

Before The
POSTAL RATE COMMISSION
WASHINGTON, D.C. 20268-0001

Postal Rate and Fee Changes, 2006)

Docket No. R2006-1

OFFICE OF THE CONSUMER ADVOCATE
INTERROGATORIES TO UNITED STATES POSTAL SERVICE
WITNESS MICHAEL D. BRADLEY (OCA/USPS-T17-12-15)
(June 23, 2006)

Pursuant to Rules 25 through 28 of the Rules of Practice of the Postal Rate Commission, the Office of the Consumer Advocate hereby submits interrogatories and requests for production of documents. Instructions included with OCA interrogatories OCA/USPS-T32-1-7, dated June 2, 2006, are hereby incorporated by reference.

Respectfully submitted,

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OCA/USPS-T17-12. The purpose of this interrogatory is to develop information on the database wscleanpos.11.3.05.xls, which provides the data for your study of window service supply side volume variabilities. The database consists of 7915 rows of observations with 46 columns of data. In many cases the columns denote type of transaction. When a transaction corresponding to the type of transaction denoted in the column heading occurred, the cell in the appropriate transaction column and row was filled with a number denoting the quantity of items/products associated with the transaction. Otherwise, the cell appears to have been left blank: There are a large number of blank cells in the database. However, in some cases, rather than a cell being blank, the cell contains the number "0".

- (a) Attachment 1, "Data Questions," to this interrogatory presents the cases in which a database entry was "0" rather than being left blank. The log of the SAS program "Data Questions" is also attached to this interrogatory (Attachment 2) for informational purposes. Since the majority of cells were blank, it appears that the entry of a "0" is inconsistent with other entries. This raises the question of whether the data entry is correct. Please confirm that the entry "0" is correct in each of the identified cases or, alternatively, please provide the corrected data in a revised spreadsheet.
- (b) In a number of cases, relatively few non-zero entries have been identified for a transaction type: Domestic COD: one entry; Electronic Return Receipt: one entry; First Class Enclosure: one entry; Library Mail: one

- entry; Mailing Payments: twelve entries; Retail item: eight entries; Registered with Insurance: fifteen entries. Please state the minimum number of non-zero observations that would be required for a product (e.g., Mailing Payments) to generate statistically meaningful results in the regression equation. Please provide references to the literature, as available, identifying and deriving the required numbers of observations and appropriate statistical tests.
- (c) Please confirm that there is one entry for Domestic COD in the database and that COD was a variable in your regressions. If you do not confirm, please explain.
- (d) Your Table 8 provides “Estimated Variabilities”. Did you use the regression results from an equation containing the above referenced data for domestic COD to compute an estimated variability for COD? If not, please explain.

DATA QUESTIONS

OCA/USPS-T17-12
Attachment 1 of 2

The SAS System

Obs BR

**Box Rental
Questionable Entries**5990 0
7407 0
7581 0
7637 0

The SAS System

Obs Certified

**Certified
Questionable Entries**7139 0
7590 0

The SAS System

Obs DC

**Delivery Confirmation
Questionable Entries**7082 0
7205 0

The SAS System

Obs Domcod

Domestic COD: 1 non-zero observation in database

7877 3

The SAS System

Obs EM

**Express Mail,
Questionable Entries**5707 0
5929 0
7679 0

The SAS System

Obs ERR

**Electronic Return Receipt-
One Entry in Data Base**

7743 1

The SAS System

Obs FC

**First Class Mail
Questionable Entries**2436 0
2861 0
3977 0
4017 0
4833 0
5796 0
6707 0
7139 0
7590 0

The SAS System

Obs FCE

1 0

The SAS System

Obs FCE

First Class Enclosure: One Entry in entire database

6271 1
The SAS System

obs Inquiry
Inquiry
Questionable Entries
210 0
398 0
456 0
585 0
1011 0
1012 0
1149 0
1887 0
3538 0
4231 0
4742 0
5453 0
5709 0
The SAS System

