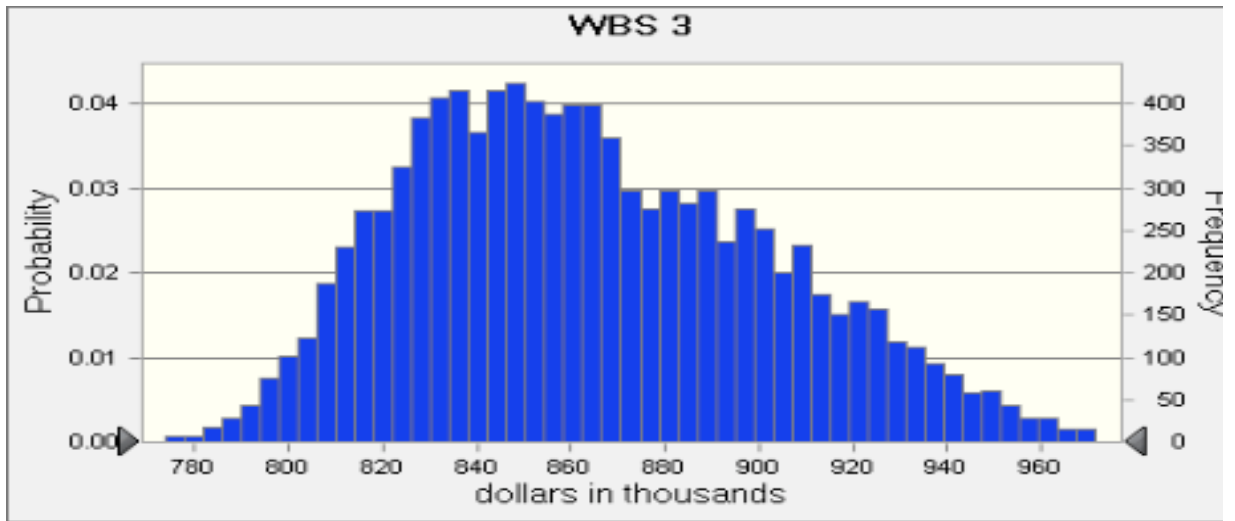
Forecast: WBS 3

Summary:

Entire range is from 774 to 992

Base case is 865

After 10,000 trials, the std. error of the mean is 0



Statistics:

Forecast values

Trials	10,000
Mean	864
Median	860
Mode	---
Standard Deviation	38
Variance	1,477
Skewness	0.3890
Kurtosis	2.55
Coeff. of Variability	0.0445
Minimum	774
Maximum	992
Range Width	219
Mean Std. Error	0

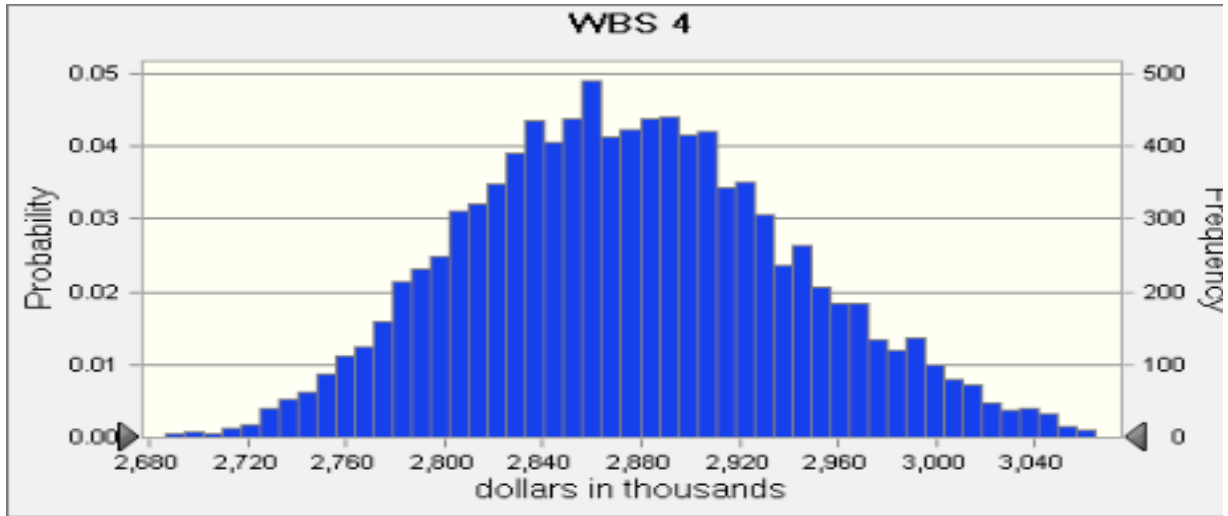
Forecast: WBS 3 (cont'd)

Percentiles:	Forecast values
0%	774
10%	817
20%	830
30%	840
40%	849
50%	860
60%	870
70%	884
80%	899
90%	919
100%	992

Forecast: WBS 4

Summary:

Entire range is from 2,653 to 3,111
 Base case is 2,876
 After 10,000 trials, the std. error of the mean is 1



Statistics:	Forecast values
Trials	10,000
Mean	2,876
Median	2,873
Mode	---
Standard Deviation	68
Variance	4,564
Skewness	0.2086
Kurtosis	2.84
Coeff. of Variability	0.0235
Minimum	2,653
Maximum	3,111
Range Width	458
Mean Std. Error	1

Forecast: WBS 4 (cont'd)

Percentiles:	Forecast values
0%	2,653
10%	2,790
20%	2,817
30%	2,838
40%	2,856
50%	2,873
60%	2,890
70%	2,909
80%	2,932
90%	2,966
100%	3,111

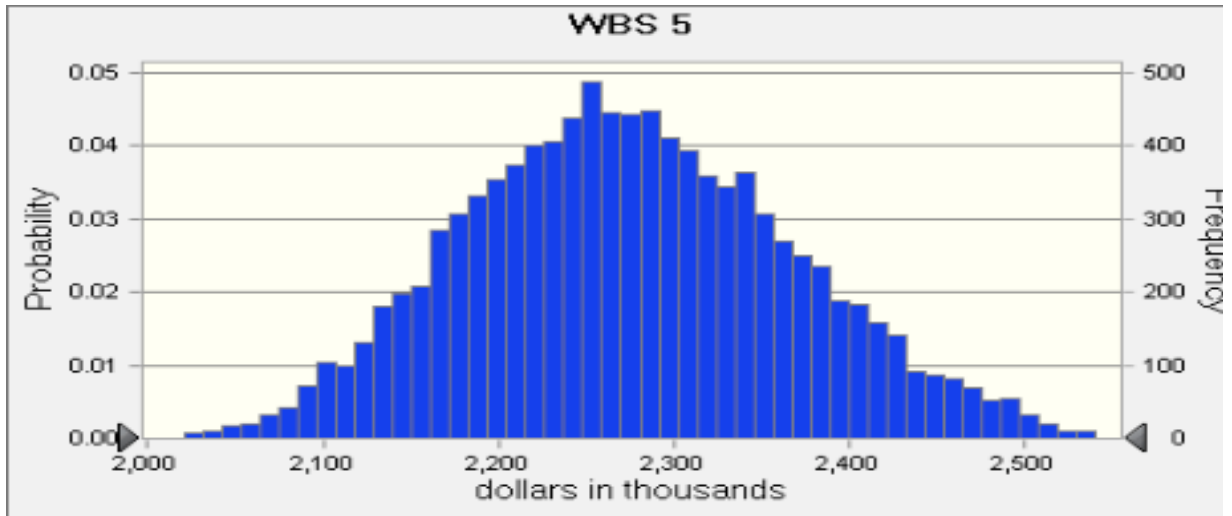
Forecast: WBS 5

Summary:

Entire range is from 2,005 to 2,700

Base case is 2,276

After 10,000 trials, the std. error of the mean is 1



Statistics:

	Forecast values
Trials	10,000
Mean	2,275
Median	2,271
Mode	---
Standard Deviation	95
Variance	8,970
Skewness	0.2291
Kurtosis	2.86
Coeff. of Variability	0.0416
Minimum	2,005
Maximum	2,700
Range Width	695
Mean Std. Error	1

Forecast: WBS 5 (cont'd)

Percentiles:	Forecast values
0%	2,005
10%	2,156
20%	2,192
30%	2,222
40%	2,248
50%	2,271
60%	2,295
70%	2,324
80%	2,355
90%	2,401
100%	2,700

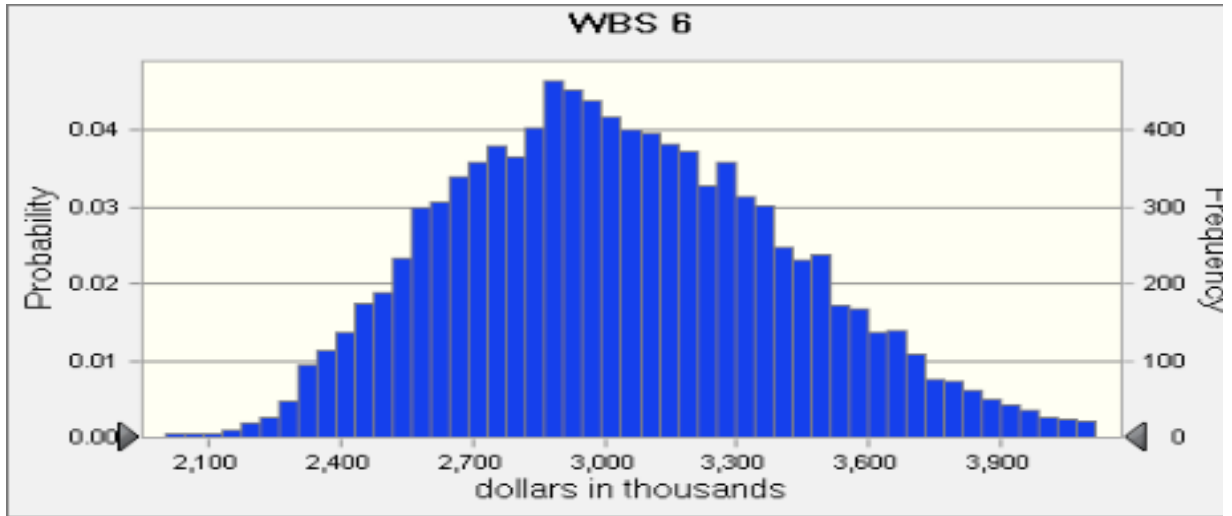
Forecast: WBS 6

Summary:

Entire range is from 2,005 to 4,340

Base case is 3,034

After 10,000 trials, the std. error of the mean is 4



Statistics:

	Forecast values
Trials	10,000
Mean	3,037
Median	3,010
Mode	---
Standard Deviation	384
Variance	147,753
Skewness	0.3177
Kurtosis	2.77
Coeff. of Variability	0.1266
Minimum	2,005
Maximum	4,340
Range Width	2,335
Mean Std. Error	4

Forecast: WBS 6 (cont'd)

Percentiles:	Forecast values
0%	2,005
10%	2,556
20%	2,694
30%	2,810
40%	2,912
50%	3,010
60%	3,116
70%	3,233
80%	3,364
90%	3,554
100%	4,340

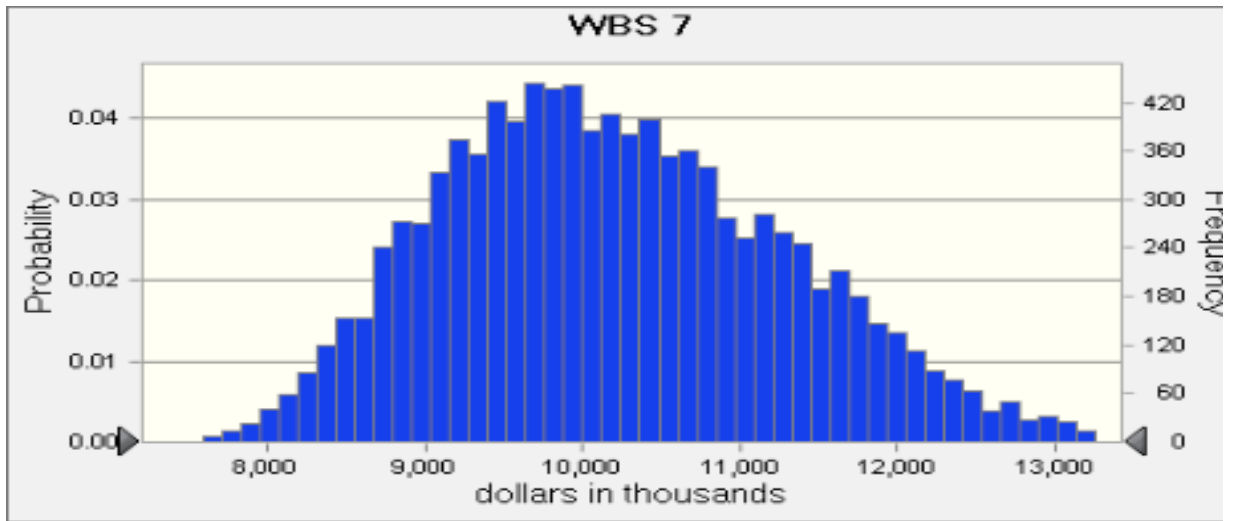
Forecast: WBS 7

Summary:

Entire range is from 7,346 to 14,237

Base case is 10,206

After 10,000 trials, the std. error of the mean is 11



Statistics:	Forecast values
Trials	10,000
Mean	10,206
Median	10,114
Mode	---
Standard Deviation	1,092
Variance	1,191,660
Skewness	0.3419
Kurtosis	2.70
Coeff. of Variability	0.1070
Minimum	7,346
Maximum	14,237
Range Width	6,891
Mean Std. Error	11

Forecast: WBS 7 (cont'd)

Percentiles:	Forecast values
0%	7,346
10%	8,845
20%	9,231
30%	9,541
40%	9,831
50%	10,114
60%	10,419
70%	10,754
80%	11,181
90%	11,701
100%	14,237

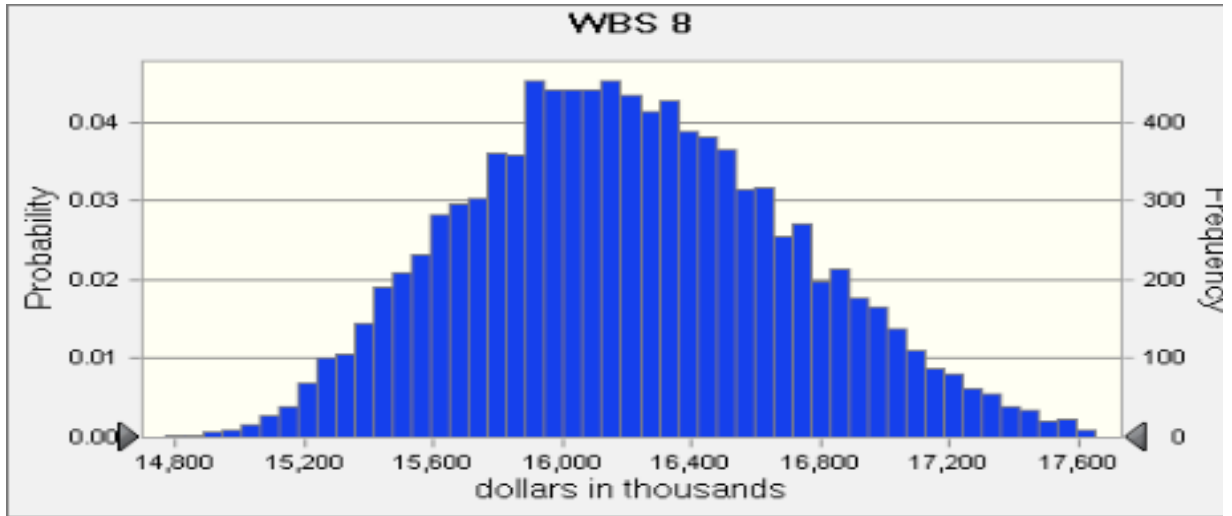
Forecast: WBS 8

Summary:

Entire range is from 14,764 to 18,205

Base case is 16,217

After 10,000 trials, the std. error of the mean is 5



Statistics:

	Forecast values
Trials	10,000
Mean	16,211
Median	16,183
Mode	---
Standard Deviation	515
Variance	265,610
Skewness	0.2524
Kurtosis	2.79
Coeff. of Variability	0.0318
Minimum	14,764
Maximum	18,205
Range Width	3,441
Mean Std. Error	5

Forecast: WBS 8 (cont'd)

Percentiles:	Forecast values
0%	14,764
10%	15,553
20%	15,759
30%	15,917
40%	16,053
50%	16,183
60%	16,321
70%	16,472
80%	16,648
90%	16,900
100%	18,205

Worksheet: [NCSX Risk-Contingency Model - draft BCP 3-24-08.xls]RiskModel

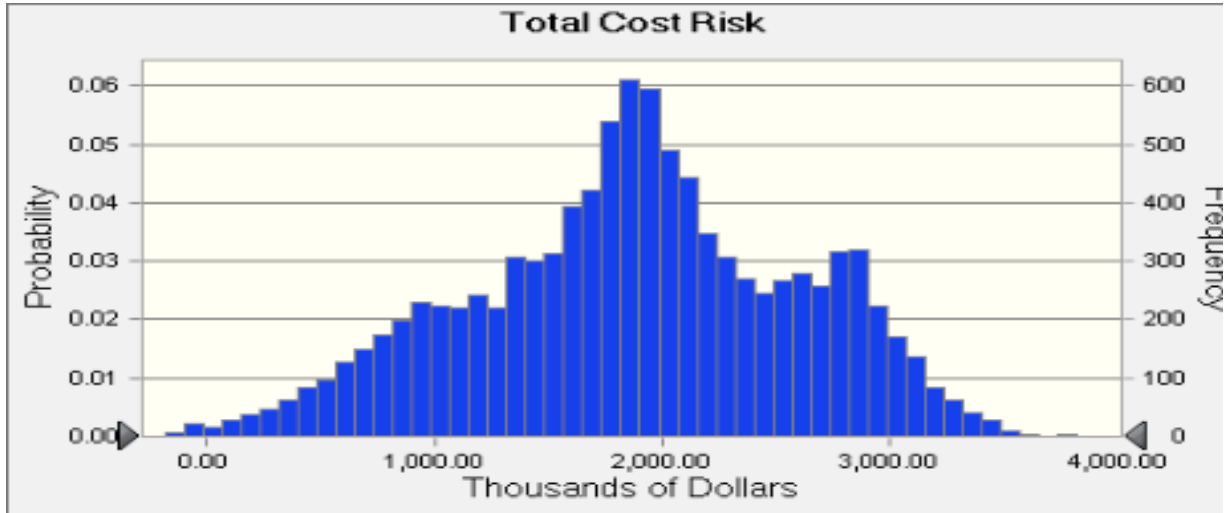
Forecast: Total Cost Risk

Summary:

Entire range is from -980.57 to 3,900.00

Base case is 1,862.28

After 10,000 trials, the std. error of the mean is 7.30



Statistics:	Forecast values
Trials	10,000
Mean	1,863.20
Median	1,885.00
Mode	1,869.43
Standard Deviation	729.70
Variance	532,461.58
Skewness	-0.2540
Kurtosis	2.76
Coeff. of Variability	0.3916
Minimum	-980.57
Maximum	3,900.00
Range Width	4,880.57
Mean Std. Error	7.30

Forecast: Total Cost Risk (cont'd)

Percentiles:	Forecast values
0%	-980.57
10%	864.43
20%	1,234.43
30%	1,529.43
40%	1,744.43
50%	1,885.00
60%	2,029.43
70%	2,239.43
80%	2,545.00
90%	2,835.00
100%	3,900.00

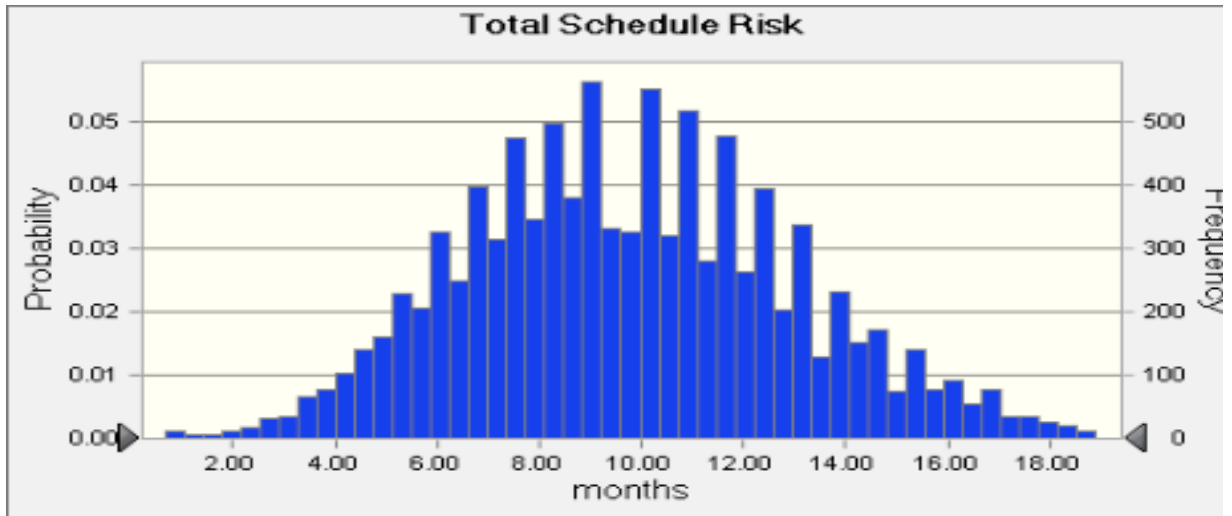
Forecast: Total Schedule Risk

Summary:

Entire range is from -0.08 to 24.73

Base case is 9.79

After 10,000 trials, the std. error of the mean is 0.03



Statistics:

Forecast values

Trials	10,000
Mean	9.79
Median	9.73
Mode	9.23
Standard Deviation	3.25
Variance	10.58
Skewness	0.2731
Kurtosis	2.98
Coeff. of Variability	0.3323
Minimum	-0.08
Maximum	24.73
Range Width	24.80
Mean Std. Error	0.03

Forecast: Total Schedule Risk (cont'd)

Percentiles:	Forecast values
0%	-0.08
10%	5.73
20%	6.98
30%	7.98
40%	8.73
50%	9.73
60%	10.48
70%	11.48
80%	12.48
90%	14.10
100%	24.73

Forecast: WBS 12 Cost Risk

Summary:

Entire range is from 0 to 60

Base case is 15

After 10,000 trials, the std. error of the mean is 0



Statistics:	Forecast values
Trials	10,000
Mean	15
Median	0
Mode	0
Standard Deviation	26
Variance	666
Skewness	1.18
Kurtosis	2.40
Coeff. of Variability	1.75
Minimum	0
Maximum	60
Range Width	60
Mean Std. Error	0

Forecast: WBS 12 Cost Risk (cont'd)

Percentiles:	Forecast values
0%	0
10%	0
20%	0
30%	0
40%	0
50%	0
60%	0
70%	0
80%	60
90%	60
100%	60

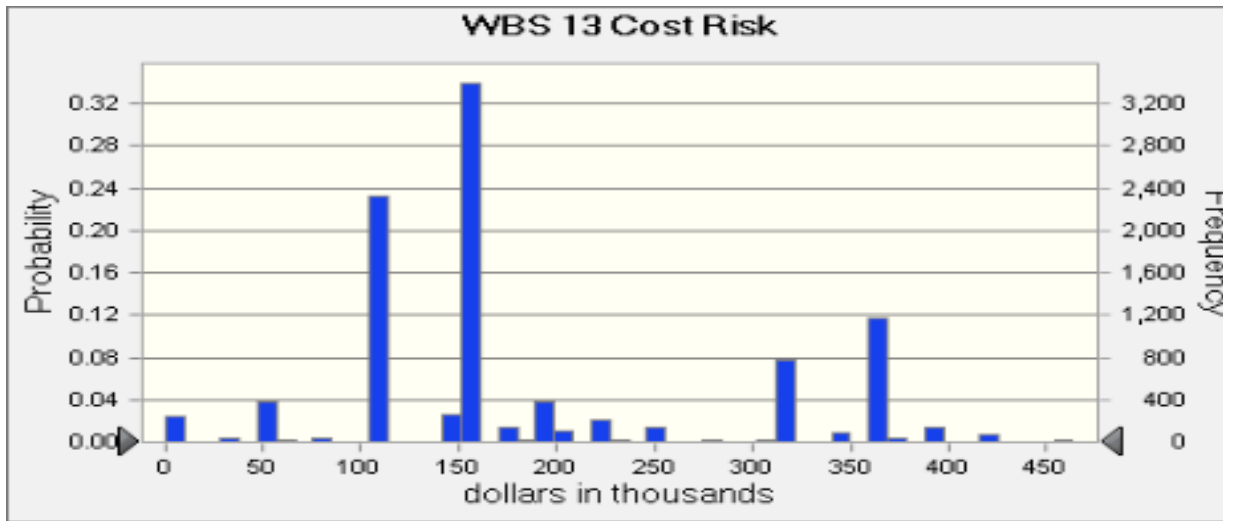
Forecast: WBS 13 Cost Risk

Summary:

Entire range is from 0 to 490

Base case is 187

After 10,000 trials, the std. error of the mean is 1



Statistics:	Forecast values
Trials	10,000
Mean	188
Median	160
Mode	160
Standard Deviation	98
Variance	9,668
Skewness	0.7037
Kurtosis	2.60
Coeff. of Variability	0.5229
Minimum	0
Maximum	490
Range Width	490
Mean Std. Error	1

Forecast: WBS 13 Cost Risk (cont'd)

Percentiles:	Forecast values
0%	0
10%	113
20%	113
30%	113
40%	160
50%	160
60%	160
70%	195
80%	313
90%	360
100%	490

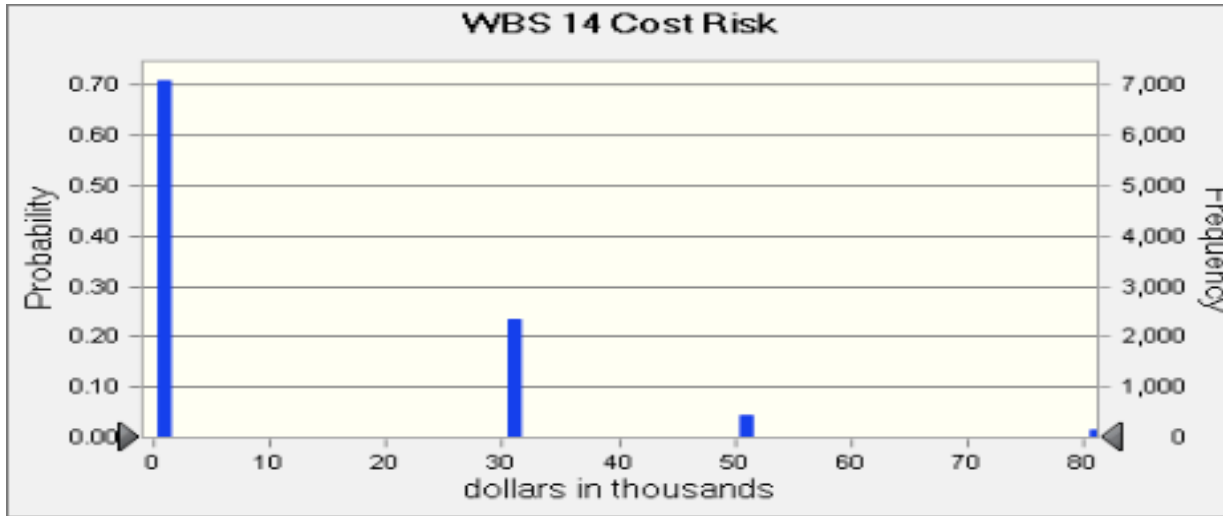
Forecast: WBS 14 Cost Risk

Summary:

Entire range is from 0 to 80

Base case is 10

After 10,000 trials, the std. error of the mean is 0



Statistics:	Forecast values
Trials	10,000
Mean	10
Median	0
Mode	0
Standard Deviation	17
Variance	297
Skewness	1.60
Kurtosis	5.23
Coeff. of Variability	1.69
Minimum	0
Maximum	80
Range Width	80
Mean Std. Error	0

Forecast: WBS 14 Cost Risk (cont'd)

Percentiles:	Forecast values
0%	0
10%	0
20%	0
30%	0
40%	0
50%	0
60%	0
70%	0
80%	30
90%	30
100%	80

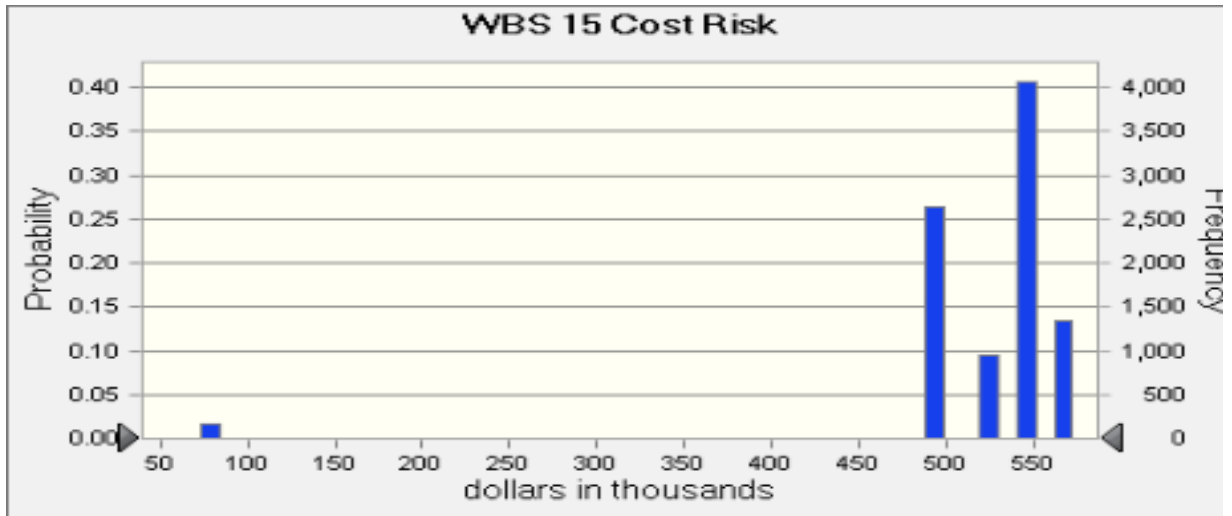
Forecast: WBS 15 Cost Risk

Summary:

Entire range is from 0 to 573

Base case is 482

After 10,000 trials, the std. error of the mean is 2



Statistics:	Forecast values
Trials	10,000
Mean	480
Median	543
Mode	543
Standard Deviation	153
Variance	23,351
Skewness	-2.50
Kurtosis	7.58
Coeff. of Variability	0.3181
Minimum	0
Maximum	573
Range Width	573
Mean Std. Error	2

Forecast: WBS 15 Cost Risk (cont'd)

