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This copy of the Validation Protocol / Report

ZTC-5, for version 2 of ZTC's

"Count Data SPC.xls"

was prepared and performed for use only** by and at

by

**When you purchase a copy of
COUNT DATA SPC, you will be
sent, free of charge, signed copies
of the most current revision of the
validation protocol and of the
completely executed validation
report.**

VALIDATION PROTOCOL #ZTC-5

for version 2 of ZTC's

"COUNT DATA SPC.xls"

*For the name and signature of the author of this Protocol,
see the cover-page of this combined Protocol + Report PDF file.*

1.0 OBJECTIVE

This document outlines a validation protocol for version 2 of the file named by Zurich Technical Consulting & Publishing (ZTC) as "COUNT DATA SPC.xls". Version 2 is a modification of Version 1, which has been in commercial use at a few companies for the past 3 years. The differences between Version 2 and 1 are mostly in format and appearance. Some changes to calculation features have been implemented, thus triggering the need for re-validation.

Individual, character, and Pareto charts are now available. A new feature allows the user to choose individual, character, or Pareto charts. A new error message is displayed when an invalid input is entered.

2.0 SUMMARY

When you purchase a copy of COUNT DATA SPC, you will be sent, free of charge, signed copies of the most current revision of the validation protocol and of the completely executed validation report.

The program is a Microsoft Excel add-in. It contains several charts and reports. The only cells affected are those used for calculations. The user can choose from various options (e.g., control charts appear).

The outputs of this program are:

- A control chart that functions as either a P-chart (for sample proportion defective) or a U-chart (for number of defects per unit in a sample); and an mR

control chart (for the moving range between either sequential sample proportions or sequential sample defects-per-unit). The control charts are simple line-charts created using MSEExcel's charting capabilities; the only aspect that requires special calculation by the ZTC program is the placement of the UCL, LCL, and Midline on each chart. The UCL, LCL, and Midline can be calculated automatically or set manually.

- Placing of "red circles" around all data points on a control chart that are beyond the control limits, or are a member of a 9-point run or series.
- Pareto chart of the defects found, organized by user-defined defect code.

3.0 POLICY

Custom statistical software must be formally validated for its intended use. The purpose of "COUNT DATA SPC.xls" is to provide statistical process control for manufacturing situations where a control chart and pareto chart of attribute defects are desired.

By using the word "validation" in this protocol, it is not meant to imply that CDS's program "code" is being validated. CDS is a relatively simple "application" based upon a commercial program, MS Excel, which has been sold by Microsoft Corporation for more than a dozen years. By saying that CDS is to be "validated" is to say that its functions and features will be critically and systematically evaluated if they meet their pre-determined design requirements. CDS contains no "macros" or other ActiveX controls, equations, or other code.

4.0

REF

When you purchase a copy of COUNT DATA SPC, you will be sent, free of charge, signed copies of the most current revision of the validation protocol and of the completely executed validation report.

Juran
Hill Inc.

5.0

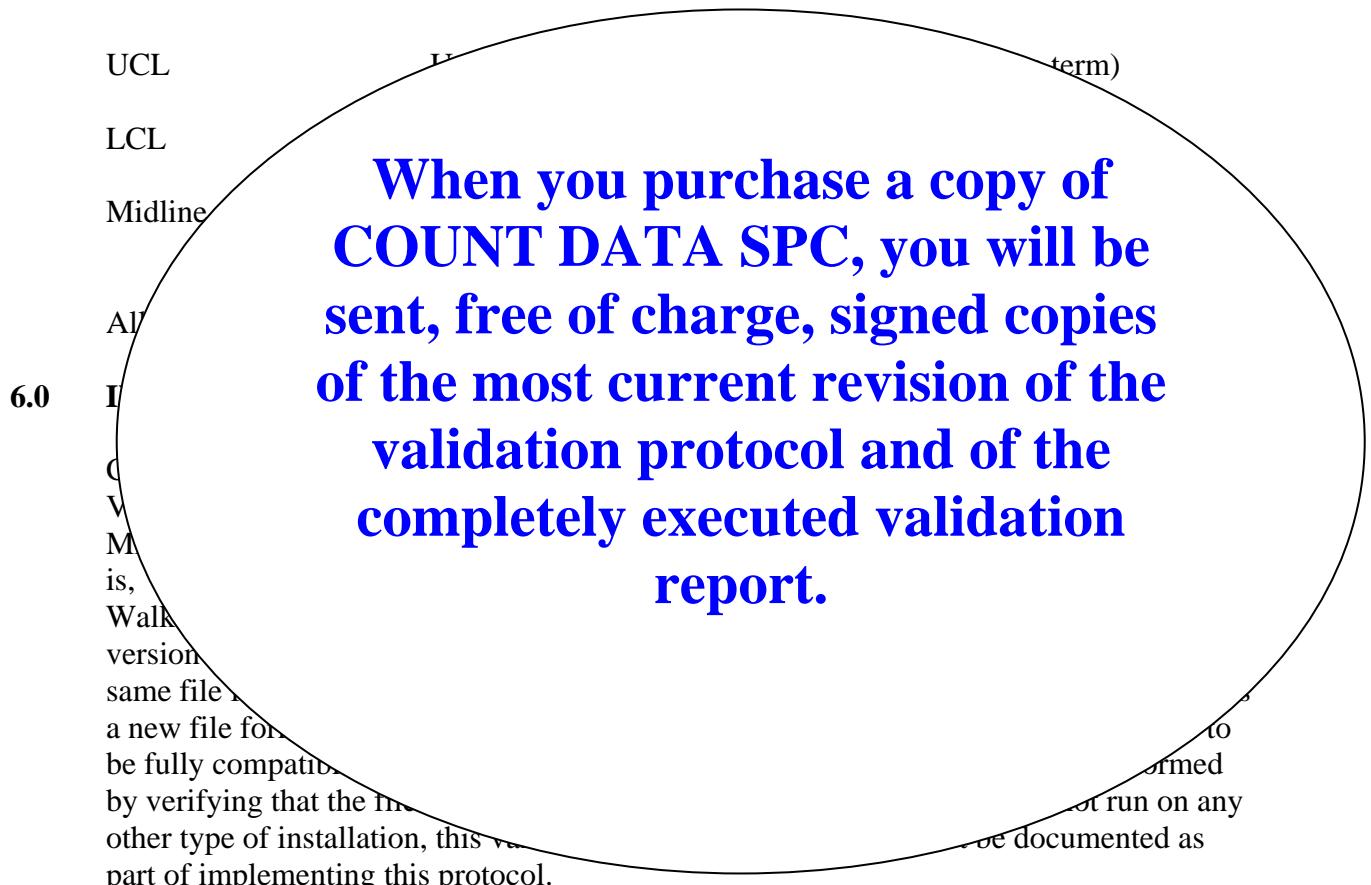
DEFINITIONS

CDS

The MSEExcel macro developed by ZTC as "COUNT DATA SPC.xls"

SPC

Statistical Process Control (in the standard sense of the term)



7.0 DESIGN VALIDATION

CDS is designed based upon standard textbook methods for SPC and Pareto charts. Design validation is achieved by ensuring that:

- a) no calculation cells (equation-containing cells) are user modifiable.
- b) SPC and pareto chart equations on the (hidden) calculations worksheet match those in published statistical textbooks referenced above.