obs Insurance

Insurance
Questionable Entries
5911 0
6598 0
The SAS System

obs Int
SS
International Special Services
Questionable Entries
7790 0
The SAS System

obs International

International
Questionable Entries
7790 0
7895 0
The SAS System

obs LM
Library Mail--One Entry in Entire Database
3898 1
The SAS System

obs MO

Money Orders
Questionable Entries
2861 0
3712 0
3994 0
4599 0
6199 0
6862 0
The SAS System

obs MP

Mailing Payments
Questionable Entries
3315 0
7560 0
The SAS System

obs MP
Mailing Payments--12 observations
892 1
1446 1
3033 1

3533	1
3654	1
4011	1
4748	2
4856	1
5735	1
7466	1
7611	1
7777	3

The SAS System

obs	other
-----	-------

**other
Questionable Entries**

15	0
33	0
43	0
44	0
51	0
53	0
67	0
91	0
107	0
115	0
116	0
132	0
135	0
139	0
175	0
187	0
232	0
239	0
342	0
347	0
348	0
351	0
376	0
378	0
405	0
514	0
585	0
607	0
631	0
695	0
723	0
736	0
767	0
785	0
821	0
830	0
859	0
885	0
903	0
970	0
998	0
1024	0
1059	0
1160	0
1161	0
1225	0
1304	0
1356	0
1427	0
1675	0

The SAS System

Obs	other
-----	-------

1834	0
1842	0
1843	0
1965	0
1969	0
2080	0
2098	0
2136	0
2140	0
2225	0
2336	0
2358	0

2385	0
2414	0
2436	0
2526	0
2567	0
2604	0
2613	0
2671	0
2755	0
2784	0
2861	0
2899	0
3042	0
3080	0
3290	0
3385	0
3533	0
3565	0
3712	0
3808	0
3860	0
3949	0
3973	0
3977	0
4017	0
4096	0
4098	0
4099	0
4148	0
4190	0
4307	0
4340	0
4350	0
4399	0
4445	0
4449	0
4501	0
4548	0
4612	0
The SAS System	
obs	other
4711	0
4714	0
4833	0
4834	0
5061	0
5062	0
5135	0
5150	0
5252	0
5300	0
5386	0
5534	0
5623	0
5670	0
5708	0
5730	0
5766	0
5767	0
5796	0
5806	0
5812	0
5911	0
5929	0
6022	0
6038	0
6062	0
6111	0
6174	0
6175	0
6195	0
6297	0
6331	0
6367	0
6407	0
6443	0
6490	0
6517	0
6540	0

6561	0
6569	0
6598	0
6610	0
6651	0
6678	0
6707	0
6763	0
6793	0
6845	0
6921	0
6934	0
6993	0

The SAS System

Obs	Other
7055	0
7082	0
7111	0
7143	0
7214	0
7235	0
7255	0
7380	0
7487	0
7496	0
7555	0
7559	0
7594	0
7641	0
7648	0
7712	0
7719	0
7753	0
7768	0
7775	0
7776	0
7791	0
7808	0
7817	0
7836	0
7837	0
7846	0
7857	0
7878	0
7888	0
7895	0
7896	0

The SAS System

Obs	PP
-----	----

**Parcel Postal
Questionable Entries**

5670	0
5911	0
6598	0
7836	0

The SAS System

Obs	PVI
-----	-----

**PVI
Questionable Entries**

775	0
3359	0
3959	0
4808	0
5201	0
5598	0
5776	0
6546	0
6851	0
6889	0
7349	0
7737	0
7866	0

The SAS System

Obs	Passport
-----	----------

Questionable Entries

1633	0
7905	0

The SAS System

Obs	Pickup
	Questionable Entries

883	0
941	0
1113	0
1643	0
2085	0
2838	0
4553	0
4901	0
5588	0
6026	0
6377	0
7497	0