Percentiles:	Forecast values
0%	0
10%	78
20%	495
30%	495
40%	525
50%	543
60%	543
70%	543
80%	543
90%	573
100%	573

Forecast: WBS 16 Cost Risk

Summary:

Entire range is from 0 to 60

Base case is 36

After 10,000 trials, the std. error of the mean is 0



Statistics:	Forecast values
Trials	10,000
Mean	36
Median	60
Mode	60
Standard Deviation	29
Variance	866
Skewness	-0.3959
Kurtosis	1.16
Coeff. of Variability	0.8215
Minimum	0
Maximum	60
Range Width	60
Mean Std. Error	0

Forecast: WBS 16 Cost Risk (cont'd)

Percentiles:	Forecast values
0%	0
10%	0
20%	0
30%	0
40%	0
50%	60
60%	60
70%	60
80%	60
90%	60
100%	60

Forecast: WBS 17 Cost Risk

Summary:

Entire range is from 0 to 150

Base case is 38

After 10,000 trials, the std. error of the mean is 1



Statistics:	Forecast values
Trials	10,000
Mean	37
Median	0
Mode	0
Standard Deviation	65
Variance	4,199
Skewness	1.17
Kurtosis	2.36
Coeff. of Variability	1.74
Minimum	0
Maximum	150
Range Width	150
Mean Std. Error	1

Forecast: WBS 17 Cost Risk (cont'd)

Percentiles:	Forecast values
0%	0
10%	0
20%	0
30%	0
40%	0
50%	0
60%	0
70%	0
80%	150
90%	150
100%	150

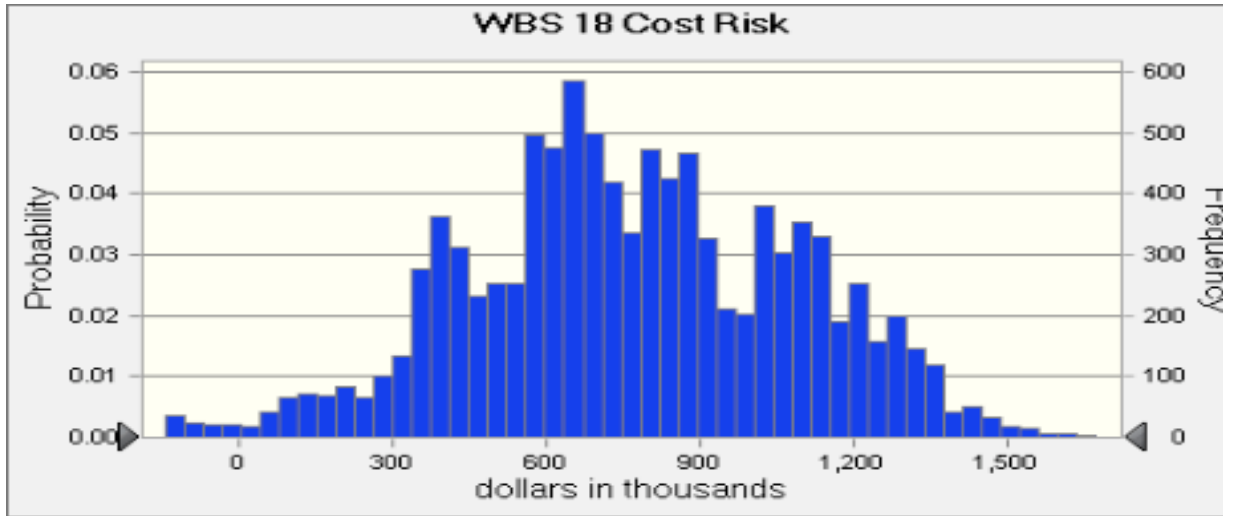
Forecast: WBS 18 Cost Risk

Summary:

Entire range is from (425) to 1,700

Base case is 765

After 10,000 trials, the std. error of the mean is 3



Statistics:

Forecast values

Trials	10,000
Mean	764
Median	750
Mode	685
Standard Deviation	324
Variance	105,193
Skewness	-0.1163
Kurtosis	2.83
Coeff. of Variability	0.4248
Minimum	(425)
Maximum	1,700
Range Width	2,125
Mean Std. Error	3

Forecast: WBS 18 Cost Risk (cont'd)

Percentiles:	Forecast values
0%	(425)
10%	365
20%	490
30%	600
40%	670
50%	750
60%	835
70%	940
80%	1,065
90%	1,195
100%	1,700

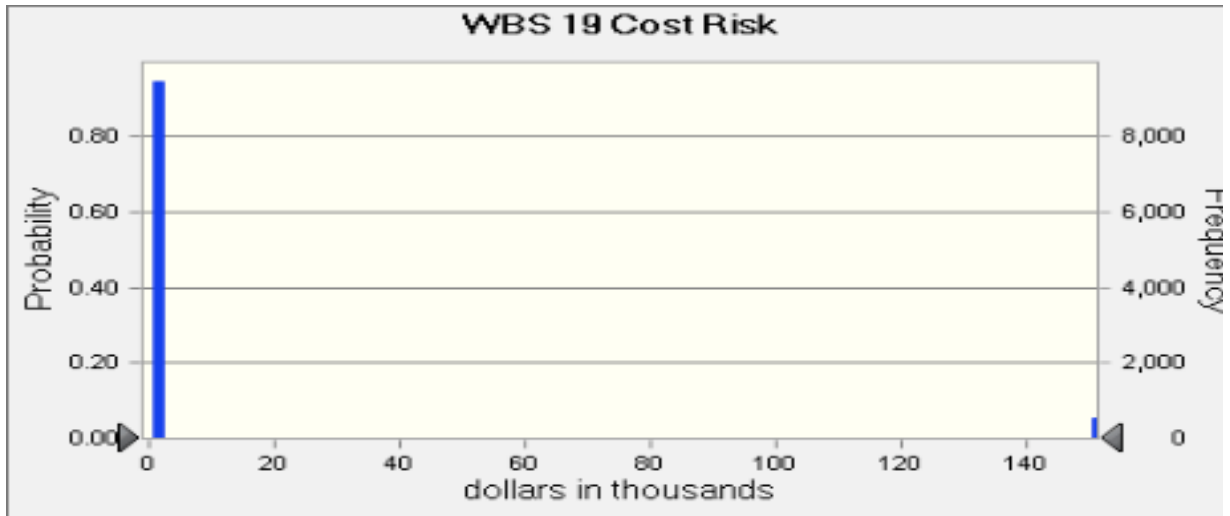
Forecast: WBS 19 Cost Risk

Summary:

Entire range is from 0 to 150

Base case is 8

After 10,000 trials, the std. error of the mean is 0



Statistics:	Forecast values
Trials	10,000
Mean	8
Median	0
Mode	0
Standard Deviation	34
Variance	1,129
Skewness	3.99
Kurtosis	16.92
Coeff. of Variability	4.23
Minimum	0
Maximum	150
Range Width	150
Mean Std. Error	0

Forecast: WBS 19 Cost Risk (cont'd)

Percentiles:	Forecast values
0%	0
10%	0
20%	0
30%	0
40%	0
50%	0
60%	0
70%	0
80%	0
90%	0
100%	150

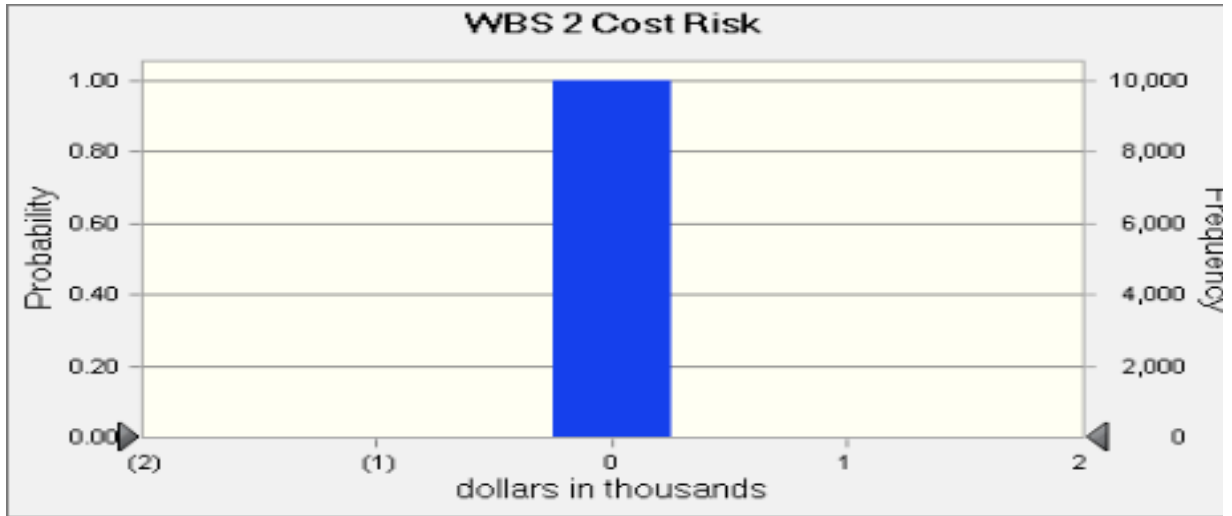
Forecast: WBS 2 Cost Risk

Summary:

Entire range is from 0 to 0

Base case is 0

After 10,000 trials, the std. error of the mean is 0



Statistics:	Forecast values
Trials	10,000
Mean	0
Median	0
Mode	0
Standard Deviation	0
Variance	0
Skewness	---
Kurtosis	---
Coeff. of Variability	---
Minimum	0
Maximum	0
Range Width	0
Mean Std. Error	0

Forecast: WBS 2 Cost Risk (cont'd)

Percentiles:	Forecast values
0%	0
10%	0
20%	0
30%	0
40%	0
50%	0
60%	0
70%	0
80%	0
90%	0
100%	0

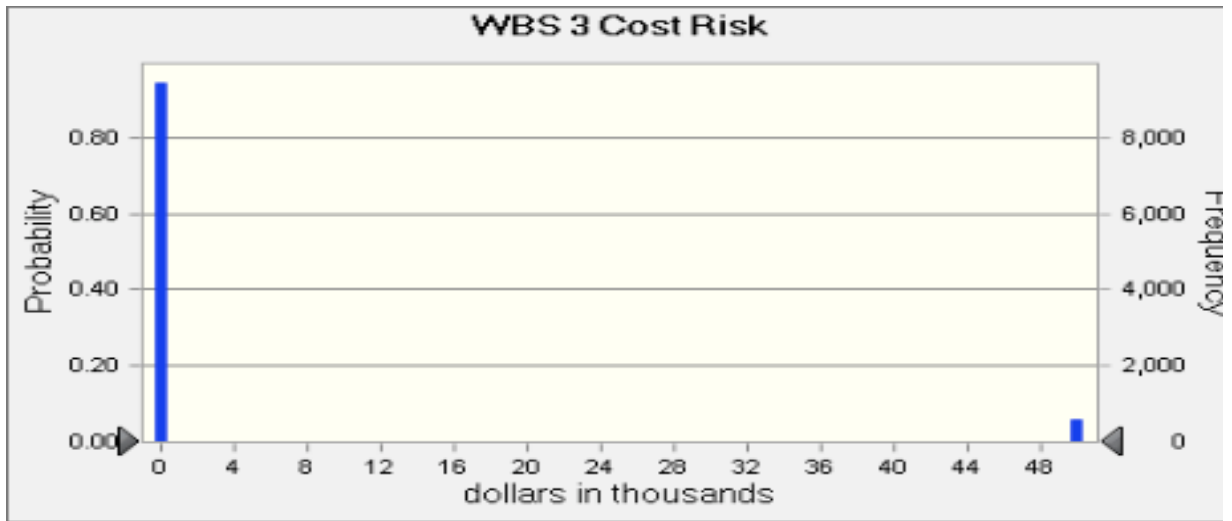
Forecast: WBS 3 Cost Risk

Summary:

Entire range is from 0 to 50

Base case is 3

After 10,000 trials, the std. error of the mean is 0



Statistics:	Forecast values
Trials	10,000
Mean	3
Median	0
Mode	0
Standard Deviation	12
Variance	134
Skewness	3.83
Kurtosis	15.66
Coeff. of Variability	4.08
Minimum	0
Maximum	50
Range Width	50
Mean Std. Error	0

Forecast: WBS 3 Cost Risk (cont'd)

Percentiles:	Forecast values
0%	0
10%	0
20%	0
30%	0
40%	0
50%	0
60%	0
70%	0
80%	0
90%	0
100%	50

Forecast: WBS 4 Cost Risk

Summary:

Entire range is from 0 to 198

Base case is 123

After 10,000 trials, the std. error of the mean is 0



Statistics:

Forecast values

Trials	10,000
Mean	123
Median	113
Mode	113
Standard Deviation	43
Variance	1,830
Skewness	-1.10
Kurtosis	4.95
Coeff. of Variability	0.3478
Minimum	0
Maximum	198
Range Width	198
Mean Std. Error	0

Forecast: WBS 4 Cost Risk (cont'd)

Percentiles:	Forecast values
0%	0
10%	113
20%	113
30%	113
40%	113
50%	113
60%	113
70%	148
80%	163
90%	163
100%	198

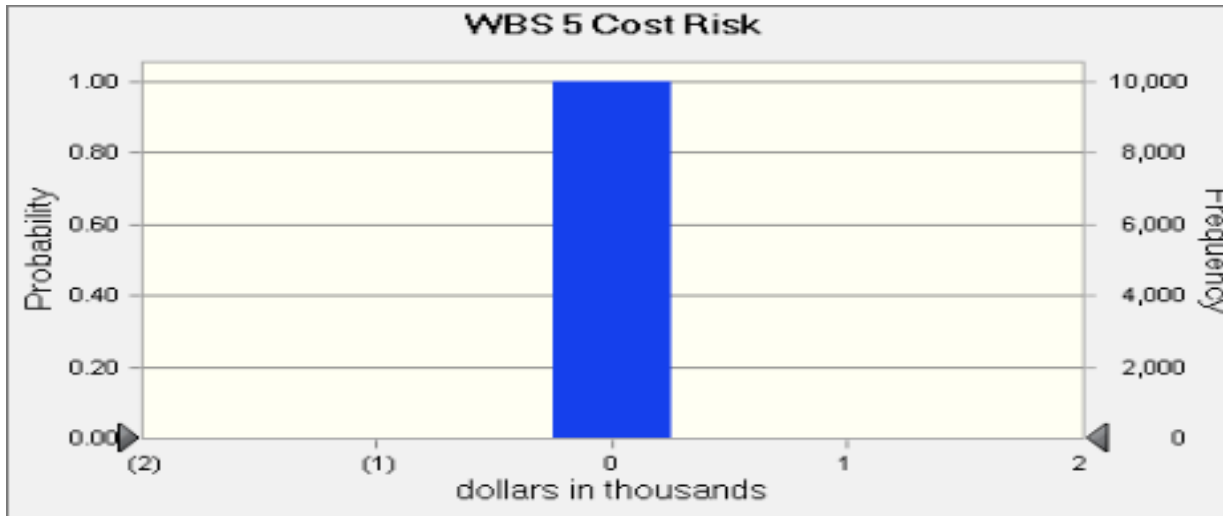
Forecast: WBS 5 Cost Risk

Summary:

Entire range is from 0 to 0

Base case is 0

After 10,000 trials, the std. error of the mean is 0



Statistics:

Forecast values

Trials	10,000
Mean	0
Median	0
Mode	0
Standard Deviation	0
Variance	0
Skewness	---
Kurtosis	---
Coeff. of Variability	---
Minimum	0
Maximum	0
Range Width	0
Mean Std. Error	0

Forecast: WBS 5 Cost Risk (cont'd)

Percentiles:	Forecast values
0%	0
10%	0
20%	0
30%	0
40%	0
50%	0
60%	0
70%	0
80%	0
90%	0
100%	0

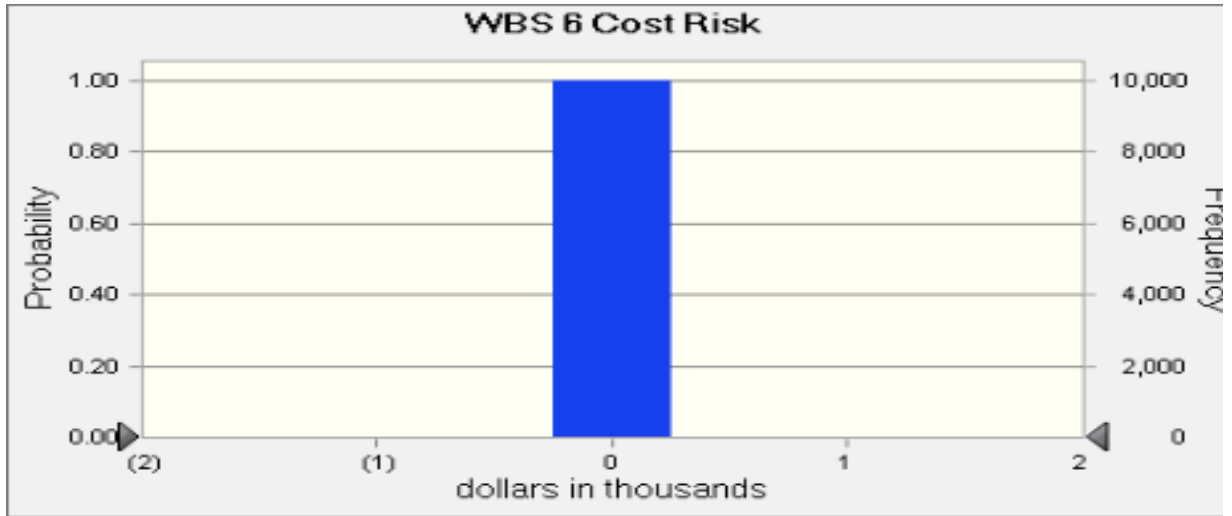
Forecast: WBS 6 Cost Risk

Summary:

Entire range is from 0 to 0

Base case is 0

After 10,000 trials, the std. error of the mean is 0



Statistics:

Forecast values

Trials	10,000
Mean	0
Median	0
Mode	0
Standard Deviation	0
Variance	0
Skewness	---
Kurtosis	---
Coeff. of Variability	---
Minimum	0
Maximum	0
Range Width	0
Mean Std. Error	0

Forecast: WBS 6 Cost Risk (cont'd)

Percentiles:	Forecast values
0%	0
10%	0
20%	0
30%	0
40%	0
50%	0
60%	0
70%	0
80%	0
90%	0
100%	0

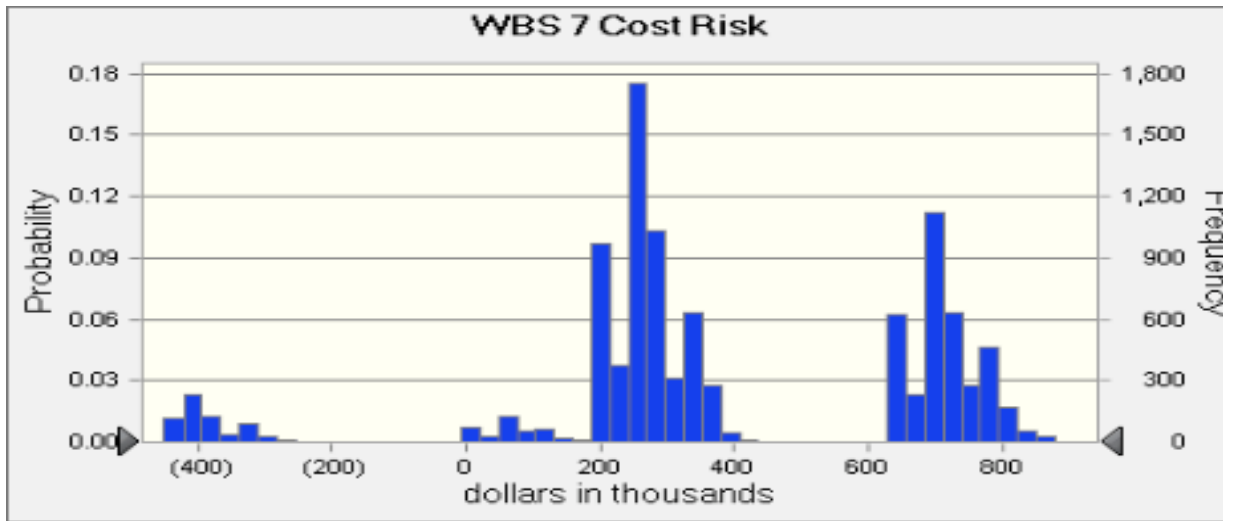
Forecast: WBS 7 Cost Risk

Summary:

Entire range is from (450) to 905

Base case is 380

After 10,000 trials, the std. error of the mean is 3



Statistics:	Forecast values
Trials	10,000
Mean	379
Median	295
Mode	250
Standard Deviation	301
Variance	90,584
Skewness	-0.5898
Kurtosis	3.37
Coeff. of Variability	0.7945
Minimum	(450)
Maximum	905
Range Width	1,355
Mean Std. Error	3

Forecast: WBS 7 Cost Risk (cont'd)

Percentiles:	Forecast values
0%	(450)
10%	175
20%	215
30%	250
40%	250
50%	295
60%	330
70%	650
80%	700
90%	730
100%	905

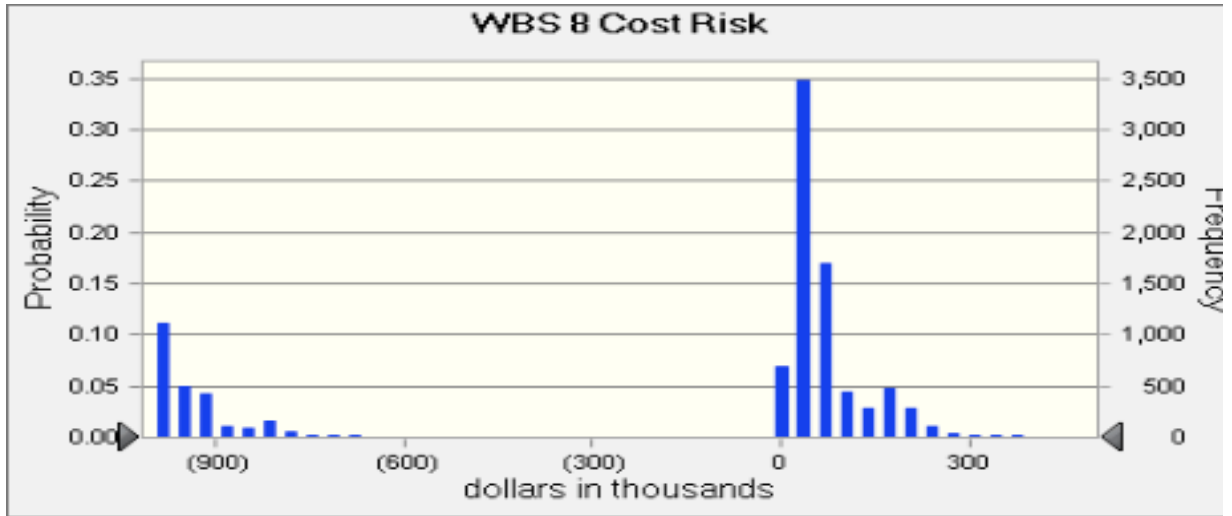
Forecast: WBS 8 Cost Risk

Summary:

Entire range is from (1,000) to 485

Base case is (184)

After 10,000 trials, the std. error of the mean is 4



Statistics:	Forecast values
Trials	10,000
Mean	(179)
Median	30
Mode	20
Standard Deviation	435
Variance	189,545
Skewness	-1.14
Kurtosis	2.42
Coeff. of Variability	-2.43
Minimum	(1,000)
Maximum	485
Range Width	1,485
Mean Std. Error	4

Forecast: WBS 8 Cost Risk (cont'd)

Percentiles:	Forecast values
0%	(1,000)
10%	(970)
20%	(900)
30%	10
40%	20
50%	30
60%	40
70%	60
80%	80
90%	145
100%	485

Worksheet: [NCSX Risk-Contingency Model - draft BCP 3-24-08.xls]Schedule Ranges

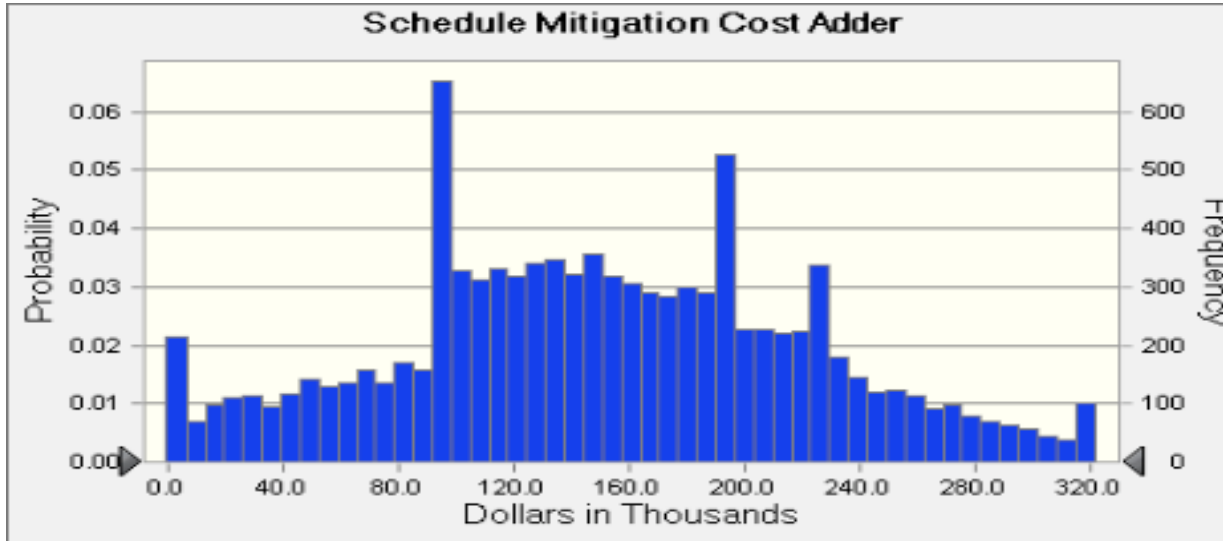
Forecast: Schedule Mitigation Cost Adder

Summary:

Entire range is from 0.0 to 321.1

Base case is 181.0

After 10,000 trials, the std. error of the mean is 0.7



Statistics:	Forecast values
Trials	10,000
Mean	150.2
Median	148.2
Mode	96.3
Standard Deviation	71.2
Variance	5074.5
Skewness	0.0605
Kurtosis	2.57
Coeff. of Variability	0.4744
Minimum	0.0
Maximum	321.1
Range Width	321.1
Mean Std. Error	0.7

Forecast: Schedule Mitigation Cost Adder (cont'd)

Percentiles:	Forecast values
0%	0.0
10%	54.5
20%	96.3
30%	108.7
40%	128.5
50%	148.2
60%	169.2
70%	191.5
80%	212.8
90%	242.3
100%	321.1

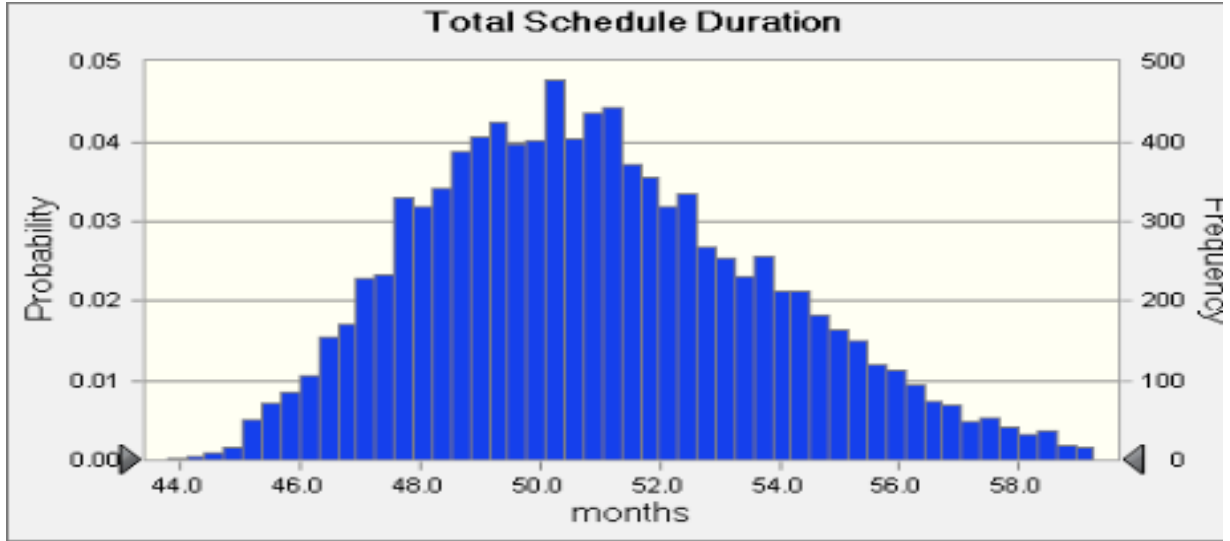
Forecast: Total Schedule Duration

Summary:

Entire range is from 43.8 to 63.4

Base case is 50.1

After 10,000 trials, the std. error of the mean is 0.0



Statistics:	Forecast values
Trials	10,000
Mean	51.0
Median	50.7
Mode	---
Standard Deviation	3.0
Variance	8.7
Skewness	0.4706
Kurtosis	2.97
Coeff. of Variability	0.0579
Minimum	43.8
Maximum	63.4
Range Width	19.7
Mean Std. Error	0.0

Forecast: Total Schedule Duration (cont'd)

Percentiles:	Forecast values
0%	43.8
10%	47.4
20%	48.4
30%	49.2
40%	50.0
50%	50.7
60%	51.4
70%	52.3
80%	53.5
90%	55.0
100%	63.4

End of Forecasts

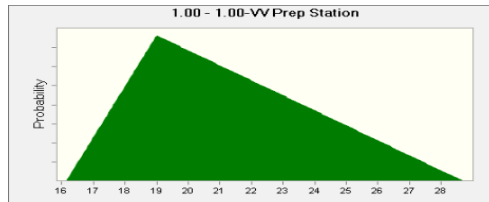
Assumptions

Worksheet: [NCSX Risk-Contingency Model - draft BCP 3-24-08.xls]Estimate Uncertainty Model

Assumption: 1.00 - 1.00-VV Prep Station

Triangular distribution with parameters:

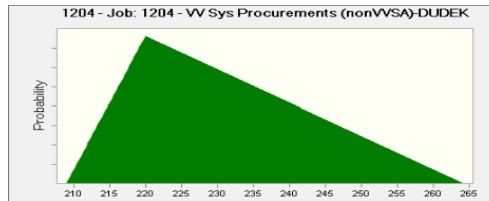
Minimum	16	(=I68)
Likeliest	19	(=H68)
80%	24	(=J68)



Assumption: 1204 - Job: 1204 - VV Sys Procurements (nonVVSA)-DUDEK

Triangular distribution with parameters:

Minimum	209	(=I3)
Likeliest	220	(=H3)
80%	242	(=J3)

