

BEFORE THE  
POSTAL RATE COMMISSION  
WASHINGTON, D.C. 20268-0001

POSTAL RATE AND FEE CHANGES  
PURSUANT TO PUBLIC LAW 108-18

Docket No. R2005-1

RESPONSE OF THE UNITED STATES POSTAL SERVICE TO  
PRESIDING OFFICER'S INFORMATION REQUEST NO. 5  
(June 2, 2005)

The United States Postal Service hereby provides the responses to Presiding Officer's Information Request (POIR) No. 5, issued May 19, 2005. The response to Question 2 has been separated into two parts, one with the requested PRC version provided through an institutional response and one with the requested Postal Service version sponsored by witness Meehan. The following witnesses are sponsoring the identified responses to this POIR:

Witness Meehan: Question 2, Part 1

Witness Nash: Question 4(a)

Witness Robinson: Question 4(c)

Witness Stevens: Question 1

Witness Taufique: Questions 3, 4(b), 5, and 6

Institutional Response: Question 2, Part 2

Each question is stated verbatim and is followed by the response.

Respectfully submitted,

UNITED STATES POSTAL SERVICE

By its attorneys:

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RESPONSE OF POSTAL SERVICE WITNESS STEVENS TO  
POIR NO. 5, QUESTION 1

1. Library Reference LR-K-79 contains a SAS program (CPFFINAL.sas), and input files that consist of an Excel data file (MDCD.WEIGHTS.MASKZIPS.DATA. data.xls), a text file (MDCD.scan6.txt) and a data file (Mdc.d.archive.subset.v4mask.data). The SAS program has been written for mainframe SAS, and cannot be executed using a PC-SAS platform. Initial attempts by Commission staff to convert the mainframe version of SAS, while executable, did not replicate witness Stevens' results. Please provide the above-listed input files and SAS program in a PC-SAS executable format, along with the accompanying SAS log.

**RESPONSE:**

The PC-SAS version of CPFFINAL.sas is filed as USPS-LR-K-132. Note that you will need to open the input data file MDCD.WEIGHTS.MASKZIPS.DATA.xls in Excel before running the program. This program produces the identical outputs. The log file is included below.

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NOTE: Copyright (c) 1999-2001 by SAS Institute Inc., Cary, NC, USA.

NOTE: SAS (r) Proprietary Software Release 8.2 (TS2M0)  
Licensed to US POSTAL SERVICE, Site 0038843016.

NOTE: This session is executing on the WIN\_PRO platform.

NOTE: SAS initialization used:

|           |              |
|-----------|--------------|
| real time | 5.92 seconds |
| cpu time  | 1.80 seconds |

```
1  Filename DATACOLL 'C:\Documents and Settings\nkay\My
Documents\POSTAL on
1  ! Nkay\SASfiles\LR-79\MDCD.ARCHIVE.SUBSET.V4MASK.DATA';
2  Filename POOLS 'C:\Documents and Settings\nkay\My Documents\POSTAL
on
2  ! Nkay\SASfiles\LR-79\MDCD.SCAN6.txt';
3  Filename WEIGHTS dde 'excel|maskwgt!R2C1:R168C2';
4  Filename OUT1 'C:\Documents and Settings\nkay\My Documents\POSTAL
on
4  ! Nkay\SASfiles\LR-79\cpfinal.DAT';
5
6      DATA POOLS; INFILE POOLS truncover;
7      INPUT BARCODE1 BARCODE CP $;
8
```

NOTE: The infile POOLS is:

```
File Name=C:\Documents and Settings\nkay\My Documents\POSTAL on
Nkay\SASfiles\LR-79\MDCD.SCAN6.txt,
RECFM=V,LRECL=256
```

NOTE: 532 records were read from the infile POOLS.

The minimum record length was 10.

The maximum record length was 25.

NOTE: The data set WORK.POOLS has 532 observations and 3 variables.

NOTE: DATA statement used:

|           |              |
|-----------|--------------|
| real time | 0.36 seconds |
| cpu time  | 0.14 seconds |

```
9      DATA WEIGHTS; INFILE WEIGHTS truncover;
10     INPUT RTEZIP WGT;
```

NOTE: The infile WEIGHTS is:

```
DDE Session,
SESSION=excel|maskwgt!R2C1:R168C2,RECFM=V,
LRECL=256
```

NOTE: 167 records were read from the infile WEIGHTS.

The minimum record length was 10.

The maximum record length was 18.

NOTE: The data set WORK.WEIGHTS has 167 observations and 2 variables.

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NOTE: DATA statement used:  
real time 0.04 seconds  
cpu time 0.03 seconds

```
11 Proc print data=weights;  
12  
13
```

NOTE: There were 167 observations read from the data set WORK.WEIGHTS.

NOTE: PROCEDURE PRINT used:  
real time 0.44 seconds  
cpu time 0.14 seconds

```
14 DATA MDCD;  
15 INFILE DATACOLL truncover;  
16 INPUT  
17 @1 DATE MMDDYY8.  
18 @10 RTEZIP 7.2  
19 @18 SCANZIP 7.2  
20 @28 ROUTENO $2.  
21 @30 EMP $4.  
22 @34 CTIME $8.  
23 @42 ONFRAME 1.  
24 @43 DELMODE $1.  
25 @44 BARCODE 3.  
26 @47 BCURB 5.  
27 @52 BNDCBU 5.  
28 @57 BCENT 5.  
29 @62 BOTHR 5.  
30 @67 RCURB 5.  
31 @72 RNDCBU 5.  
32 @77 RCENT 5.  
33 @82 ROTH 5.  
34 @87 ROUTE $8.;  
35 TOD=INPUT(CTIME,TIME8.);  
36 IF DELMODE = ' ' THEN DELMODE = 'X';  
37 *****;  
38 **** GENERATE SCAN PAIRS ***;  
39 *****;  
40  
41 *THIS GROUP OF CODE NUMBERS EACH OBSERVATION IN  
42 A DATE/ZIP/ROUTE/EMP SEQUENTIALLY;
```

NOTE: The infile DATACOLL is:

File Name=C:\Documents and Settings\nkay\My Documents\POSTAL on  
Nkay\SASfiles\LR-79\MDCD.ARCHIVE.SUBSET.V4MASK.DATA,  
RECFM=V,LRECL=256

NOTE: 1317755 records were read from the infile DATACOLL.  
The minimum record length was 86.  
The maximum record length was 94.

NOTE: The data set WORK.MDCD has 1317755 observations and 19 variables.

NOTE: DATA statement used:  
real time 26.86 seconds

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cpu time 13.39 seconds

```
43 PROC SORT DATA=MDCD; BY DATE SCANZIP ROUTE EMP TOD;
44
45 *****;
46 **** LOOK AT SCAN PAIRS AND DETERMINE IF VALID/INVALID ****;
47 **** SAVE PRIOR TWO RECORD VARS FOR LATER USE ****;
48 *****;
```

NOTE: There were 1317755 observations read from the data set WORK.MDCD.

NOTE: The data set WORK.MDCD has 1317755 observations and 19 variables.

NOTE: PROCEDURE SORT used:

real time 1:00.83  
cpu time 8.45 seconds

```
49 DATA M; SET MDCD; BY DATE SCANZIP ROUTE EMP;
50 INFORMAT PTOD ETOD TIME8.;
51 IF FIRST.EMP THEN DO;
52 PZIP=.;
53 PROUTE = " ";
54 PEMP= " ";
55 PDATE = .;
56 PTOD = .;
57 PBARCODE = .;
58 END;
59 ETOD = TOD-PTOD ;
60 ZIP1 = PZIP;
61 ROUTE1 = PROUTE;
62 EMP1 = PEMP;
63 DATE1 = PDATE;
64 BARCODE1 = PBARCODE;
65 PZIP = SCANZIP;
66 PROUTE = ROUTE;
67 PEMP = EMP;
68 PDATE = DATE;
69 PTOD = TOD ;
70 PBARCODE = BARCODE;
71 RETAIN PZIP PROUTE PDATE PTOD PEMP PBARCODE;
72
73 IF ETOD = . THEN DELETE;
74 TIMEDAY=PUT(TOD,TIME.);
75 PTIME=PUT(PTOD,TIME.);
```

NOTE: Missing values were generated as a result of performing an operation on missing values.

Each place is given by: (Number of times) at (Line):(Column).

41692 at 59:16

NOTE: There were 1317755 observations read from the data set WORK.MDCD.

NOTE: The data set WORK.M has 1276063 observations and 33 variables.

NOTE: DATA statement used:

real time 41.86 seconds  
cpu time 9.49 seconds

```
76 PROC DATASETS;
```

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-----Directory-----

```

Libref:          WORK
Engine:          V8
Physical Name:   C:\DOCUME~1\nkay\LOCALS~1\Temp\SAS Temporary
Files\_TD236
File Name:       C:\DOCUME~1\nkay\LOCALS~1\Temp\SAS Temporary
Files\_TD236
    
```

| # | Name    | Memtype | File Size | Last Modified      |
|---|---------|---------|-----------|--------------------|
| 1 | M       | DATA    | 290391040 | 24MAY2005:15:07:21 |
| 2 | MDCD    | DATA    | 179921920 | 24MAY2005:15:06:40 |
| 3 | POOLS   | DATA    | 17408     | 24MAY2005:15:05:13 |
| 4 | WEIGHTS | DATA    | 5120      | 24MAY2005:15:05:13 |

```

76 !          DELETE MDCD;
77
78 *****;
79 *** FIRST GO THROUGH SCANS AND FIX DUPLICATE ***;
80 *** BARCODE NUMBER PROBLEM FOR COLLECTION BARCODES ***;
81 *** PROBLEM WAS DUE TO INCORRECT BARCODES IN EARLY ***;
82 *** VERSION OF TRAINING BOOKLET ***;
83 *****;
    
```

```

NOTE: Deleting WORK.MDCD (memtype=DATA).
NOTE: PROCEDURE DATASETS used:
      real time          1.06 seconds
      cpu time           0.05 seconds
    
```

```

84 DATA M; SET M;
85 RETAIN GENCOLL EXPCOLL CNTGEN CNTEXP GENEND EXPEND 0;
86 IF BARCODE1=322 AND BARCODE=353 THEN BARCODE=391;
87 IF BARCODE1=339 AND BARCODE=360 THEN BARCODE=407;
88 IF BARCODE1=360 AND LAG1(BARCODE)=407 THEN BARCODE1=407;
89 IF BARCODE1=353 AND LAG1(BARCODE)=391 THEN BARCODE1=391;
90 IF BARCODE1=322 AND
91     (BARCODE=70 OR BARCODE=87 OR BARCODE=32 OR
92     BARCODE=94) THEN GENCOLL=1;
93     ELSE GENCOLL=0;
94 IF BARCODE1=339 AND
95     (BARCODE=70 OR BARCODE=87 OR BARCODE=32 OR
96     BARCODE=94) THEN EXPCOLL=1;
97     ELSE EXPCOLL=0;
98 IF GENCOLL=1 AND
99     (BARCODE=100 OR BARCODE=117 OR BARCODE=124
100     OR BARCODE=63) THEN GENCOLL=1;
101     ELSE GENCOLL=0;
102 IF EXPCOLL=1 AND
103     (BARCODE=100 OR BARCODE=117 OR BARCODE=124
104     OR BARCODE=63) THEN EXPCOLL=1;
    
```