8.0 PERFORMANCE VALIDATION

Performance validation is to be accomplished by verifying that:

- a) SPC charts in CDS output the "same" P-values for UCL, LCL, and Midline as does the textbook from which the data is derived (by "same" here is meant identical +/- 0.001, which is the last significant digit in the textbook values, and that those results remain the "same" no matter where in the CDS "DATA ENTRY" worksheet the data is located), as long as either (1) the relevant data are "marked" to be "include[d]" for "SPC control limits" on the NOTES&INCLUSIONS worksheet, or (2) the "all data" feature is turned on (which is done by not "mark"-ing any data to be "include[d]").

- b) SPC charts in CDS output the "same" U-values for UCL, LCL, and Midline as does the textbook from which the data is derived (by "same" here is meant identical +/- 0.01, which is the last significant digit in the textbook values, and that those results remain the "same" no matter where in the CDS "DATA ENTRY" worksheet the data is located), as long as either (1) the relevant data are "marked" to be "include[d]" for "SPC control limits" on the NOTES&INCLUSIONS worksheet, or (2) the "all data" feature is turned on (which is done by not "mark"-ing any data to be "include[d]").
- c) SPC charts in CDS output the "same" mR-values for UCL, LCL, and Midline as does the textbook from which the data is derived (by "same" here is meant identical +/- 0.0001, which is the last significant digit in the textbook values, and that those results remain the "same" no matter where in the CDS "DATA ENTRY" worksheet the data is located, and "remain the same" whether a U or a P chart has been chosen on the OPTIONS worksheet), as long as either (1) the relevant data are "marked" to be "include[d]" for "SPC control limits" on the NOTES&INCLUSIONS worksheet, or (2) the "all data" feature is turned on (which is done by not "mark"-ing any data to be "include[d]")..
- d) SPC charts in CDS put "red circles" around data points, runs, and series that are specified on the CDS "OPTIONS" worksheet.
- e) Pareto chart is created automatically by CDS that identifies and graphs the exact same top 6 defect codes and their exact numerical values as identified manually (manually = to use Excel to count the MSEExcel "sum" function, and to then sort the relevant data in descending order). long as either (1) the relevant data are "marked" to be "include[d]" for "SPC control limits" on the NOTES&INCLUSIONS worksheet, or (2) the "all data" feature is turned on (which is done by not "mark"-ing any data to be "include[d]").

f) When you purchase a copy of

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VALIDATION REPORT for Protocol # ZTC-5

For version 2 of ZTC's

"COUNT DATA SPC.xls"

*For the name and signature of the author of this Report,
see the cover-page of this combined Protocol + Report PDF file.*

1.0 INSTALLATION VALIDATION

Self-evident -- see protocol for discussion.

2.0 DESIGN VALIDATION

The only user-modifiable cells are those in the "Doc#etc", "DataEntry", and "Validation" worksheets, for user input, on the "Data" and "Validation" sheets.

All of the validation formulas were checked and found to be correct.

3.0 EXECUTION VALIDATION

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In all cases the values obtained were "the same" as the textbook values. See Attachment 2.

- c) Sample data from an $n = 1$ XmR chart, and its mR-charting values for LCL, Midline, and UCL were obtained from a textbook referenced in the Protocol (Wheeler & Chambers, pp. 49ff). The counts in the textbook were converted into rows of the numeral 1 (for example, a count of 39 was converted into a row of 39 number 1's). The sample size was entered as 100 in order to challenge the CDS program (a sample size of 1 would not test the ability of the program to calculate an average), and the control limit values in the text book were therefore correspondingly divided by 100. This modified data was positioned at several locations in the CDS "DATA ENTRY" worksheet; in all cases the values obtained by CDS were the "same" as the textbook values. See Attachment 3.
- d) Starting with the data and locations mentioned above, additional data-points were added to test all 6 conditions under which red-circles are supposed to be red-circled, or not red-circled. In all cases, points outside the control limits were red-circled, as were runs or series of nine points or more, but runs or series of eight points or less were not red circled. The testing was done using both the "automatic" and "manual" setting of control limits.

- e) Into each of the 20,000 cells of the DATA ENTRY table, MSExcel was used to generate random whole numbers between 1 and 100 using the equation/function =round(rand()*100,0); after creation the numbers were converted into stable values by copying the column and pasting it into the original column. The column was assigned a new name (e.g., "X"). The new column was then copied and pasted into the original column. The process was repeated until the values were stable. The resulting data was then used to test the CDS program.

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4.0

Attachment 1:

Attachment 2:

Attachment 3:

Attachment 4:

Attachment 5:

Attachment 6:

Attachment 7:

Sum

Summary

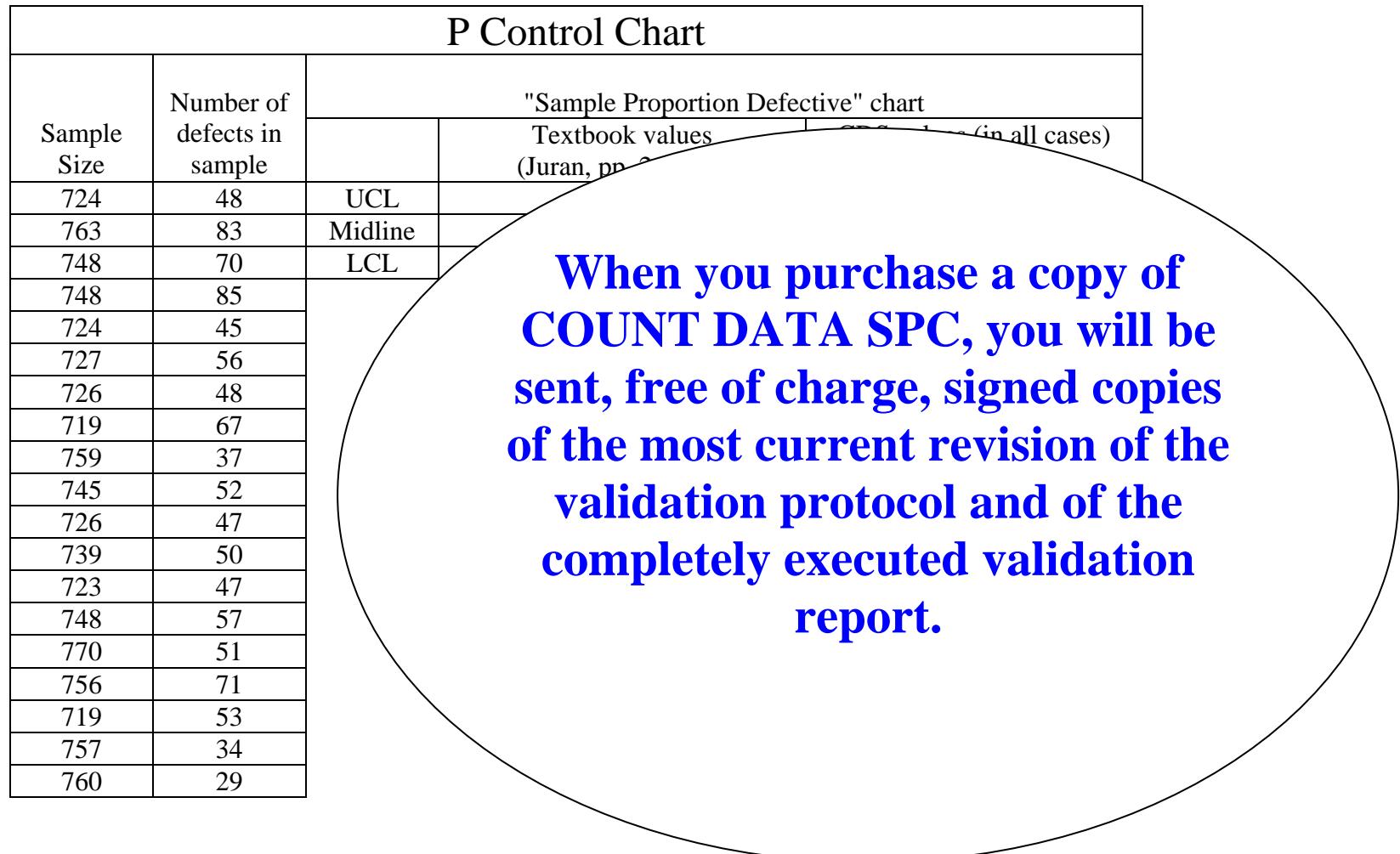
Summary of "max"