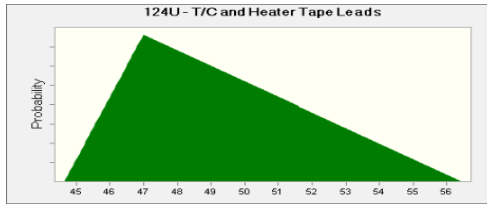


Assumption: 124U - T/C and Heater Tape Leads

Triangular distribution with parameters:

Minimum	45	(=I99)
Likeliest	47	(=H99)
80%	52	(=J99)

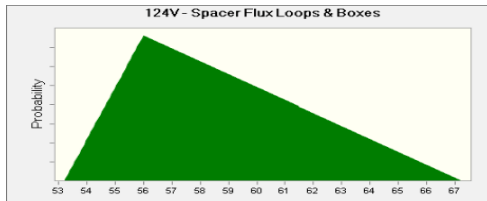
Assumption: 124U - T/C and Heater Tape Leads (cont'd)



Assumption: 124V - Spacer Flux Loops & Boxes

Triangular distribution with parameters:

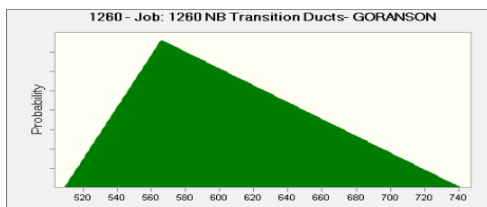
Minimum	53	(=I100)
Likeliest	56	(=H100)
80%	62	(=J100)



Assumption: 1260 - Job: 1260 NB Transition Ducts- GORANSON

Triangular distribution with parameters:

Minimum	509	(=I9)
Likeliest	566	(=H9)
80%	651	(=J9)

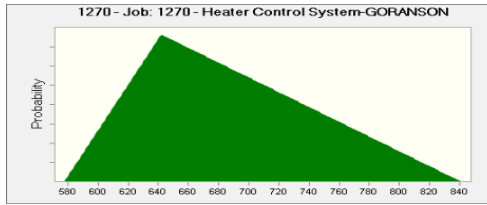


Assumption: 1270 - Job: 1270 - Heater Control System-GORANSON

Triangular distribution with parameters:

Minimum	578	(=I10)
Likeliest	642	(=H10)
80%	738	(=J10)

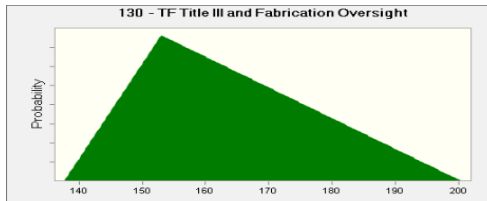
Assumption: 1270 - Job: 1270 - Heater Control System-GORANSON (cont'd)



Assumption: 130 - TF Title III and Fabrication Oversight

Triangular distribution with parameters:

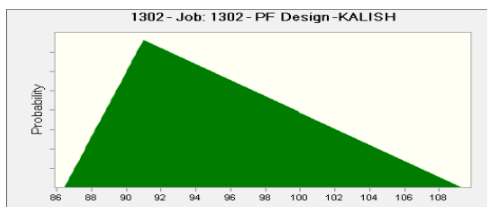
Minimum	138	(=I18)
Likeliest	153	(=H18)
80%	176	(=J18)



Assumption: 1302 - Job: 1302 - PF Design -KALISH

Triangular distribution with parameters:

Minimum	86	(=I11)
Likeliest	91	(=H11)
80%	100	(=J11)

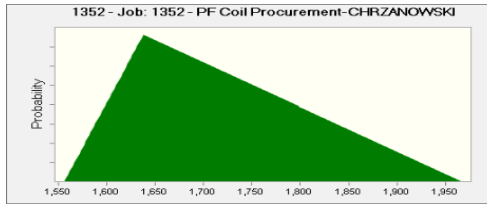


Assumption: 1352 - Job: 1352 - PF Coil Procurement-CHRZANOWSKI

Triangular distribution with parameters:

Minimum	1,556	(=I13)
Likeliest	1,638	(=H13)
80%	1,802	(=J13)

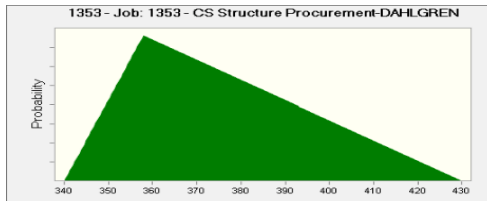
Assumption: 1352 - Job: 1352 - PF Coil Procurement-CHRZANOWSKI (cont'd)



Assumption: 1353 - Job: 1353 - CS Structure Procurement-DAHLGREN

Triangular distribution with parameters:

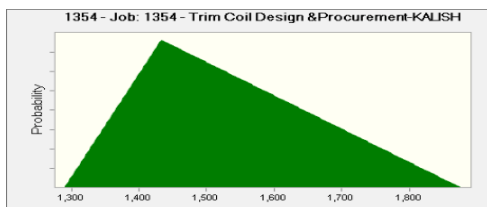
Minimum	340	(=I14)
Likeliest	358	(=H14)
80%	394	(=J14)



Assumption: 1354 - Job: 1354 - Trim Coil Design &Procurement-KALISH

Triangular distribution with parameters:

Minimum	1,290	(=I15)
Likeliest	1,433	(=H15)
80%	1,648	(=J15)

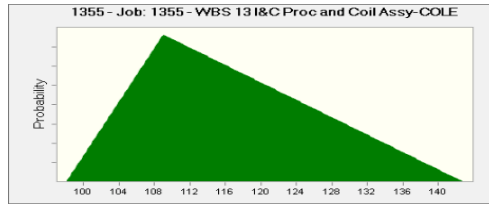


Assumption: 1355 - Job: 1355 - WBS 13 I&C Proc and Coil Assy-COLE

Triangular distribution with parameters:

Minimum	98	(=I16)
Likeliest	109	(=H16)
80%	125	(=J16)

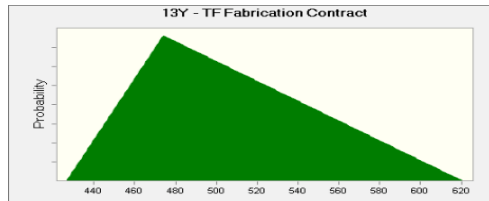
Assumption: 1355 - Job: 1355 - WBS 13 I&C Proc and Coil Assy-COLE (cont'd)



Assumption: 13Y - TF Fabrication Contract

Triangular distribution with parameters:

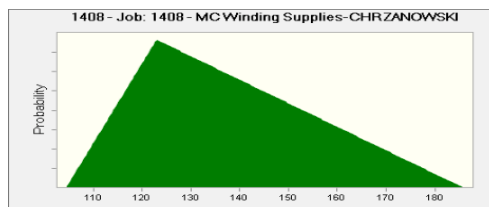
Minimum	427	(=I19)
Likeliest	474	(=H19)
80%	545	(=J19)



Assumption: 1408 - Job: 1408 - MC Winding Supplies-CHRZANOWSKI

Triangular distribution with parameters:

Minimum	105	(=I22)
Likeliest	123	(=H22)
80%	154	(=J22)

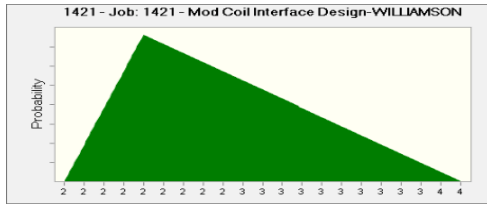


Assumption: 1421 - Job: 1421 - Mod Coil Interface Design-WILLIAMSON

Triangular distribution with parameters:

Minimum	2	(=I30)
Likeliest	2	(=H30)
80%	3	(=J30)

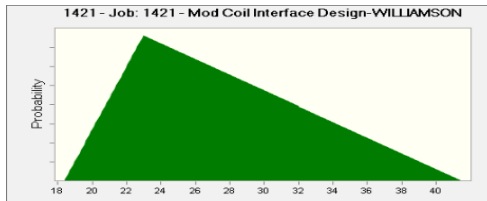
Assumption: 1421 - Job: 1421 - Mod Coil Interface Design-WILLIAMSON (cont'd)



Assumption: 1421 - Job: 1421 - Mod Coil Interface Design-WILLIAMSON

Triangular distribution with parameters:

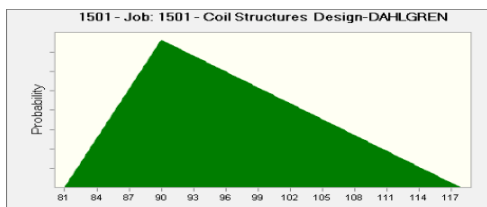
Minimum	18	(=I29)
Likeliest	23	(=H29)
80%	32	(=J29)



Assumption: 1501 - Job: 1501 - Coil Structures Design-DAHLGREN

Triangular distribution with parameters:

Minimum	81	(=I53)
Likeliest	90	(=H53)
80%	104	(=J53)

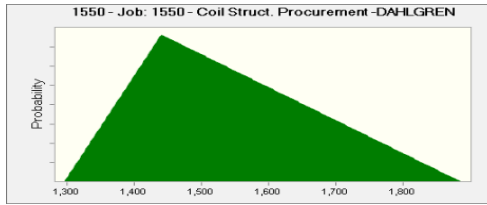


Assumption: 1550 - Job: 1550 - Coil Struct. Procurement -DAHLGREN

Triangular distribution with parameters:

Minimum	1,296	(=I54)
Likeliest	1,440	(=H54)
80%	1,656	(=J54)

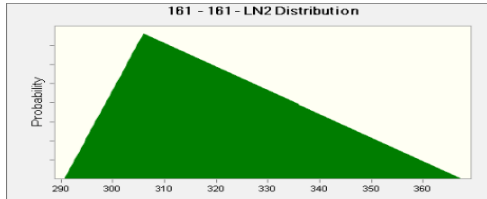
Assumption: 1550 - Job: 1550 - Coil Struct. Procurement -DAHLGREN (cont'd)



Assumption: 161 - 161 - LN2 Distribution

Triangular distribution with parameters:

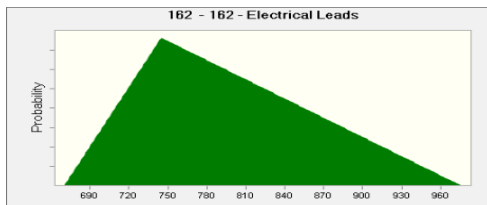
Minimum	291	(=I55)
Likeliest	306	(=H55)
80%	337	(=J55)



Assumption: 162 - 162 - Electrical Leads

Triangular distribution with parameters:

Minimum	671	(=I56)
Likeliest	745	(=H56)
80%	857	(=J56)

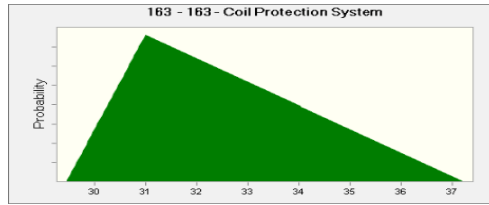


Assumption: 163 - 163 - Coil Protection System

Triangular distribution with parameters:

Minimum	29	(=I57)
Likeliest	31	(=H57)
80%	34	(=J57)

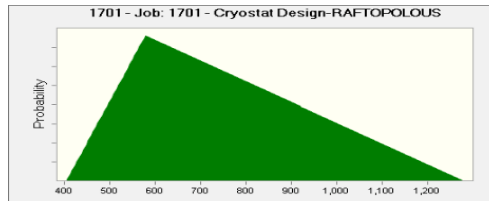
Assumption: 163 - 163 - Coil Protection System (cont'd)



Assumption: 1701 - Job: 1701 - Cryostat Design-RAFTOPOLOUS

Triangular distribution with parameters:

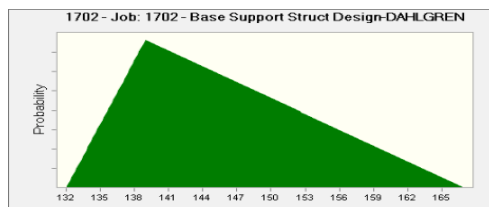
Minimum	406	(=I59)
Likeliest	580	(=H59)
80%	928	(=J59)



Assumption: 1702 - Job: 1702 - Base Support Struct Design-DAHLGREN

Triangular distribution with parameters:

Minimum	132	(=I60)
Likeliest	139	(=H60)
80%	153	(=J60)

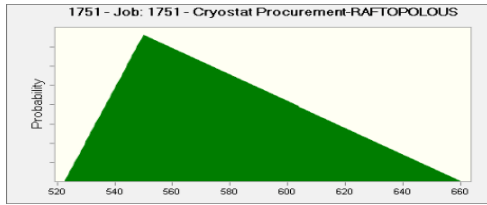


Assumption: 1751 - Job: 1751 - Cryostat Procurement-RAFTOPOLOUS

Triangular distribution with parameters:

Minimum	523	(=I61)
Likeliest	550	(=H61)
80%	605	(=J61)

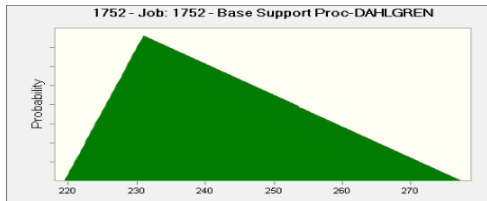
Assumption: 1751 - Job: 1751 - Cryostat Procurement-RAFTOPOLOUS (cont'd)



Assumption: 1752 - Job: 1752 - Base Support Proc-DAHLGREN

Triangular distribution with parameters:

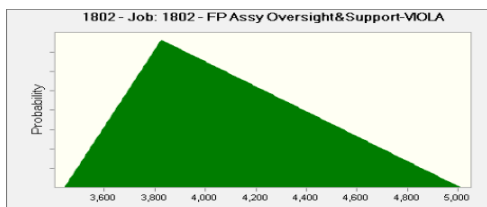
Minimum	219	(=I62)
Likeliest	231	(=H62)
80%	254	(=J62)



Assumption: 1802 - Job: 1802 - FP Assy Oversight&Support-VIOLA

Triangular distribution with parameters:

Minimum	3,443	(=I63)
Likeliest	3,826	(=H63)
80%	4,400	(=J63)

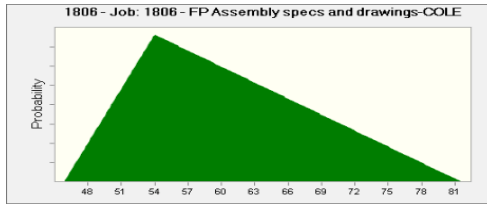


Assumption: 1806 - Job: 1806 - FP Assembly specs and drawings-COLE

Triangular distribution with parameters:

Minimum	46	(=I67)
Likeliest	54	(=H67)
80%	68	(=J67)

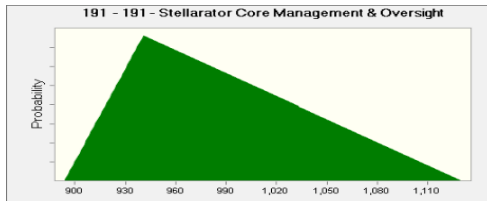
Assumption: 1806 - Job: 1806 - FP Assembly specs and drawings-COLE (cont'd)



Assumption: 191 - 191 - Stellarator Core Management & Oversight

Triangular distribution with parameters:

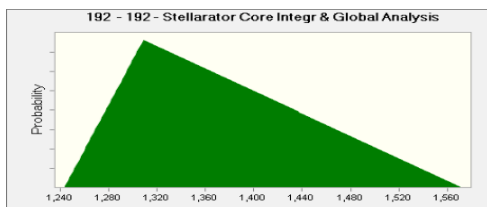
Minimum	894	(=I95)
Likeliest	941	(=H95)
80%	1,035	(=J95)



Assumption: 192 - 192 - Stellarator Core Integr & Global Analysis

Triangular distribution with parameters:

Minimum	1,244	(=I96)
Likeliest	1,309	(=H96)
80%	1,440	(=J96)

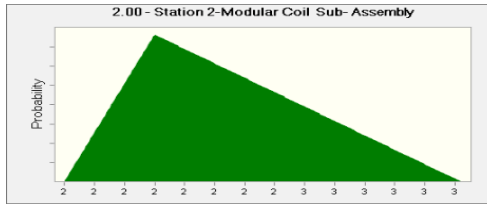


Assumption: 2.00 - Station 2-Modular Coil Sub- Assembly

Triangular distribution with parameters:

Minimum	2	(=I69)
Likeliest	2	(=H69)
80%	3	(=J69)

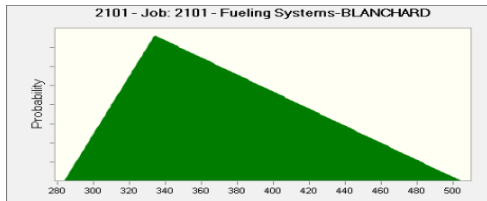
Assumption: 2.00 - Station 2-Modular Coil Sub- Assembly (cont'd)



Assumption: 2101 - Job: 2101 - Fueling Systems-BLANCHARD

Triangular distribution with parameters:

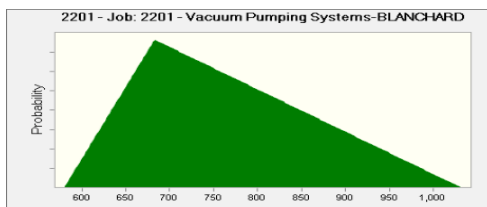
Minimum	284	(=I97)
Likeliest	334	(=H97)
80%	418	(=J97)



Assumption: 2201 - Job: 2201 - Vacuum Pumping Systems-BLANCHARD

Triangular distribution with parameters:

Minimum	581	(=I98)
Likeliest	683	(=H98)
80%	854	(=J98)

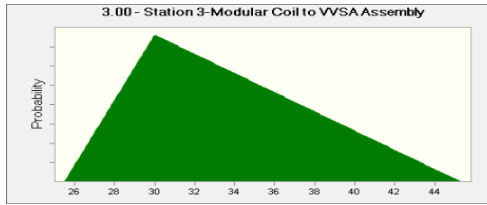


Assumption: 3.00 - Station 3-Modular Coil to VVSA Assembly

Triangular distribution with parameters:

Minimum	26	(=I70)
Likeliest	30	(=H70)
80%	38	(=J70)

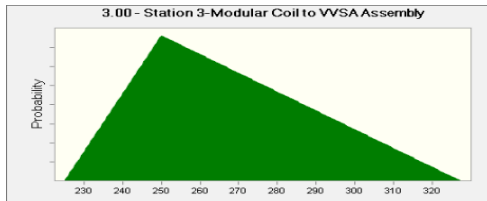
Assumption: 3.00 - Station 3-Modular Coil to VVSA Assembly (cont'd)



Assumption: 3.00 - Station 3-Modular Coil to VVSA Assembly

Triangular distribution with parameters:

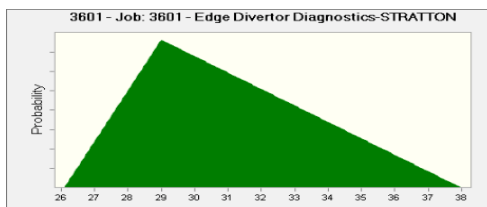
Minimum	225	(=I64)
Likeliest	250	(=H64)
80%	288	(=J64)



Assumption: 3601 - Job: 3601 - Edge Divertor Diagnostics-STRATTON

Triangular distribution with parameters:

Minimum	26	(=I105)
Likeliest	29	(=H105)
80%	33	(=J105)

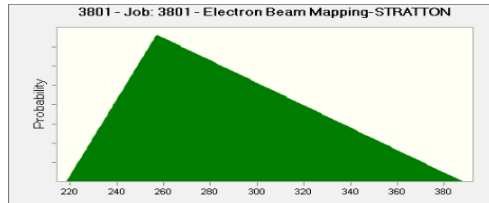


Assumption: 3801 - Job: 3801 - Electron Beam Mapping-STRATTON

Triangular distribution with parameters:

Minimum	218	(=I106)
Likeliest	257	(=H106)
80%	321	(=J106)

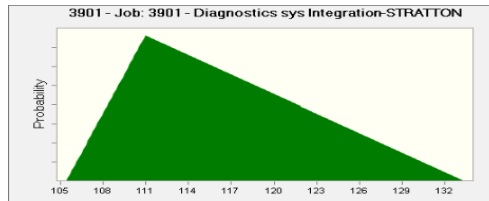
Assumption: 3801 - Job: 3801 - Electron Beam Mapping-STRATTON (cont'd)



Assumption: 3901 - Job: 3901 - Diagnostics sys Integration-STRATTON

Triangular distribution with parameters:

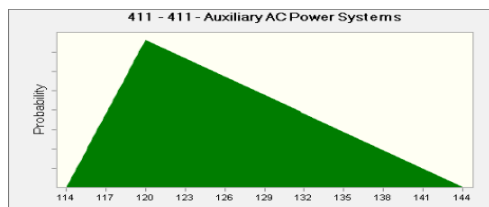
Minimum	105	(=I107)
Likeliest	111	(=H107)
80%	122	(=J107)



Assumption: 411 - 411 - Auxiliary AC Power Systems

Triangular distribution with parameters:

Minimum	114	(=I109)
Likeliest	120	(=H109)
80%	132	(=J109)

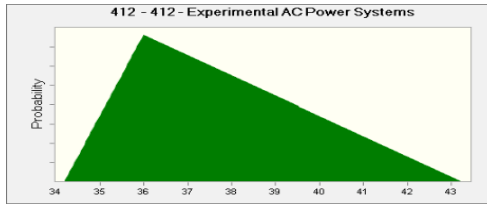


Assumption: 412 - 412 - Experimental AC Power Systems

Triangular distribution with parameters:

Minimum	34	(=I110)
Likeliest	36	(=H110)
80%	40	(=J110)

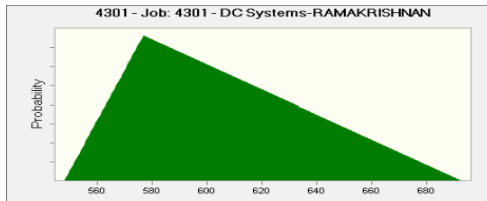
Assumption: 412 - 412 - Experimental AC Power Systems (cont'd)



Assumption: 4301 - Job: 4301 - DC Systems-RAMAKRISHNAN

Triangular distribution with parameters:

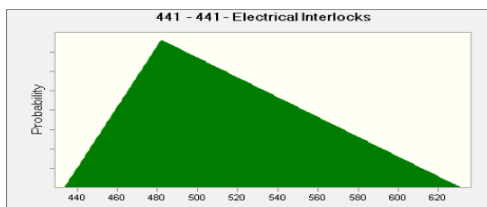
Minimum	548	(=I111)
Likeliest	577	(=H111)
80%	635	(=J111)



Assumption: 441 - 441 - Electrical Interlocks

Triangular distribution with parameters:

Minimum	434	(=I112)
Likeliest	482	(=H112)
80%	554	(=J112)

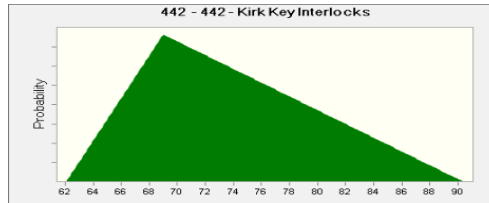


Assumption: 442 - 442 - Kirk Key Interlocks

Triangular distribution with parameters:

Minimum	62	(=I113)
Likeliest	69	(=H113)
80%	79	(=J113)

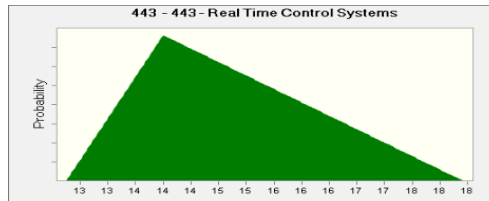
Assumption: 442 - 442 - Kirk Key Interlocks (cont'd)



Assumption: 443 - 443 - Real Time Control Systems

Triangular distribution with parameters:

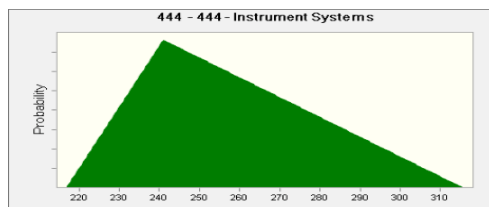
Minimum	13	(=I114)
Likeliest	14	(=H114)
80%	16	(=J114)



Assumption: 444 - 444 - Instrument Systems

Triangular distribution with parameters:

Minimum	217	(=I115)
Likeliest	241	(=H115)
80%	277	(=J115)

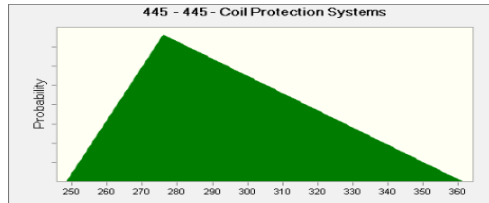


Assumption: 445 - 445 - Coil Protection Systems

Triangular distribution with parameters:

Minimum	248	(=I116)
Likeliest	276	(=H116)
80%	317	(=J116)

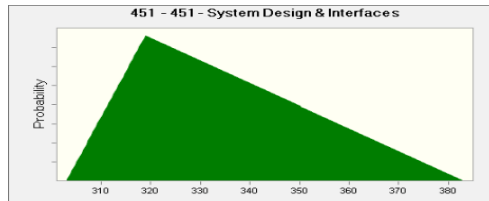
Assumption: 445 - 445 - Coil Protection Systems (cont'd)



Assumption: 451 - 451 - System Design & Interfaces

Triangular distribution with parameters:

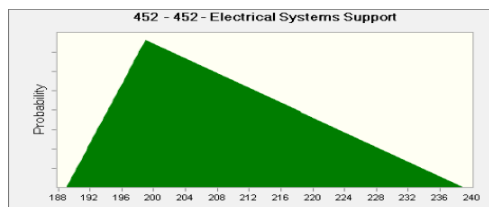
Minimum	303	(=I117)
Likeliest	319	(=H117)
80%	351	(=J117)



Assumption: 452 - 452 - Electrical Systems Support

Triangular distribution with parameters:

Minimum	189	(=I118)
Likeliest	199	(=H118)
80%	219	(=J118)

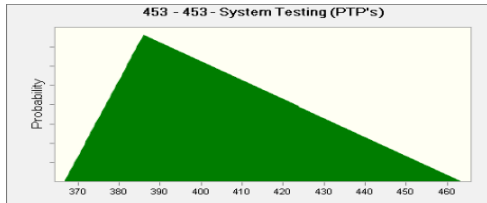


Assumption: 453 - 453 - System Testing (PTP's)

Triangular distribution with parameters:

Minimum	367	(=I119)
Likeliest	386	(=H119)
80%	425	(=J119)

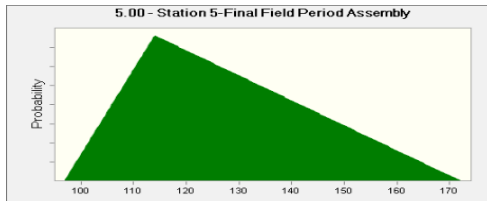
Assumption: 453 - 453 - System Testing (PTP's) (cont'd)



Assumption: 5.00 - Station 5-Final Field Period Assembly

Triangular distribution with parameters:

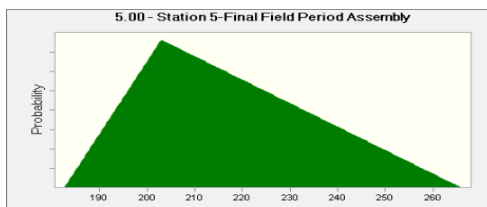
Minimum	97	(=I71)
Likeliest	114	(=H71)
80%	143	(=J71)



Assumption: 5.00 - Station 5-Final Field Period Assembly

Triangular distribution with parameters:

Minimum	183	(=I65)
Likeliest	203	(=H65)
80%	233	(=J65)

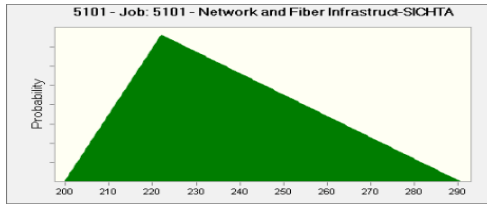


Assumption: 5101 - Job: 5101 - Network and Fiber Infrastruct-SICHTA

Triangular distribution with parameters:

Minimum	200	(=I120)
Likeliest	222	(=H120)
80%	255	(=J120)

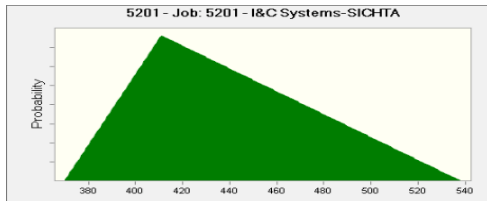
Assumption: 5101 - Job: 5101 - Network and Fiber Infrastruct-SICHTA (cont'd)



Assumption: 5201 - Job: 5201 - I&C Systems-SICHTA

Triangular distribution with parameters:

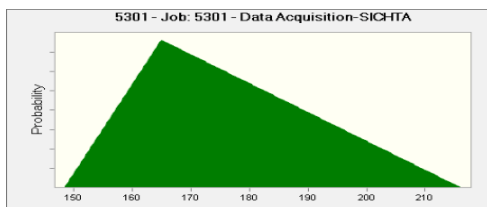
Minimum	370	(=I121)
Likeliest	411	(=H121)
80%	473	(=J121)



Assumption: 5301 - Job: 5301 - Data Acquisition-SICHTA

Triangular distribution with parameters:

Minimum	149	(=I122)
Likeliest	165	(=H122)
80%	190	(=J122)

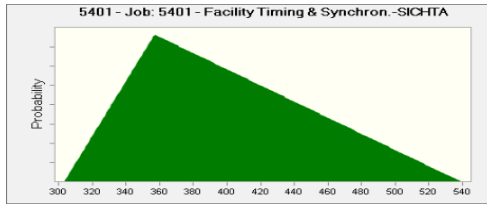


Assumption: 5401 - Job: 5401 - Facility Timing & Synchron.-SICHTA

Triangular distribution with parameters:

Minimum	303	(=I123)
Likeliest	357	(=H123)
80%	446	(=J123)

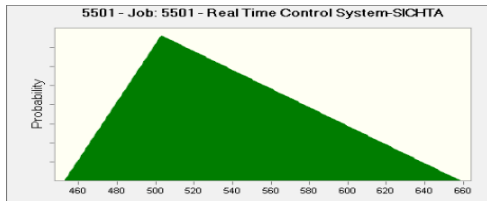
Assumption: 5401 - Job: 5401 - Facility Timing & Synchron.-SICHTA (cont'd)



Assumption: 5501 - Job: 5501 - Real Time Control System-SICHTA

Triangular distribution with parameters:

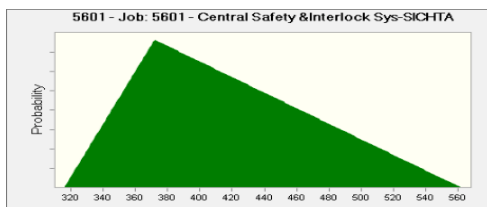
Minimum	453	(=I124)
Likeliest	503	(=H124)
80%	578	(=J124)



Assumption: 5601 - Job: 5601 - Central Safety & Interlock Sys-SICHTA

Triangular distribution with parameters:

Minimum	316	(=I125)
Likeliest	372	(=H125)
80%	465	(=J125)

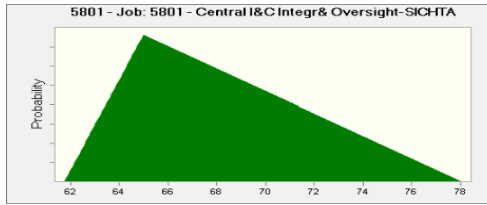


Assumption: 5801 - Job: 5801 - Central I&C Integr& Oversight-SICHTA

Triangular distribution with parameters:

Minimum	62	(=I126)
Likeliest	65	(=H126)
80%	72	(=J126)

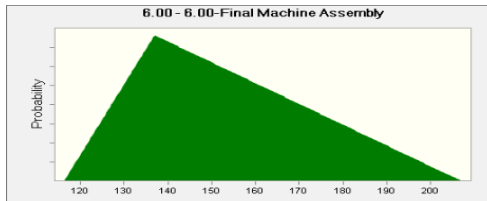
Assumption: 5801 - Job: 5801 - Central I&C Integr& Oversight-SICHTA (cont'd)



Assumption: 6.00 - 6.00-Final Machine Assembly

Triangular distribution with parameters:

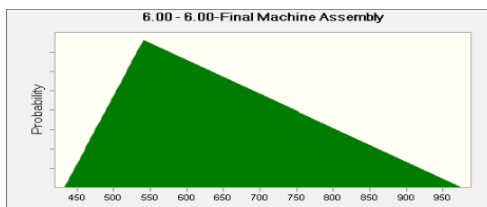
Minimum	116	(=I72)
Likeliest	137	(=H72)
80%	171	(=J72)



Assumption: 6.00 - 6.00-Final Machine Assembly

Triangular distribution with parameters:

Minimum	433	(=I66)
Likeliest	541	(=H66)
80%	757	(=J66)

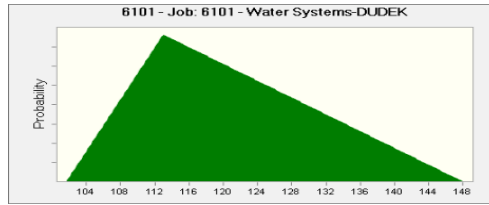


Assumption: 6101 - Job: 6101 - Water Systems-DUDEK

Triangular distribution with parameters:

Minimum	102	(=I127)
Likeliest	113	(=H127)
80%	130	(=J127)

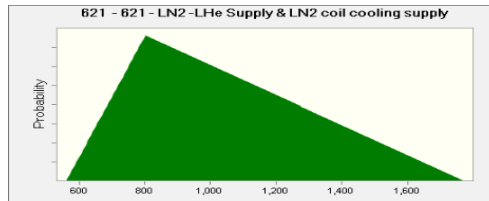
Assumption: 6101 - Job: 6101 - Water Systems-DUDEK (cont'd)



Assumption: 621 - 621 - LN2 -LHe Supply & LN2 coil cooling supply

Triangular distribution with parameters:

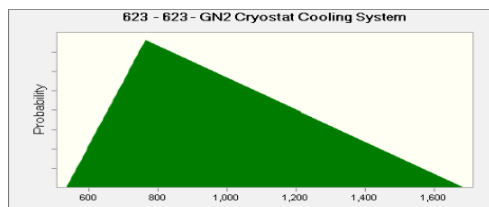
Minimum	562	(=I128)
Likeliest	803	(=H128)
80%	1,285	(=J128)



Assumption: 623 - 623 - GN2 Cryostat Cooling System

Triangular distribution with parameters:

Minimum	535	(=I129)
Likeliest	764	(=H129)
80%	1,222	(=J129)

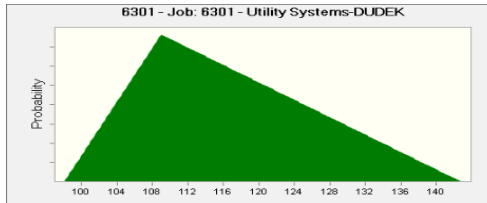


Assumption: 6301 - Job: 6301 - Utility Systems-DUDEK

Triangular distribution with parameters:

Minimum	98	(=I130)
Likeliest	109	(=H130)
80%	125	(=J130)

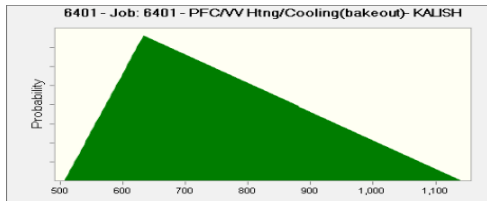
Assumption: 6301 - Job: 6301 - Utility Systems-DUDEK (cont'd)



Assumption: 6401 - Job: 6401 - PFC/VV Htng/Cooling(bakeout)- KALISH

Triangular distribution with parameters:

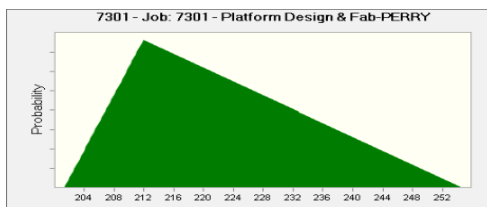
Minimum	506	(=I131)
Likeliest	633	(=H131)
80%	886	(=J131)



Assumption: 7301 - Job: 7301 - Platform Design & Fab-PERRY

Triangular distribution with parameters:

Minimum	201	(=I132)
Likeliest	212	(=H132)
80%	233	(=J132)

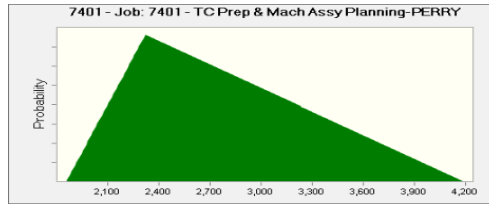


Assumption: 7401 - Job: 7401 - TC Prep & Mach Assy Planning-PERRY

Triangular distribution with parameters:

Minimum	1,858	(=I133)
Likeliest	2,323	(=H133)
80%	3,252	(=J133)

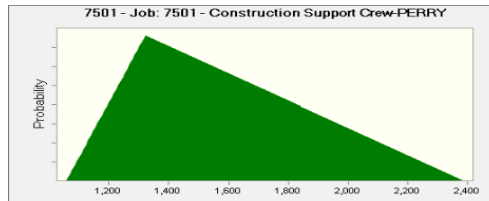
Assumption: 7401 - Job: 7401 - TC Prep & Mach Assy Planning-PERRY (cont'd)



Assumption: 7501 - Job: 7501 - Construction Support Crew-PERRY

Triangular distribution with parameters:

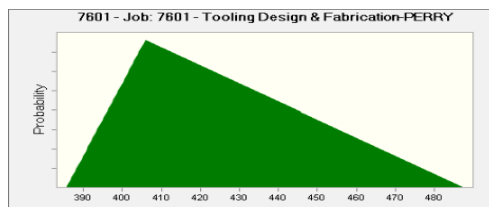
Minimum	1,058	(=I134)
Likeliest	1,323	(=H134)
80%	1,852	(=J134)



Assumption: 7601 - Job: 7601 - Tooling Design & Fabrication-PERRY

Triangular distribution with parameters:

Minimum	386	(=I160)
Likeliest	406	(=H160)
80%	447	(=J160)

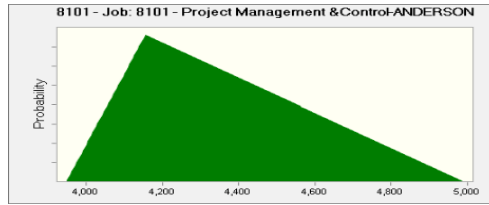


Assumption: 8101 - Job: 8101 - Project Management &Control-ANDERSON

Triangular distribution with parameters:

Minimum	3,948	(=I161)
Likeliest	4,156	(=H161)
80%	4,572	(=J161)

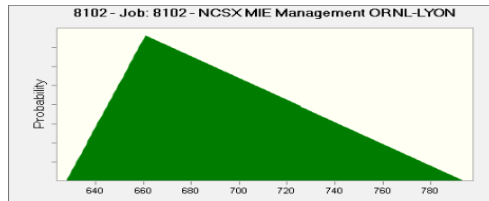
Assumption: 8101 - Job: 8101 - Project Management &Control-ANDERSON (cont'd)



Assumption: 8102 - Job: 8102 - NCSX MIE Management ORNL-LYON

Triangular distribution with parameters:

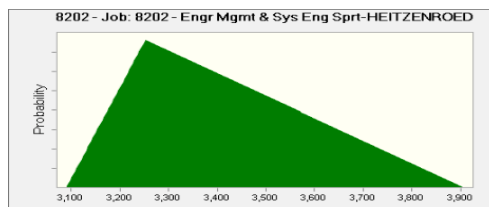
Minimum	628	(=I163)
Likeliest	661	(=H163)
80%	727	(=J163)



Assumption: 8202 - Job: 8202 - Engr Mgmt & Sys Eng Sprt-HEITZENROED

Triangular distribution with parameters:

Minimum	3,090	(=I164)
Likeliest	3,253	(=H164)
80%	3,578	(=J164)

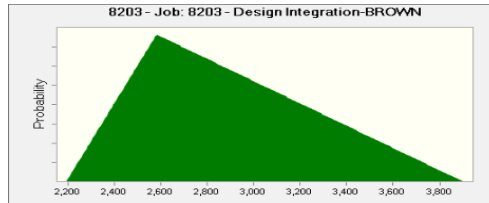


Assumption: 8203 - Job: 8203 - Design Integration-BROWN

Triangular distribution with parameters:

Minimum	2,196	(=I165)
Likeliest	2,583	(=H165)
80%	3,229	(=J165)

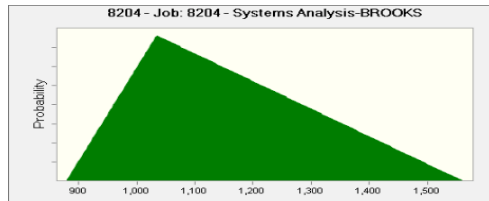
Assumption: 8203 - Job: 8203 - Design Integration-BROWN (cont'd)



Assumption: 8204 - Job: 8204 - Systems Analysis-BROOKS

Triangular distribution with parameters:

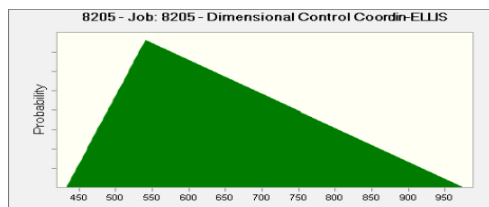
Minimum	879	(=I166)
Likeliest	1,034	(=H166)
80%	1,293	(=J166)



Assumption: 8205 - Job: 8205 - Dimensional Control Coordin-ELLIS

Triangular distribution with parameters:

Minimum	433	(=I167)
Likeliest	541	(=H167)
80%	757	(=J167)

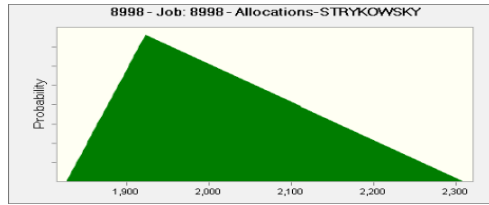


Assumption: 8998 - Job: 8998 - Allocations-STRYKOWSKY

Triangular distribution with parameters:

Minimum	1,827	(=I172)
Likeliest	1,923	(=H172)
80%	2,115	(=J172)

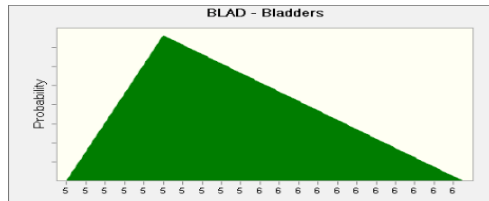
Assumption: 8998 - Job: 8998 - Allocations-STRYKOWSKY (cont'd)



Assumption: BLAD - Bladders

Triangular distribution with parameters:

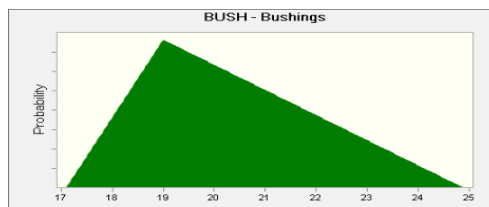
Minimum	5	(=I37)
Likeliest	5	(=H37)
80%	6	(=J37)



Assumption: BUSH - Bushings

Triangular distribution with parameters:

Minimum	17	(=I38)
Likeliest	19	(=H38)
80%	22	(=J38)

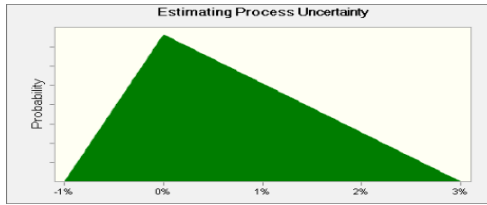


Assumption: Estimating Process Uncertainty

Triangular distribution with parameters:

Minimum	-1%	(=I176)
Likeliest	0%	
Maximum	3%	(=J176)

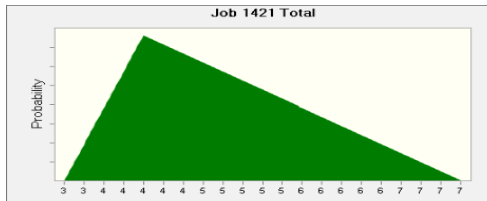
Assumption: Estimating Process Uncertainty (cont'd)



Assumption: Job 1421 Total

Triangular distribution with parameters:

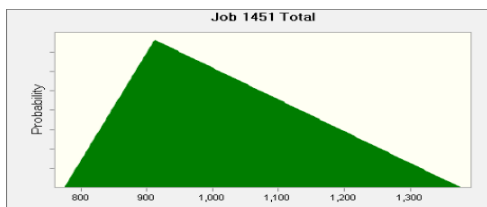
Minimum	3	(=I32)
Likeliest	4	(=H32)
80%	6	(=J32)



Assumption: Job 1451 Total

Triangular distribution with parameters:

Minimum	775	(=I45)
Likeliest	912	(=H45)
80%	1,140	(=J45)

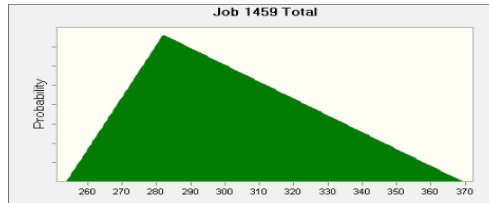


Assumption: Job 1459 Total

Triangular distribution with parameters:

Minimum	254	(=I51)
Likeliest	282	(=H51)
80%	324	(=J51)

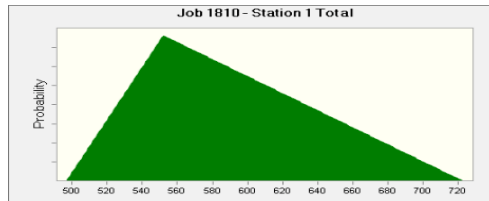
Assumption: Job 1459 Total (cont'd)



Assumption: Job 1810 - Station 1 Total

Triangular distribution with parameters:

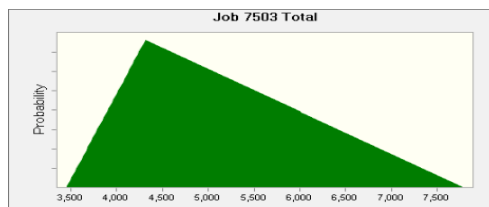
Minimum	497	(=I74)
Likeliest	552	(=H74)
80%	635	(=J74)



Assumption: Job 7503 Total

Triangular distribution with parameters:

Minimum	3,454	(=I135)
Likeliest	4,318	(=H135)
80%	6,045	(=J135)

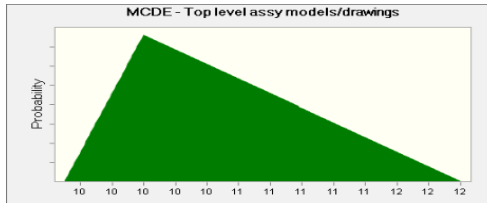


Assumption: MCDE - Top level assy models/drawings

Triangular distribution with parameters:

Minimum	10	(=I26)
Likeliest	10	(=H26)
80%	11	(=J26)

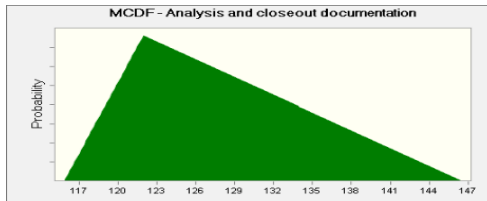
Assumption: MCDE - Top level assy models/drawings (cont'd)



Assumption: MCDF - Analysis and closeout documentation

Triangular distribution with parameters:

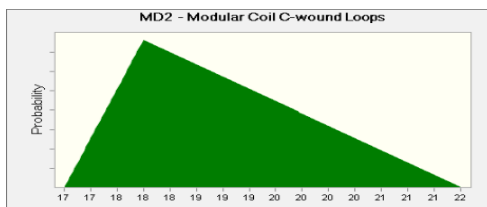
Minimum	116	(=I27)
Likeliest	122	(=H27)
80%	134	(=J27)



Assumption: MD2 - Modular Coil C-wound Loops

Triangular distribution with parameters:

Minimum	17	(=I101)
Likeliest	18	(=H101)
80%	20	(=J101)

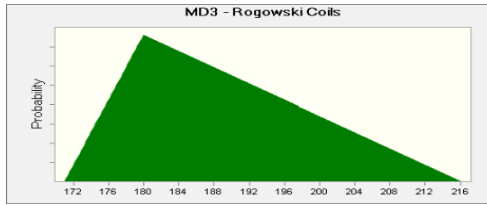


Assumption: MD3 - Rogowski Coils

Triangular distribution with parameters:

Minimum	171	(=I102)
Likeliest	180	(=H102)
80%	198	(=J102)

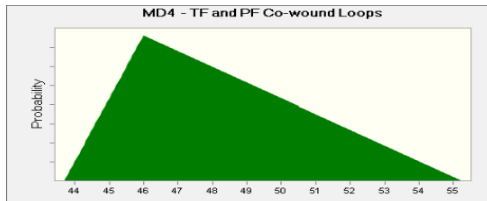
Assumption: MD3 - Rogowski Coils (cont'd)



Assumption: MD4 - TF and PF Co-wound Loops

Triangular distribution with parameters:

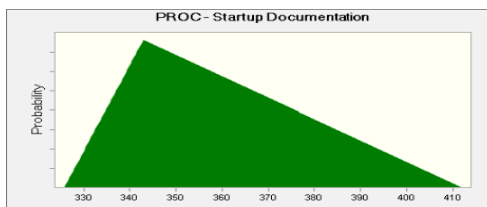
Minimum	44	(=I103)
Likeliest	46	(=H103)
80%	51	(=J103)



Assumption: PROC - Startup Documentation

Triangular distribution with parameters:

Minimum	326	(=I170)
Likeliest	343	(=H170)
80%	377	(=J170)

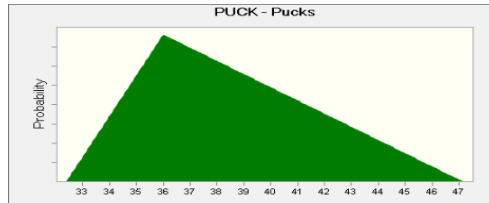


Assumption: PUCK - Pucks

Triangular distribution with parameters:

Minimum	32	(=I39)
Likeliest	36	(=H39)
80%	41	(=J39)

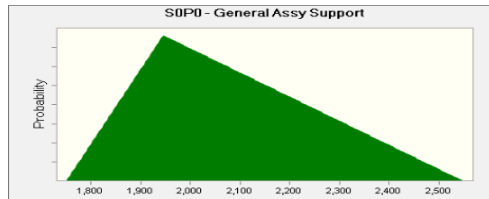
Assumption: PUCK - Pucks (cont'd)



Assumption: SOP0 - General Assy Support

Triangular distribution with parameters:

Minimum	1,751	(=I73)
Likeliest	1,946	(=H73)
80%	2,238	(=J73)



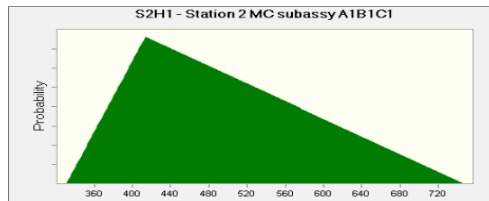
Assumption: S2H1 - Station 2 MC subassy A1B1C1

Chris Gruber:

Correlated with other Station 2 estimates using .8 coefficient since common problems a

Triangular distribution with parameters:

Minimum	331	(=I78)
Likeliest	414	(=H78)
80%	580	(=J78)



Correlated with:

S2H5 - Station 2 MC subassy A5B5C5 (K82)	0.80
S2H6 - Station 2 MC subassy A6B6C6 (K83)	0.80
S2H3 - Station 2 MC subassy A3B3C3 (K80)	0.80
S2H2 - Station 2 MC subassy A2B2C2 (K79)	0.80
S2H4 - Station 2 MC subassy A4B4C4 (K81)	0.80

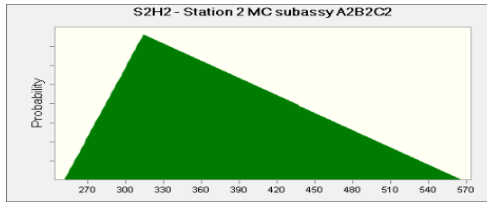
Assumption: S2H2 - Station 2 MC subassy A2B2C2

Chris Gruber:

Correlated with other Station 2 estimates using .8 coefficient since common problems a

Triangular distribution with parameters:

Minimum	251	(=I79)
Likeliest	314	(=H79)
80%	440	(=J79)



Correlated with:

S2H3 - Station 2 MC subassy A3B3C3 (K80)	0.80
S2H5 - Station 2 MC subassy A5B5C5 (K82)	0.80
S2H6 - Station 2 MC subassy A6B6C6 (K83)	0.80
S2H4 - Station 2 MC subassy A4B4C4 (K81)	0.80
S2H1 - Station 2 MC subassy A1B1C1 (K78)	0.80

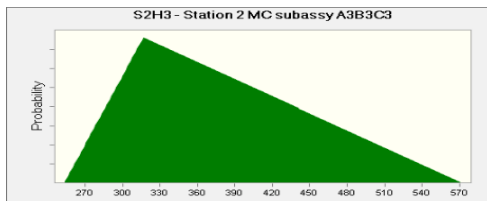
Assumption: S2H3 - Station 2 MC subassy A3B3C3

Chris Gruber:

Correlated with other Station 2 estimates using .8 coefficient since common problems a

Triangular distribution with parameters:

Minimum	254	(=I80)
Likeliest	317	(=H80)
80%	444	(=J80)



Correlated with:

S2H5 - Station 2 MC subassy A5B5C5 (K82)	0.80
S2H4 - Station 2 MC subassy A4B4C4 (K81)	0.80
S2H2 - Station 2 MC subassy A2B2C2 (K79)	0.80
S2H1 - Station 2 MC subassy A1B1C1 (K78)	0.80
S2H6 - Station 2 MC subassy A6B6C6 (K83)	0.80

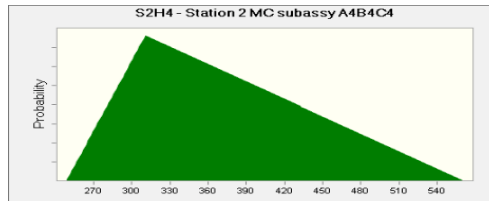
Assumption: S2H4 - Station 2 MC subassy A4B4C4

Chris Gruber:

Correlated with other Station 2 estimates using .8 coefficient since common problems a

Triangular distribution with parameters:

Minimum	249	(=I81)
Likeliest	311	(=H81)
80%	435	(=J81)



Correlated with:

S2H6 - Station 2 MC subassy A6B6C6 (K83)	0.80
S2H3 - Station 2 MC subassy A3B3C3 (K80)	0.80
S2H5 - Station 2 MC subassy A5B5C5 (K82)	0.80
S2H2 - Station 2 MC subassy A2B2C2 (K79)	0.80
S2H1 - Station 2 MC subassy A1B1C1 (K78)	0.80

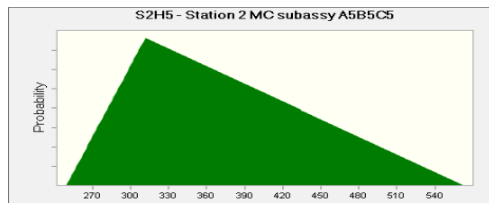
Assumption: S2H5 - Station 2 MC subassy A5B5C5

Chris Gruber:

Correlated with other Station 2 estimates using .8 coefficient since common problems a

Triangular distribution with parameters:

Minimum	250	(=I82)
Likeliest	312	(=H82)
80%	437	(=J82)



Correlated with:

S2H1 - Station 2 MC subassy A1B1C1 (K78)	0.80
S2H3 - Station 2 MC subassy A3B3C3 (K80)	0.80
S2H4 - Station 2 MC subassy A4B4C4 (K81)	0.80
S2H2 - Station 2 MC subassy A2B2C2 (K79)	0.80
S2H6 - Station 2 MC subassy A6B6C6 (K83)	0.80

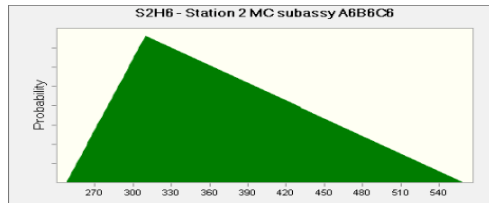
Assumption: S2H6 - Station 2 MC subassy A6B6C6

Chris Gruber:

Correlated with other Station 2 estimates using .8 coefficient since common problems a

Triangular distribution with parameters:

Minimum	248	(=I83)
Likeliest	310	(=H83)
80%	434	(=J83)



Correlated with:

	Coefficient
S2H4 - Station 2 MC subassy A4B4C4 (K81)	0.80
S2H1 - Station 2 MC subassy A1B1C1 (K78)	0.80
S2H5 - Station 2 MC subassy A5B5C5 (K82)	0.80
S2H2 - Station 2 MC subassy A2B2C2 (K79)	0.80
S2H3 - Station 2 MC subassy A3B3C3 (K80)	0.80

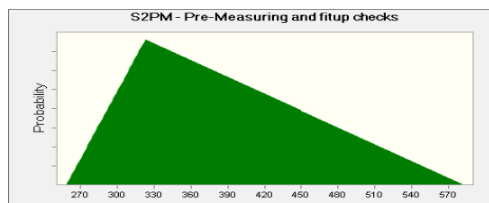
Assumption: S2PM - Pre-Measuring and fitup checks

Chris Gruber:

Correlated with other Station 2 estimates using .8 coefficient since common problems a

Triangular distribution with parameters:

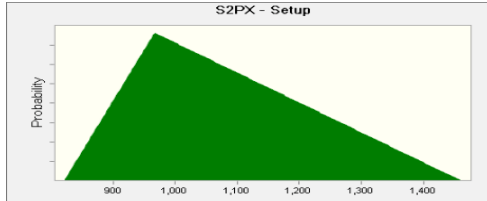
Minimum	258	(=I84)
Likeliest	323	(=H84)
80%	452	(=J84)



Assumption: S2PX - Setup

Triangular distribution with parameters:

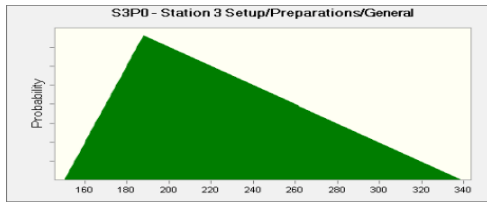
Minimum	822	(=I86)
Likeliest	967	(=H86)
80%	1,209	(=J86)



Assumption: S3P0 - Station 3 Setup/Preparations/General

Triangular distribution with parameters:

Minimum	150	(=I87)
Likeliest	188	(=H87)
80%	263	(=J87)



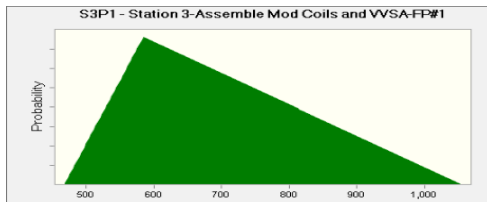
Assumption: S3P1 - Station 3-Assemble Mod Coils and VVSA-FP#1

Chris Gruber:

Correlated with other Station 3 estimates using .8 coefficient since common problems a

Triangular distribution with parameters:

Minimum	468	(=I88)
Likeliest	585	(=H88)
80%	819	(=J88)



Correlated with:

S3P3 - Station 3-Assemble Mod Coils and VVSA-FP#3 (K90)

Coefficient

0.80

S3P2 - Station 3-Assemble Mod Coils and VVSA-FP#2 (K89)

0.80

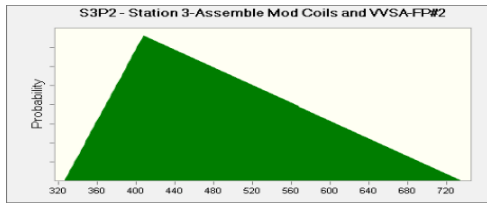
Assumption: S3P2 - Station 3-Assemble Mod Coils and VVSA-FP#2

Chris Gruber:

Correlated with other Station 3 estimates using .8 coefficient since common problems a

Triangular distribution with parameters:

Minimum	326	(=I89)
Likeliest	408	(=H89)
80%	571	(=J89)



Correlated with:

- S3P1 - Station 3-Assemble Mod Coils and VVSA-FP#1 (K88)
- S3P3 - Station 3-Assemble Mod Coils and VVSA-FP#3 (K90)

Coefficient

0.80

0.80

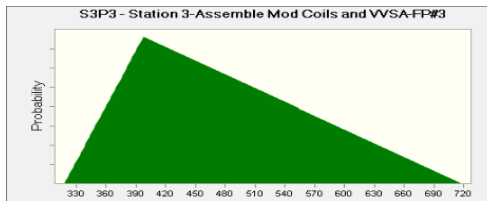
Assumption: S3P3 - Station 3-Assemble Mod Coils and VVSA-FP#3

Chris Gruber:

Correlated with other Station 3 estimates using .8 coefficient since common problems a

Triangular distribution with parameters:

Minimum	318	(=I90)
Likeliest	398	(=H90)
80%	557	(=J90)