The SAS System

Obs	Priority
-----	----------

Questionable Entries

3949	0
4612	0
7205	0
7791	0

The SAS System

The SAS System

Retail Item 8 entries

Obs	RI
6077	1
6158	1
6767	1
7128	1
7586	1
7715	1
7771	9
7772	2

The SAS System

Obs	RP
-----	----

Ready Post
Questionable Entries

1603	0
2601	0
3168	0
3524	0
3977	0
4442	0
5562	0
5796	0
7096	0
7144	0
7645	0

The SAS System

Obs	RWI
-----	-----

Registered with Insurance
Questionable Entries

4833	0
------	---

The SAS System

Obs	RWI
-----	-----

Registered with Insurance-15 entries
3269 1

5740	1
6456	1
6564	1
7006	1
7016	2
7063	1
7274	1
7354	1
7603	1
7624	1
7688	1
7742	1
7788	1
7910	4

The SAS System

obs	Return_ Receipt	Questionable Entries
7590	0	
7641	0	

The SAS System

Obs	SC	Signature Confirmation	Questionable Entries
4612	0		

The SAS System

Obs	Stamp NonScan	Questionable Entries
2779	0	
3503	0	
3556	0	
5384	0	
5964	0	
6776	0	

The SAS System

Obs	Stamp Scan	Questionable Entries
65	0	
248	0	
296	0	
1651	0	
2088	0	
3503	0	
4024	0	
4051	0	
4455	0	
4548	0	
5087	0	
5173	0	
6171	0	
6776	0	
6819	0	
6901	0	
6932	0	
7144	0	
7205	0	
7361	0	
7765	0	

The SAS System

obs	se	Stamped Envelopes	Questionable Entries
3157	0		
4545	0		

NOTE: SAS 9.1.3 Service Pack 1

NOTE: SAS initialization used:
real time 1.20 seconds
cpu time 1.04 seconds

```
1
2 options linesize=80;
3 options nocenter;
4 options nodate;
5 options nonumber;
6
7
8 DATA bdata;
9 set bwindows.bdata;
10 run;
```

NOTE: There were 7915 observations read from the data set BWINDOWS.BDATA.

NOTE: The data set WORK.BDATA has 7915 observations and 46 variables.

NOTE: DATA statement used (Total process time):

real time 0.04 seconds
cpu time 0.04 seconds

```
11
12
13
14
15 data bdata (rename = (Bounded_Printed_Matter = bpm Box_Rental = BR
16 Certificate_of_mailing = CM Delivery_Confirmation = DC Domestic_cod =
16 ! Domcod
17 Electronic_Return_Receipt = ERR Express_Mail = EM First_Class = FC
18 First_Class_Enclosure = FCE Hold_Mail = HM
18 ! International_Special_Services = IntSS
19 Library_mail = LM Mailing_Payments = MP Media_Mail = MM Money_order = MO
20 Parcel_Post = PP Ready_post= RP Registered_with_insurance = RWI
21 Retail_Item = RI Signature_Confirmation = SC Stamped_Env = se));
22 set bdata;
23 run;
```

NOTE: There were 7915 observations read from the data set WORK.BDATA.

NOTE: The data set WORK.BDATA has 7915 observations and 46 variables.

NOTE: DATA statement used (Total process time):

real time 0.03 seconds
cpu time 0.03 seconds

```
24
25 /*proc print;
26 var inquiry ;where inquiry = 0;
27 run;*/
28
29 proc print;
30 var br ;where br = 0;
31 run;
```

NOTE: There were 5 observations read from the data set WORK.BDATA.

WHERE br=0;

NOTE: PROCEDURE PRINT used (Total process time):

real time 0.01 seconds
cpu time 0.01 seconds

```
32
33 proc print;
34 var certified ;where certified = 0;
35 run;
```

NOTE: There were 3 observations read from the data set WORK.BDATA.