Summary of output values

Summary of data-entry error vs. resulting default conditions

Data used for Pareto Chart testing

ATTACHMENT 1



ATTACHMENT 2

U Control Chart				
Sample Size (# of "units")	Number of defects in sample	'Number of Defects per Sample Unit' chart		
		UCL	Textbook values (Juran, pp. 24.24ff)	CDS values (in all cases)
10	17	UCL	2.66	2.66190
10	14	Midline	1.50	1.50000
10	6	LCL	0.24	
10	23			
10	5			
10	7			
10	10			
10	19			
10	29			
10	18			
10	25			
10	5			
10	8			
10	11			
10	18			
10	13			
10	22			
10	6			
10	23			
10	22			
10	9			
10	15			
10	20			
10	6			
10	24			

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ATTACHMENT 3

mR Control Chart			
# of Defects	"Moving Range" chart		
		Textbook values (Wheeler & Chambers, pp. 49ff)	CDS values (in all cases)
39	UCL	0.0565	0.05644
41	Midline	0.0173	0.01727
41	LCL	0.0000	0.00000
41			
43			
44			
41			
42			
40			
41			
44			
40			

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ATTACHMENT 4

Pareto Chart		
Defect Codes with the 6 highest counts	Number of defects tallied "manually" by Excel	Number of defects tallied automatically by CDS
(Using only data from Sample AutoID# 1)		
Mar-08	99	99
Jul-05	95	95
Feb-09	95	95
Sep-08	94	94
Mar-09	94	94
Apr-04	93	93
(Using only data from Sample AutoID#s 11 thru 20)		
Jan-06	671	671
Mar-11	652	652
Jan-05	638	638
Jun-04	635	635
Apr-09	633	633
Dec-06	631	631
(Using only data from Sample AutoID#s 51 thru 100)		
Jun-08	28	2946
Mar-12		
Jun-05		
Jul-10		
A		
De		
Jan-12		

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ATTACHMENT 5

INPUT ON OPTIONS PAGE	OUTPUT ON SPC CHART
(for the P / U chart)	
UCL = 0.1000	UCL = 0.1000
UCL = 10.00	UCL = 10.00
UCL = 100.0	UCL = 100.0
MIDLINe = 0.0500	MIDLINe = 0.0500
MIDLINe = 5.000	MIDLINe = 5.000
MIDLINe = 50.00	MIDLINe = 50.00
LCL = 0.0100	LCL = 0.0100
LCL = 1.000	LCL = 1.000
LCL = 10.00	LCL = 10.00
(for the Moving Range chart)	
UCL = 0.1000	UCL = 0.1000
UCL = 10.00	UCL = 10.00
UCL = 100.0	UCL = 100.0
MIDLINe = 0.0500	MIDLINe = 0.0500
MIDLINe = 5.000	MIDLINe = 5.000
MIDLINe = 50.00	MIDLINe = 50.00
LCL = 0.0100	LCL = 0.0100
LCL = 1.000	LCL = 1.000
LCL = 10.00	LCL = 10.00

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ATTACHMENT 6

DATA ENTRY ERROR	EXPECTED	OBSERVED
All 200 samples were marked as "Include[d]" for SPC calculations (on the "NOTES...." worksheet). Sample size and Defect Quantities were then entered into all 200 rows of the DATA ENTRY table, except no sample size entered for AutoID#s 10, 20, 30, ... 200.	SPC calculations are to ignore the data for the samples with AutoID#s 10, 20, 30,...200.	The SPC chart shows orange-colored squares around the symbols for all 200 samples, except those for AutoID#'s 10, 20, 30,200 (orange squares indicate which lots are used for SPC calculations).
Sample size and Defect Quantities were entered into all 200 rows of the DATA ENTRY table. On the "NOTES...." worksheet, AutoID#s 1, 2, 3 were the only ones marked to be "Include[d]" for SPC calculations. Then only 100, 101, 103 were marked. Then only 198, 199, & 200 were marked.	SPC calcs are to use only the marked samples (compare test shown on next line)	The SPC chart shows orange-colored squares around the symbols for the 3 marked samples, only.
Sample size and Defect Quantities were entered into all 200 rows of the DATA ENTRY table. On the "NOTES...." worksheet, AutoID#s 1 and 2 were the only ones marked to be "Include[d]" for SPC calculations. Then only 100, 101, 103 were marked. Then only 198, 199, & 200 were marked.	SPC calcs are to use all 200 lots for SPC calculations (com...)	The SPC chart shows orange-colored squares around the markers for samples.
Sample size (= 10) and Defect Quantities were entered into all 200 rows of the DATA ENTRY table (defect quantity = 1000 to 1000). SPC charting was done on the "NOTES...." worksheet. Finally, one lot was chosen as the "Set" for SPC calculations.		
Using the previous section, "Set" was chosen as the "Set" for SPC calculations. The table in that section was populated with numbers, and then one or the last few numbers was deleted.		

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ID#	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Jan-05	Feb-05	Mar-05	Apr-05
1	72	74	14	93	74	26	24	37	44	29	39	8	52	46	43	3
2	16	46	43	72	8	80	29	64	85	62	23	76	74	64	89	1
3	16	64	55	29	37	69	61	66	61	61	91	64	69	55	28	22
4	11	18	36	50	54	97	9				28	84	47	13	57	21
5	84	24	95	9	22							73	42	2	41	
6	7	27	43	18								91	30	73		
7	16	2	99	10								20	78	44		
8	42	84	2										42	75		
9	64	13	25											64	91	
10	89	93												1		
11	7	37												76		
12	1	48												31		
13	65	8														
14	46															
15	48															
16	50															
17	66															
18	34															
19	98															
20	29															
21	64															
22	46															
23	7	6														
24	75	61												2		
25	64	94												47		
26	27	86													83	
27	50	3	1											55	80	
28	60	59	69											13	92	
29	25	13	37	6										16	28	10
30	18	64	65	33										44	9	18
31	98	54	26	4	25									65	80	90
32	76	23	14	86	40	99	71									
33	82	90	78	55	99	32	21	47	79	85	78	36	68	7	66	36
34	49	3	8	96	21	91	77	79	18	13	81	52	36	11	34	66
35	30	56	33	71	5	51	96	19	50	34	2	9	46	99	43	14
36	5	92	28	17	64	61	1	16	63	41	32	49	91	49	40	13
37	1	49	49	43	96	16	59	42	28	69	62	72	5	38	1	11
38	60	97	66	22	40	58	32	49	94	36	44	36	71	17	19	18
39	58	66	67	78	61	30	53	18	15	62	89	28	66	4	54	40
40	80	65	69	41	81	74	19	31	13	18	10	67	45	4	42	28
41	75	43	75	61	12	96	33	83	3	7	56	43	87	72	7	97
42	14	12	72	42	75	87	18	37	49	26	32	4	35	86	69	87
43	49	37	60	2	29	82	14	99	92	66	34	13	69	68	99	59
44	53	96	41	86	56	60	39	97	96	11	45	3	88	96	14	13
45	81	99	20	34	27	99	79	73	64	1	3	85	82	63	76	47