Correlated with:

- S3P1 - Station 3-Assemble Mod Coils and VVSA-FP#1 (K88)
- S3P2 - Station 3-Assemble Mod Coils and VVSA-FP#2 (K89)

Coefficient

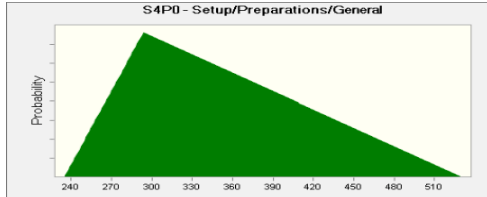
0.80

0.80

Assumption: S4P0 - Setup/Preparations/General

Triangular distribution with parameters:

Minimum	235	(=I91)
Likeliest	294	(=H91)
80%	412	(=J91)



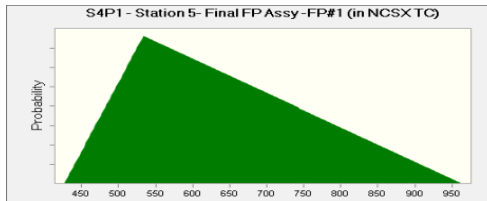
Assumption: S4P1 - Station 5- Final FP Assy -FP#1 (in NCSX TC)

Chris Gruber:

Correlated with other Station 5 estimates using .8 coefficient since common problems a

Triangular distribution with parameters:

Minimum	427	(=I92)
Likeliest	534	(=H92)
80%	748	(=J92)



Correlated with:

S4P3 - Station 5- Final FP Assy -FP#3 (in NCSX TC) (K94)	0.80
S4P2 - Station 5- Final FP Assy -FP#2 (in NCSX TC) (K93)	0.80

Coefficient

Assumption: S4P2 - Station 5- Final FP Assy -FP#2 (in NCSX TC)

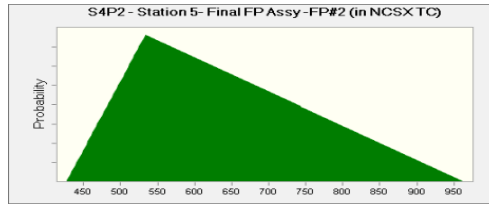
Chris Gruber:

Correlated with other Station 3 estimates using .8 coefficient since common problems a

Triangular distribution with parameters:

Minimum	427	(=I93)
Likeliest	534	(=H93)
80%	748	(=J93)

Assumption: S4P2 - Station 5- Final FP Assy -FP#2 (in NCSX TC) (cont'd)



Correlated with:

- S4P1 - Station 5- Final FP Assy -FP#1 (in NCSX TC) (K92)
- S4P3 - Station 5- Final FP Assy -FP#3 (in NCSX TC) (K94)

Coefficient
0.80
0.80

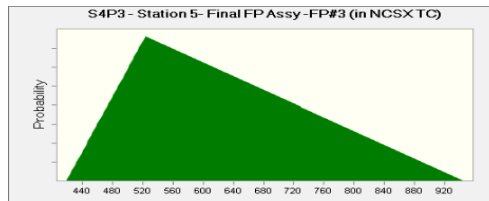
Assumption: S4P3 - Station 5- Final FP Assy -FP#3 (in NCSX TC)

Chris Gruber:

Correlated with other Station 3 estimates using .8 coefficient since common problems a

Triangular distribution with parameters:

Minimum	419	(=I94)
Likeliest	524	(=H94)
80%	734	(=J94)



Correlated with:

- S4P1 - Station 5- Final FP Assy -FP#1 (in NCSX TC) (K92)
- S4P2 - Station 5- Final FP Assy -FP#2 (in NCSX TC) (K93)

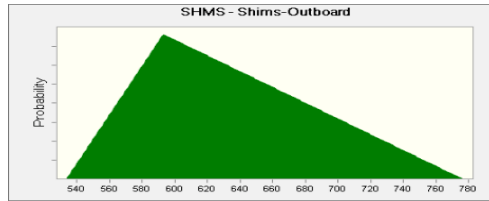
Coefficient
0.80
0.80

Assumption: SHMS - Shims-Outboard

Triangular distribution with parameters:

Minimum	534	(=I40)
Likeliest	593	(=H40)
80%	682	(=J40)

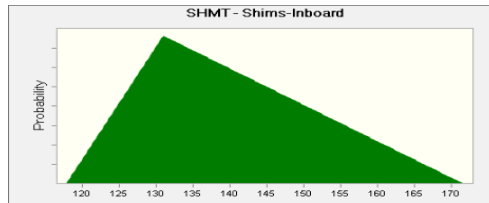
Assumption: SHMS - Shims-Outboard (cont'd)



Assumption: SHMT - Shims-Inboard

Triangular distribution with parameters:

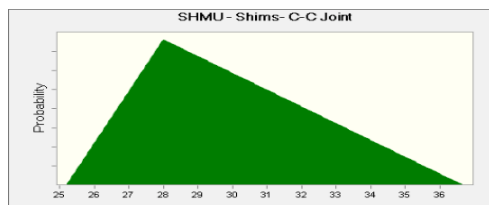
Minimum	118	(=I41)
Likeliest	131	(=H41)
80%	151	(=J41)



Assumption: SHMU - Shims- C-C Joint

Triangular distribution with parameters:

Minimum	25	(=I42)
Likeliest	28	(=H42)
80%	32	(=J42)

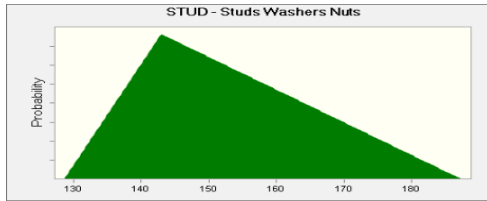


Assumption: STUD - Studs Washers Nuts

Triangular distribution with parameters:

Minimum	129	(=I43)
Likeliest	143	(=H43)
80%	164	(=J43)

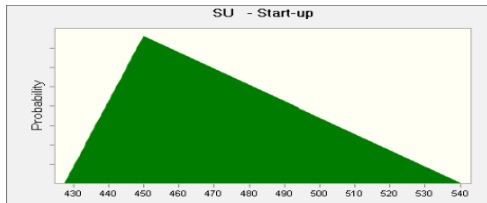
Assumption: STUD - Studs Washers Nuts (cont'd)



Assumption: SU - Start-up

Triangular distribution with parameters:

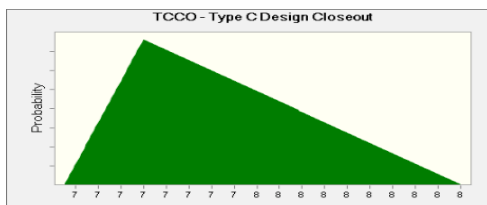
Minimum	428	(=I171)
Likeliest	450	(=H171)
80%	495	(=J171)



Assumption: TCCO - Type C Design Closeout

Triangular distribution with parameters:

Minimum	7	(=I28)
Likeliest	7	(=H28)
80%	8	(=J28)

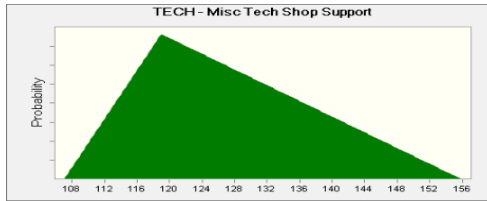


Assumption: TECH - Misc Tech Shop Support

Triangular distribution with parameters:

Minimum	107	(=I44)
Likeliest	119	(=H44)
80%	137	(=J44)

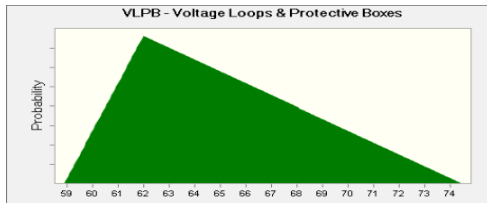
Assumption: TECH - Misc Tech Shop Support (cont'd)



Assumption: VLPB - Voltage Loops & Protective Boxes

Triangular distribution with parameters:

Minimum	59	(=I104)
Likeliest	62	(=H104)
80%	68	(=J104)

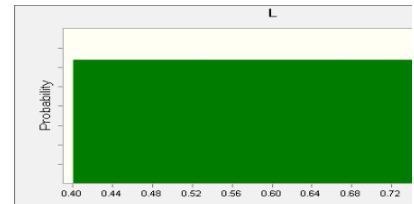


Worksheet: [NCSX Risk-Contingency Model - draft BCP 3-24-08.xls]Likelihood

Assumption: L

Uniform distribution with parameters:

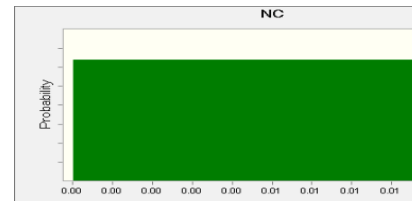
Minimum	0.40
Maximum	0.80



Assumption: NC

Uniform distribution with parameters:

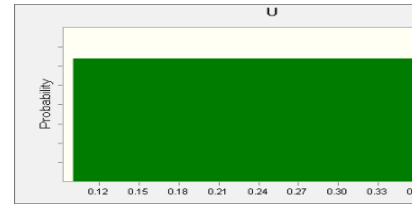
Minimum	0.00
Maximum	0.01



Assumption: U

Uniform distribution with parameters:

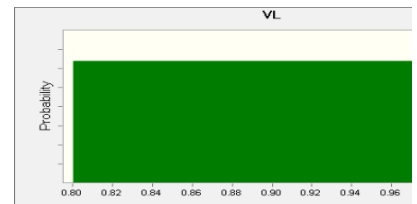
Minimum 0.10
Maximum 0.40



Assumption: VL

Uniform distribution with parameters:

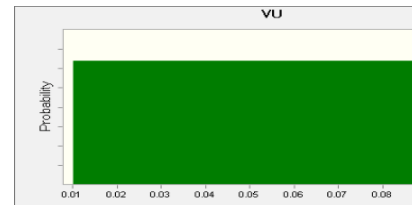
Minimum 0.80
Maximum 1.00



Assumption: VU

Uniform distribution with parameters:

Minimum 0.01
Maximum 0.10

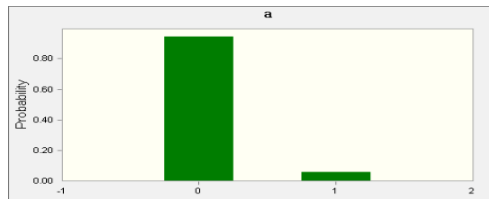


Worksheet: [NCSX Risk-Contingency Model - draft BCP 3-24-08.xls]RiskModel

Assumption: a

Yes-No distribution with parameters:

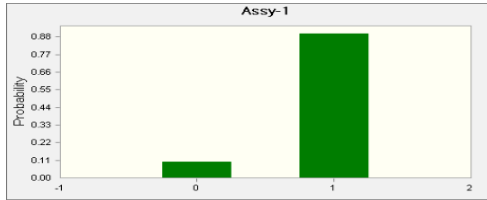
Probability of Yes(1) 0.055 (=V5)



Assumption: Assy-1

Yes-No distribution with parameters:

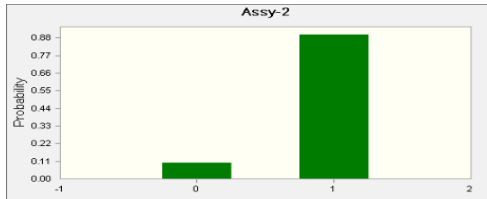
Probability of Yes(1) 0.9 (=V16)



Assumption: Assy-2

Yes-No distribution with parameters:

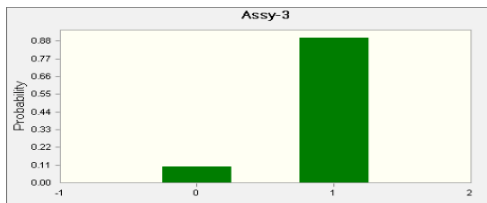
Probability of Yes(1) 0.9 (=V17)



Assumption: Assy-3

Yes-No distribution with parameters:

Probability of Yes(1) 0.9 (=V18)

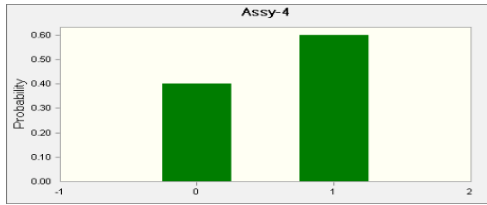


Assumption: Assy-4

Yes-No distribution with parameters:

Probability of Yes(1) 0.6 (=V19)

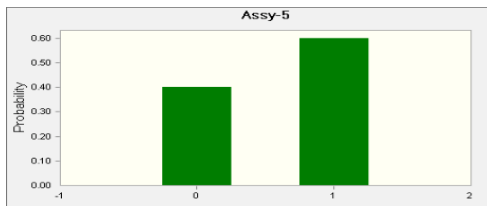
Assumption: Assy-4 (cont'd)



Assumption: Assy-5

Yes-No distribution with parameters:

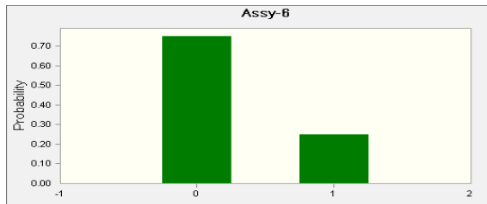
Probability of Yes(1) 0.6 (=V20)



Assumption: Assy-6

Yes-No distribution with parameters:

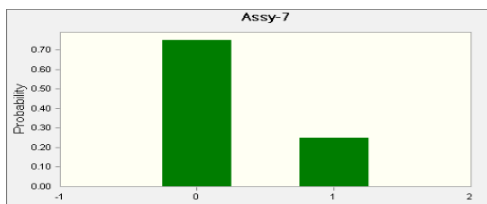
Probability of Yes(1) 0.25 (=V21)



Assumption: Assy-7

Yes-No distribution with parameters:

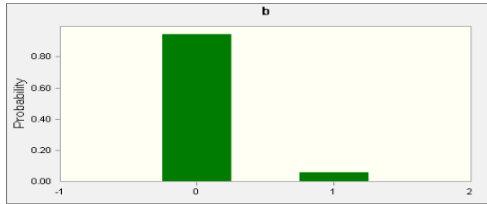
Probability of Yes(1) 0.25 (=V22)



Assumption: b

Yes-No distribution with parameters:

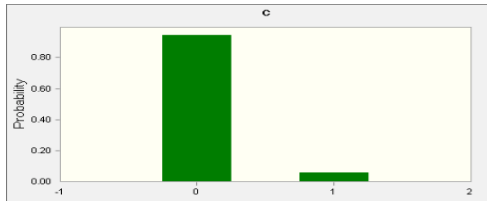
Probability of Yes(1) 0.055 (=V6)



Assumption: c

Yes-No distribution with parameters:

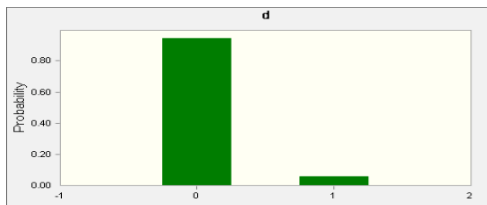
Probability of Yes(1) 0.055 (=V7)



Assumption: d

Yes-No distribution with parameters:

Probability of Yes(1) 0.055 (=V8)



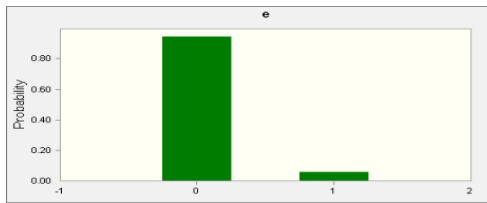
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e

Yes-No distribution with parameters:

Probability of Yes(1)

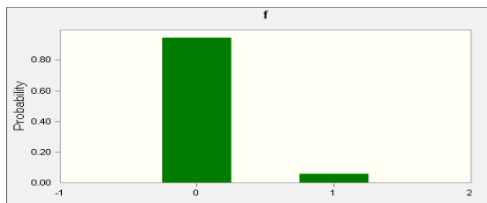
0.055 (=V9)

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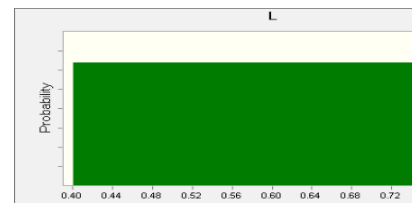
Assumption: f

Yes-No distribution with parameters:
Probability of Yes(1) 0.055 (=V10)



Assumption: L

Uniform distribution with parameters:
Minimum 0.40
Maximum 0.80

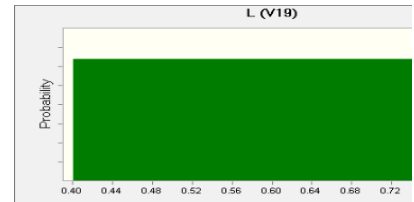


Assumption: L (V19)

Uniform distribution with parameters:

Minimum
Maximum

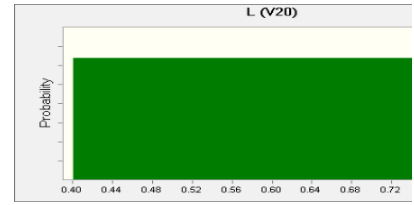
0.40
0.80



Assumption: L (V20)

Uniform distribution with parameters:

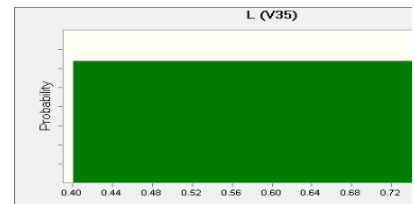
Minimum 0.40
Maximum 0.80



Assumption: L (V35)

Uniform distribution with parameters:

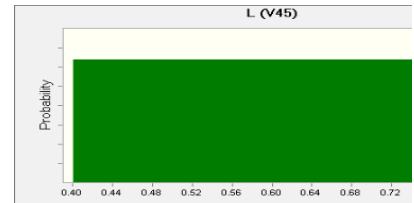
Minimum 0.40
Maximum 0.80



Assumption: L (V45)

Uniform distribution with parameters:

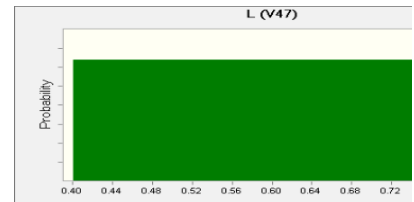
Minimum 0.40
Maximum 0.80



Assumption: L (V47)

Uniform distribution with parameters:

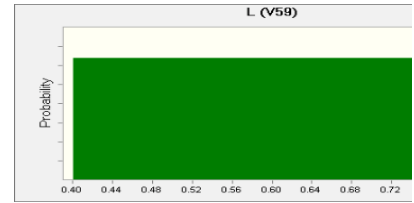
Minimum 0.40
Maximum 0.80



Assumption: L (V59)

Uniform distribution with parameters:

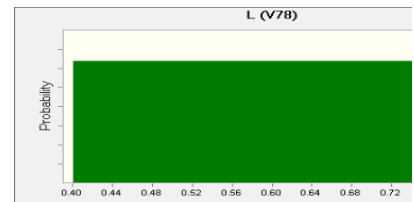
Minimum 0.40
Maximum 0.80



Assumption: L (V78)

Uniform distribution with parameters:

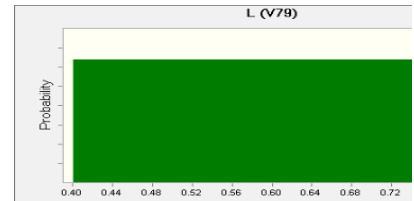
Minimum 0.40
Maximum 0.80



Assumption: L (V79)

Uniform distribution with parameters:

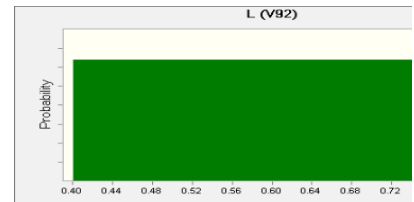
Minimum 0.40
Maximum 0.80



Assumption: L (V92)

Uniform distribution with parameters:

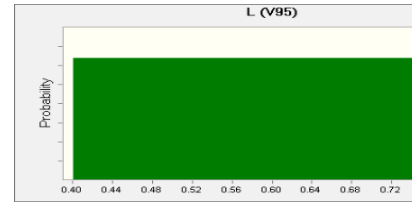
Minimum 0.40
Maximum 0.80



Assumption: L (V95)

Uniform distribution with parameters:

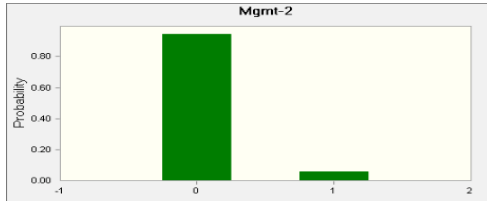
Minimum 0.40
Maximum 0.80



Assumption: Mgmt-2

Yes-No distribution with parameters:

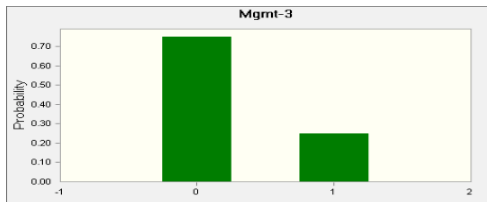
Probability of Yes(1) 0.055 (=V11)



Assumption: Mgmt-3

Yes-No distribution with parameters:

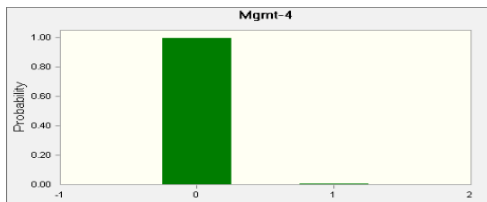
Probability of Yes(1) 0.25 (=V12)



Assumption: Mgmt-4

Yes-No distribution with parameters:

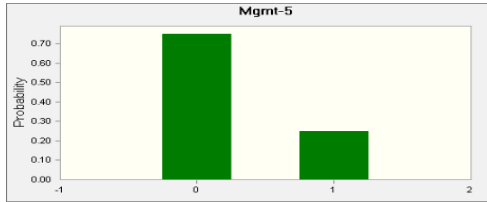
Probability of Yes(1) 0.005 (=V13)



Assumption: Mgmt-5

Yes-No distribution with parameters:

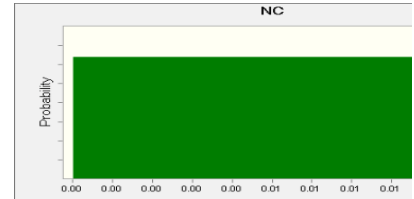
Probability of Yes(1) 0.25 (=V14)



Assumption: NC

Uniform distribution with parameters:

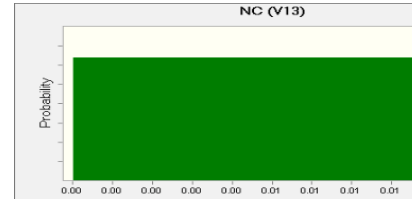
Minimum 0.00
Maximum 0.01



Assumption: NC (V13)

Uniform distribution with parameters:

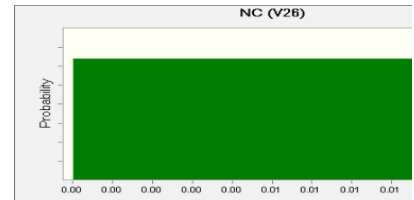
Minimum 0.00
Maximum 0.01



Assumption: NC (V26)

Uniform distribution with parameters:

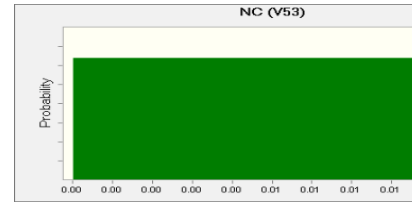
Minimum 0.00
Maximum 0.01



Assumption: NC (V53)

Uniform distribution with parameters:

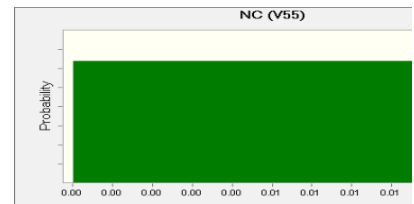
Minimum 0.00
Maximum 0.01



Assumption: NC (V55)

Uniform distribution with parameters:

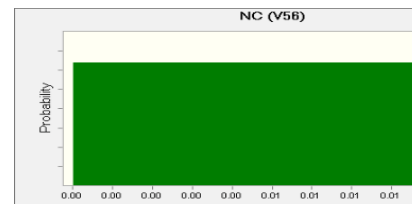
Minimum 0.00
Maximum 0.01



Assumption: NC (V56)

Uniform distribution with parameters:

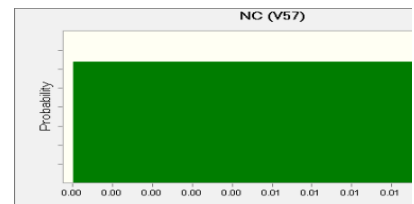
Minimum 0.00
Maximum 0.01



Assumption: NC (V57)

Uniform distribution with parameters:

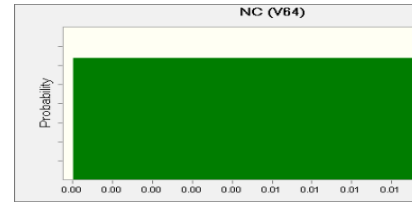
Minimum 0.00
Maximum 0.01



Assumption: NC (V64)

Uniform distribution with parameters:

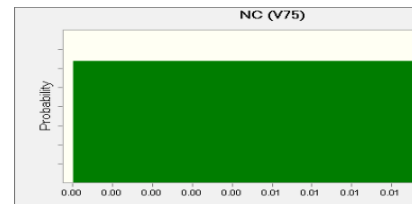
Minimum 0.00
Maximum 0.01



Assumption: NC (V75)

Uniform distribution with parameters:

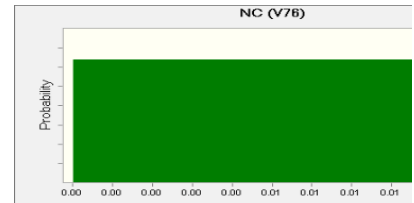
Minimum 0.00
Maximum 0.01



Assumption: NC (V76)

Uniform distribution with parameters:

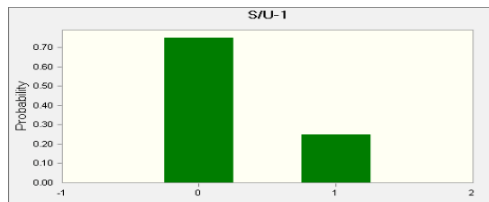
Minimum 0.00
Maximum 0.01



Assumption: S/U-1

Yes-No distribution with parameters:

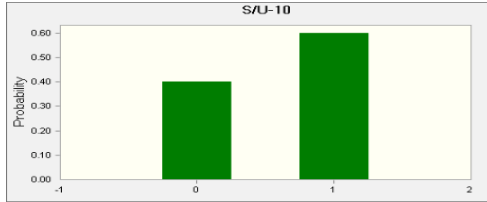
Probability of Yes(1) 0.25 (=V70)



Assumption: S/U-10

Yes-No distribution with parameters:

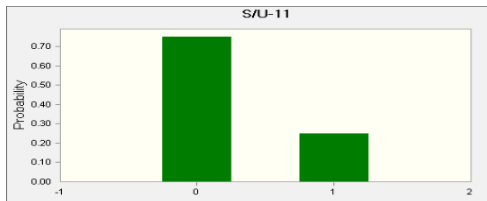
Probability of Yes(1) 0.6 (=V79)



Assumption: S/U-11

Yes-No distribution with parameters:

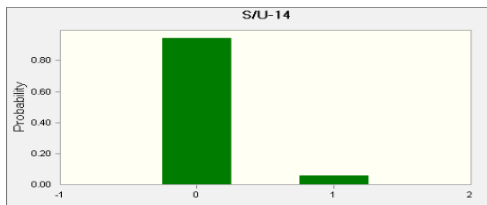
Probability of Yes(1) 0.25 (=V80)



Assumption: S/U-14

Yes-No distribution with parameters:

Probability of Yes(1) 0.055 (=V83)

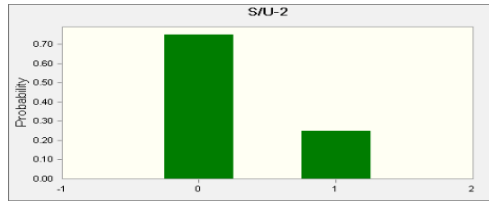


Assumption: S/U-2

Yes-No distribution with parameters:

Probability of Yes(1) 0.25 (=V71)

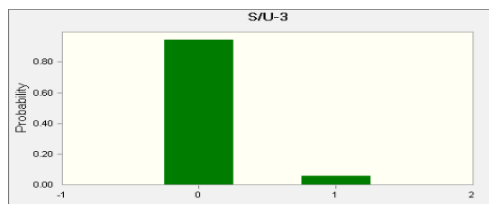
Assumption: S/U-2 (cont'd)



Assumption: S/U-3

Yes-No distribution with parameters:

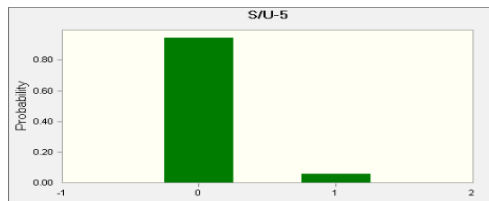
Probability of Yes(1) 0.055 (=V72)



Assumption: S/U-5

Yes-No distribution with parameters:

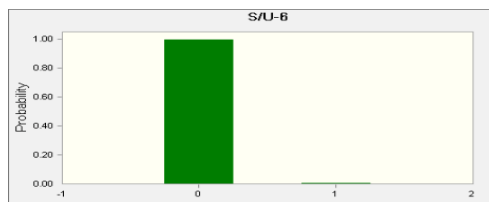
Probability of Yes(1) 0.055 (=V74)



Assumption: S/U-6

Yes-No distribution with parameters:

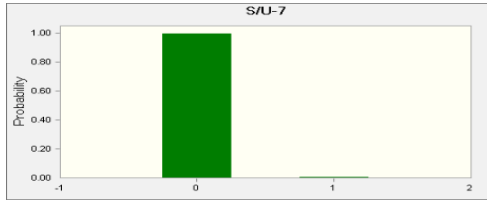
Probability of Yes(1) 0.005 (=V75)



Assumption: S/U-7

Yes-No distribution with parameters:

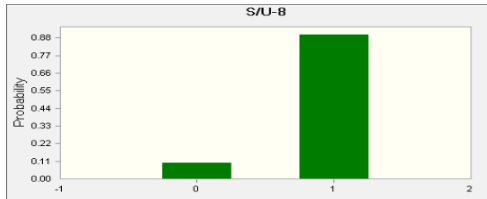
Probability of Yes(1) 0.005 (=V76)