WHERE certified=0;

NOTE: PROCEDURE PRINT used (Total process time):

real time 0.00 seconds
cpu time 0.00 seconds

```
36
37 proc print;
38 var dc ;where dc = 0;
```

39 run;

NOTE: There were 3 observations read from the data set WORK.BDATA.
WHERE dc=0;
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.01 seconds
cpu time 0.01 seconds

40
41 proc print;
42 var domcod ;where domcod = 0;
43 run;

NOTE: There were 1 observations read from the data set WORK.BDATA.
WHERE domcod=0;
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

44 proc print;
45 var domcod ;where domcod >0;
46 run;

NOTE: There were 1 observations read from the data set WORK.BDATA.
WHERE domcod>0;
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

47 proc print;
48 var em ;where em = 0;
49 run;

NOTE: There were 4 observations read from the data set WORK.BDATA.
WHERE em=0;
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.01 seconds
cpu time 0.01 seconds

50
51 proc print;
52 var err ;where err = 0;
53 run;

NOTE: There were 1 observations read from the data set WORK.BDATA.
WHERE err=0;
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

54 proc print;
55 var err ;where err >0;
56 run;

NOTE: There were 1 observations read from the data set WORK.BDATA.
WHERE err>0;
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

57 proc print;
58 var fc ;where fc = 0;
59 run;

NOTE: There were 10 observations read from the data set WORK.BDATA.
WHERE fc=0;
NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

60
61 proc print;
62 var fce ;where fce = 0;
63 run;

NOTE: There were 1 observations read from the data set WORK.BDATA.
WHERE fce=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

```
64 proc print;
65 var fce ;where fce >0;
66 run;
```

NOTE: There were 1 observations read from the data set WORK.BDATA.
WHERE fce>0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

```
67
68 proc print;
69 var inquiry ;where inquiry = 0;
70 run;
```

NOTE: There were 14 observations read from the data set WORK.BDATA.
WHERE inquiry=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

```
71 proc print;
72 var inquiry ;where inquiry >0;
73 run;
```

NOTE: No observations were selected from data set WORK.BDATA.
NOTE: There were 0 observations read from the data set WORK.BDATA.
WHERE inquiry>0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

```
74 proc print;
75 var insurance ;where insurance = 0;
76 run;
```

NOTE: There were 3 observations read from the data set WORK.BDATA.
WHERE insurance=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.01 seconds
cpu time 0.01 seconds

```
77
78 proc print;
79 var intss ;where intss = 0;
80 run;
```

NOTE: There were 2 observations read from the data set WORK.BDATA.
WHERE intss=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

```
81
82 proc print;
83 var international ;where international = 0;
84 run;
```

NOTE: There were 3 observations read from the data set WORK.BDATA.
WHERE international=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.01 seconds
cpu time 0.01 seconds

```
85
86 proc print;
87 var lm ;where lm = 0;
```

88 run;

NOTE: There were 1 observations read from the data set WORK.BDATA.
WHERE lm=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

89 proc print;
90 var lm ;where lm >0;
91 run;

NOTE: There were 1 observations read from the data set WORK.BDATA.
WHERE lm>0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

92
93 proc print;
94 var mo ;where mo = 0;
95 run;

NOTE: There were 7 observations read from the data set WORK.BDATA.
WHERE mo=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.01 seconds
cpu time 0.01 seconds

96
97 proc print;
98 var mp ;where mp = 0;
99 run;

NOTE: There were 3 observations read from the data set WORK.BDATA.
WHERE mp=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

100 proc print;
101 var mp ;where mp >0;
102 run;

NOTE: There were 12 observations read from the data set WORK.BDATA.
WHERE mp>0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

103 proc print;
104 var other ;where other = 0;
105 run;

NOTE: There were 185 observations read from the data set WORK.BDATA.
WHERE other=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.01 seconds
cpu time 0.01 seconds

106
107 proc print;
108 var pp ;where pp = 0;
109 run;

NOTE: There were 5 observations read from the data set WORK.BDATA.
WHERE pp=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

110
111 proc print;
112 var pvi ;where pvi = 0;

113 run;

NOTE: There were 14 observations read from the data set WORK.BDATA.
WHERE pvi=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.01 seconds
cpu time 0.01 seconds