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```

105             ELSE EXPCOLL=0;
106 IF GENCOLL=1 AND BARCODE=353 AND
107     (BARCODE1=100 OR BARCODE1=117 OR BARCODE1=124
108     OR BARCODE1=63) THEN DO;
109     BARCODE=391;
110     GENCOLL=0;
111     END;
112 IF EXPCOLL=1 AND BARCODE=360 AND
113     (BARCODE1=100 OR BARCODE1=117 OR BARCODE1=124
114     OR BARCODE1=63) THEN DO;
115     BARCODE=407;
116     EXPCOLL=0;
117     END;
118 DROP GENCOLL EXPCOLL;
119     /*NOT A LUNCH/BREAK/EMG OR AN END COLLECTION - NOT
120     ALLOWED AFTER START COLLECTION*/
121     * END FIX DUPLICATE BARCODES;
122     ****;
123     ***   MERGE IN COST POOL DEFINITIONS   ***;
124     ***   NEED TO CHOOSE FROM ALTERNATE DEFINITION   ***;
125     ***   FOR CERTAIN SCANS BASED ON WHETHER INSIDE   ***;
126     ***   OR OUTSIDE A ROUTE SECTION   ***;
127     ***   OR OTHER CONDITIONS   ***;
128     ****;
129

```

NOTE: There were 1276063 observations read from the data set WORK.M.  
NOTE: The data set WORK.M has 1276063 observations and 37 variables.  
NOTE: DATA statement used:

|           |               |
|-----------|---------------|
| real time | 50.21 seconds |
| cpu time  | 5.02 seconds  |

```

130     PROC SORT DATA=M; BY BARCODE1 BARCODE;

```

NOTE: There were 1276063 observations read from the data set WORK.M.  
NOTE: The data set WORK.M has 1276063 observations and 37 variables.  
NOTE: PROCEDURE SORT used:

|           |               |
|-----------|---------------|
| real time | 6:01.63       |
| cpu time  | 19.48 seconds |

```

131     PROC SORT DATA=POOLS; BY BARCODE1 BARCODE;

```

NOTE: There were 532 observations read from the data set WORK.POOLS.  
NOTE: The data set WORK.POOLS has 532 observations and 3 variables.  
NOTE: PROCEDURE SORT used:

|           |              |
|-----------|--------------|
| real time | 0.12 seconds |
| cpu time  | 0.01 seconds |

```

132     DATA MPOOL; MERGE M (IN=MM) POOLS; BY BARCODE1 BARCODE;
133     IF MM=1;

```

NOTE: There were 1276063 observations read from the data set WORK.M.  
NOTE: There were 532 observations read from the data set WORK.POOLS.

# RESPONSE OF POSTAL SERVICE WITNESS STEVENS TO POIR NO. 5, QUESTION 1

NOTE: The data set WORK.MPOOL has 1276063 observations and 38 variables.

NOTE: DATA statement used:  
 real time 1:04.70  
 cpu time 7.20 seconds

134 PROC DATASETS;

-----Directory-----

```

      Libref:      WORK
      Engine:      V8
      Physical Name: C:\DOCUME~1\nkay\LOCALS~1\Temp\SAS Temporary
Files\_TD236
      File Name:   C:\DOCUME~1\nkay\LOCALS~1\Temp\SAS Temporary
Files\_TD236
  
```

|  | # | Name      | Memtype | File Size | Last Modified |
|--|---|-----------|---------|-----------|---------------|
| ff | 1 | M         | DATA    | 331875328 |               |
| 24MAY2005:15:14:16   |   |           |         |           |               |
|  | 2 | MPOOL     | DATA    | 342754304 |               |
| 24MAY2005:15:15:19   |   |           |         |           |               |
|  | 3 | POOLS     | DATA    | 17408     |               |
| 24MAY2005:15:14:16   |   |           |         |           |               |
|  | 4 | WEIGHTS   | DATA    | 5120      |               |
| 24MAY2005:15:05:13   |   |           |         |           |               |
| 134!   |   | DELETE M; |         |           |               |

NOTE: Deleting WORK.M (memtype=DATA).  
 NOTE: PROCEDURE DATASETS used:  
 real time 0.44 seconds  
 cpu time 0.06 seconds

```

135 PROC SORT DATA=MPOOL; BY DATE RTEZIP ROUTE EMP TOD;
136 *****;
137 *** SET FLAGS FOR DETERMINING COST POOL ***;
138 *** WHEN ALTERNATE ASSIGNMENTS POSSIBLE ***;
139 *** INSIDE ROUTE SECTION: ***;
140 *** ENDS AT END SECTION OR ANY OTHER START SECTION ***;
141 *** SECTIONS: START END ***;
142 *** FOOT (P&L) 148 179 ***;
143 *** CURBLINE 155 186 ***;
144 *** CENTRAL 209 230 ***;
145 *** DISMOUNT 261 292 ***;
146 *** VIM 216 247 ***;
147 *** NDCBU 193 223 ***;
148 *** IN AN ACTIVITY: ***;
149 *** ENDS AT AN END ACTIVITY OR ANY NON-ADMIN SCAN ***;
150 *** ACTIVITY START END ***;
151 *** RELAY 315 346 ***;
152 *** GENERAL COLLECTION 322 391 ***;
153 *** EXPRESS COLLECTION 339 407 ***;
154 *** PARCEL DELIVERY 353 377 ***;
  
```



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```

155   ***   ACCOUNTABLE DEL   360           384           ***;
156   ***   OTHER FLAGS:           ***;
157   ***   LEAVE OFFICE           25           ***;
158   ***   AT DEV PARK PT   254           285           ***;
159   *****

```

NOTE: There were 1276063 observations read from the data set WORK.MPOOL.

NOTE: The data set WORK.MPOOL has 1276063 observations and 38 variables.

NOTE: PROCEDURE SORT used:

```

      real time           9:42.38
      cpu time            22.73 seconds

```

```

160   DATA MPOOL; SET MPOOL; BY DATE RTEZIP ROUTE EMP;
161   RETAIN FOOT CURB CENT MOUNT VIM NDCBU
162         RELAY GENCOLL EXPCOLL PARC ACCT DEVPKPT
163         LEAVEOFC 0;
164   POOL = CP;
165   IF POOL= '          ' THEN POOL='NA';
166   ELSE IF POOL=' ' THEN POOL='NA';
167   *****;
168   *SOME COST POOL ASSIGNMENTS ARE CONDITIONAL BASED ON INSIDE ;
169   *OUTSIDE ROUTE SECTION OR OTHER CONDITIONS.  FIRST SET FLAGS;
170   *TO KNOW WHAT ROUTE SECTION/ACTIVITY IS CURRENT ;
171   *****;
172
173       IF FIRST.EMP THEN DO;
174           FOOT=0; CURB=0; CENT=0; MOUNT=0; VIM=0; NDCBU=0;
175           RELAY=0; GENCOLL=0; EXPCOLL=0; PARC=0; ACCT=0;
176           LEAVEOFC=0; DEVPKPT=0;
177           END;
178
179       *START ROUTE SECTION;
180       IF BARCODE1= 148 THEN DO;  *FOOT/LOOP SECTION START;
181           FOOT=1; CURB=0; CENT=0; MOUNT=0; VIM=0; NDCBU=0;
182           RELAY=0; GENCOLL=0; EXPCOLL=0; PARC=0; ACCT=0;
183           END;
184       IF BARCODE1= 155 THEN DO;  *MOUNTED-CURBLINE;
185           FOOT=0; CURB=1; CENT=0; MOUNT=0; VIM=0; NDCBU=0;
186           RELAY=0; GENCOLL=0; EXPCOLL=0; PARC=0; ACCT=0;
187           END;
188       IF BARCODE1= 193 THEN DO;  *NDCBU;
189           FOOT=0; CURB=0; CENT=0; MOUNT=0; VIM=0; NDCBU=1;
190           RELAY=0; GENCOLL=0; EXPCOLL=0; PARC=0; ACCT=0;
191           END;
192       IF BARCODE1= 209 THEN DO;  *CENTRAL;
193           FOOT=0; CURB=0; CENT=1; MOUNT=0; VIM=0; NDCBU=0;
194           RELAY=0; GENCOLL=0; EXPCOLL=0; PARC=0; ACCT=0;
195           END;
196       IF BARCODE1= 216 THEN DO;  *VIM;
197           FOOT=0; CURB=0; CENT=0; MOUNT=0; VIM=1; NDCBU=0;
198           RELAY=0; GENCOLL=0; EXPCOLL=0; PARC=0; ACCT=0;
199           END;
200       IF BARCODE1= 261 THEN DO;  *DISMOUNT;
201           FOOT=0; CURB=0; CENT=0; MOUNT=1; VIM=0; NDCBU=0;