Assumption: S/U-8

Yes-No distribution with parameters:

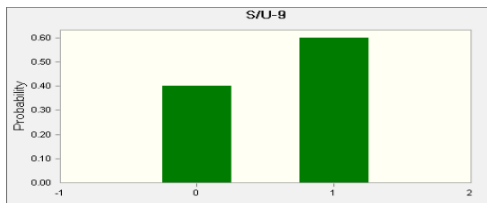
Probability of Yes(1) 0.9 (=V77)



Assumption: S/U-9

Yes-No distribution with parameters:

Probability of Yes(1) 0.6 (=V78)

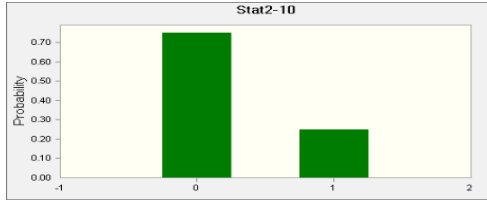


Assumption: Stat2-10

Yes-No distribution with parameters:

Probability of Yes(1) 0.25 (=V29)

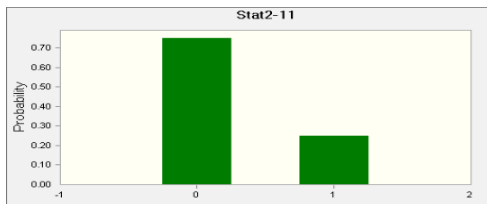
Assumption: Stat2-10 (cont'd)



Assumption: Stat2-11

Yes-No distribution with parameters:

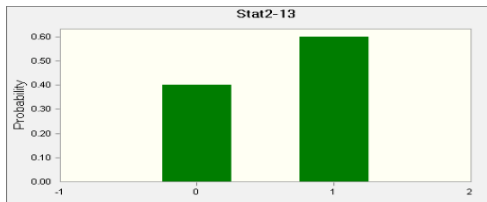
Probability of Yes(1) 0.25 (=V30)



Assumption: Stat2-13

Yes-No distribution with parameters:

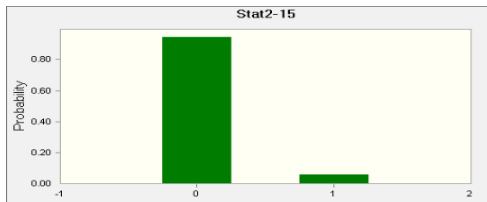
Probability of Yes(1) 0.6 (=V31)



Assumption: Stat2-15

Yes-No distribution with parameters:

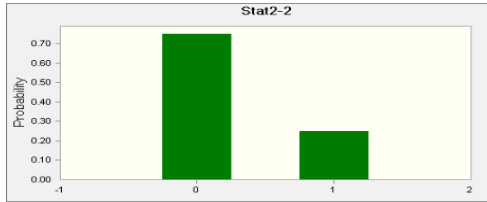
Probability of Yes(1) 0.055 (=V33)



Assumption: Stat2-2

Yes-No distribution with parameters:

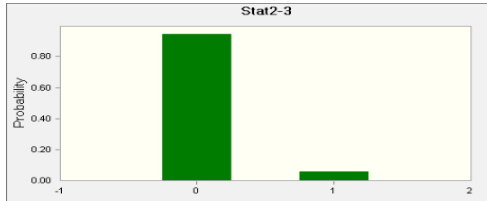
Probability of Yes(1) 0.25 (=V24)



Assumption: Stat2-3

Yes-No distribution with parameters:

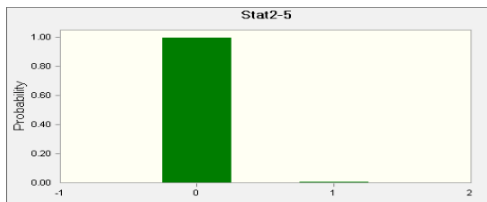
Probability of Yes(1) 0.055 (=V25)



Assumption: Stat2-5

Yes-No distribution with parameters:

Probability of Yes(1) 0.005 (=V26)

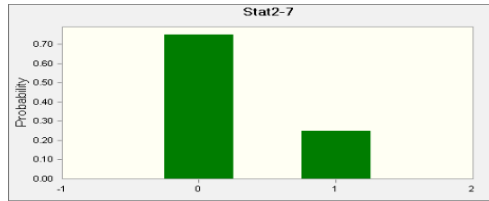


Assumption: Stat2-7

Yes-No distribution with parameters:

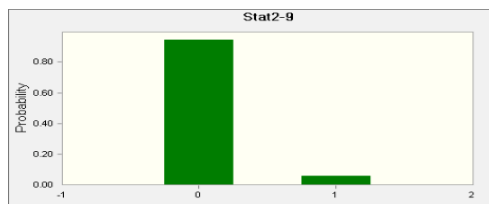
Probability of Yes(1) 0.25 (=V27)

Assumption: Stat2-7 (cont'd)



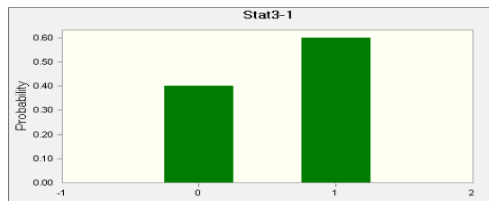
Assumption: Stat2-9

Yes-No distribution with parameters:
Probability of Yes(1) 0.055 (=V28)



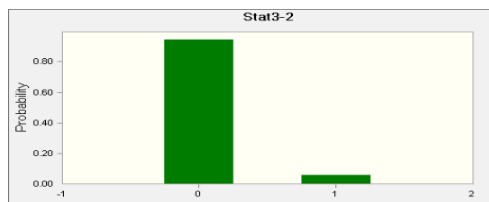
Assumption: Stat3-1

Yes-No distribution with parameters:
Probability of Yes(1) 0.6 (=V35)



Assumption: Stat3-2

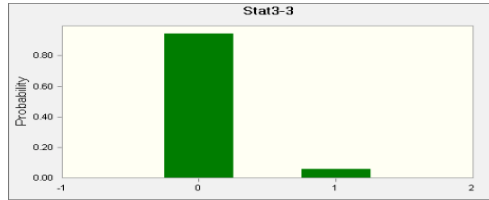
Yes-No distribution with parameters:
Probability of Yes(1) 0.055 (=V36)



Assumption: Stat3-3

Yes-No distribution with parameters:

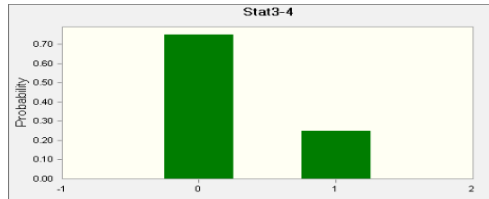
Probability of Yes(1) 0.055 (=V37)



Assumption: Stat3-4

Yes-No distribution with parameters:

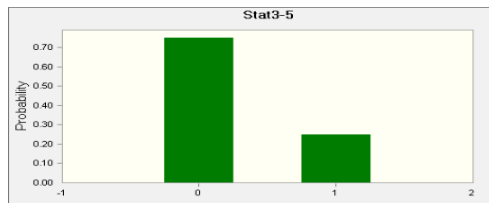
Probability of Yes(1) 0.25 (=V38)



Assumption: Stat3-5

Yes-No distribution with parameters:

Probability of Yes(1) 0.25 (=V39)

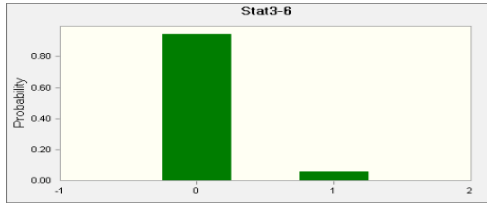


Assumption: Stat3-6

Yes-No distribution with parameters:

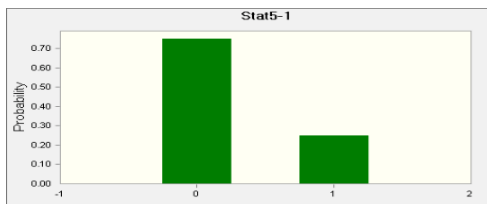
Probability of Yes(1) 0.055 (=V40)

Assumption: Stat3-6 (cont'd)



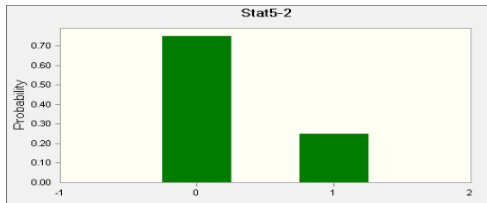
Assumption: Stat5-1

Yes-No distribution with parameters:
Probability of Yes(1) 0.25 (=V42)



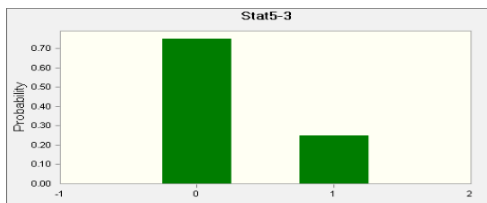
Assumption: Stat5-2

Yes-No distribution with parameters:
Probability of Yes(1) 0.25 (=V43)



Assumption: Stat5-3

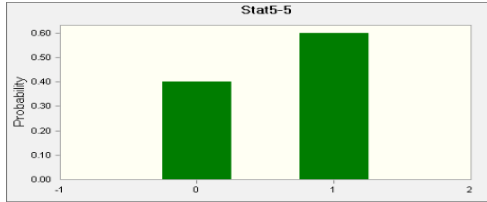
Yes-No distribution with parameters:
Probability of Yes(1) 0.25 (=V44)



Assumption: Stat5-5

Yes-No distribution with parameters:

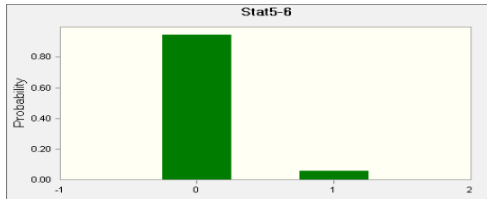
Probability of Yes(1) 0.6 (=V45)



Assumption: Stat5-6

Yes-No distribution with parameters:

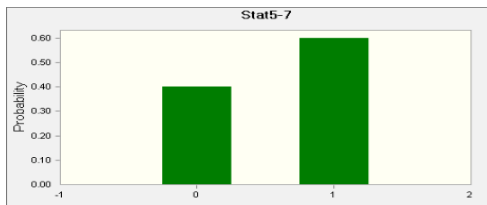
Probability of Yes(1) 0.055 (=V46)



Assumption: Stat5-7

Yes-No distribution with parameters:

Probability of Yes(1) 0.6 (=V47)

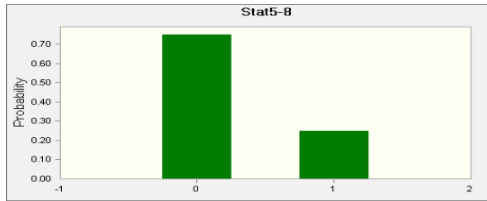


Assumption: Stat5-8

Yes-No distribution with parameters:

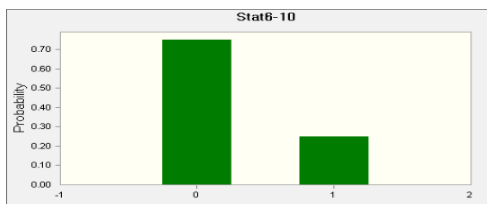
Probability of Yes(1) 0.25 (=V48)

Assumption: Stat5-8 (cont'd)



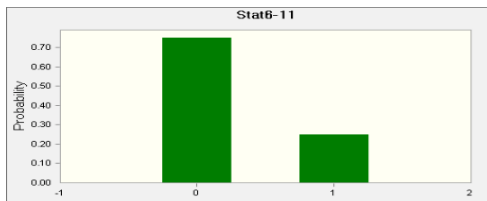
Assumption: Stat6-10

Yes-No distribution with parameters:
Probability of Yes(1) 0.25 (=V60)



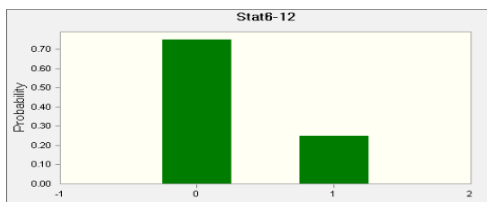
Assumption: Stat6-11

Yes-No distribution with parameters:
Probability of Yes(1) 0.25 (=V61)



Assumption: Stat6-12

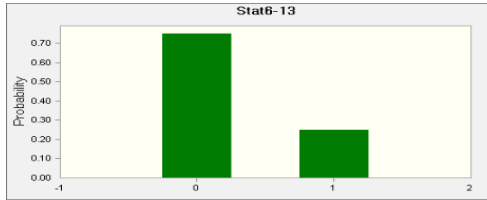
Yes-No distribution with parameters:
Probability of Yes(1) 0.25 (=V62)



Assumption: Stat6-13

Yes-No distribution with parameters:

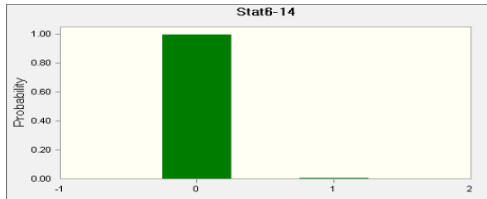
Probability of Yes(1) 0.25 (=V63)



Assumption: Stat6-14

Yes-No distribution with parameters:

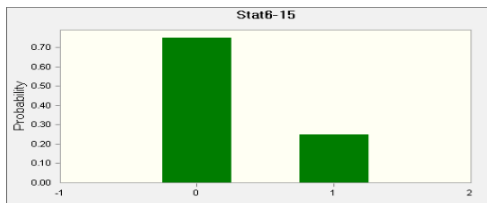
Probability of Yes(1) 0.005 (=V64)



Assumption: Stat6-15

Yes-No distribution with parameters:

Probability of Yes(1) 0.25 (=V65)

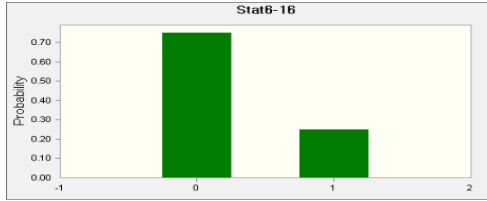


Assumption: Stat6-16

Yes-No distribution with parameters:

Probability of Yes(1) 0.25 (=V66)

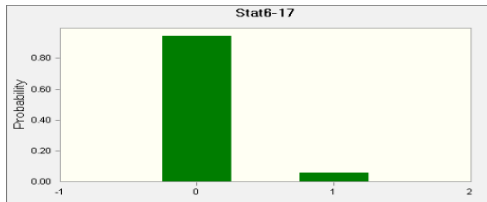
Assumption: Stat6-16 (cont'd)



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Yes-No distribution with parameters:
Probability of Yes(1)

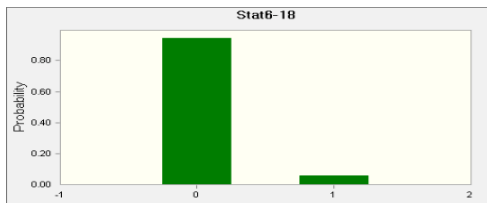
0.055 (=V67)



Assumption: Stat6-18

Yes-No distribution with parameters:
Probability of Yes(1)

0.055 (=V68)

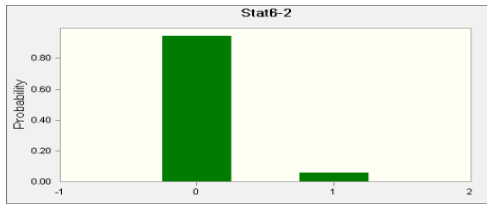


Assumption: Stat6-2

Yes-No distribution with parameters:

Probability of Yes(1)

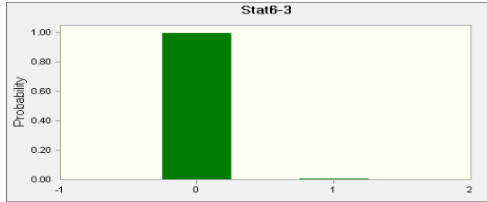
0.055 (=V52)



Assumption: Stat6-3

Yes-No distribution with parameters:

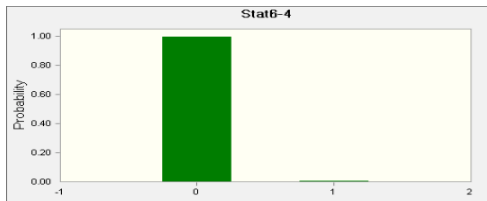
Probability of Yes(1) 0.005 (=V53)



Assumption: Stat6-4

Yes-No distribution with parameters:

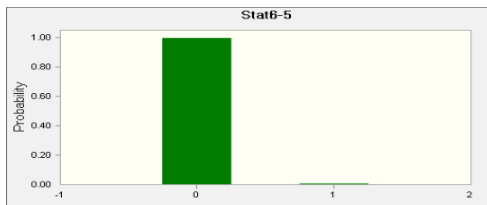
Probability of Yes(1) 0.005 (=V54)



Assumption: Stat6-5

Yes-No distribution with parameters:

Probability of Yes(1) 0.005 (=V55)

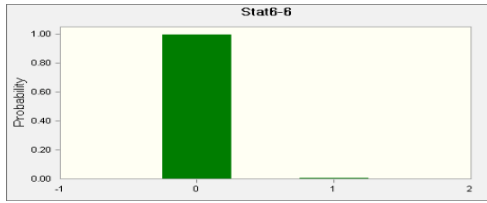


Assumption: Stat6-6

Yes-No distribution with parameters:

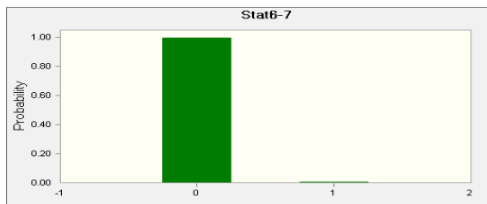
Probability of Yes(1) 0.005 (=V56)

Assumption: Stat6-6 (cont'd)



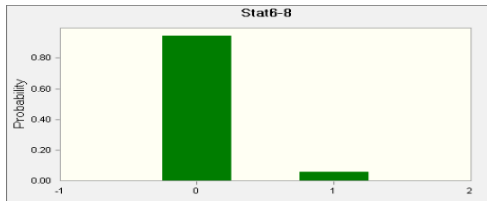
Assumption: Stat6-7

Yes-No distribution with parameters:
Probability of Yes(1) 0.005 (=V57)



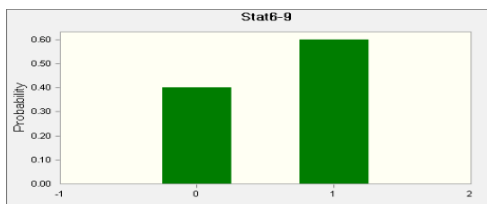
Assumption: Stat6-8

Yes-No distribution with parameters:
Probability of Yes(1) 0.055 (=V58)



Assumption: Stat6-9

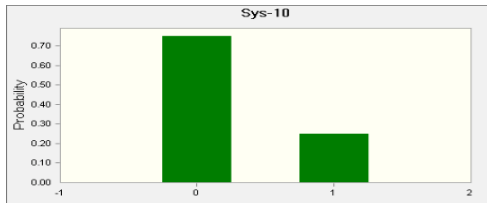
Yes-No distribution with parameters:
Probability of Yes(1) 0.6 (=V59)



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Yes-No distribution with parameters:
Probability of Yes(1)

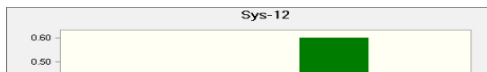
0.25 (=V91)

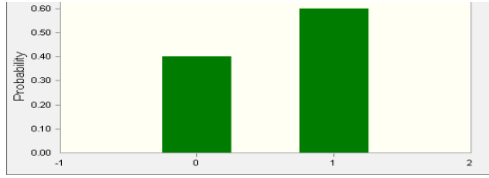


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Yes-No distribution with parameters:
Probability of Yes(1)

0.6 (=V92)

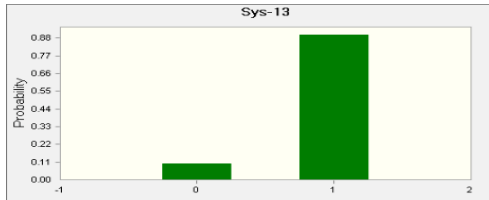




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Yes-No distribution with parameters:
Probability of Yes(1)

0.9 (=V93)

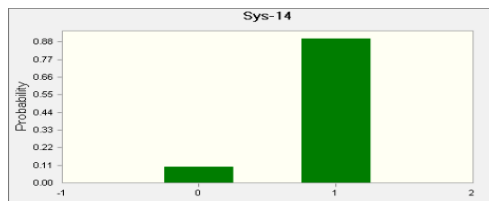


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Yes-No distribution with parameters:
Probability of Yes(1)

0.9 (=V94)

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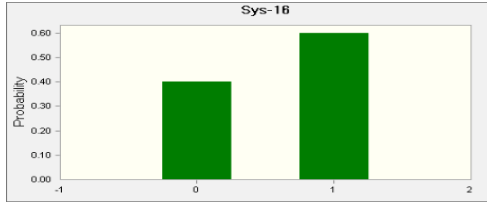


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Yes-No distribution with parameters:

Probability of Yes(1)

0.6 (=V95)

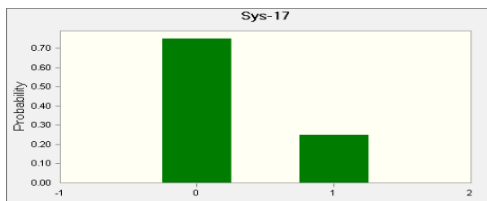


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Yes-No distribution with parameters:

Probability of Yes(1)

0.25 (=V96)

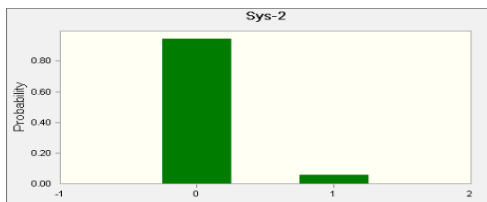


Assumption: Sys-2

Yes-No distribution with parameters:

Probability of Yes(1)

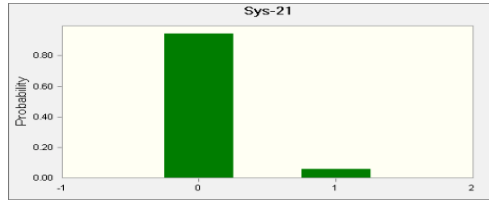
0.055 (=V85)



Assumption: Sys-21

Yes-No distribution with parameters:

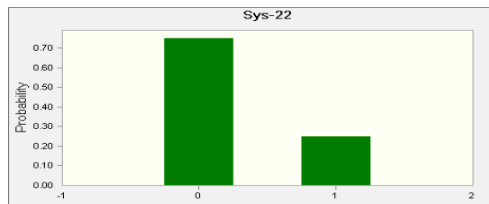
Probability of Yes(1) 0.055 (=V97)



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Yes-No distribution with parameters:

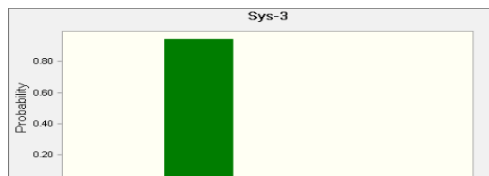
Probability of Yes(1) 0.25 (=V98)

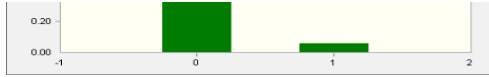


Assumption: Sys-3

Yes-No distribution with parameters:

Probability of Yes(1) 0.055 (=V86)





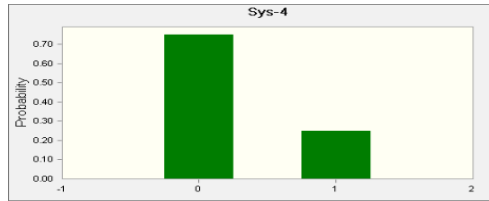
Assumption: Sys-4

Yes-No distribution with parameters:

Probability of Yes(1)

0.25 (=V87)

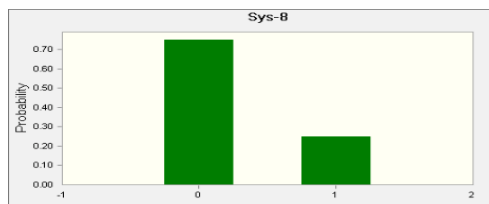
Assumption: Sys-4 (cont'd)



Assumption: Sys-8

Yes-No distribution with parameters:

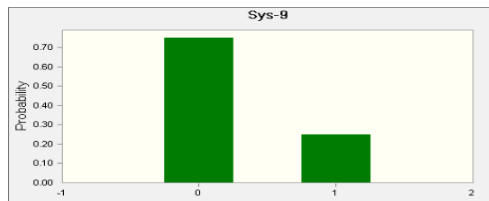
Probability of Yes(1) 0.25 (=V89)



Assumption: Sys-9

Yes-No distribution with parameters:

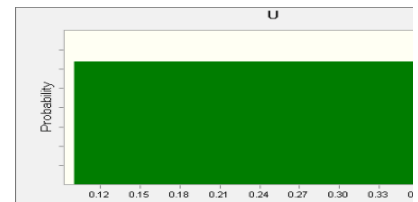
Probability of Yes(1) 0.25 (=V90)



Assumption: U

Uniform distribution with parameters:

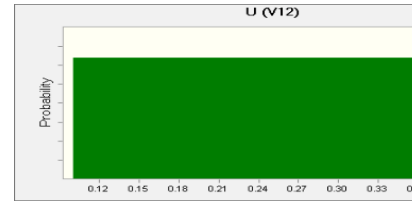
Minimum 0.10
Maximum 0.40



Assumption: U (V12)

Uniform distribution with parameters:

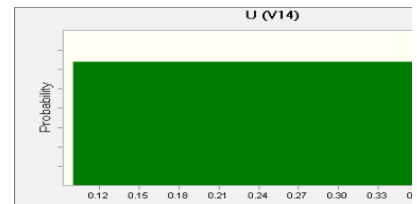
Minimum 0.10
Maximum 0.40



Assumption: U (V14)

Uniform distribution with parameters:

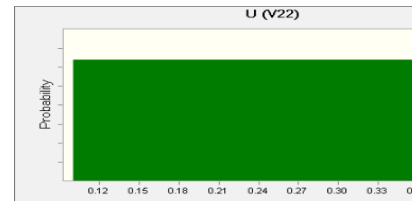
Minimum 0.10
Maximum 0.40



Assumption: U (V22)

Uniform distribution with parameters:

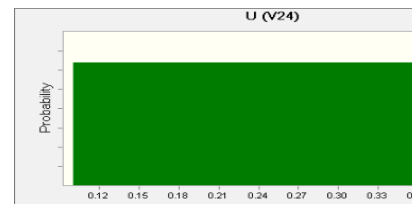
Minimum 0.10
Maximum 0.40



Assumption: U (V24)

Uniform distribution with parameters:

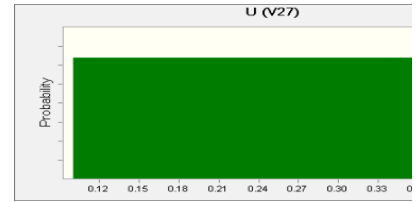
Minimum 0.10
Maximum 0.40



Assumption: U (V27)

Uniform distribution with parameters:

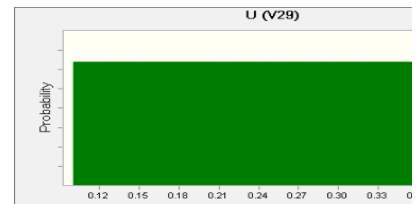
Minimum 0.10
Maximum 0.40



Assumption: U (V29)

Uniform distribution with parameters:

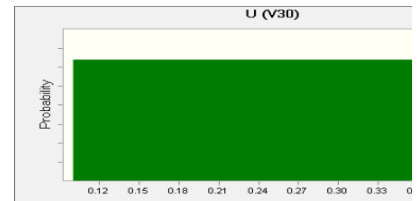
Minimum 0.10
Maximum 0.40



Assumption: U (V30)

Uniform distribution with parameters:

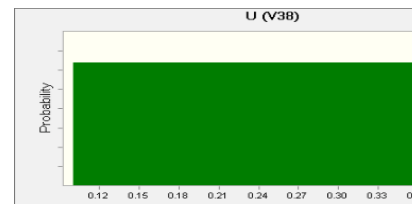
Minimum 0.10
Maximum 0.40



Assumption: U (V38)

Uniform distribution with parameters:

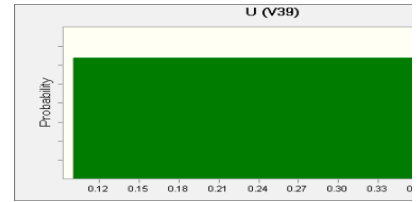
Minimum 0.10
Maximum 0.40



Assumption: U (V39)

Uniform distribution with parameters:

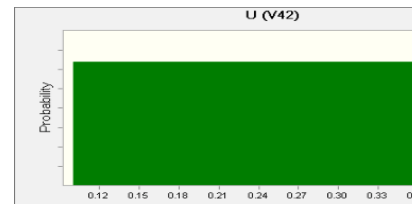
Minimum 0.10
Maximum 0.40



Assumption: U (V42)

Uniform distribution with parameters:

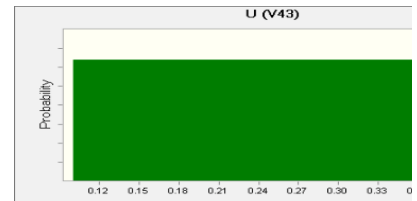
Minimum 0.10
Maximum 0.40



Assumption: U (V43)

Uniform distribution with parameters:

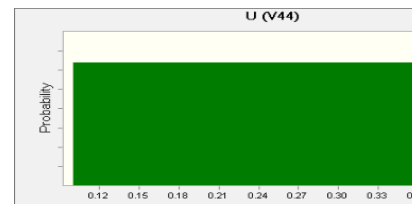
Minimum 0.10
Maximum 0.40



Assumption: U (V44)

Uniform distribution with parameters:

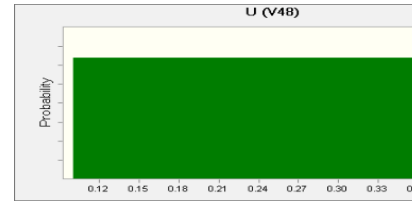
Minimum 0.10
Maximum 0.40



Assumption: U (V48)

Uniform distribution with parameters:

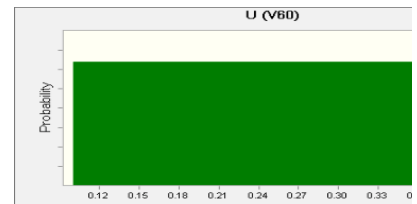
Minimum 0.10
Maximum 0.40



Assumption: U (V60)