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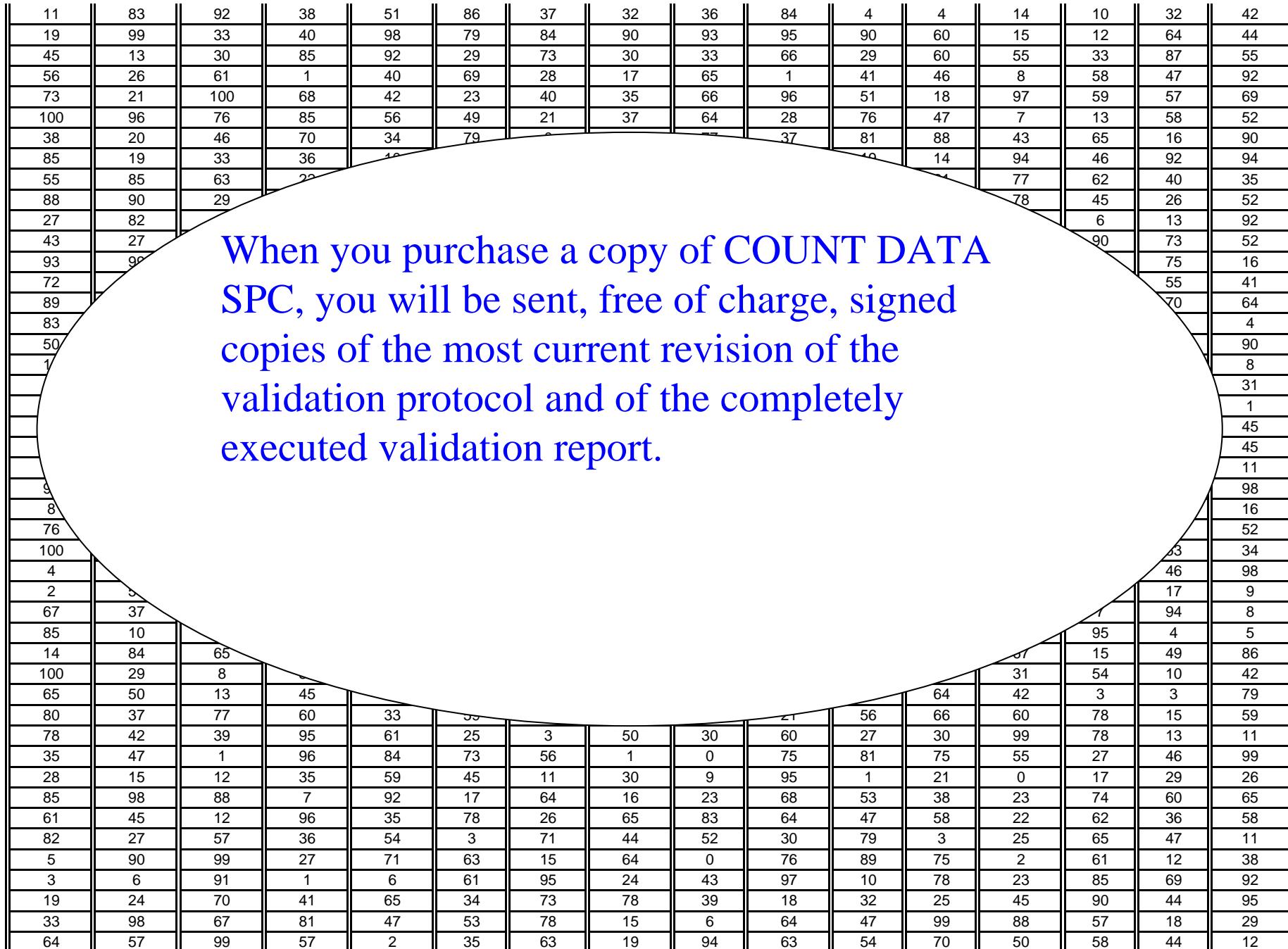
46	19	46	78	47	89	0	75	78	32	82	39	7	8	54	30	59
47	49	49	24	23	99	47	46	22	23	81	45	88	53	68	38	57
48	54	42	90	37	89	96	30	82	55	16	48	78	4	71	93	8
49	62	25	72	40	58	17	57	85	20	70	36	13	11	65	12	56
50	84	63	15	84	2	6	80	62	4	89	3	62	72	22	89	54
51	90	65	89	66	75	75	20	47	78	26	28	20	14	13	41	52
52	27	46	66	74	33	46	96	27	41	33	81	50	11	12	85	31
53	2	28	34	85	40	48	51	42	36	14	98	65	68	94	1	48
54	12	22	19	87	76	75	76	10	1	48	96	45	53	63	94	33
55	74	46	72	55	41	43	21	79	41	25	52	55	54	55	64	39
56	66	95	76	24	52	44	2	3	60	7	95	68	16	13	1	15
57	6	67	19	67	81	85	22	90	20	79	37	35	41	47	12	70
58	95	85	1	41	51	17	60	26	50	96	46	99	52	92	25	46
59	35	19	47	17	91	87	71	74	79	94	16	35	30	84	2	81
60	10	98	68	95	13	54	97	45	50	8	75	23	82	18	40	47
61	71	85	79	17	84	66	54	51	66	20	89	50	1	28	30	94
62	68	78	49	91	48	19	75	49	48	10	26	63	39	86	27	41
63	73	84	5	23	41	45	10	93	80	61	34	89	45	36	98	25
64	57	6	16	15	88	16	13	93	25	78	42	1	14	11	8	98
65	72	60	56	53	60	4	21	62	60	48	87	14	83	18	36	8
66	16	63	75	57	81	37	4	68	9	58	40	68	33	2	61	24
67	74	17	59	6	30	90	57	81	73	14	11	53	39	50	76	66
68	28	41	25	48	15	18	20	35	43	45	74	91	17	19	31	16
69	41	55	59	63	86	46	47	70	19	73	10	73	41	75	14	85
70	77	76	27	94	10	3	10	70	78	53	10	46	42	83	19	58
71	60	74	59	78	19	5	94	51	6	56	73	34	16	30	25	64
72	10	53	60	46	29	29	77	29	28	16	27	23	28	14	18	57
73	72	63	11	28	98	11	2	69	51	49	30	38	19	89	5	94
74	4	30	10	55	68	36	44	6	54	13	0	44	22	100	39	35
75	15	19	8	76	99	82	60	22	27	16	34	82	93	47	20	84
76	63	85	11	59	46	43	12	78	52	60	26	79	19	15	64	21
77	91	73	30	12	28	80	89	76	26	40	43	4	40	67	82	0
78	47	30	57	48	95	100	55	55	83	84	36	31	58	6	27	47
79	85	90	49	74	61	71	18	61	30	64	9	44	19	14	45	72
80	19	16	55	4	58	61	22	46	97	64	91	50	15	20	98	24
81	81	89	31	48	46	67	39	27	88	70	41	73	65	42	55	99
82	77	42	24	45	81	25	86	54	92	16	0	88	23	95	74	99
83	2	82	45	67	46	82	62	84	99	77	29	73	77	24	61	26
84	81	90	73	18	56	22	5	26	53	97	71	57	59	6	49	13
85	14	47	41	22	87	89	31	48	74	22	59	78	38	2	54	58
86	29	40	36	94	7	83	10	36	35	14	92	81	62	43	65	98
87	92	12	21	26	44	34	17	16	38	9	18	23	4	31	58	43
88	20	13	56	67	20	7	28	25	56	53	99	2	18	36	44	12
89	79	18	72	62	24	27	53	46	63	53	96	59	77	51	59	46
90	80	55	49	87	25	17	23	70	79	65	39	16	26	17	5	33
91	39	30	95	75	1	4	25	45	34	83	61	11	35	49	87	20