```

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```
202             RELAY=0; GENCOLL=0; EXPCOLL=0; PARC=0; ACCT=0;
203             END;
204
205             *START ACTIVITY;
206             IF BARCODE1=315 THEN RELAY=1;
207             IF BARCODE1=322 THEN GENCOLL=1;
208             IF BARCODE1=339 THEN EXPCOLL=1;
209             IF BARCODE1=353 THEN PARC=1;
210             IF BARCODE1=360 THEN ACCT=1;
211             IF BARCODE1=25 THEN LEAVEOFC=1;
212
213             *ARRIVE AND LEAVE DEVIATION PARK POINT;
214             IF BARCODE1=254 THEN DEVPKPT=1;  *ARRIVAL AT DEV PK PT;
215             IF BARCODE1=285 THEN DEVPKPT=2;  *LEAVE DEV PK PT;
216
217             *FINISH ROUTE SECTION - ALL ACTIVITIES END TOO;
218             IF BARCODE1= 179 OR BARCODE1=186 OR BARCODE1=223 OR
219             BARCODE1=230 OR BARCODE1=247 OR BARCODE1=292 THEN DO;
220             *FINISH SECTION;
221             FOOT=0; CURB=0; CENT=0; MOUNT=0; VIM=0; NDCBU=0;
222             RELAY=0; GENCOLL=0; EXPCOLL=0; PARC=0; ACCT=0;
223             DEVPKPT=0; LEAVEOFC=0;
224             END;
225
226             *END ACTIVITY  END IF REACH END ACTIVITY SCAN OR ANY
227             NON-ADMIN SCAN;
228             IF RELAY=1 THEN DO;
229             IF BARCODE1=315 THEN RELAY=1;
230             ELSE IF BARCODE1=346 THEN RELAY=0;
231             ELSE IF BARCODE1= 32 THEN RELAY=1;
232             ELSE IF BARCODE1= 63 THEN RELAY=1;
233             ELSE IF BARCODE1= 70 THEN RELAY=1;
234             ELSE IF BARCODE1= 87 THEN RELAY=1;
235             ELSE IF BARCODE1= 94 THEN RELAY=1;
236             ELSE IF BARCODE1= 100 THEN RELAY=1;
237             ELSE IF BARCODE1= 117 THEN RELAY=1;
238             ELSE IF BARCODE1= 124 THEN RELAY=1;
239             ELSE RELAY=0;
240             END;
241             IF GENCOLL=1 THEN DO;
242             IF BARCODE1=322 THEN GENCOLL=1;
243             ELSE IF BARCODE1=391 THEN GENCOLL=0;
244             ELSE IF BARCODE1= 32 THEN GENCOLL=1;
245             ELSE IF BARCODE1= 63 THEN GENCOLL=1;
246             ELSE IF BARCODE1= 100 THEN GENCOLL=1;
247             ELSE IF BARCODE1= 117 THEN GENCOLL=1;
248             ELSE IF BARCODE1= 124 THEN GENCOLL=1;
249             ELSE IF BARCODE1= 94 THEN GENCOLL=1;
250             ELSE IF BARCODE1= 87 THEN GENCOLL=1;
251             ELSE IF BARCODE1= 70 THEN GENCOLL=1;
252             ELSE GENCOLL=0;
253             END;
254             IF EXPCOLL=1 THEN DO;
255             IF BARCODE1=339 THEN EXPCOLL=1;
256             ELSE IF BARCODE1=407 THEN EXPCOLL=0;
257             ELSE IF BARCODE1= 32 THEN EXPCOLL=1;
258             ELSE IF BARCODE1= 63 THEN EXPCOLL=1;
```

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```
259         ELSE IF BARCODE1=100 THEN EXPCOLL=1;
260         ELSE IF BARCODE1=117 THEN EXPCOLL=1;
261         ELSE IF BARCODE1=124 THEN EXPCOLL=1;
262         ELSE IF BARCODE1= 94 THEN EXPCOLL=1;
263         ELSE IF BARCODE1= 87 THEN EXPCOLL=1;
264         ELSE IF BARCODE1= 70 THEN EXPCOLL=1;
265         ELSE EXPCOLL=0;
266         END;
267     IF PARC=1 THEN DO;
268         IF BARCODE1=353 THEN PARC=1;
269         ELSE IF BARCODE1=377 THEN PARC=0;
270         ELSE IF BARCODE1= 32 THEN PARC=1;
271         ELSE IF BARCODE1= 63 THEN PARC=1;
272         ELSE IF BARCODE1= 100 THEN PARC=1;
273         ELSE IF BARCODE1= 117 THEN PARC=1;
274         ELSE IF BARCODE1= 124 THEN PARC=1;
275         ELSE IF BARCODE1= 94 THEN PARC=1;
276         ELSE IF BARCODE1= 70 THEN PARC=1;
277         ELSE IF BARCODE1= 87 THEN PARC=1;
278         ELSE PARC=0;
279     END;
280     IF ACCT=1 THEN DO;
281         IF BARCODE1=360 THEN ACCT=1;
282         ELSE IF BARCODE1=384 THEN ACCT=0;
283         ELSE IF BARCODE1= 32 THEN ACCT=1;
284         ELSE IF BARCODE1= 63 THEN ACCT=1;
285         ELSE IF BARCODE1= 70 THEN ACCT=1;
286         ELSE IF BARCODE1= 100 THEN ACCT=1;
287         ELSE IF BARCODE1= 117 THEN ACCT=1;
288         ELSE IF BARCODE1= 124 THEN ACCT=1;
289         ELSE IF BARCODE1= 94 THEN ACCT=1;
290         ELSE IF BARCODE1= 87 THEN ACCT=1;
291         ELSE ACCT=0;
292     END;
293     *END LEAVE OFFICE AS SOON AS REACH ANY NON-ADMIN SCAN
294     AFTER LEAVING OFFICE;
295     IF LEAVEOFC=1 THEN DO;
296         IF BARCODE1=25 THEN LEAVEOFC=1;
297         ELSE IF BARCODE1= 70 THEN LEAVEOFC=1;
298         ELSE IF BARCODE1= 32 THEN LEAVEOFC=1;
299         ELSE IF BARCODE1= 63 THEN LEAVEOFC=1;
300         ELSE IF BARCODE1= 100 THEN LEAVEOFC=1;
301         ELSE IF BARCODE1= 117 THEN LEAVEOFC=1;
302         ELSE IF BARCODE1= 124 THEN LEAVEOFC=1;
303         ELSE IF BARCODE1= 94 THEN LEAVEOFC=1;
304         ELSE IF BARCODE1= 87 THEN LEAVEOFC=1;
305         ELSE LEAVEOFC=0;
306     END;
307     *END DEVIATION PARK POINT AS SOON AS REACH ANY NON-ADMIN
308     SCAN AFTER A DEVIATION PARK POINT SCAN;
309     IF DEVPKPT=1 OR DEVPKPT=2 THEN DO;
310         IF BARCODE1= 70 THEN DEVPKPT=DEVPKPT;
311         ELSE IF BARCODE1= 32 THEN DEVPKPT=DEVPKPT;
312         ELSE IF BARCODE1= 63 THEN DEVPKPT=DEVPKPT;
313         ELSE IF BARCODE1= 100 THEN DEVPKPT=DEVPKPT;
314         ELSE IF BARCODE1= 117 THEN DEVPKPT=DEVPKPT;
315         ELSE IF BARCODE1= 124 THEN DEVPKPT=DEVPKPT;
```

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```
316         ELSE IF BARCODE1= 94 THEN DEVPKPT=DEVPKPT;
317         ELSE IF BARCODE1= 87 THEN DEVPKPT=DEVPKPT;
318         ELSE DEVPKPT=0;
319         END;
320
*****;
321         ***   FLAGS ALL SET   NOW GO THROUGH SCAN PAIRS AND
***;
322         ***   ASSIGN COST POOLS BASED ON FLAGS IF NEEDED
***;
323
*****;
324
325         *END ADMIN START ANOTHER ADMIN;
326         IF (BARCODE1=63 AND BARCODE=32) OR
327         (BARCODE1=63 AND BARCODE=70) OR
328         (BARCODE1=63 AND BARCODE=87) OR
329         (BARCODE1=63 AND BARCODE=94) OR
330         (BARCODE1=100 AND BARCODE=32) OR
331         (BARCODE1=100 AND BARCODE=70) OR
332         (BARCODE1=100 AND BARCODE=87) OR
333         (BARCODE1=100 AND BARCODE=94) OR
334         (BARCODE1=117 AND BARCODE=32) OR
335         (BARCODE1=117 AND BARCODE=70) OR
336         (BARCODE1=117 AND BARCODE=87) OR
337         (BARCODE1=117 AND BARCODE=94) OR
338         (BARCODE1=124 AND BARCODE=32) OR
339         (BARCODE1=124 AND BARCODE=70) OR
340         (BARCODE1=124 AND BARCODE=87) OR
341         (BARCODE1=124 AND BARCODE=94) THEN DO;
342         IF RELAY=1 THEN          POOL= 'RELAY' ;
343         ELSE IF GENCOLL=1 THEN POOL= 'GENCOLL' ;
344         ELSE IF EXPCOLL=1 THEN POOL= 'EXPCOLL' ;
345         ELSE IF PARC=1 THEN      POOL= 'PARCEL' ;
346         ELSE IF ACCT=1 THEN      POOL= 'ACCOUNT' ;
347         ELSE IF FOOT=1 THEN      POOL= 'LOOPFOOT' ;
348         ELSE IF CURB=1 THEN      POOL= 'CURBLINE' ;
349         ELSE IF CENT=1 THEN      POOL= 'CENTRAL' ;
350         ELSE IF MOUNT=1 THEN     POOL= 'DISMOUNT' ;
351         ELSE IF VIM=1 THEN       POOL= 'VIM' ;
352         ELSE IF NDCBU=1 THEN     POOL= 'NDCBU' ;
353         ELSE IF (FOOT=0 AND CURB=0 AND CENT=0 AND
354         MOUNT=0 AND VIM=0 AND NDCBU=0 AND
355         LEAVEOFC=0) THEN POOL= 'NETWORK' ;
356         ELSE IF (FOOT=0 AND CURB=0 AND CENT=0 AND
357         MOUNT=0 AND VIM=0 AND NDCBU=0 AND
358         LEAVEOFC=1) THEN POOL= 'TOFROM' ;
359         ELSE IF DEVPKPT=2 THEN POOL= 'DDTRAVEL' ;
360         ELSE IF DEVPKPT=1 THEN POOL= 'PARCACCT' ;
361         ELSE POOL= 'NA' ;
362         END;
363
364         /*END ADMIN - START SECTION*/
365         IF (BARCODE1=63 AND BARCODE=148) OR
366         (BARCODE1=63 AND BARCODE=155) OR
367         (BARCODE1=63 AND BARCODE=193) OR
368         (BARCODE1=63 AND BARCODE=209) OR
```

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```
369          (BARCODE1=63 AND BARCODE=216) OR
370          (BARCODE1=63 AND BARCODE=261) OR
371          (BARCODE1=100 AND BARCODE=148) OR
372          (BARCODE1=100 AND BARCODE=155) OR
373          (BARCODE1=100 AND BARCODE=193) OR
374          (BARCODE1=100 AND BARCODE=209) OR
375          (BARCODE1=100 AND BARCODE=216) OR
376          (BARCODE1=100 AND BARCODE=261) OR
377          (BARCODE1=117 AND BARCODE=148) OR
378          (BARCODE1=117 AND BARCODE=155) OR
379          (BARCODE1=117 AND BARCODE=193) OR
380          (BARCODE1=117 AND BARCODE=209) OR
381          (BARCODE1=117 AND BARCODE=216) OR
382          (BARCODE1=117 AND BARCODE=261) OR
383          (BARCODE1=124 AND BARCODE=148) OR
384          (BARCODE1=124 AND BARCODE=155) OR
385          (BARCODE1=124 AND BARCODE=193) OR
386          (BARCODE1=124 AND BARCODE=209) OR
387          (BARCODE1=124 AND BARCODE=216) OR
388          (BARCODE1=124 AND BARCODE=261) THEN DO;
389          IF LEAVEOFC=1 THEN POOL = 'TOFROM' ;
390          ELSE IF DEVPKPT=2 THEN POOL = 'DDTRAVEL' ;
391          ELSE IF (CURB=0 AND CENT=0 AND MOUNT=0 AND
392                 VIM=0 AND NDCBU=0 AND FOOT=0) THEN
393                 POOL= 'NETWORK' ;
394          ELSE POOL = 'NA' ;
395          END;
396
397          *END ADMIN - ARRIVE DEVIATION PARK POINT;
398          IF (BARCODE1=63 AND BARCODE=254) OR
399          (BARCODE1=100 AND BARCODE=254) OR
400          (BARCODE1=117 AND BARCODE=254) OR
401          (BARCODE1=124 AND BARCODE=254) THEN DO;
402          IF FOOT=1 THEN POOL = 'LOOPFOOT' ;
403          ELSE IF CURB=1 THEN POOL = 'CURBLINE' ;
404          ELSE IF CENT=1 THEN POOL = 'CENTRAL' ;
405          ELSE IF MOUNT=1 THEN POOL = 'DISMOUNT' ;
406          ELSE IF VIM=1 THEN POOL = 'VIM' ;
407          ELSE IF NDCBU=1 THEN POOL = 'NDCBU' ;
408          ELSE IF LEAVEOFC=1 THEN POOL = 'TOFROM' ;
409          ELSE IF (CURB=0 AND CENT=0 AND MOUNT=0 AND
410                 VIM=0 AND NDCBU=0 AND FOOT=0) OR
411                 DEVPKPT=2 THEN
412                 POOL='DDTRAVEL' ;
413          ELSE IF RELAY=1 OR PARC=1 OR ACCT=1 OR
414                 GENCOLL=1 OR EXPCOLL=1
415                 THEN POOL = 'NA' ;
416          ELSE POOL='DDTRAVEL' ;
417          END;
418
419          *END ADMIN - START RELAY, GEN COLL, EXP COLL;
420          IF (BARCODE1=63 AND BARCODE=315) OR
421          (BARCODE1=63 AND BARCODE=322) OR
422          (BARCODE1=63 AND BARCODE=339) OR
423          (BARCODE1=100 AND BARCODE=315) OR
424          (BARCODE1=100 AND BARCODE=322) OR
425          (BARCODE1=100 AND BARCODE=339) OR
```