114

115 proc print;
116 var passport ;where passport = 0;
117 run;

NOTE: There were 3 observations read from the data set WORK.BDATA.
WHERE passport=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

118

119
120 proc print;
121 var pickup;where pickup = 0;
122 run;

NOTE: There were 13 observations read from the data set WORK.BDATA.
WHERE pickup=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

123

124
125 proc print;
126 var priority ;where priority = 0;
127 run;

NOTE: There were 5 observations read from the data set WORK.BDATA.
WHERE priority=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.01 seconds
cpu time 0.01 seconds

128

129 proc print;
130 var ri ;where ri = 0;
131 run;

NOTE: There were 1 observations read from the data set WORK.BDATA.
WHERE ri=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

132 proc print;
133 var ri ;where ri >0;
134 run;

NOTE: There were 8 observations read from the data set WORK.BDATA.
WHERE ri>0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.01 seconds
cpu time 0.01 seconds

135 proc print;
136 var rp ;where rp = 0;
137 run;

NOTE: There were 12 observations read from the data set WORK.BDATA.
WHERE rp=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

```
138
139 proc print;
140 var rwi ;where rwi = 0;
141 run;
```

NOTE: There were 2 observations read from the data set WORK.BDATA.
WHERE rwi=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

```
142 proc print;
143 var rwi ;where rwi >0;
144 run;
```

NOTE: There were 15 observations read from the data set WORK.BDATA.
WHERE rwi>0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.01 seconds
cpu time 0.01 seconds

```
145 proc print;
146 var return_receipt ;where return_receipt = 0;
147 run;
```

NOTE: There were 3 observations read from the data set WORK.BDATA.
WHERE return_receipt=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

```
148
149 proc print;
150 var sc ;where sc = 0;
151 run;
```

NOTE: There were 2 observations read from the data set WORK.BDATA.
WHERE sc=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.01 seconds
cpu time 0.01 seconds

```
152
153 proc print;
154 var stamponscan ;where stamponscan = 0;
155 run;
```

NOTE: There were 7 observations read from the data set WORK.BDATA.
WHERE stamponscan=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

```
156
157 proc print;
158 var stampscan ;where stampscan = 0;
159 run;
```

NOTE: There were 21 observations read from the data set WORK.BDATA.
WHERE stampscan=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.00 seconds
cpu time 0.00 seconds

```
160
161 proc print;
162 var se ;where se = 0;
163 run;
```

NOTE: There were 3 observations read from the data set WORK.BDATA.
WHERE se=0;

NOTE: PROCEDURE PRINT used (Total process time):
real time 0.01 seconds
cpu time 0.01 seconds

OCA/USPS-T17-13. Please turn to the database entries for the variable “Inquiry”.

- (a) Please confirm that there are no positive entries indicating that an inquiry occurred, although there are a number of “0” entries. If you do not confirm, please explain.
- (b) Please confirm that the data are correct or, alternatively, provide corrected data.
- (c) Please state how the “Inquiry” data was used or could have been used in your analysis, given that a “0” entry appears to provide estimation problems and that only “0” entries occur.

OCA/USPS-T17-14. Please provide a cross-walk between the database wscleanpos.11.3.05.xls and the variables in Table 7 of your testimony.

- (a) In the case in which a single variable from the database maps onto a single variable in Table 7, please so indicate.
- (b) In the case in which multiple variables from the database map onto a single variable in Table 7, please so indicate.
- (c) Please denote the variables, if any, from the database which are not mapped into the variables in Table 7.

OCA/USPS-T17-15. Please provide a cross-walk between the database wscleanpos.11.3.05.xls and the products or special services in Table 8 of your testimony.

- (a) In the case in which a single variable from the database maps onto a single product in Table 8, please indicate whether additional variables not in the database also map onto the product.
- (b) In the case in which multiple variables from the database map onto a single product in Table 8, please indicate whether additional variables not in the database also map onto the product.
- (c) Please indicate the variables, if any, from the database which are not mapped into the products in Table 8.