92	7	6	19	16	62	6	63	10	35	95	79	36	12	51	100	86
93	4	32	24	50	56	100	80	96	93	92	42	74	32	82	44	49
94	1	54	37	26	30	73	100	58	67	53	59	82	47	99	57	25
95	50	34	56	10	53	67	67	35	91	48	55	9	84	69	57	50
96	89	52	21	90	79	67	36	19	67	6	10	78	3	4	4	18
97	25	95	40	71	78	51	93	24	91	92	42	84	33	54	74	21
98	16	5	9	79	81	84	90	45	21	98	84	4	25	31	8	96
99	68	20	89	48	20	57	22	98	85	45	81	38	77	99	36	53
100	78	6	78	4	67	2	69	82	84	90	71	37	32	51	15	21
101	37	25	63	47	20	83	88	89	97	82	30	99	56	98	95	39
102	57	86	2	19	1	41	38	60	83	55	69	80	17	49	99	88
103	42	45	97	40	35	22	34	18	9	16	49	71	92	85	56	2
104	64	38	84	37	48	36	32	77	47	81	26	76	54	43	94	2
105	30	67	72	54	27	79	51	6	4	12	69	71	24	12	44	84
106	64	35	80	4	84	86	51	26	21	71	61	12	87	65	28	66
107	31	2	99	27	65	21	10	58	20	26	67	79	52	16	73	60
108	47	70	38	66	8	11	35	93	37	63	25	89	59	42	62	89
109	37	17	3	14	81	67	48	75	99	54	81	80	76	25	28	95
110	8	68	74	4	18	5	100	57	22	47	57	15	59	52	5	95
111	39	12	75	29	59	12	83	46	3	45	94	2	31	23	45	10
112	16	62	83	1	3	40	26	3	24	34	53	95	18	36	86	69
113	53	35	91	11	13	32	63	3	54	41	88	98	4	52	7	10
114	32	87	17	77	38	89	44	29	16	24	41	25	52	44	39	40
115	51	36	42	86	30	17	30	81	80	74	18	4	58	0	99	86
116	42	19	9	23	10	23	89	53	99	17	71	53	11	88	49	71
117	32	47	33	53	59	71	41	44	32	34	72	47	47	16	15	36
118	48	88	51	45	2	78	93	14	3	27	64	71	16	16	41	75
119	18	46	92	89	66	79	10	51	58	1	78	37	4	60	81	81
120	84	89	53	91	27	26	13	29	9	36	65	89	11	61	99	61
121	31	13	60	42	98	98	76	27	68	67	16	78	56	81	21	54
122	96	52	79	50	51	90	50	29	96	86	67	14	74	90	26	10
123	18	10	63	98	11	24	23	47	86	25	59	9	94	55	91	22
124	57	2	96	4	26	3	34	12	54	44	35	98	84	28	81	57
125	52	29	83	68	49	35	13	11	43	90	15	86	64	22	80	35
126	76	1	51	40	31	99	56	9	40	97	10	35	15	7	58	9
127	51	5	76	68	9	25	11	97	89	73	76	54	12	56	4	77
128	20	57	92	52	51	73	77	7	82	30	25	57	47	40	29	5
129	91	85	51	96	23	66	40	100	53	37	13	89	28	75	12	80
130	78	63	60	70	9	45	95	52	31	54	48	60	18	27	87	85
131	37	32	10	90	16	96	21	58	49	28	38	4	50	99	59	8
132	24	63	56	65	99	33	88	77	70	69	92	71	85	27	21	79
133	75	79	22	65	33	12	64	84	3	38	89	19	19	46	60	51
134	84	68	29	11	24	57	88	6	31	43	66	43	50	47	13	28
135	7	45	11	24	8	56	65	83	43	16	24	60	21	6	40	58
136	47	77	93	4	68	59	62	90	62	71	2	83	76	23	1	87
137	79	54	53	84	15	36	40	51	85	56	95	30	18	88	66	41

138	31	15	56	8	56	89	97	13	79	90	46	47	20	58	8	33
139	67	2	58	82	6	25	84	59	93	40	40	75	51	100	63	100
140	27	42	5	7	58	89	73	15	80	15	89	66	33	56	91	31
141	59	36	27	59	40	18	55	67	4	40	10	28	88	84	64	24
142	60	99	63	70	80	93	14	61	55	69	10	48	84	52	33	46
143	76	90	94	37	42	75	86	2	28	34	54	57	96	98	76	84
144	75	57	40	70	26	54	46	37	95	18	88	80	0	57	73	93
145	84	28	63	3	67	3	22	62	39	88	26	50	93	86	10	19
146	65	85	97	86	79	52	44	74	82	75	19	29	79	92	39	48
147	18	3	66	39	27	91	84	98	88	68	7	62	89	16	41	6
148	88	53	81	43	98	53	55	43	9	87	18	38	72	10	13	43
149	67	58	45	89	85	58	86	45	59	69	37	49	69	98	72	47
150	20	56	12	97	14	70	6	65	79	54	68	99	10	65	19	10
151	15	79	81	54	85	77	83	24	78	6	73	89	98	76	72	51
152	47	95	98	45	42	62	94	23	54	8	98	88	68	25	42	83
153	78	29	90	98	2	87	56	30	85	53	24	12	68	5	42	6
154	46	97	26	98	98	29	57	43	4	71	76	69	39	66	12	98
155	88	30	82	10	31	72	72	83	5	6	27	2	71	52	75	92
156	53	55	75	16	27	22	52	20	69	20	40	15	83	13	21	97
157	10	60	28	36	39	75	3	51	77	63	85	88	34	25	44	40
158	88	84	81	54	66	43	32	76	50	73	26	46	11	8	77	30
159	79	16	92	23	34	8	89	61	96	71	90	2	74	74	19	20
160	18	84	21	78	72	70	78	23	99	36	78	16	9	74	26	23
161	33	9	13	97	52	24	60	38	59	36	68	49	85	52	97	46
162	44	39	37	73	34	93	95	74	76	52	77	90	29	32	94	27
163	89	86	62	62	14	48	11	44	33	13	9	3	34	36	82	21
164	15	40	72	75	98	39	55	26	70	35	42	49	54	95	43	95
165	87	40	83	14	84	33	31	79	97	28	61	10	83	79	52	89
166	47	13	38	27	52	67	79	18	99	56	15	86	24	92	59	52
167	41	31	0	10	63	3	37	11	64	32	100	62	3	18	29	8
168	29	38	43	11	81	5	61	4	1	92	50	12	16	12	88	52
169	14	22	83	42	37	22	37	42	51	35	68	2	26	1	29	62
170	11	77	82	56	5	26	98	16	89	26	78	42	63	36	76	6
171	50	19	49	76	75	16	71	30	24	23	81	79	8	69	66	67
172	77	7	35	56	88	68	48	96	44	46	6	72	30	60	53	26
173	0	4	79	49	78	1	4	13	42	30	17	47	79	64	83	48
174	27	94	58	92	30	6	41	73	11	67	11	7	49	48	85	70
175	66	11	81	24	10	31	78	13	60	1	19	75	85	16	85	56
176	77	44	88	97	45	13	32	48	12	51	31	88	76	69	62	44
177	24	4	98	38	94	84	16	19	3	75	45	97	31	45	72	18
178	4	38	1	42	10	20	78	82	95	36	95	73	32	45	25	55
179	51	17	97	17	48	10	5	86	11	5	11	26	74	50	27	71
180	4	26	45	52	82	12	62	69	82	20	90	86	50	51	46	27
181	53	90	3	55	89	34	1	37	40	60	77	54	74	74	40	52
182	35	45	43	83	40	5	52	82	17	39	21	14	59	60	24	60
183	70	64	33	63	97	8	75	84	21	12	88	84	76	21	88	89