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```
426          (BARCODE1=117 AND BARCODE=315) OR
427          (BARCODE1=117 AND BARCODE=322) OR
428          (BARCODE1=117 AND BARCODE=339) OR
429          (BARCODE1=124 AND BARCODE=315) OR
430          (BARCODE1=124 AND BARCODE=322) OR
431          (BARCODE1=124 AND BARCODE=339) THEN DO;
432          IF FOOT=1 THEN POOL = 'LOOPFOOT';
433          ELSE IF CURB=1 THEN POOL = 'CURBLINE';
434          ELSE IF CENT=1 THEN POOL = 'CENTRAL';
435          ELSE IF MOUNT=1 THEN POOL = 'DISMOUNT';
436          ELSE IF VIM=1 THEN POOL = 'VIM';
437          ELSE IF NDCBU=1 THEN POOL = 'NDCBU';
438          ELSE IF LEAVEOFC=1 THEN POOL = 'TOFROM';
439          ELSE IF DEVPKPT=2 THEN POOL= 'DDTRAVEL';
440          ELSE IF (CURB=0 AND CENT=0 AND MOUNT=0 AND
441                  VIM=0 AND NDCBU=0 AND FOOT=0 AND
442                  RELAY=0 AND GENCOLL=0 AND EXPCOLL=0
443                  AND PARC=0 AND ACCT=0) THEN
444                  POOL='NETWORK';
445          ELSE      POOL='NA';
446          END;
447
448          *END ADMIN - START PARCEL OR ACCT DELIVERY;
449          IF (BARCODE1=63 AND BARCODE=353) OR
450          (BARCODE1=100 AND BARCODE=353) OR
451          (BARCODE1=117 AND BARCODE=353) OR
452          (BARCODE1=124 AND BARCODE=353) THEN DO;
453          IF DEVPKPT=1 THEN POOL = 'PARCEL';
454          ELSE IF FOOT=1 THEN POOL = 'LOOPFOOT';
455          ELSE IF CURB=1 THEN POOL = 'CURBLINE';
456          ELSE IF CENT=1 THEN POOL = 'CENTRAL';
457          ELSE IF MOUNT=1 THEN POOL = 'DISMOUNT';
458          ELSE IF VIM=1 THEN POOL = 'VIM';
459          ELSE IF NDCBU=1 THEN POOL = 'NDCBU';
460          ELSE IF LEAVEOFC=1 THEN POOL = 'TOFROM';
461          ELSE IF DEVPKPT=2 THEN POOL= 'DDTRAVEL';
462          ELSE IF (CURB=0 AND CENT=0 AND MOUNT=0 AND
463                  VIM=0 AND NDCBU=0 AND FOOT=0 AND
464                  RELAY=0 AND GENCOLL=0 AND EXPCOLL=0
465                  AND PARC=0 AND ACCT=0) THEN
466                  POOL='NETWORK';
467          ELSE POOL='NA';
468          END;
469
470          IF (BARCODE1=63 AND BARCODE=360) OR
471          (BARCODE1=100 AND BARCODE=360) OR
472          (BARCODE1=117 AND BARCODE=360) OR
473          (BARCODE1=124 AND BARCODE=360) THEN DO;
474          IF DEVPKPT=1 THEN POOL = 'ACCOUNT';
475          ELSE IF FOOT=1 THEN POOL = 'LOOPFOOT';
476          ELSE IF CURB=1 THEN POOL = 'CURBLINE';
477          ELSE IF CENT=1 THEN POOL = 'CENTRAL';
478          ELSE IF MOUNT=1 THEN POOL = 'DISMOUNT';
479          ELSE IF VIM=1 THEN POOL = 'VIM';
480          ELSE IF NDCBU=1 THEN POOL = 'NDCBU';
481          ELSE IF LEAVEOFC=1 THEN POOL = 'TOFROM';
482          ELSE IF DEVPKPT=2 THEN POOL= 'DDTRAVEL';
```

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```
483         ELSE IF (CURB=0 AND CENT=0 AND MOUNT=0 AND
484                 VIM=0 AND NDCBU=0 AND FOOT=0 AND
485                 RELAY=0 AND GENCOLL=0 AND EXPCOLL=0
486                 AND PARC=0 AND ACCT=0) THEN
487                 POOL='NETWORK';
488         ELSE POOL='NA';
489         END;
490
491     *END ADMIN - END SECTION;
492     IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
493         BARCODE1=124) AND BARCODE=179 THEN DO;
494         IF FOOT=1 THEN POOL = 'LOOPFOOT';
495         ELSE POOL='NA';
496         END;
497     IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
498         BARCODE1=124) AND BARCODE=186 THEN DO;
499         IF CURB=1 THEN POOL = 'CURBLINE';
500         ELSE POOL='NA';
501         END;
502
503     IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
504         BARCODE1=124) AND BARCODE=223 THEN DO;
505         IF NDCBU=1 THEN POOL = 'NDCBU';
506         ELSE POOL='NA';
507         END;
508
509     IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
510         BARCODE1=124) AND BARCODE=230 THEN DO;
511         IF CENT=1 THEN POOL = 'CENTRAL';
512         ELSE POOL='NA';
513         END;
514
515     IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
516         BARCODE1=124) AND BARCODE=247 THEN DO;
517         IF VIM=1 THEN POOL = 'VIM';
518         ELSE POOL='NA';
519         END;
520
521     IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
522         BARCODE1=124) AND BARCODE=292 THEN DO;
523         IF MOUNT=1 THEN POOL = 'DISMOUNT';
524         ELSE POOL='NA';
525         END;
526
527     *END ADMIN - LEAVE DEVIATION PARK POINT;
528     IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
529         BARCODE1=124) AND BARCODE=285 THEN DO;
530         IF DEVPKPT = 1 AND PARC=1 THEN DO;
531             POOL='PARCEL';
532             END;
533         ELSE IF DEVPKPT=1 AND ACCT=1 THEN DO;
534             POOL='ACCOUNT';
535             END;
536         ELSE POOL='NA';
537         END;
538
539     *END ADMIN - END ACTIVITY;
```