Uniform distribution with parameters:

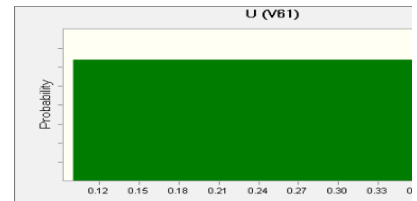
Minimum 0.10
Maximum 0.40



Assumption: U (V61)

Uniform distribution with parameters:

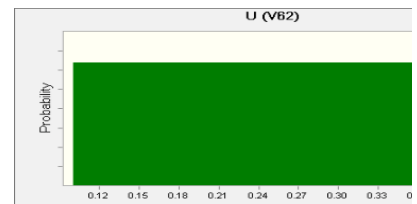
Minimum 0.10
Maximum 0.40



Assumption: U (V62)

Uniform distribution with parameters:

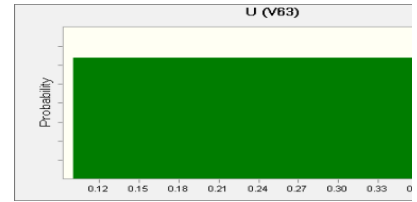
Minimum 0.10
Maximum 0.40



Assumption: U (V63)

Uniform distribution with parameters:

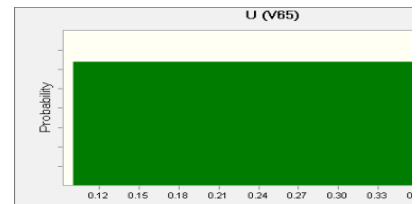
Minimum 0.10
Maximum 0.40



Assumption: U (V65)

Uniform distribution with parameters:

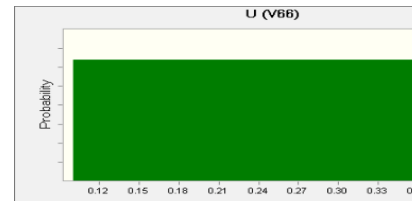
Minimum 0.10
Maximum 0.40



Assumption: U (V66)

Uniform distribution with parameters:

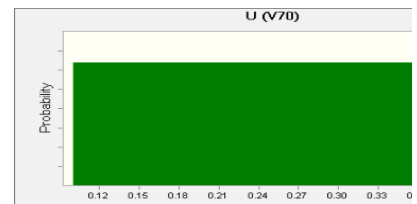
Minimum 0.10
Maximum 0.40



Assumption: U (V70)

Uniform distribution with parameters:

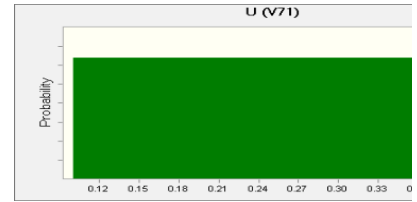
Minimum 0.10
Maximum 0.40



Assumption: U (V71)

Uniform distribution with parameters:

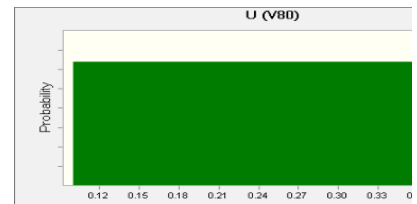
Minimum 0.10
Maximum 0.40



Assumption: U (V80)

Uniform distribution with parameters:

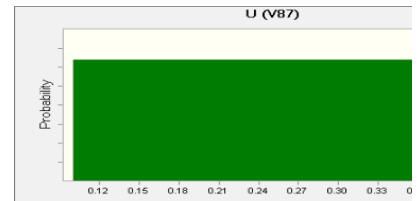
Minimum 0.10
Maximum 0.40



Assumption: U (V87)

Uniform distribution with parameters:

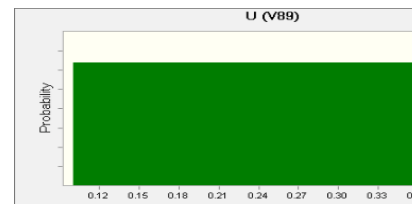
Minimum 0.10
Maximum 0.40



Assumption: U (V89)

Uniform distribution with parameters:

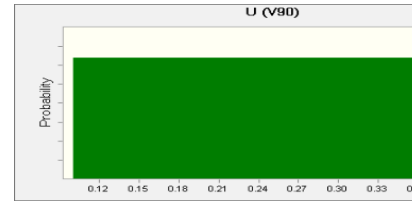
Minimum 0.10
Maximum 0.40



Assumption: U (V90)

Uniform distribution with parameters:

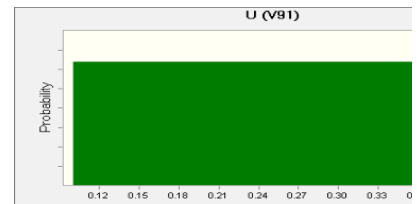
Minimum 0.10
Maximum 0.40



Assumption: U (V91)

Uniform distribution with parameters:

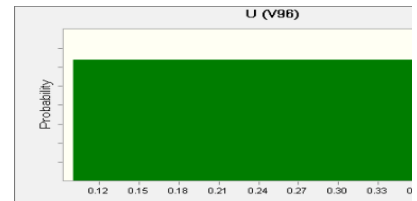
Minimum 0.10
Maximum 0.40



Assumption: U (V96)

Uniform distribution with parameters:

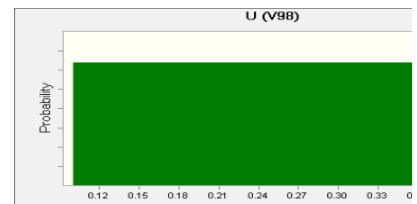
Minimum 0.10
Maximum 0.40



Assumption: U (V98)

Uniform distribution with parameters:

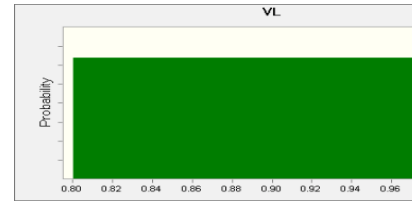
Minimum 0.10
Maximum 0.40



Assumption: VL

Uniform distribution with parameters:

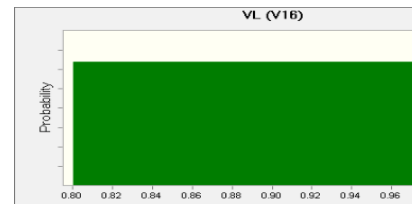
Minimum 0.80
Maximum 1.00



Assumption: VL (V16)

Uniform distribution with parameters:

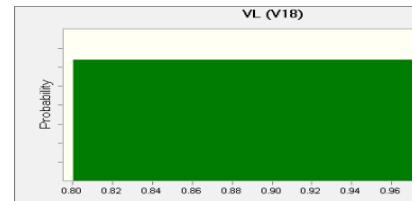
Minimum 0.80
Maximum 1.00



Assumption: VL (V18)

Uniform distribution with parameters:

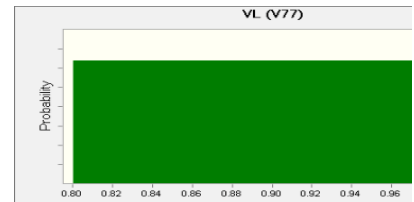
Minimum 0.80
Maximum 1.00



Assumption: VL (V77)

Uniform distribution with parameters:

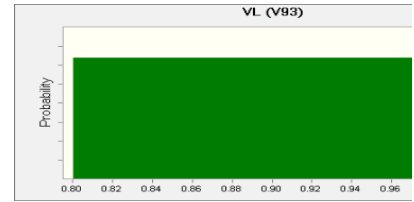
Minimum 0.80
Maximum 1.00



Assumption: VL (V93)

Uniform distribution with parameters:

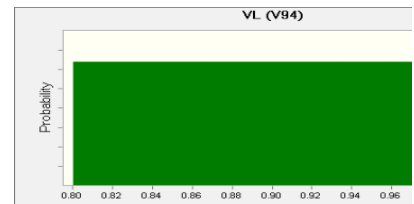
Minimum 0.80
Maximum 1.00



Assumption: VL (V94)

Uniform distribution with parameters:

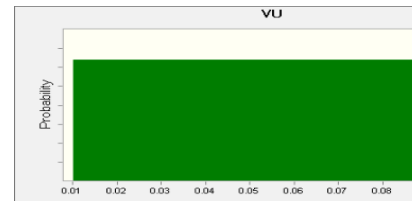
Minimum 0.80
Maximum 1.00



Assumption: VU

Uniform distribution with parameters:

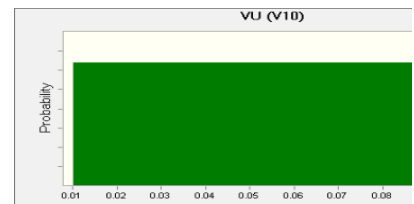
Minimum 0.01
Maximum 0.10



Assumption: VU (V10)

Uniform distribution with parameters:

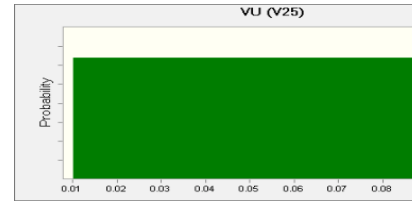
Minimum 0.01
Maximum 0.10



Assumption: VU (V25)

Uniform distribution with parameters:

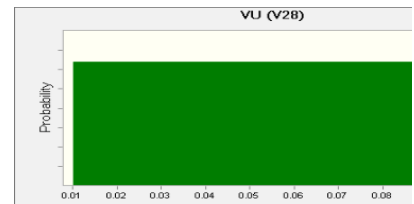
Minimum 0.01
Maximum 0.10



Assumption: VU (V28)

Uniform distribution with parameters:

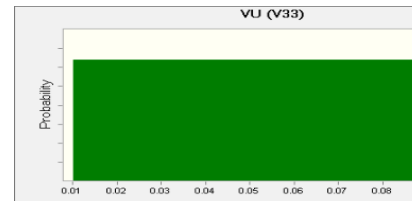
Minimum 0.01
Maximum 0.10



Assumption: VU (V33)

Uniform distribution with parameters:

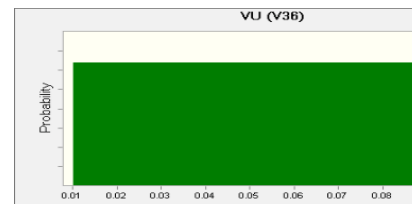
Minimum 0.01
Maximum 0.10



Assumption: VU (V36)

Uniform distribution with parameters:

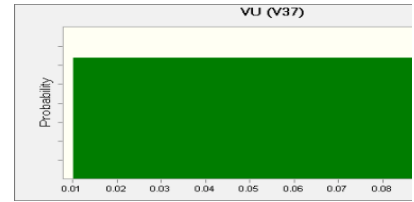
Minimum 0.01
Maximum 0.10



Assumption: VU (V37)

Uniform distribution with parameters:

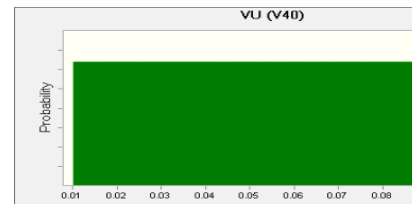
Minimum 0.01
Maximum 0.10



Assumption: VU (V40)

Uniform distribution with parameters:

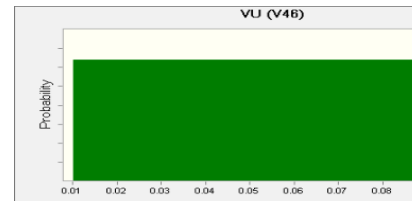
Minimum 0.01
Maximum 0.10



Assumption: VU (V46)

Uniform distribution with parameters:

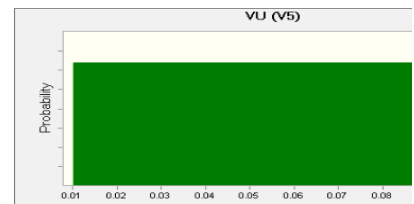
Minimum 0.01
Maximum 0.10



Assumption: VU (V5)

Uniform distribution with parameters:

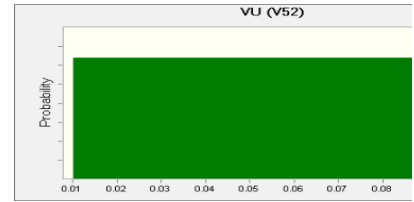
Minimum 0.01
Maximum 0.10



Assumption: VU (V52)

Uniform distribution with parameters:

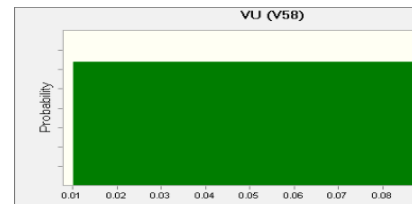
Minimum 0.01
Maximum 0.10



Assumption: VU (V58)

Uniform distribution with parameters:

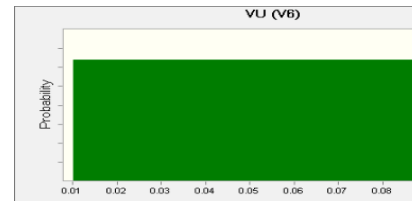
Minimum 0.01
Maximum 0.10



Assumption: VU (V6)

Uniform distribution with parameters:

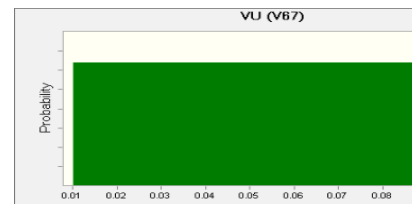
Minimum 0.01
Maximum 0.10



Assumption: VU (V67)

Uniform distribution with parameters:

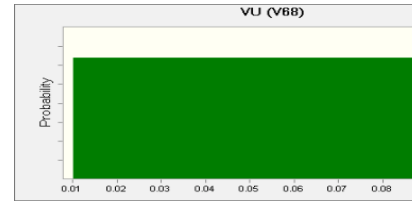
Minimum 0.01
Maximum 0.10



Assumption: VU (V68)

Uniform distribution with parameters:

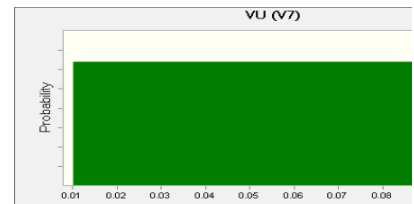
Minimum 0.01
Maximum 0.10



Assumption: VU (V7)

Uniform distribution with parameters:

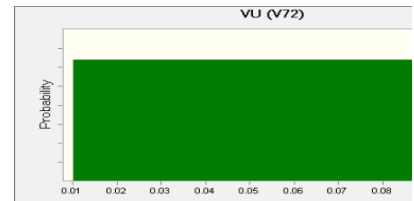
Minimum 0.01
Maximum 0.10



Assumption: VU (V72)

Uniform distribution with parameters:

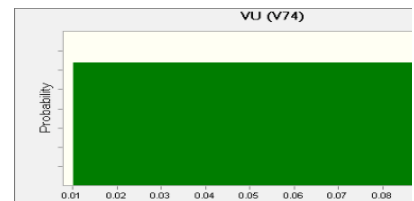
Minimum 0.01
Maximum 0.10



Assumption: VU (V74)

Uniform distribution with parameters:

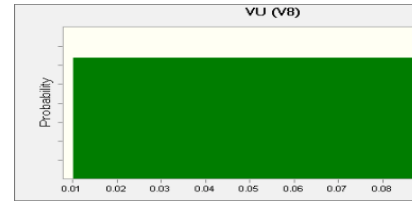
Minimum 0.01
Maximum 0.10



Assumption: VU (V8)

Uniform distribution with parameters:

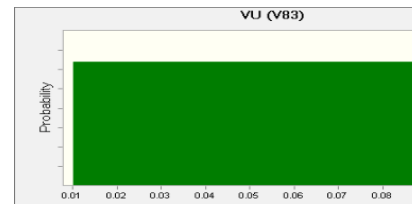
Minimum 0.01
Maximum 0.10



Assumption: VU (V83)

Uniform distribution with parameters:

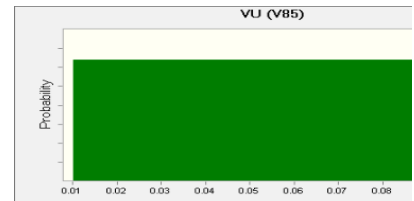
Minimum 0.01
Maximum 0.10



Assumption: VU (V85)

Uniform distribution with parameters:

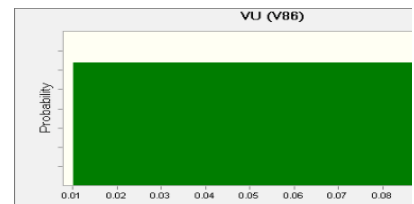
Minimum 0.01
Maximum 0.10



Assumption: VU (V86)

Uniform distribution with parameters:

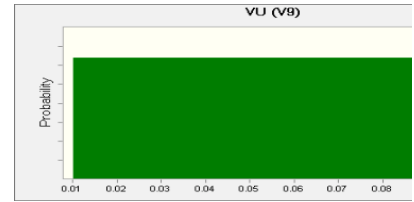
Minimum 0.01
Maximum 0.10



Assumption: VU (V9)

Uniform distribution with parameters:

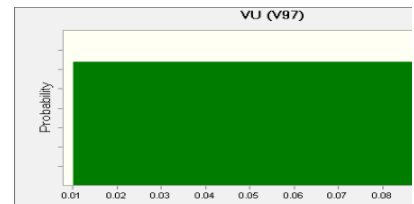
Minimum 0.01
Maximum 0.10



Assumption: VU (V97)

Uniform distribution with parameters:

Minimum 0.01
Maximum 0.10



Worksheet: [NCSX Risk-Contingency Model - draft BCP 3-24-08.xls]Schedule Ranges

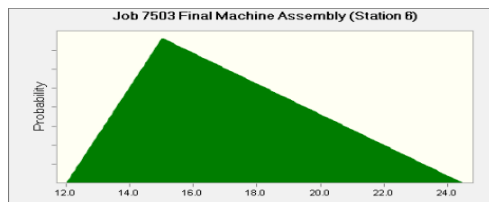
Assumption: Job 7503 Final Machine Assembly (Station 6)

Chris Gruber:

Correlated with corresponding estimate uncertainty at .9 coefficient

Triangular distribution with parameters:

Minimum 12.0 (=G11)
Likeliest 15.0 (=E11)
90% 21.0 (=H11)

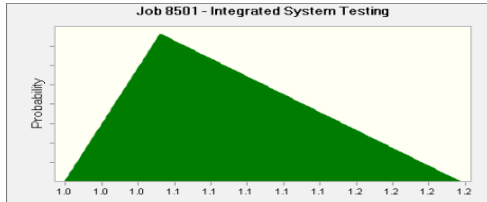


Assumption: Job 8501 - Integrated System Testing

Chris Gruber:
 Correlated with corresponding estimate uncertainty at .9 coefficient

Triangular distribution with parameters:

Minimum	1.0	(=G12)
Likeliest	1.1	(=E12)
90%	1.2	(=H12)

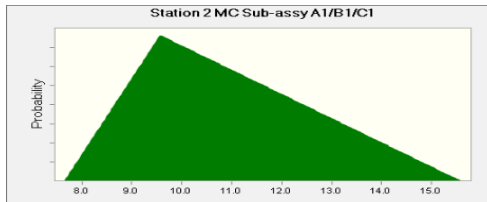


Assumption: Station 2 MC Sub-assy A1/B1/C1

Chris Gruber:
 Correlated with corresponding estimate uncertainty at .9 coefficient

Triangular distribution with parameters:

Minimum	7.7	(=G6)
Likeliest	9.6	(=E6)
90%	13.4	(=H6)



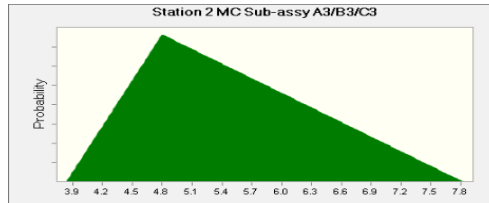
Assumption: Station 2 MC Sub-assy A3/B3/C3

Chris Gruber:
 Correlated with corresponding estimate uncertainty at .9 coefficient

Triangular distribution with parameters:

Minimum	3.8	(=G7)
Likeliest	4.8	(=E7)
90%	6.7	(=H7)

Assumption: Station 2 MC Sub-assy A3/B3/C3 (cont'd)

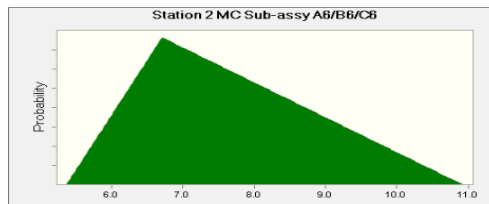


Assumption: Station 2 MC Sub-assy A6/B6/C6

Chris Gruber:
 Correlated with corresponding estimate uncertainty at .9 coefficient

Triangular distribution with parameters:

Minimum	5.4	(=G8)
Likeliest	6.7	(=E8)
90%	9.4	(=H8)

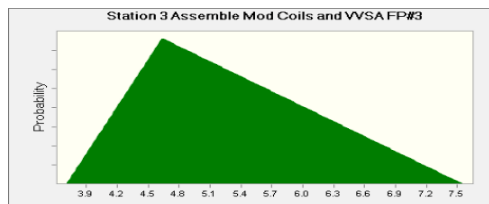


Assumption: Station 3 Assemble Mod Coils and VVSA FP#3

Chris Gruber:
 Correlated with corresponding estimate uncertainty at .9 coefficient

Triangular distribution with parameters:

Minimum	3.7	(=G9)
Likeliest	4.6	(=E9)
90%	6.5	(=H9)



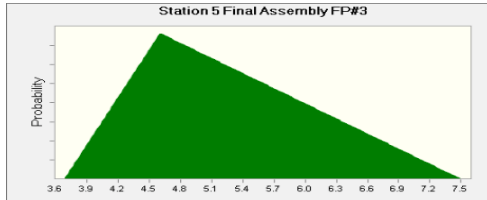
Assumption: Station 5 Final Assembly FP#3

Chris Gruber:

Correlated with corresponding estimate uncertainty at .9 coefficient

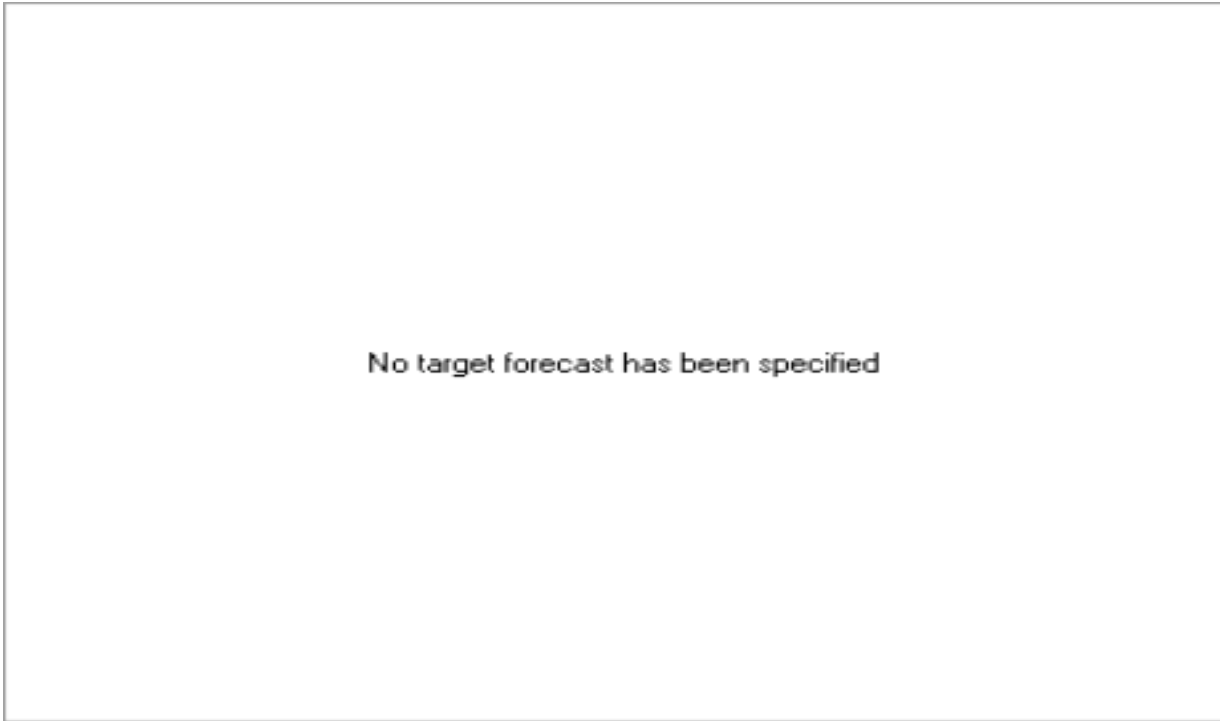
Triangular distribution with parameters:

Minimum	3.7	(=G10)
Likeliest	4.6	(=E10)
90%	6.4	(=H10)

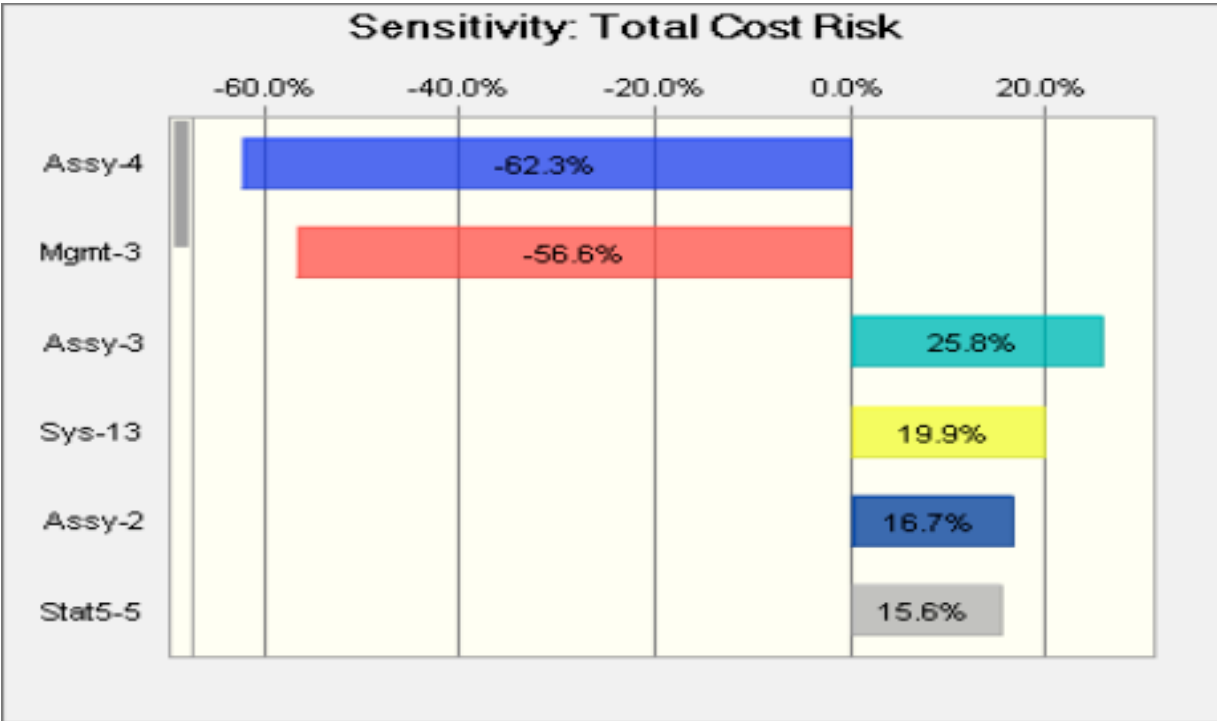


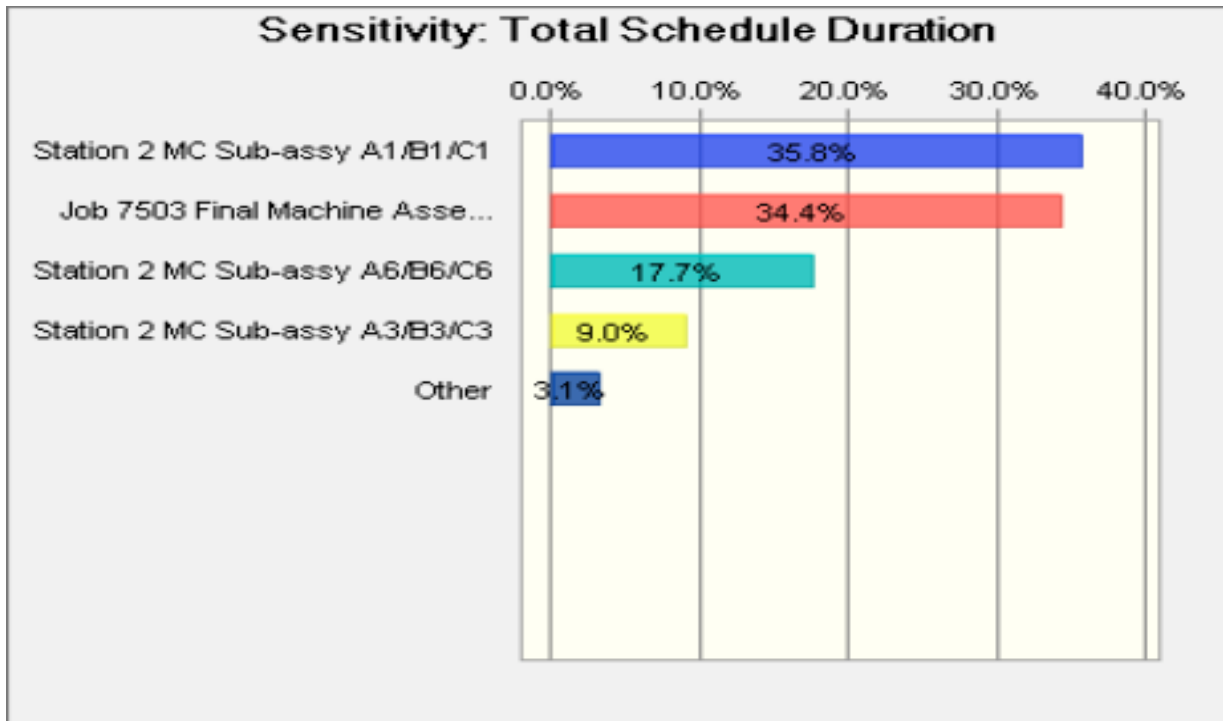
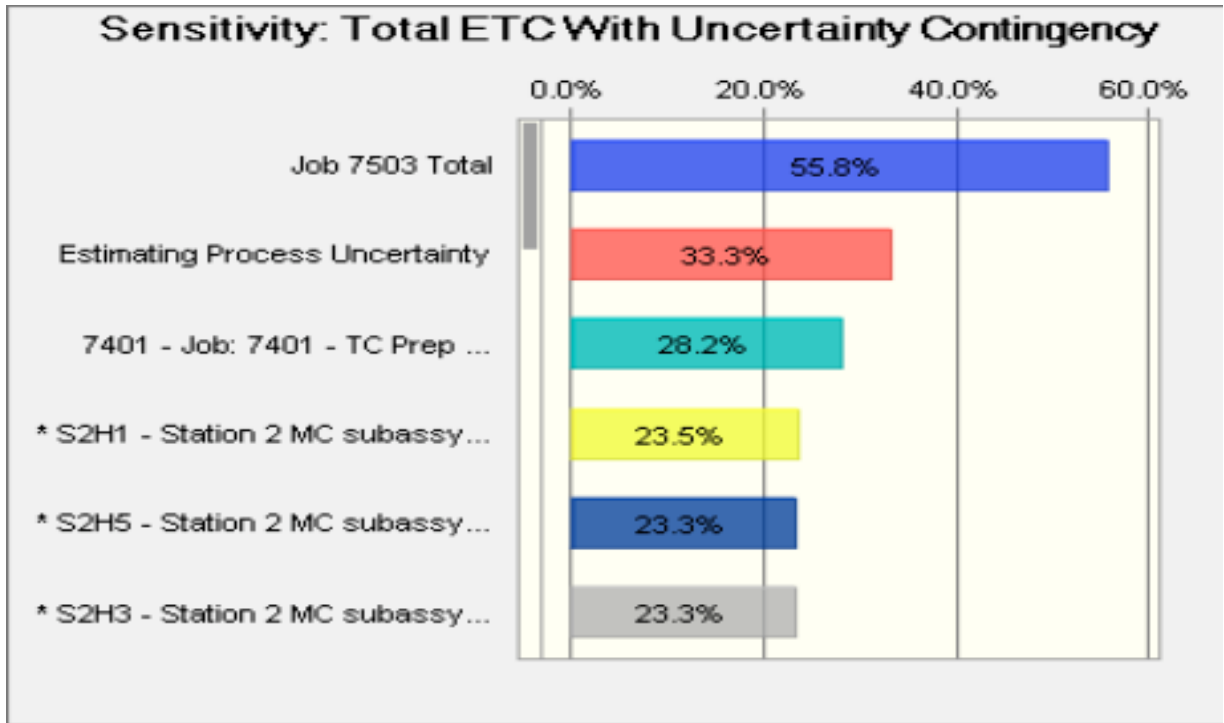
End of Assumptions