184	60	36	89	39	88	74	98	69	44	5	58	90	75	65	80	57
185	68	69	45	71	92	3	50	36	31	29	82	93	2	44	76	56
186	40	90	11	65	91	26	35	8	33	54	74	43	44	82	65	21
187	9	42	71	8	6	36	46	74	47	21	42	78	81	82	30	88
188	67	5	11	44	96	26	25	76	60	61	78	33	12	90	93	7
189	6	44	67	22	69	94	86	87	12	40	64	88	63	20	80	79
190	47	18	56	56	9	23	75	64	33	50	47	67	2	87	21	26
191	40	71	65	77	29	21	14	37	75	58	39	91	83	6	56	59
192	8	24	44	89	20	19	68	15	48	86	65	71	10	18	34	76
193	63	96	16	22	17	80	59	68	4	36	73	11	70	89	17	79
194	66	12	11	6	56	64	29	50	51	79	5	88	8	16	93	18
195	52	32	36	81	39	43	7	21	30	51	46	77	11	36	50	17
196	68	68	49	51	28	85	90	53	78	92	71	3	11	65	58	81
197	71	46	68	11	3	43	7	25	99	64	41	46	3	75	61	52
198	8	60	35	82	64	46	5	54	66	47	88	21	30	33	99	31
199	35	91	4	90	36	60	52	49	64	60	56	4	62	64	72	25
200	48	67	10	46	100	39	14	39	72	81	40	24	52	77	80	30

May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06
76	5	95	70	65	18	91	58	42	15	42	22	75	60	82	25
90	13	30	84	57	97	12	25	99	94	70	67	63	100	40	52
17	59	37	92	31	82	76	14	80	46	33	89	65	48	54	84
22	41	27	50	84	64	6	55	68	15	93	13	10	96	73	91
49	100	60	56	63	74	78	4	29	45	53	60	57	27	20	26
68	51	36	5	95	92	2	53	19	39	19	32	27	12	10	30
38	52	73	19	18	45	65	36	52	93	58	24	80	21	43	49
42	38	15	47	6	19	36	85	1	40	77	32	89	96	32	74
55	58	78	66	68	91	14	64	43	40	41	56	93	50	43	34
51	14	93	83	85	20	31	10	41	63	8	28	49	27	85	54
64	98	33	14	79	22	68	19	42	89	35	69	33	49	45	77
31	68	99	94	47	20	9	52	57	77	61	72	76	42	39	63
29	54	9	13	23	22	66	86	88	24	28	38	65	55	11	93
3	52	87	39	50	85	22	48	46	74	4	28	70	15	80	48
53	67	88	67	97	76	4	66	61	15	19	70	39	16	61	8
34	6	82	96	71	36	89	55	37	45	50	61	0	66	1	90
5	1	90	40	38	17	14	20	98	27	23	15	61	73	26	49
50	57	8	10	15	10	53	72	96	60	56	76	51	60	67	71
22	47	71	25	48	34	37	60	58	76	35	21	16	0	99	6
92	95	8	97	95	33	85	29	88	89	18	9	4	89	63	32
62	43	9	23	78	58	45	49	3	37	40	26	98	6	75	78
99	87	19	1	66	64	79	52	1	6	80	69	46	68	88	43
95	97	31	30	4	93	91	31	60	22	98	29	41	16	56	85
86	91	62	73	99	81	83	68	25	22	52	47	8	8	21	97
41	5	64	51	96	52	8	40	10	32	24	60	80	91	53	72
78	20	94	68	83	74	5	12	37	50	38	94	8	58	14	84
80	73	75	89	50	13	55	45	22	53	23	40	15	50	98	34
77	62	65	57	13	7	25	80	37	21	44	38	2	2	50	88
74	14	6	65	75	29	65	7	8	2	17	11	8	11	52	28
53	1	28	72	43	78	16	31	21	16	68	77	52	10	82	93
81	20	60	68	66	18	9	78	76	97	20	77	65	90	18	25
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65	97	87	72	75	28	57	87	43	59	18	72	80	93	0	83
55	94	20	6	28	11	22	18	90	46	43	10	89	26	6	88
79	36	62	29	72	89	32	52	65	69	77	38	88	32	49	85
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39	94	57	24	56	100	17	28	19	23	15	34	64	81	44	13
58	99	54	50	17	85	13	74	97	42	50	13	32	97	27	55
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68	61	0	46	86	18	34	63	26	24	92	46	87	72	37	11
68	78	22	27	53	90	37	61	94	1	33	87	89	81	21	67
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80	91	95	88	98	58	84	72	70	83	17	37	89	30	29	38
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91	86	29	83	5	58	35	18	72	67	81	2	31	49	4	2
15	53	90	68	70	1	43	14	85	83	5	51	22	46	26	94
10	67	18	37	44	53	89	67	76	73	32	48	81	74	80	9
81	75	29	36	8	50	98	70	19	45	11	7	15	55	2	3
26	12	71	5	72	29	53	16	19	59	19	11	72	29	30	64
29	43	51	23	80	54	19	63	86	79	69	64	89	59	2	12
76	66	72	97	5	35	7	68	82	1	93	17	97	26	95	14
95	29	8	83	98	10	22	83	43	81	92	20	56	23	37	49
17	86	11	90	50	32	15	91	25	49	55	19	37	15	15	79
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62	2	24	66	62	37	92	51	11	98	86	94	91	100	95	21
57	37	27	21	19	67	76	79	46	86	39	91	61	35	99	89
7	84	68	81	68	45	94	62	4	33	38	51	51	76	90	37
72	80	82	86	32	28	7	84	86	21	91	95	7	32	94	59
18	69	27	51	72	13	28	12	22	49	68	96	32	21	50	58
96	39	27	86	72	5	28	23	35	10	78	24	7	19	86	87
59	53	91	50	38	5	49	3	51	80	91	84	5	49	29	9
10	48	97	47	44	93	93	45	63	41	1	87	9	7	21	1
40	5	9	91	7	4	20	66	12	42	30	1	4	39	70	48
36	5	29	73	73	72	61	46	77	100	79	52	48	95	75	27
55	82	0	56	28	20	56	61	78	89	21	62	90	15	15	57
59	91	98	8	81	93	49	92	92	100	63	5	93	54	34	20
33	6	40	98	68	87	69	3	80	36	44	2	22	62	26	39
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39	62	72	63	1	36	44	9	33	33	6	78	41	99	75	39
13	25	15	42	8	54	85	81	20	89	5	79	62	5	29	73
71	8	83	60	59	100	15	75	33	28	29	37	63	77	52	43
82	34	6	74	75	17	79	86	30	57	3	4	96	34	100	85
52	44	29	73	89	79	32	96	77	65	20	40	84	24	28	8
68	60	88	100	44	20	22	89	44	30	16	3	21	49	54	37
70	73	100	38	62	63	70	71	6	30	48	34	8	29	16	33
79	28	89	90	0	21	74	64	82	68	42	64	29	9	82	9
99	7	79	23	62	0	1	10	35	89	66	2	38	32	62	53
41	14	33	31	58	69	28	15	72	29	34	96	58	81	71	16
71	81	59	56	35	36	30	92	2	44	30	65	28	72	38	32
25	78	95	29	58	34	48	54	20	18	53	42	76	40	44	20
67	93	42	17	14	73	55	71	78	97	83	90	18	16	55	60
62	40	42	2	51	43	76	13	41	0	45	30	83	88	80	57
27	44	67	96	77	40	42	36	96	94	70	89	61	66	14	24
88	94	61	58	36	97	23	71	34	96	61	59	95	50	74	81
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98	40	20	96	46	32	77	47	54	53	64	49	91	15	25	18
69	28	66	42	72	80	68	5	88	1	71	8	61	67	24	1
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80	92	40	28	80	23	10	27	5	45	45	43	43	61	41	93
76	81	59	52	50	38	84	63	72	56	3	92	13	7	61	20