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```
540         IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
541             BARCODE1=124) AND BARCODE=346 THEN DO;
542             IF RELAY=1 THEN POOL='RELAY';
543             END;
544
545         IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
546             BARCODE1=124) AND BARCODE=377 THEN DO;
547             IF PARC=1 THEN POOL='PARCEL';
548             END;
549
550         IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
551             BARCODE1=124) AND BARCODE=384 THEN DO;
552             IF ACCT=1 THEN POOL='ACCOUNT';
553             END;
554
555         IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
556             BARCODE1=124) AND BARCODE=391 THEN DO;
557             IF GENCOLL=1 THEN POOL='GENCOLL';
558             END;
559
560         IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
561             BARCODE1=124) AND BARCODE=407 THEN DO;
562             IF EXPCOLL=1 THEN POOL='EXPCOLL';
563             END;
564
565         *LEAVE DEVIATION PARK PT - START ADMIN;
566         IF BARCODE1=285 AND (BARCODE=32 OR BARCODE=70 OR
567             BARCODE=87 OR BARCODE=94) THEN DO;
568             IF FOOT=1 THEN POOL = 'LOOPFOOT';
569             ELSE IF CURB=1 THEN POOL = 'CURBLINE';
570             ELSE IF CENT=1 THEN POOL = 'CENTRAL';
571             ELSE IF MOUNT=1 THEN POOL = 'DISMOUNT';
572             ELSE IF VIM=1 THEN POOL = 'VIM';
573             ELSE IF NDCBU=1 THEN POOL = 'NDCBU';
574             ELSE POOL = 'DDTRAVEL';
575             END;
576
577         *END ACTIVITY - START ADMIN;
578         IF (BARCODE1=346 OR BARCODE1=377 OR BARCODE1=384 OR
579             BARCODE1=391 OR BARCODE1=407) AND
580             (BARCODE=32 OR BARCODE=70 OR BARCODE=87 OR
581             BARCODE=94) THEN DO;
582             IF FOOT=1 THEN POOL = 'LOOPFOOT';
583             ELSE IF CURB=1 THEN POOL = 'CURBLINE';
584             ELSE IF CENT=1 THEN POOL = 'CENTRAL';
585             ELSE IF MOUNT=1 THEN POOL = 'DISMOUNT';
586             ELSE IF VIM=1 THEN POOL = 'VIM';
587             ELSE IF NDCBU=1 THEN POOL = 'NDCBU';
588             ELSE POOL = 'NETWORK';
589             END;
590
591         *END SECTION WHILE NOT IN SECTION IS ILLEGAL;
592         IF BARCODE = 179 AND FOOT=0 THEN POOL = 'NA';
593         IF BARCODE = 186 AND CURB=0 THEN POOL = 'NA';
594         IF BARCODE = 223 AND NDCBU=0 THEN POOL = 'NA';
595         IF BARCODE = 247 AND VIM=0 THEN POOL = 'NA';
596         IF BARCODE = 292 AND MOUNT=0 THEN POOL = 'NA';
```



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```

597         IF BARCODE = 230 AND CENT=0 THEN POOL = 'NA';
598
599         *START SECTION WHILE IN A SECTION IS ILLEGAL;
600         IF BARCODE=148 OR BARCODE=155 OR BARCODE=193 OR
601           BARCODE=209 OR BARCODE=216 OR BARCODE=261 THEN DO;
602           IF FOOT=1 OR CURB=1 OR NDCBU=1 OR
603             VIM=1 OR NDCBU=1 OR CENT=1 THEN POOL='NA';
604           END;
605
606         *END ACTIVITY /START ACTIVITY;
607         IF (BARCODE1=346 OR BARCODE1=377 OR BARCODE1=384 OR
608           BARCODE1=391 OR BARCODE1=407 ) AND
609           (BARCODE=315 OR BARCODE=322 OR
610           BARCODE=339 OR BARCODE=353 OR BARCODE=360) THEN DO;
611           IF FOOT=1 THEN POOL='LOOPFOOT';
612           ELSE IF CURB=1 THEN POOL='CURBLINE';
613           ELSE IF CENT=1 THEN POOL='CENTRAL';
614           ELSE IF MOUNT=1 THEN POOL='DISMOUNT';
615           ELSE IF VIM=1 THEN POOL='VIM';
616           ELSE IF NDCBU=1 THEN POOL='NDCBU';
617           ELSE POOL='NETWORK';
618           END;
619
620         *LEAVE DEVIATION PARK PK - START ACTIVITY;
621         IF BARCODE1=285 AND
622           (BARCODE=254 OR BARCODE=315 OR BARCODE=322 OR
623           BARCODE=339 OR BARCODE=353 OR BARCODE=360) THEN DO;
624           IF FOOT=1 THEN POOL='LOOPFOOT';
625           ELSE IF CURB=1 THEN POOL='CURBLINE';
626           ELSE IF CENT=1 THEN POOL='CENTRAL';
627           ELSE IF MOUNT=1 THEN POOL='DISMOUNT';
628           ELSE IF VIM=1 THEN POOL='VIM';
629           ELSE IF NDCBU=1 THEN POOL='NDCBU';
630           ELSE POOL = 'DDTRAVEL';
631           END;
632
633         *END ACTIVITY - ARRIVE DEVIATION PARK POINT;
634         IF (BARCODE1=346 OR BARCODE1=377 OR BARCODE1=384 OR
635           BARCODE1=391 OR BARCODE1=407) AND
636           BARCODE=254 THEN DO;
637           IF FOOT=1 THEN POOL='LOOPFOOT';
638           ELSE IF CURB=1 THEN POOL='CURBLINE';
639           ELSE IF CENT=1 THEN POOL='CENTRAL';
640           ELSE IF MOUNT=1 THEN POOL='DISMOUNT';
641           ELSE IF VIM=1 THEN POOL='VIM';
642           ELSE IF NDCBU=1 THEN POOL='NDCBU';
643           ELSE POOL = 'DDTRAVEL';
644           END;
645
646         * THESE TWO SCAN PAIRS ARE SET LEGAL;
647         IF BARCODE1=353 AND BARCODE=384 THEN POOL='PARCACCT';
648         IF BARCODE1=360 AND BARCODE=377 THEN POOL='PARCACCT';
649         *;
650         IF POOL='N/A      ' THEN POOL='NA';
651         *;
652         *****;
653         ***  SUMMARIZE COST POOL TOTALS BY ROUTE/DAY      ***;

```

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654 \*\*\*\*\*;

NOTE: There were 1276063 observations read from the data set  
WORK.MPOOL.

NOTE: The data set WORK.MPOOL has 1276063 observations and 52  
variables.

NOTE: DATA statement used:

real time 1:27.87  
cpu time 10.97 seconds

655 DATA MPOOL; SET MPOOL;  
656 DROP FOOT CURB CENT MOUNT VIM NDCBU DEVPKPT LEAVEOFC  
657 PARC ACCT RELAY GENCOLL EXPCOLL;  
658 OUTPUT;

NOTE: There were 1276063 observations read from the data set  
WORK.MPOOL.

NOTE: The data set WORK.MPOOL has 1276063 observations and 39  
variables.

NOTE: DATA statement used:

real time 2:11.98  
cpu time 6.45 seconds

659 PROC SORT DATA=MPOOL; BY DATE RTEZIP ROUTENO POOL;  
660 ;  
661 /\*FIRST SUM UP THE COST POOL TIME FOR EACH ROUTE DAY\*/

NOTE: There were 1276063 observations read from the data set  
WORK.MPOOL.

NOTE: The data set WORK.MPOOL has 1276063 observations and 39  
variables.

NOTE: PROCEDURE SORT used:

real time 5:18.25  
cpu time 21.67 seconds

662 PROC MEANS DATA=MPOOL NOPRINT;  
663 BY DATE RTEZIP ROUTENO POOL;  
664 VAR ETOD;  
665 OUTPUT OUT=MOUT SUM=;  
666 ;  
667 /\*ALSO SUM UP THE NUMBER OF DELIVERIES FOR EACH ROUTE DAY  
668 AND THE TOTAL TIME\*/

NOTE: There were 1276063 observations read from the data set  
WORK.MPOOL.

NOTE: The data set WORK.MOUT has 313571 observations and 7 variables.

NOTE: PROCEDURE MEANS used:

real time 6.23 seconds  
cpu time 2.18 seconds

669 PROC MEANS DATA=MPOOL NOPRINT;  
670 BY DATE RTEZIP ROUTENO;  
671 ID BCURB BNDCBU BCENT BOTHR RCURB RNBCBU RCENT ROTHM DELMODE;

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```
672 VAR ETOD;
673 OUTPUT OUT=TOTT SUM=TOTTIME;
674 *;
675 /*THIS NEXT SECTION GENERATES ONE RECORD FOR EACH ROUTE DAY,
676 WITH THE TOTAL TIME IN EACH COST POOL, AS WELL AS TOTAL
677 ROUTE DAY TIME AND ROUTE DELIVERIES*/
```

NOTE: There were 1276063 observations read from the data set  
WORK.MPOOL.

NOTE: The data set WORK.TOTT has 36290 observations and 15 variables.

NOTE: PROCEDURE MEANS used:

```
real time          1.97 seconds
cpu time           1.81 seconds
```

```
678 DATA LOOPFOOT CURBLINE NDCBU VIM CENTRAL DISMOUNT
679 NONSTRT PREP TOFROM NETWORK DDTRAVEL TRAVEL
680 RELAY GENCOLL EXPCOLL
681 PARCEL ACCOUNT PARCACCT OFFCLOCK NA ERROR;
682 SET MOUT;
683 IF POOL='NETWORK' THEN OUTPUT NETWORK;
684 ELSE IF POOL='DDTRAVEL' THEN OUTPUT DDTRAVEL;
685 ELSE IF POOL='LOOPFOOT' THEN OUTPUT LOOPFOOT;
686 ELSE IF POOL='CURBLINE' THEN OUTPUT CURBLINE;
687 ELSE IF POOL='NDCBU' THEN OUTPUT NDCBU;
688 ELSE IF POOL='VIM' THEN OUTPUT VIM;
689 ELSE IF POOL='CENTRAL' THEN OUTPUT CENTRAL;
690 ELSE IF POOL='DISMOUNT' THEN OUTPUT DISMOUNT;
691 ELSE IF POOL='NONSTRT' THEN OUTPUT NONSTRT;
692 ELSE IF POOL='PREP' THEN OUTPUT PREP;
693 ELSE IF POOL='OFFCLOCK' THEN OUTPUT OFFCLOCK;
694 ELSE IF POOL='TOFROM' THEN OUTPUT TOFROM;
695 ELSE IF POOL='RELAY' THEN OUTPUT RELAY;
696 ELSE IF POOL='GENCOLL' THEN OUTPUT GENCOLL;
697 ELSE IF POOL='EXPCOLL' THEN OUTPUT EXPCOLL;
698 ELSE IF POOL='PARCEL' THEN OUTPUT PARCEL;
699 ELSE IF POOL='ACCOUNT' THEN OUTPUT ACCOUNT;
700 ELSE IF POOL='TRAVEL' THEN OUTPUT TRAVEL;
701 ELSE IF POOL='PARCACCT' THEN OUTPUT PARCACCT;
702 ELSE IF POOL='NA' THEN OUTPUT NA;
703 ELSE OUTPUT ERROR;
```

NOTE: There were 313571 observations read from the data set WORK.MOUT.

NOTE: The data set WORK.LOOPFOOT has 22276 observations and 7  
variables.

NOTE: The data set WORK.CURBLINE has 14291 observations and 7  
variables.

NOTE: The data set WORK.NDCBU has 10323 observations and 7 variables.

NOTE: The data set WORK.VIM has 397 observations and 7 variables.

NOTE: The data set WORK.CENTRAL has 11775 observations and 7 variables.

NOTE: The data set WORK.DISMOUNT has 17003 observations and 7  
variables.

NOTE: The data set WORK.NONSTRT has 22764 observations and 7 variables.

NOTE: The data set WORK.PREP has 29369 observations and 7 variables.

NOTE: The data set WORK.TOFROM has 30749 observations and 7 variables.

NOTE: The data set WORK.NETWORK has 30514 observations and 7 variables.

NOTE: The data set WORK.DDTRAVEL has 4492 observations and 7 variables.

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NOTE: The data set WORK.TRAVEL has 10678 observations and 7 variables.  
NOTE: The data set WORK.RELAY has 3167 observations and 7 variables.  
NOTE: The data set WORK.GENCOLL has 2091 observations and 7 variables.  
NOTE: The data set WORK.EXPCOLL has 350 observations and 7 variables.  
NOTE: The data set WORK.PARCEL has 25788 observations and 7 variables.  
NOTE: The data set WORK.ACCOUNT has 22314 observations and 7 variables.  
NOTE: The data set WORK.PARCACCT has 4359 observations and 7 variables.  
NOTE: The data set WORK.OFFCLOCK has 24714 observations and 7 variables.

NOTE: The data set WORK.NA has 26157 observations and 7 variables.

NOTE: The data set WORK.ERROR has 0 observations and 7 variables.

NOTE: DATA statement used:  
real time 0.66 seconds  
cpu time 0.39 seconds