Sensitivity Charts



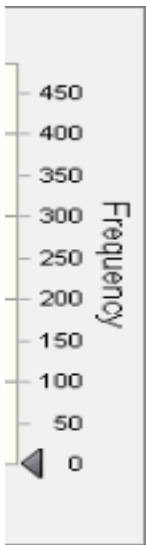
No target forecast has been specified





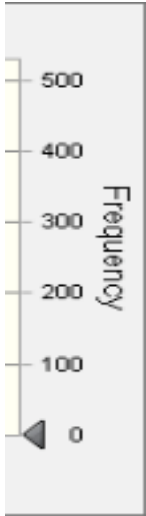
End of Sensitivity Charts

Cell: K178



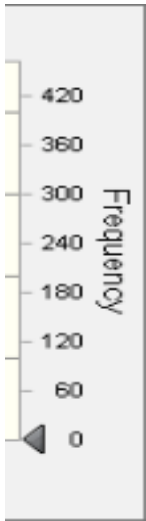
Cell: K178

Cell: AB3



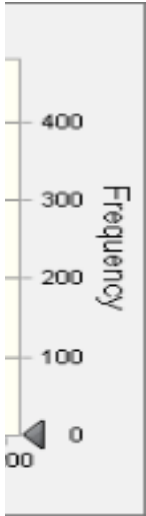
Cell: AB3

Cell: AB11



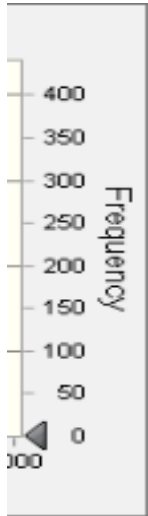
Cell: AB11

Cell: AB21



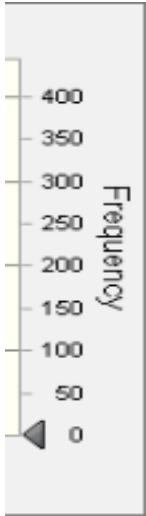
Cell: AB21

Cell: AB53



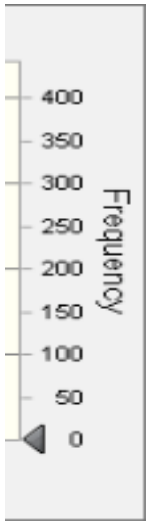
Cell: AB53

Cell: AB55



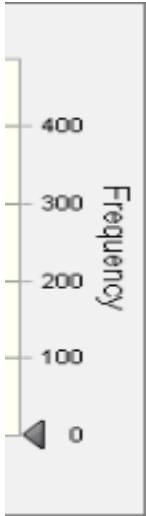
Cell: AB55

Cell: AB59



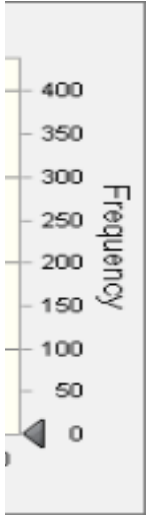
Cell: AB59

Cell: AB63



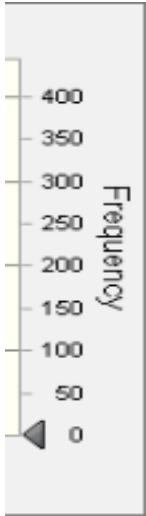
Cell: AB63

Cell: AB95



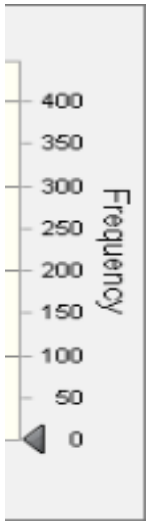
Cell: AB95

Cell: AB97



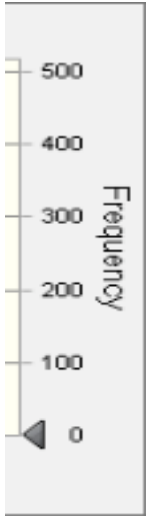
Cell: AB97

Cell: AB99



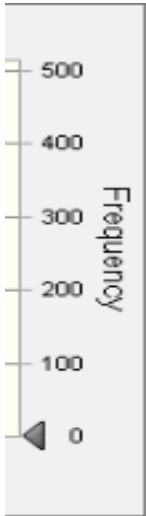
Cell: AB99

Cell: AB108



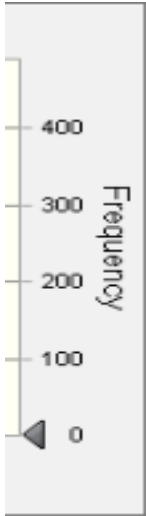
Cell: AB108

Cell: AB120



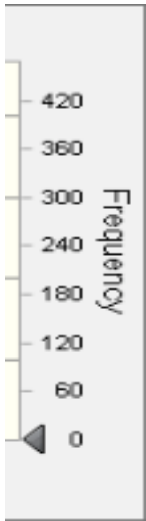
Cell: AB120

Cell: AB127



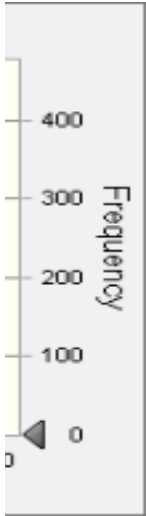
Cell: AB127

Cell: AB132



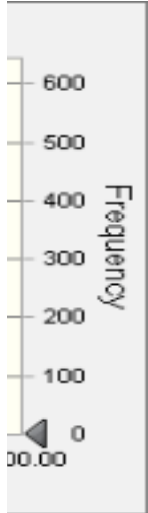
Cell: AB132

Cell: AB161



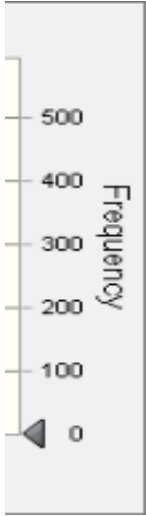
Cell: AB161

Cell: X104



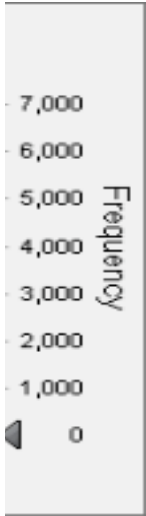
Cell: X104

Cell: Y104



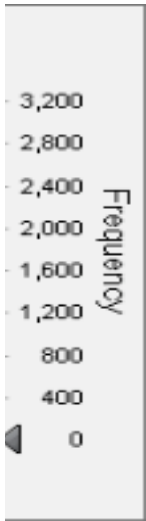
Cell: Y104

Cell: AA104



Cell: AA104

Cell: AB104



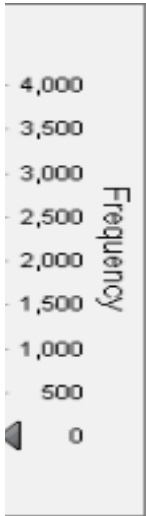
Cell: AB104

Cell: AC104



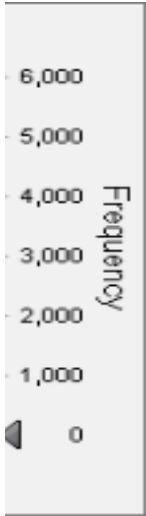
Cell: AC104

Cell: AD104



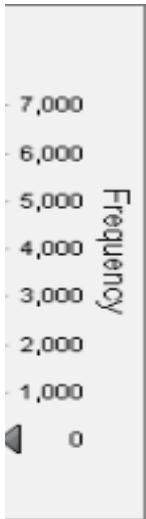
Cell: AD104

Cell: AE104



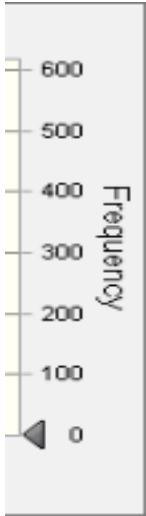
Cell: AE104

Cell: AF104



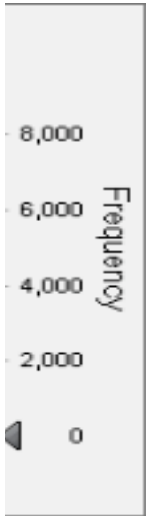
Cell: AF104

Cell: AG104



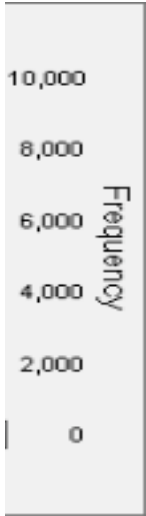
Cell: AG104

Cell: AH104



Cell: AH104

Cell: AI104



Cell: A1104

Cell: AJ104



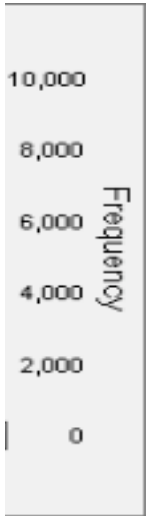
Cell: AJ104

Cell: AK104



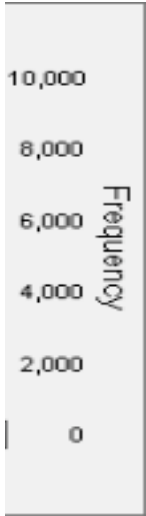
Cell: AK104

Cell: AL104



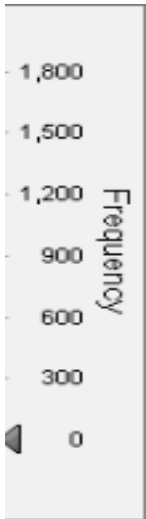
Cell: AL104

Cell: AM104



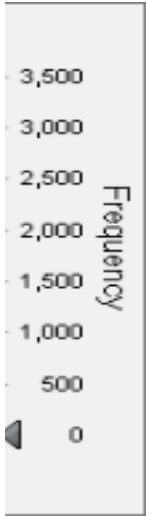
Cell: AM104

Cell: AN104



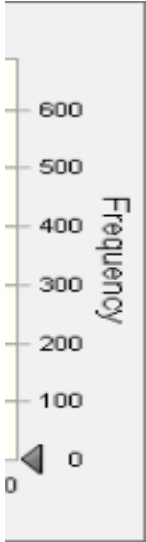
Cell: AN104

Cell: A0104



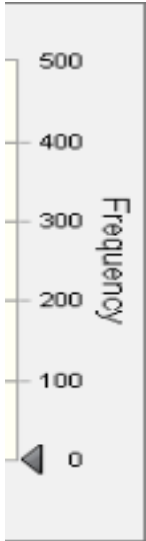
Cell: A0104

Cell: K14



Cell: K14

Cell: J14



Cell: J14

Cell: K68

Cell: K3

Cell: K99

Cell: K99

Cell: K100

Cell: K9

Cell: K10

Cell: K10

Cell: K18

Cell: K11

Cell: K13

Cell: K13

Cell: K14

Cell: K15

Cell: K16

Cell: K16

Cell: K19

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Cell: K161

Cell: K161

Cell: K163

Cell: K164

Cell: K165

Cell: K165

Cell: K166

Cell: K167

Cell: K172

Cell: K172

Cell: K37

Cell: K38

Cell: K176

Cell: K176

Cell: K32

Cell: K45

Cell: K51

Cell: K51

Cell: K74

Cell: K135

Cell: K26

Cell: K26

Cell: K27

Cell: K101

Cell: K102

Cell: K102

Cell: K103

Cell: K170

Cell: K39

Cell: K39

Cell: K73

Cell: K78

issumed

Cell: K79

issumed

Cell: K80

issumed

Cell: K81

issumed

Cell: K82

issumed

Cell: K83

issumed

Cell: K84

issumed

Cell: K86

Cell: K87

Cell: K88

issumed

Cell: K89

issumed

Cell: K90

issumed

Cell: K91

Cell: K92

issumed

Cell: K93

issumed

Cell: K93

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issumed

Cell: K40

Cell: K40

Cell: K41

Cell: K42

Cell: K43

Cell: K43

Cell: K171

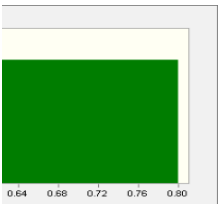
Cell: K28

Cell: K44

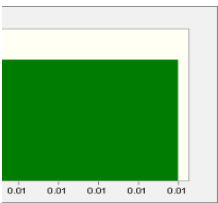
Cell: K44

Cell: K104

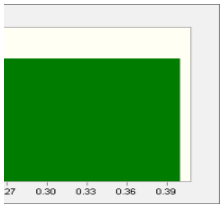
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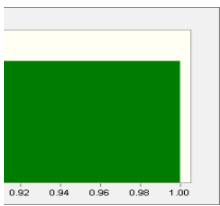
Cell: B24



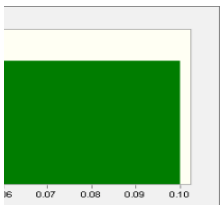
Cell: B26



Cell: B28



Cell: B25



Cell: W5

Cell: W16

Cell: W17

Cell: W18

Cell: W19

Cell: W19

Cell: W20

Cell: W21

Cell: W22

Cell: W6

Cell: W7

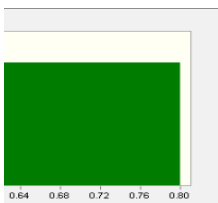
Cell: W8

Cell: W9

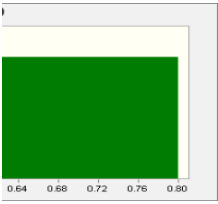
Cell: W9

Cell: W10

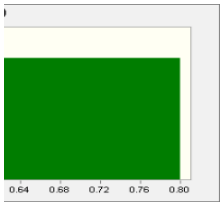
Cell: V31



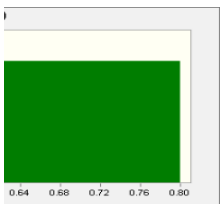
Cell: V19



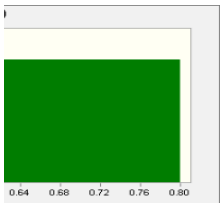
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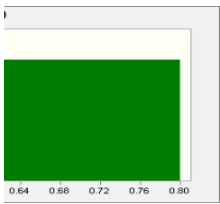
Cell: V35



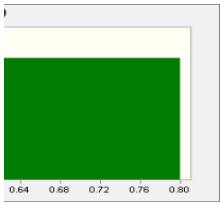
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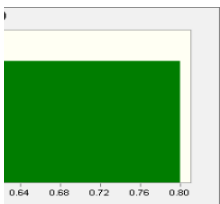
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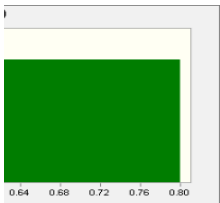
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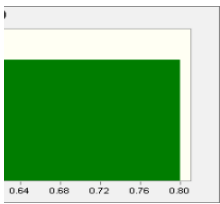
Cell: V78



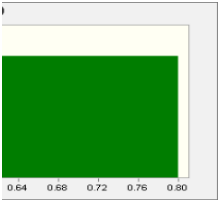
Cell: V79



Cell: V92



Cell: V95



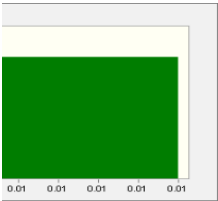
Cell: W11

Cell: W12

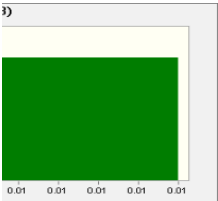
Cell: W13

Cell: W14

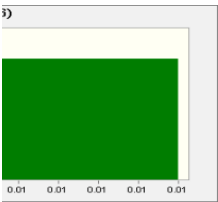
Cell: V54



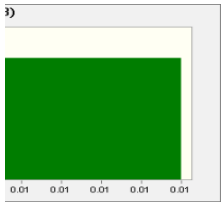
Cell: V13



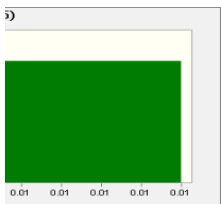
Cell: V26



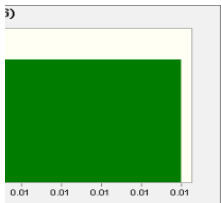
Cell: V53



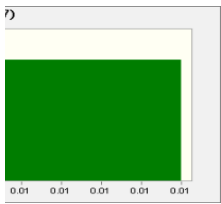
Cell: V55



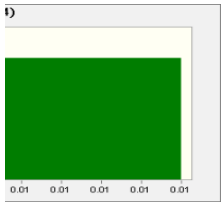
Cell: V56



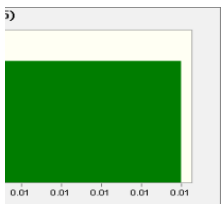
Cell: V57



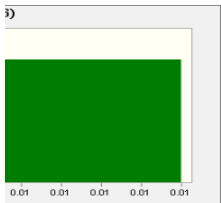
Cell: V64



Cell: V75



Cell: V76



Cell: W70

Cell: W79

Cell: W80

Cell: W83

Cell: W71

Cell: W71

Cell: W72

Cell: W74

Cell: W75

Cell: W76

Cell: W77

Cell: W78

Cell: W29

Cell: W29

Cell: W30

Cell: W31

Cell: W33

Cell: W24

Cell: W25

Cell: W26

Cell: W27

Cell: W27

Cell: W28

Cell: W35

Cell: W36

Cell: W37

Cell: W38

Cell: W39

Cell: W40

Cell: W40

Cell: W42

Cell: W43

Cell: W44

Cell: W45

Cell: W46

Cell: W47

Cell: W48

Cell: W48

Cell: W60

Cell: W61

Cell: W62

Cell: W63

Cell: W64

Cell: W65

Cell: W66

Cell: W66

Cell: W67

Cell: W68

Cell: W52

Cell: W53

Cell: W54

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Cell: W56

Cell: W56

Cell: W57

Cell: W58

Cell: W59

Cell: W91

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Cell: W95

Cell: W96

Cell: W85

Cell: W97

Cell: W98

Cell: W86

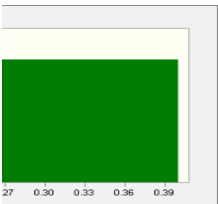
Cell: W87

Cell: W87

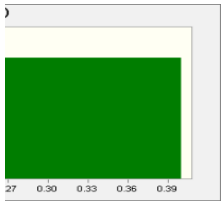
Cell: W89

Cell: W90

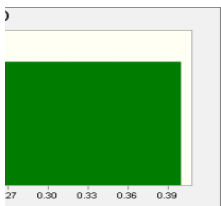
Cell: V21



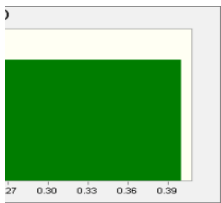
Cell: V12



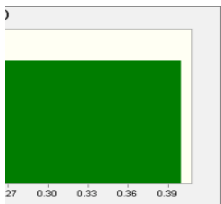
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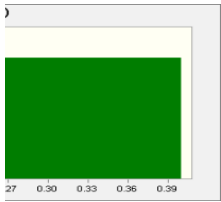
Cell: V22



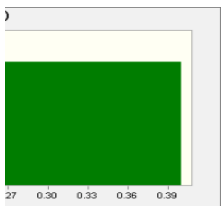
Cell: V24



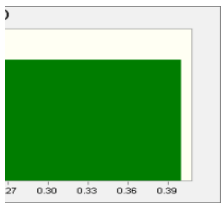
Cell: V27



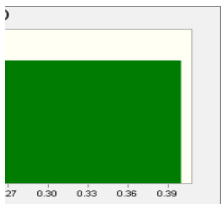
Cell: V29



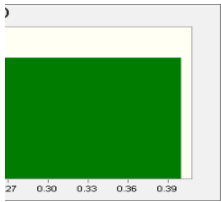
Cell: V30



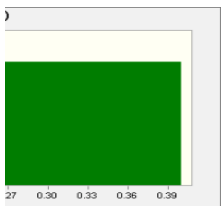
Cell: V38



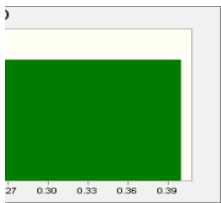
Cell: V39



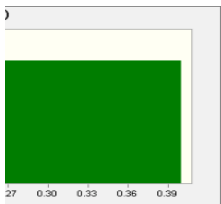
Cell: V42



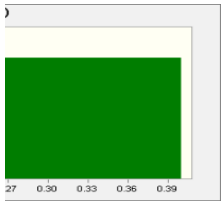
Cell: V43



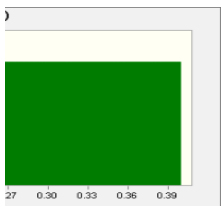
Cell: V44



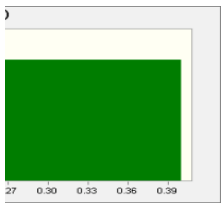
Cell: V48



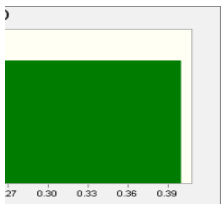
Cell: V60



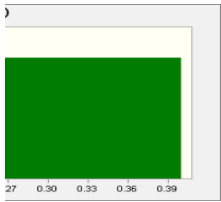
Cell: V61



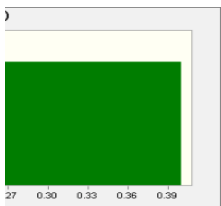
Cell: V62



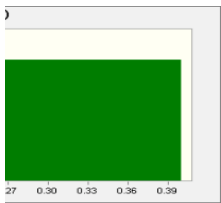
Cell: V63



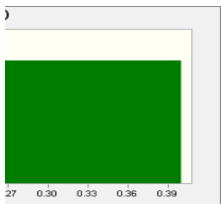
Cell: V65



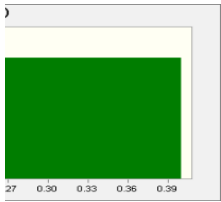
Cell: V66



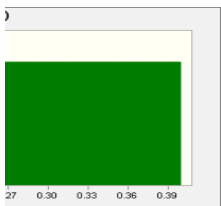
Cell: V70



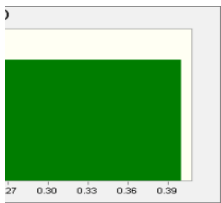
Cell: V71



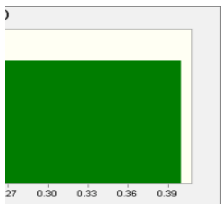
Cell: V80



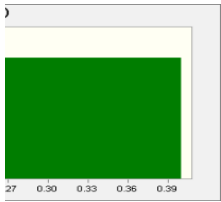
Cell: V87



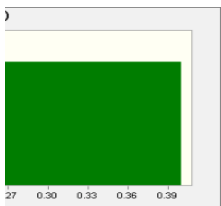
Cell: V89



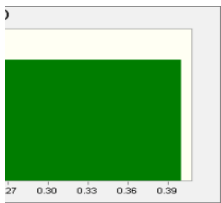
Cell: V90



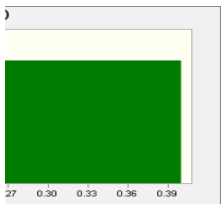
Cell: V91



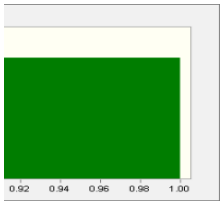
Cell: V96



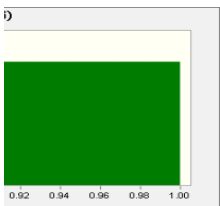
Cell: V98



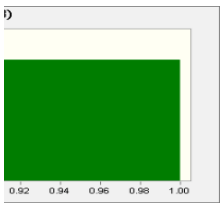
Cell: V17



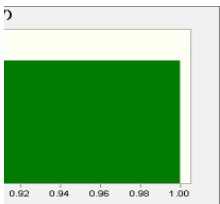
Cell: V16



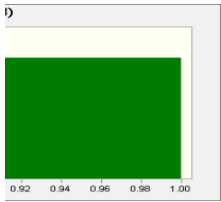
Cell: V18



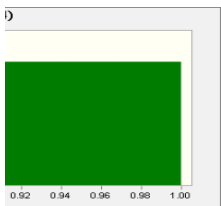
Cell: V77



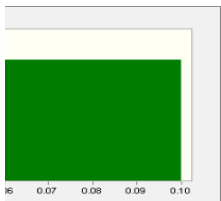
Cell: V93



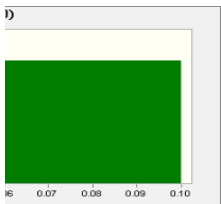
Cell: V94



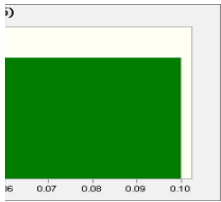
Cell: V11



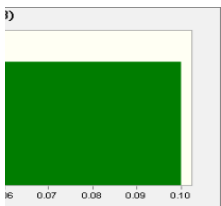
Cell: V10



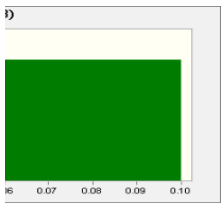
Cell: V25



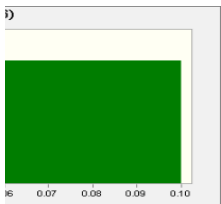
Cell: V28



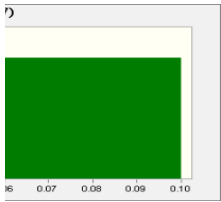
Cell: V33



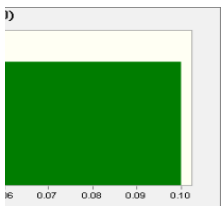
Cell: V36



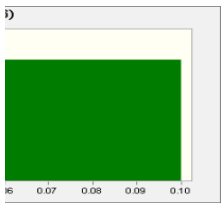
Cell: V37



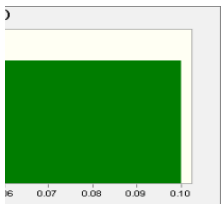
Cell: V40



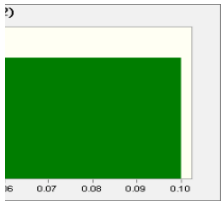
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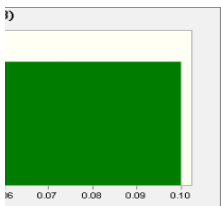
Cell: V5



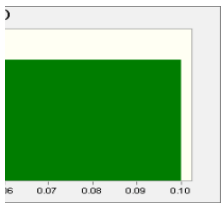
Cell: V52



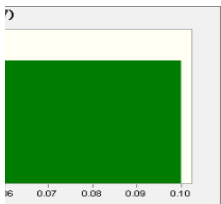
Cell: V58



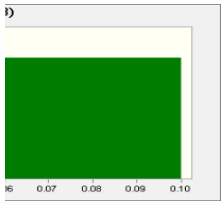
Cell: V6



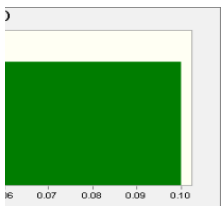
Cell: V67



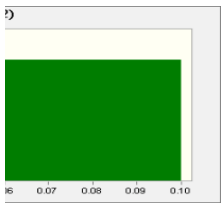
Cell: V68



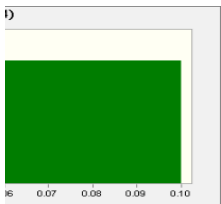
Cell: V7



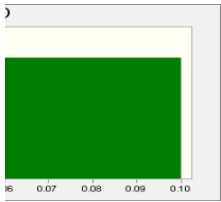
Cell: V72



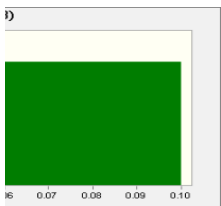
Cell: V74



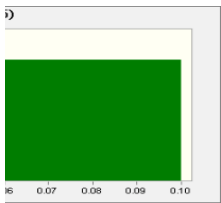
Cell: V8



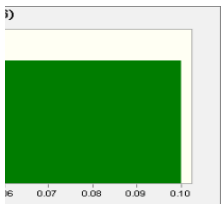
Cell: V83



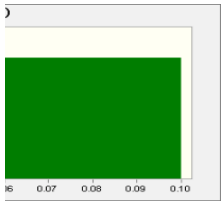
Cell: V85



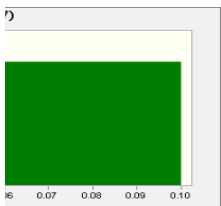
Cell: V86



Cell: V9



Cell: V97



Cell: I11

Cell: I12

Cell: I6

Cell: I7

Cell: I7

Cell: I8

Cell: I9

Cell: I10