51	7	21	84	96	82	87	96	27	19	1	24	40	63	69	10
39	79	93	17	50	93	66	79	15	9	37	71	55	86	33	27
49	35	59	54	94	38	57	18	63	87	55	29	82	8	33	48
67	10	20	7	54	87	100	59	9	77	62	89	82	78	4	73
96	90	27	74	13	58	36	55	46	94	68	92	93	13	20	50
46	82	59	59	23	12	51	30	58	6	99	86	41	29	21	54
65	35	90	48	1	45	45	91	2	25	96	67	83	21	93	38
18	80	15	66	33	3	79	47	81	28	65	58	100	30	84	92
1	0	41	54	87	47	82	99	86	51	83	35	53	87	57	79
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39	59	22	95	53	59	16	92	76	63	3	24	100	4	63	3
91	87	49	47	0	10	25	55	72	35	17	87	50	79	8	47
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76	14	51	9	96	83	77	65	8	57	96	85	72	83	80	1
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36	2	10	19	66	9	75	15	61	83	4	67	57	18	10	55
23	39	27	87	81	83	60	27	25	55	46	20	58	30	43	52
94	39	66	21	62	43	9	88	41	39	3	92	0	67	11	27
91	96	36	16	30	85	41	41	38	6	2	97	32	50	34	47
22	32	42	10	20	61	23	1	39	7	26	93	20	22	93	53
73	32	76	69	25	22	7	39	26	94	72	10	12	28	82	36
2	80	41	21	19	68	59	88	2	23	73	69	9	42	42	82
76	14	53	42	86	47	12	98	70	40	3	23	99	76	58	93
34	46	59	28	95	63	49	16	14	23	16	51	50	78	4	50
51	42	9	73	80	16	32	85	78	19	46	31	60	55	38	5
92	21	15	55	77	21	55	32	86	79	96	55	27	7	57	73
75	3	94	97	93	31	79	78	38	17	66	1	38	78	48	32
43	85	86	2	84	17	14	15	43	5	0	32	92	74	1	91
99	17	78	31	83	85	22	94	41	85	47	40	64	66	19	97
67	59	60	84	15	91	12	84	37	20	16	1	86	15	97	42
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44	85	86	72	84	19	83	51	5	74	80	10	63	7	84	83
25	85	45	99	24	5	11	18	20	56	64	12	36	27	8	38
71	27	39	25	64	50	65	0	25	88	5	37	31	71	29	33
72	17	2	33	68	60	2	64	75	88	87	38	44	76	61	81
99	68	30	77	28	48	80	82	36	95	25	66	74	92	88	85
57	7	96	73	35	54	23	17	61	63	41	3	5	15	12	36
79	1	1	2	17	3	35	96	37	24	22	58	92	48	64	13
5	39	95	33	43	75	70	46	76	53	70	9	82	27	57	62
62	88	92	95	95	76	85	33	8	50	1	22	34	98	65	42
25	86	23	51	76	9	12	100	26	52	95	85	71	89	3	4
43	52	2	27	96	85	80	62	10	89	25	74	50	93	22	61
26	82	13	13	83	81	60	93	84	94	50	52	10	4	13	46
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74	72	81	64	30	94	24	96	66	92	89	78	59	16	11	80
44	38	8	76	26	39	5	74	38	10	92	26	31	38	19	75
47	77	27	50	29	94	71	76	21	1	56	59	98	38	15	19
16	60	89	78	45	80	5	71	35	85	41	19	16	21	23	100
9	17	77	76	88	52	50	78	53	87	30	83	92	64	49	31
50	96	3	18	54	14	43	3	45	66	53	84	19	27	58	90
91	29	33	95	87	28	40	0	100	77	56	39	41	1	33	3
55	45	99	32	66	18	37	80	83	27	1	88	20	88	88	39
63	75	56	40	53	90	1	21	90	29	77	29	95	5	33	69
50	28	25	8	68	32	97	59	44	38	35	43	90	56	74	6
3	47	38	11	74	45	88	77	48	93	26	57	4	82	1	12
45	41	83	62	41	63	25	85	72	62	63	18	32	98	62	13
32	29	67	69	91	1	69	27	71	10	39	80	16	70	48	4
60	21	57	83	97	84	1	47	39	11	41	26	64	39	27	73
37	19	86	81	6	91	78	90	61	56	67	17	63	73	54	34
63	32	45	61	54	24	34	64	14	57	91	44	15	78	14	58
63	58	44	33	36	45	36	65	74	49	71	65	32	72	21	21

Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08
33	37	77	6	15	89	64	43	84	34	14	49	23	48	30	0	25	14	99
81	57	24	13	4	5	46	18	37	38	57	70	57	28	95	54	74	69	45
32	74	56	54	67	90	30	5	37	20	28	90	61	41	10	53	87	80	62
42	50	22	63	27	67	14	76	6	97	12	97	59	3	79	13	83	9	100
19	54	73	80	1	89	33	92	72	44	59	96	59	27	47	86	77	3	18
46	41	38	85	43	42	51	53	42	12	82	76	78	48	17	87	97	64	54
16	1	5	14	64	59	73	27	71	29	24	95	64	24	26	36	38	28	75
63	66	64	51	24	30	78	46	34	84	16	20	3	64	98	23	83	85	14
12	4	95	32	78	45	23	84	82	41	9	95	22	43	29	25	77	78	90
74	25	33	7	60	66	7	25	54	25	64	72	21	81	74	91	84	80	48
19	89	32	66	65	85	98	88	27	88	36	52	8	67	56	19	51	82	65
99	32	1	36	3	45	54	69	52	4	62	66	11	11	97	60	9	70	70
17	94	74	93	54	95	72	51	56	62	38	24	87	25	56	90	14	53	98
80	66	95	27	21	17	43	1	56	49	92	43	37	7	98	44	97	94	13
29	19	6	28	3	16	30	68	33	74	88	100	52	69	45	90	7	28	22
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91	34	22	94	10	94	54	89	0	64	64	87	29	24	22	6	43	52	84
85	83	35	34	11	58	69	89	38	16	30	22	20	15	57	62	87	43	54
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59	97	36	97	98	11	66	11	78	94	55	65	35	41	53	49	2	20	74
25	17	89	68	85	28	49	72	91	9	17	98	49	26	38	12	85	6	11
18	87	37	1	9	40	9	75	5	86	74	88	55	72	33	90	16	40	46
4	49	65	21	60	84	87	36	56	34	87	10	50	47	94	19	91	28	52
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57	12	91	63	89	65	7	24	71	4	68	65	36	73	96	78	50	2	30
92	33	91	11	96	14	58	97	87	38	31	28	55	83	27	31	80	90	74
72	38	77	41	14	42	26	19	86	75	9	54	77	42	99	75	74	99	18
67	25	67	55	92	1	3	68	50	49	15	47	69	34	5	90	33	90	91
93	73	13	20	46	53	46	82	9	48	3	82	5	90	11	51	14	42	86
87	76	97	34	99	79	19	52	89	26	89	81	46	64	52	37	86	71	88
37	69	85	41	22	62	76	91	16	97	43	30	97	98	95	35	27	69	29
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47	70	12	80	97	13	5	56	13	98	23	40	41	10	93	64	41	24	40
90	29	83	30	82	27	6	43	78	97	27	79	15	6	34	5	26	76	61
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55	65	59	40	3	78	63	48	79	2	78	44	83	15	31	46	95	72	32
89	60	39	61	73	18	26	28	2	21	88	84	15	1	93	27	65	12	8
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76	8	56	27	77	58	14	35	41	25	50	84	89	36	57	97	29	70	85
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86	14	12	2	87	13	57	94	61	62	57	14	70	58	59	9	33	92	43
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41	97	84	71	0								65	16	16	8	37	58	88	
40	55	71	84									53	35	41	85	24	33		
80	59	84										86	43	32	60	26			
15	85											41	31	34	7				
58	47											15	48	13	37				
24	16											98	97	5					
62												64	4	68					
97												7	50						
48												30	4						
5												95	65						
95												30	92						
4												42	65						
5												24	33						
9												0	11						
2												85	45						
79												1	97						
54												93	12						
58												5	36						
32												77	69						
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63												77	27	61					
86	62											44	51	76					
89	92											75	31	87	5				
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35	85	28										1	82	76	100	24			
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43	88	1	17	90	15	53	60	28	45	22	77	57	82	26	59	57	62	36
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96	86	27	9	6	38	92	46	77	49	74	65	37	33	20	28	32	83	79
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42	82	39	51	2	71	99	29	79	65	23	76	50	34	61	76	7	77	8
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18	46	14	67	2	9	1	22	10	45	45	45	85	67	73	99	5	59	38
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80	65	73	33	59	23	82	40	9	58	7	26	4	90	26	39	98	17	60
17	2	90	4	1	5	57	51	33	77	97	97	51	27	24	40	27	36	30
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Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10
42	17	28	65	13	94	6	89	50	21	95	94	0	45	38	73	70	55	77	48	63	50
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33	23	1	6	80	77	5	58	67	98	83	37	55	36	82	15	65	54	40	56	24	80
23	84	13	61	42	86	72	69	41	41	77	92	82	13	15	54	98	89	88	72	44	88
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3	33	76	2	55	82	60	53	90	70	64	98	46	18	20	19	79	26	13	77	50	1
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19	88	41	66	45	4	66	56	21	54	49	73	54	41	38	81	77	73	33	67	82	39
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20	81	31	80	18	7	42	18	16	5	42	80	81	49	12	67	13	64	71	28	8	53
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Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11
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22	14	86	35	86	1	76	87	98	17	20	7	8	26	29	35	71	40	73	14	80	73
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93	11	95	87	22	50											54	55	58	84	76	71
81	59	39	34	22												58	69	71	71	34	
24	79	50	93													15	89	56	14		
83	17	55														61	85	80	82		
8	44	35															24	69	57		
64	71																95	15	78		
72	64																8	48	65		
80	37																74	70			
92	7																53	10			
9																	40	62			
70																	73	12			
26																	86	12			
9																	55	91			

When you purchase a copy of COUNT DATA SPC, you will be sent, free of charge, signed copies of the most current revision of the validation protocol and of the completely executed validation report.

Dec-11	Jan-12	Feb-12	Mar-12	Apr-12
91	15	38	34	9
92	68	72	70	15
15	5	94	36	96
20	24	42	70	16
23	14	39	24	22
18	70	18	94	49
66	85	19	4	51
40	96	17	21	25
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33	96	23	8	71
31	99	18	69	31
82	27	56	2	96
26	65	72	12	2
72	31	63	18	34
61	27	9	27	11
17	37	65	90	36
40	82	76	68	96
62	3	32	97	100
16	78	99	11	17
3	5	61	3	15
58	33	53	1	57
97	47	71	17	93
2	19	41	16	23
83	83	26	85	47
67	78	23	27	97
23	11	37	19	40
33	15	79	52	97
64	32	80	38	45
63	80	56	17	71
99	54	93	68	9
31	49	17	47	56
10	95	47	59	57
39	27	91	94	31
92	75	57	75	84
89	3	56	34	84
39	54	47	34	19
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31	64	72	23	16
66	54	4	18	76
95	36	41	35	88
69	93	33	95	74
54	7	16	4	25
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76	90	83	82	60
60	40	70	15	63

10	92	66	25	41
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3	83	88	50	20
0	34	24	73	69
38	39	47	10	56
12	69	4	89	46
48	80	56	91	68
14	35	32	65	36
3	33	59	87	51
64	49	82	97	53
77	46	96	98	80
18	59	58	99	69
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17	6	72	49	42
79	67	89	12	68
23	84	68	62	66
84	66	62	91	24
4	52	15	89	86
39	53	80	43	31
76	44	86	52	92
74	89	70	90	48
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73	92	71	11	50
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3	93	32	68	98
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31	30	47	26	85
65	16	65	88	34
0	42	61	69	80
83	28	68	56	12
41	89	23	42	65
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45	97	40	50	28
81	3	65	42	83
46	72	71	95	76
52	2	15	91	43
45	55	97	38	12
60	45	30	42	32
55	81	71	57	26
53	4	99	28	42
91	83	46	72	75

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64	54	8	6	86
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85	15	15	68	95
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25	72	31	81	20
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81	65	13	68	72
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80	34	45	38	7
32	55	95	81	86
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67	9	68	80	64
96	64	4	49	98
98	90	57	75	55
4	75	83	49	58
98	23	52	66	7
44	47	24	78	84
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45	79	31	100	39
4	5	8	68	89
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92	62	97	56	96
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95	10	31	71	23
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