```
704 PROC PRINT DATA=ERROR (OBS=25);  
705 TITLE 'SCANS WITH NO COST POOL ASSIGNMENT';  
706 *;
```

NOTE: No observations in data set WORK.ERROR.

NOTE: PROCEDURE PRINT used:  
real time 0.05 seconds  
cpu time 0.01 seconds

```
707 DATA NETWORK; SET NETWORK; NETWORK=ETOD; DROP ETOD;
```

NOTE: There were 30514 observations read from the data set WORK.NETWORK.

NOTE: The data set WORK.NETWORK has 30514 observations and 7 variables.

NOTE: DATA statement used:  
real time 0.03 seconds  
cpu time 0.03 seconds

```
708 DATA DDTRAVEL; SET DDTRAVEL; DDTRAVEL=ETOD; DROP ETOD;
```

NOTE: There were 4492 observations read from the data set WORK.DDTRAVEL.

NOTE: The data set WORK.DDTRAVEL has 4492 observations and 7 variables.

NOTE: DATA statement used:  
real time 0.02 seconds  
cpu time 0.02 seconds

```
709 DATA LOOPFOOT; SET LOOPFOOT; LOOPFOOT=ETOD; DROP ETOD;
```

NOTE: There were 22276 observations read from the data set WORK.LOOPFOOT.

NOTE: The data set WORK.LOOPFOOT has 22276 observations and 7 variables.

NOTE: DATA statement used:  
real time 0.02 seconds  
cpu time 0.02 seconds

## RESPONSE OF POSTAL SERVICE WITNESS STEVENS TO POIR NO. 5, QUESTION 1

710 DATA CURBLINE; SET CURBLINE; CURBLINE=ETOD; DROP ETOD;

NOTE: There were 14291 observations read from the data set WORK.CURBLINE.

NOTE: The data set WORK.CURBLINE has 14291 observations and 7 variables.

NOTE: DATA statement used:

|           |              |
|-----------|--------------|
| real time | 0.02 seconds |
| cpu time  | 0.02 seconds |

711 DATA NDCBU; SET NDCBU; NDCBU=ETOD; DROP ETOD;

NOTE: There were 10323 observations read from the data set WORK.NDCBU.

NOTE: The data set WORK.NDCBU has 10323 observations and 7 variables.

NOTE: DATA statement used:

|           |              |
|-----------|--------------|
| real time | 0.02 seconds |
| cpu time  | 0.02 seconds |

712 DATA VIM; SET VIM; VIM=ETOD; DROP ETOD;

NOTE: There were 397 observations read from the data set WORK.VIM.

NOTE: The data set WORK.VIM has 397 observations and 7 variables.

NOTE: DATA statement used:

|           |              |
|-----------|--------------|
| real time | 0.01 seconds |
| cpu time  | 0.01 seconds |

713 DATA CENTRAL; SET CENTRAL; CENTRAL=ETOD; DROP ETOD;

NOTE: There were 11775 observations read from the data set WORK.CENTRAL.

NOTE: The data set WORK.CENTRAL has 11775 observations and 7 variables.

NOTE: DATA statement used:

|           |              |
|-----------|--------------|
| real time | 0.02 seconds |
| cpu time  | 0.02 seconds |

714 DATA DISMOUNT; SET DISMOUNT; DISMOUNT=ETOD; DROP ETOD;

NOTE: There were 17003 observations read from the data set WORK.DISMOUNT.

NOTE: The data set WORK.DISMOUNT has 17003 observations and 7 variables.

NOTE: DATA statement used:

|           |              |
|-----------|--------------|
| real time | 0.02 seconds |
| cpu time  | 0.02 seconds |

715 DATA NONSTRT; SET NONSTRT; NONSTRT=ETOD; DROP ETOD;

NOTE: There were 22764 observations read from the data set WORK.NONSTRT.

NOTE: The data set WORK.NONSTRT has 22764 observations and 7 variables.

NOTE: DATA statement used:

|           |              |
|-----------|--------------|
| real time | 0.02 seconds |
|-----------|--------------|

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cpu time 0.02 seconds

716 DATA PREP; SET PREP; PREP=ETOD; DROP ETOD;

NOTE: There were 29369 observations read from the data set WORK.PREP.

NOTE: The data set WORK.PREP has 29369 observations and 7 variables.

NOTE: DATA statement used:

real time 0.03 seconds

cpu time 0.03 seconds

717 DATA OFFCLOCK; SET OFFCLOCK; OFFCLOCK=ETOD; DROP ETOD;

NOTE: There were 24714 observations read from the data set  
WORK.OFFCLOCK.

NOTE: The data set WORK.OFFCLOCK has 24714 observations and 7  
variables.

NOTE: DATA statement used:

real time 0.03 seconds

cpu time 0.03 seconds

718 DATA TOFROM; SET TOFROM; TOFROM=ETOD; DROP ETOD;

NOTE: There were 30749 observations read from the data set WORK.TOFROM.

NOTE: The data set WORK.TOFROM has 30749 observations and 7 variables.

NOTE: DATA statement used:

real time 0.03 seconds

cpu time 0.03 seconds

719 DATA RELAY; SET RELAY; RELAY=ETOD; DROP ETOD;

NOTE: There were 3167 observations read from the data set WORK.RELAY.

NOTE: The data set WORK.RELAY has 3167 observations and 7 variables.

NOTE: DATA statement used:

real time 0.02 seconds

cpu time 0.02 seconds

720 DATA GENCOLL; SET GENCOLL; GENCOLL=ETOD; DROP ETOD;

NOTE: There were 2091 observations read from the data set WORK.GENCOLL.

NOTE: The data set WORK.GENCOLL has 2091 observations and 7 variables.

NOTE: DATA statement used:

real time 0.02 seconds

cpu time 0.02 seconds

721 DATA EXPCOLL; SET EXPCOLL; EXPCOLL=ETOD; DROP ETOD;

NOTE: There were 350 observations read from the data set WORK.EXPCOLL.

NOTE: The data set WORK.EXPCOLL has 350 observations and 7 variables.

NOTE: DATA statement used:

real time 0.01 seconds

cpu time 0.01 seconds

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722 DATA PARCEL; SET PARCEL; PARCEL=ETOD; DROP ETOD;

NOTE: There were 25788 observations read from the data set WORK.PARCEL.

NOTE: The data set WORK.PARCEL has 25788 observations and 7 variables.

NOTE: DATA statement used:

|           |              |
|-----------|--------------|
| real time | 0.51 seconds |
| cpu time  | 0.02 seconds |

723 DATA ACCOUNT; SET ACCOUNT; ACCOUNT=ETOD; DROP ETOD;

NOTE: There were 22314 observations read from the data set  
WORK.ACCOUNT.

NOTE: The data set WORK.ACCOUNT has 22314 observations and 7 variables.

NOTE: DATA statement used:

|           |              |
|-----------|--------------|
| real time | 0.03 seconds |
| cpu time  | 0.03 seconds |

724 DATA PARCACCT; SET PARCACCT; PARCACCT=ETOD; DROP ETOD;

NOTE: There were 4359 observations read from the data set  
WORK.PARCACCT.

NOTE: The data set WORK.PARCACCT has 4359 observations and 7 variables.

NOTE: DATA statement used:

|           |              |
|-----------|--------------|
| real time | 0.11 seconds |
| cpu time  | 0.03 seconds |

725 DATA TRAVEL; SET TRAVEL; TRAVEL=ETOD; DROP ETOD;

NOTE: There were 10678 observations read from the data set WORK.TRAVEL.

NOTE: The data set WORK.TRAVEL has 10678 observations and 7 variables.

NOTE: DATA statement used:

|           |              |
|-----------|--------------|
| real time | 0.05 seconds |
| cpu time  | 0.05 seconds |

726 DATA NA; SET NA; NA=ETOD; DROP ETOD;

NOTE: There were 26157 observations read from the data set WORK.NA.

NOTE: The data set WORK.NA has 26157 observations and 7 variables.

NOTE: DATA statement used:

|           |              |
|-----------|--------------|
| real time | 0.34 seconds |
| cpu time  | 0.06 seconds |

727 PROC SORT DATA=NETWORK; BY DATE RTEZIP ROUTENO;

NOTE: There were 30514 observations read from the data set  
WORK.NETWORK.

NOTE: The data set WORK.NETWORK has 30514 observations and 7 variables.

NOTE: PROCEDURE SORT used:

|           |              |
|-----------|--------------|
| real time | 0.33 seconds |
| cpu time  | 0.14 seconds |

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728 PROC SORT DATA=LOOPFOOT; BY DATE RTEZIP ROUTENO;

NOTE: There were 22276 observations read from the data set  
WORK.LOOPFOOT.

NOTE: The data set WORK.LOOPFOOT has 22276 observations and 7  
variables.

NOTE: PROCEDURE SORT used:

|           |              |
|-----------|--------------|
| real time | 0.09 seconds |
| cpu time  | 0.09 seconds |

729 PROC SORT DATA=DDTRAVEL; BY DATE RTEZIP ROUTENO;

NOTE: There were 4492 observations read from the data set  
WORK.DDTRAVEL.

NOTE: The data set WORK.DDTRAVEL has 4492 observations and 7 variables.

NOTE: PROCEDURE SORT used:

|           |              |
|-----------|--------------|
| real time | 0.02 seconds |
| cpu time  | 0.02 seconds |

730 PROC SORT DATA=CURBLINE; BY DATE RTEZIP ROUTENO;

NOTE: There were 14291 observations read from the data set  
WORK.CURBLINE.

NOTE: The data set WORK.CURBLINE has 14291 observations and 7  
variables.

NOTE: PROCEDURE SORT used:

|           |              |
|-----------|--------------|
| real time | 0.03 seconds |
| cpu time  | 0.03 seconds |

731 PROC SORT DATA=NDCBU; BY DATE RTEZIP ROUTENO;

NOTE: There were 10323 observations read from the data set WORK.NDCBU.

NOTE: The data set WORK.NDCBU has 10323 observations and 7 variables.

NOTE: PROCEDURE SORT used:

|           |              |
|-----------|--------------|
| real time | 0.03 seconds |
| cpu time  | 0.03 seconds |

732 PROC SORT DATA=VIM; BY DATE RTEZIP ROUTENO;

NOTE: There were 397 observations read from the data set WORK.VIM.

NOTE: The data set WORK.VIM has 397 observations and 7 variables.

NOTE: PROCEDURE SORT used:

|           |              |
|-----------|--------------|
| real time | 0.01 seconds |
| cpu time  | 0.01 seconds |

733 PROC SORT DATA=CENTRAL; BY DATE RTEZIP ROUTENO;

NOTE: There were 11775 observations read from the data set  
WORK.CENTRAL.

NOTE: The data set WORK.CENTRAL has 11775 observations and 7 variables.



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NOTE: PROCEDURE SORT used:  
real time 0.02 seconds  
cpu time 0.02 seconds

734 PROC SORT DATA=DISMOUNT; BY DATE RTEZIP ROUTENO;

NOTE: There were 17003 observations read from the data set  
WORK.DISMOUNT.

NOTE: The data set WORK.DISMOUNT has 17003 observations and 7  
variables.

NOTE: PROCEDURE SORT used:  
real time 0.12 seconds  
cpu time 0.03 seconds

735 PROC SORT DATA=NONSTRT; BY DATE RTEZIP ROUTENO;

NOTE: There were 22764 observations read from the data set  
WORK.NONSTRT.

NOTE: The data set WORK.NONSTRT has 22764 observations and 7 variables.

NOTE: PROCEDURE SORT used:  
real time 0.24 seconds  
cpu time 0.04 seconds

736 PROC SORT DATA=PREP; BY DATE RTEZIP ROUTENO;

NOTE: There were 29369 observations read from the data set WORK.PREP.

NOTE: The data set WORK.PREP has 29369 observations and 7 variables.

NOTE: PROCEDURE SORT used:  
real time 0.17 seconds  
cpu time 0.06 seconds

737 PROC SORT DATA=OFFCLOCK; BY DATE RTEZIP ROUTENO;

NOTE: There were 24714 observations read from the data set  
WORK.OFFCLOCK.

NOTE: The data set WORK.OFFCLOCK has 24714 observations and 7  
variables.

NOTE: PROCEDURE SORT used:  
real time 0.06 seconds  
cpu time 0.06 seconds

738 PROC SORT DATA=TOFROM; BY DATE RTEZIP ROUTENO;

NOTE: There were 30749 observations read from the data set WORK.TOFROM.

NOTE: The data set WORK.TOFROM has 30749 observations and 7 variables.

NOTE: PROCEDURE SORT used:  
real time 0.30 seconds  
cpu time 0.13 seconds

739 PROC SORT DATA=RELAY; BY DATE RTEZIP ROUTENO;

## RESPONSE OF POSTAL SERVICE WITNESS STEVENS TO POIR NO. 5, QUESTION 1

NOTE: There were 3167 observations read from the data set WORK.RELAY.

NOTE: The data set WORK.RELAY has 3167 observations and 7 variables.

NOTE: PROCEDURE SORT used:

real time 0.03 seconds

cpu time 0.03 seconds

740 PROC SORT DATA=GENCOLL; BY DATE RTEZIP ROUTENO;

NOTE: There were 2091 observations read from the data set WORK.GENCOLL.

NOTE: The data set WORK.GENCOLL has 2091 observations and 7 variables.

NOTE: PROCEDURE SORT used:

real time 0.04 seconds

cpu time 0.04 seconds

741 PROC SORT DATA=EXPCOLL; BY DATE RTEZIP ROUTENO;

NOTE: There were 350 observations read from the data set WORK.EXPCOLL.

NOTE: The data set WORK.EXPCOLL has 350 observations and 7 variables.

NOTE: PROCEDURE SORT used:

real time 0.03 seconds

cpu time 0.03 seconds

742 PROC SORT DATA=PARCEL; BY DATE RTEZIP ROUTENO;

NOTE: There were 25788 observations read from the data set WORK.PARCEL.

NOTE: The data set WORK.PARCEL has 25788 observations and 7 variables.

NOTE: PROCEDURE SORT used:

real time 0.31 seconds

cpu time 0.17 seconds

743 PROC SORT DATA=ACCOUNT; BY DATE RTEZIP ROUTENO;

NOTE: There were 22314 observations read from the data set  
WORK.ACCOUNT.

NOTE: The data set WORK.ACCOUNT has 22314 observations and 7 variables.

NOTE: PROCEDURE SORT used:

real time 0.08 seconds

cpu time 0.08 seconds

744 PROC SORT DATA=PARCACCT; BY DATE RTEZIP ROUTENO;

NOTE: There were 4359 observations read from the data set  
WORK.PARCACCT.

NOTE: The data set WORK.PARCACCT has 4359 observations and 7 variables.

NOTE: PROCEDURE SORT used:

real time 0.02 seconds

cpu time 0.02 seconds

745 PROC SORT DATA=TRAVEL; BY DATE RTEZIP ROUTENO;

NOTE: There were 10678 observations read from the data set WORK.TRAVEL.

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NOTE: The data set WORK.TRAVEL has 10678 observations and 7 variables.

NOTE: PROCEDURE SORT used:  
real time 0.03 seconds  
cpu time 0.03 seconds

```
746 PROC SORT DATA=NA; BY DATE RTEZIP ROUTENO;
```

NOTE: There were 26157 observations read from the data set WORK.NA.

NOTE: The data set WORK.NA has 26157 observations and 7 variables.

NOTE: PROCEDURE SORT used:  
real time 0.06 seconds  
cpu time 0.05 seconds

```
747 PROC SORT DATA=TOTT; BY DATE RTEZIP ROUTENO;
```

```
748 /*MERGE IN COST POOL TOTALS SO ONE RECORD PER ROUTE DAY*/
```

NOTE: There were 36290 observations read from the data set WORK.TOTT.

NOTE: The data set WORK.TOTT has 36290 observations and 15 variables.

NOTE: PROCEDURE SORT used:  
real time 0.25 seconds  
cpu time 0.09 seconds

```
749 DATA ALL; MERGE TOTT
750     NETWORK LOOPFOOT CURBLINE NDCBU VIM CENTRAL DISMOUNT
751     NONSTRT PREP OFFCLOCK TOFROM RELAY GENCOLL EXPCOLL
752     PARCEL ACCOUNT PARCACCT TRAVEL DDTRAVEL NA;
753     BY DATE RTEZIP ROUTENO;
754     IF NETWORK=. THEN NETWORK=0;
755     IF LOOPFOOT=. THEN LOOPFOOT=0;
756     IF DDTRAVEL=. THEN DDTRAVEL=0;
757     IF CURBLINE=. THEN CURBLINE=0;
758     IF NDCBU=. THEN NDCBU=0;
759     IF VIM=. THEN VIM=0;
760     IF CENTRAL=. THEN CENTRAL=0;
761     IF DISMOUNT=. THEN DISMOUNT=0;
762     IF NONSTRT=. THEN NONSTRT=0;
763     IF PREP=. THEN PREP=0;
764     IF OFFCLOCK=. THEN OFFCLOCK=0;
765     IF TOFROM=. THEN TOFROM=0;
766     IF RELAY=. THEN RELAY=0;
767     IF GENCOLL=. THEN GENCOLL=0;
768     IF EXPCOLL=. THEN EXPCOLL=0;
769     IF PARCEL=. THEN PARCEL=0;
770     IF ACCOUNT=. THEN ACCOUNT=0;
771     IF PARCACCT=. THEN PARCACCT=0;
772     IF TRAVEL=. THEN TRAVEL=0;
773     IF NA=. THEN NA=0;
774     IF (PREP + TOFROM) GT 0 THEN DO;
775         PREPN=PREP+(TRAVEL*PREP/(PREP+TOFROM));
776         TOFROMN=TOFROM+(TRAVEL*TOFROM/(PREP+TOFROM));
777     END;
778     ELSE IF (PREP + TOFROM)=0 AND TRAVEL GT 0 THEN
779         TOFROMN = TRAVEL;
780     TOFROM=TOFROMN;
```

RESPONSE OF POSTAL SERVICE WITNESS STEVENS TO  
POIR NO. 5, QUESTION 1

```
781     PREP=PREPN;  
782     PARCACCT=PARCACCT+PARCEL+ACCOUNT;  
783  
*****;  
784     /*THIS NEXT SECTION MULTIPLIES THE COST POOL TOTALS BY THE  
785     SAMPLE WEIGHTS*/  
786
```

NOTE: There were 36290 observations read from the data set WORK.TOTT.  
NOTE: There were 30514 observations read from the data set WORK.NETWORK.  
NOTE: There were 22276 observations read from the data set WORK.LOOPFOOT.  
NOTE: There were 14291 observations read from the data set WORK.CURBLINE.  
NOTE: There were 10323 observations read from the data set WORK.NDCBU.  
NOTE: There were 397 observations read from the data set WORK.VIM.  
NOTE: There were 11775 observations read from the data set WORK.CENTRAL.  
NOTE: There were 17003 observations read from the data set WORK.DISMOUNT.  
NOTE: There were 22764 observations read from the data set WORK.NONSTRT.  
NOTE: There were 29369 observations read from the data set WORK.PREP.  
NOTE: There were 24714 observations read from the data set WORK.OFFCLOCK.  
NOTE: There were 30749 observations read from the data set WORK.TOFROM.  
NOTE: There were 3167 observations read from the data set WORK.RELAY.  
NOTE: There were 2091 observations read from the data set WORK.GENCOLL.  
NOTE: There were 350 observations read from the data set WORK.EXPCOLL.  
NOTE: There were 25788 observations read from the data set WORK.PARCEL.  
NOTE: There were 22314 observations read from the data set WORK.ACCOUNT.  
NOTE: There were 4359 observations read from the data set WORK.PARCACCT.  
NOTE: There were 10678 observations read from the data set WORK.TRAVEL.  
NOTE: There were 4492 observations read from the data set WORK.DDTRAVEL.  
NOTE: There were 26157 observations read from the data set WORK.NA.  
NOTE: The data set WORK.ALL has 36290 observations and 38 variables.  
NOTE: DATA statement used:  
      real time              2.97 seconds  
      cpu time               0.94 seconds

```
787     PROC SORT DATA=WEIGHTS; BY RTEZIP;
```

NOTE: There were 167 observations read from the data set WORK.WEIGHTS.  
NOTE: The data set WORK.WEIGHTS has 167 observations and 2 variables.  
NOTE: PROCEDURE SORT used:  
      real time              0.14 seconds  
      cpu time               0.02 seconds

```
788     PROC SORT DATA=ALL; BY RTEZIP;
```

NOTE: There were 36290 observations read from the data set WORK.ALL.

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POIR NO. 5, QUESTION 1

NOTE: The data set WORK.ALL has 36290 observations and 38 variables.

NOTE: PROCEDURE SORT used:

real time 1.48 seconds  
cpu time 0.30 seconds

```
789 DATA WALL; MERGE ALL (IN=A) WEIGHTS; BY RTEZIP;
790 IF A=1;
791 IF WGT=. THEN DELETE;
792 LOOPFOOT=LOOPFOOT*WGT;
793 CURBLINE=CURBLINE*WGT;
794 NDCBU=NDCBU*WGT;
795 VIM=VIM*WGT;
796 CENTRAL=CENTRAL*WGT;
797 DISMOUNT=DISMOUNT*WGT;
798 NONSTRT=NONSTRT*WGT;
799 PREP=PREP*WGT;
800 TOFROM=TOFROM*WGT;
801 NETWORK=NETWORK*WGT;
802 DDTRAVEL=DDTRAVEL*WGT;
803 RELAY=RELAY*WGT;
804 GENCOLL=GENCOLL*WGT;
805 EXPCOLL=EXPCOLL*WGT;
806 PARCEL=PARCEL*WGT;
807 ACCOUNT=ACCOUNT*WGT;
808 TRAVEL=TRAVEL*WGT;
809 PARCACCT=PARCACCT*WGT;
810 OFFCLOCK=OFFCLOCK*WGT;
811 NA=NA*WGT;
812 TOTTIME=TOTTIME*WGT;
813
```

NOTE: Missing values were generated as a result of performing an operation on missing values.

Each place is given by: (Number of times) at (Line):(Column).  
4512 at 799:13 1151 at 800:17

NOTE: There were 36290 observations read from the data set WORK.ALL.

NOTE: There were 167 observations read from the data set WORK.WEIGHTS.

NOTE: The data set WORK.WALL has 36290 observations and 39 variables.

NOTE: DATA statement used:

real time 0.23 seconds  
cpu time 0.20 seconds

```
814 PROC SORT DATA=WALL; BY DELMODE;
815 ;
816
*****;
817 ***DO FINAL SUMMARY OF COST POOL TIMES BY DELIVERY MODE
***;
818 ***READ INPUT INTO A SPREADSHEET AND CALCULATE PROPORTIONS
OF***;
819 ***TOTAL TIME FOR ALL DELIVERY MODES
***;
820
*****;
```

RESPONSE OF POSTAL SERVICE WITNESS STEVENS TO  
POIR NO. 5, QUESTION 1

NOTE: There were 36290 observations read from the data set WORK.WALL.

NOTE: The data set WORK.WALL has 36290 observations and 39 variables.

NOTE: PROCEDURE SORT used:

|           |              |
|-----------|--------------|
| real time | 1.57 seconds |
| cpu time  | 0.26 seconds |

```
821 PROC MEANS DATA=WALL NOPRINT;
822 BY DELMODE;
823 VAR
824     LOOPFOOT CURBLINE NDCBU VIM CENTRAL DISMOUNT
825     PREP TOFROM NETWORK
826     RELAY GENCOLL EXPCOLL
827     PARCACCT DDTRAVEL NONSTRT OFFCLOCK NA TOTTIME;
828 OUTPUT OUT=WOUT SUM=;
```

NOTE: There were 36290 observations read from the data set WORK.WALL.

NOTE: The data set WORK.WOUT has 6 observations and 21 variables.

NOTE: PROCEDURE MEANS used:

|           |              |
|-----------|--------------|
| real time | 0.16 seconds |
| cpu time  | 0.16 seconds |

```
829 DATA _NULL_; SET WOUT;
830 FILE OUT1;
831 PUT DELMODE
832     LOOPFOOT CURBLINE NDCBU VIM CENTRAL DISMOUNT
833     PREP TOFROM NETWORK
834     RELAY GENCOLL EXPCOLL
835     PARCACCT DDTRAVEL NONSTRT OFFCLOCK NA TOTTIME;
836 Run;
```

NOTE: The file OUT1 is:

```
File Name=C:\Documents and Settings\nkay\My Documents\POSTAL on
Nkay\SASfiles\LR-79\cpfinal.DAT,
RECFM=V,LRECL=256
```

NOTE: 6 records were written to the file OUT1.

The minimum record length was 232.

The maximum record length was 235.

NOTE: There were 6 observations read from the data set WORK.WOUT.

NOTE: DATA statement used:

|           |              |
|-----------|--------------|
| real time | 0.25 seconds |
| cpu time  | 0.01 seconds |

RESPONSE OF POSTAL SERVICE WITNESS MEEHAN TO  
POIR NO. 5, QUESTION 2, PART 1

2. In response to Time Warner's request, the Postal Service has provided the IOCS flat files and mail processing tables for FY 2001 through FY 2003 indicating that certain cost changes took place in FY 2001. In 2004, the Postal Service submitted a complete set of the B Workpapers for FY 2003. Please provide the B Workpapers for FY 2001 and FY 2002 for both the PRC and the USPS versions.

**RESPONSE:**

For the requested USPS version, please see USPS-LR-K-130, B Workpapers

For FY2001, FY2002, USPS Versions in Response to POIR No. 5, Item 2.

RESPONSE OF THE UNITED STATES POSTAL SERVICE TO  
POIR NO. 5, QUESTION 2, PART 2

2. In response to Time Warner's request, the Postal Service has provided the IOCS flat files and mail processing tables for FY 2001 through FY 2003 indicating that certain cost changes took place in FY 2001. In 2004, the Postal Service submitted a complete set of the B Workpapers for FY 2003. Please provide the B Workpapers for FY 2001 and FY 2002 for both the PRC and the USPS versions.

**RESPONSE:**

For the requested PRC version, please see USPS-LR-K-131, B Workpapers For FY2001, FY2002, PRC Versions in Response to POIR No. 5, Item 2.



RESPONSE OF POSTAL SERVICE WITNESS TAUFIQUE  
TO POIR NO. 5, QUESTION 3

- 3.** The following questions are regarding Priority Mail. Please refer to R2005-1, USPS-T-28A spreadsheets and R2001-1, LR-J-103. In R2001-1, there was no separate line item in the rate calculation worksheets for the balloon volume (packages weighing less than 10 pounds but measuring more than 84 inches in length and girth combined). In R2005-1, in the USPS-T-28A spreadsheets, the balloon mail is a separate line item.
- (a) In R2001-1, was all the balloon volume allocated to the 15 lbs. category or was it spread out among weight increments? Please explain.
  - (b) Please explain why the balloon mail was separated from the rest of Priority in R2005-1 and not in R2001-1.
  - (c) In R2005-1, what are the attributable costs associated with the balloon mail and how should they be distributed? Please break the attributable costs for the balloon mail into per-piece costs and per-pound costs using the method applied to the rest of Priority Mail in R2001-1, LR-J-103.
  - (d) Have there ever been studies done to determine the extra costs associated with balloon mail? If yes, please provide the latest data.
  - (e) The FY 2004 volume for the 14 lbs. category is 1,018,938, for the 15 lbs. category is 490,904, and for the 16 lbs. category is 710,184. Please explain the considerably lower volume in the 15 lbs. category compared with both the 14 lbs. and 16 lbs. categories.

**RESPONSE:**

First, for clarification, the balloon rate does not apply to “packages weighing less than 10 pounds but measuring more than 84 inches in length and girth combined.”

According to DMM Section 101.5.3, the balloon rate applies to Priority Mail “items weighing less than *15 pounds* but measuring more than 84 inches in combined length and girth” (italics added).

However, ODIS-RPW does not consider parcels weighing more than 14 pounds, up to 15 pounds, to be balloon-rated, even if they do exceed 84 inches in combined length and girth. That is because regardless of their dimensions, such parcels would pay the 15-pound rate anyway.

- (a) The RPW data system did not separately identify Priority Mail balloon-rated parcels until FY 2002. Docket No. R2001-1, which relied upon a FY 2000 Base Year,

RESPONSE OF POSTAL SERVICE WITNESS TAUFIQUE  
TO POIR NO. 5, QUESTION 3

predated this change. As a result, balloon-rated volume was by default distributed to the weight increments according to actual weight.

This had a limited effect on revenue, though, because RPW revenue was based on evident postage – that is, the postage actually applied as evidenced by the indicia. For stamped and metered balloon-rated parcels, evident postage reflected the actual balloon rate paid, not the weight increment to which the parcel was distributed. The effect, therefore, of distributing such parcels to weight increments in the 1-14 pound range was not to lower total RPW revenue, but to increase the revenue adjustment factor applied to “calculated revenue” (see LR-J-103, Attachment A, Page 3). Postage paid is not evident, on the other hand, for permit-imprint mail pieces. For such pieces that were balloon-rated, RPW revenue was based on actual weight (ranging up to 14 pounds) and was therefore understated.

(b) Since FY 2002 (as reflected in the Priority Mail Billing Determinants), the RPW (now ODIS-RPW) data system has been able to separately identify Priority Mail balloon-rated parcels. The Docket No. R2005-1 Base Year and Test Year volume distributions, which isolate the balloon-rate category, reflect this improvement.

(c) Attributable costs are estimated for mail subclasses but not for rate categories such as the Priority Mail balloon rate.

The per-piece and per-pound cost elements appearing at the top of LR-J-103, Attachment F, Page 1 in Docket No. R2001-1, result from volume-variable cost distributions for the purpose of rate design. These cost elements apply generally to all

RESPONSE OF POSTAL SERVICE WITNESS TAUFIQUE  
TO POIR NO. 5, QUESTION 3

Priority Mail and not specifically to any one rate category. Further below in the table, allocated unit costs are derived, by weight increment and by zone, from the cost elements. It is not possible to derive similar allocated unit costs for balloon-rated parcels because contemporaneous weight data were not available from the RPW data system (please see the response to Part "a" above).

(d) No such studies have been completed. However, the Postal Service is currently conducting a substantive review of the relationship between parcel size and cost. Balloon-rated parcels are one subject of this review.

(e) The 490,904 pieces shown at 15 pounds is the result of an ODIS-RPW edit-program error. A total of 405,460 parcels were misidentified as balloon-rated rather than weight-rated. This error was found only after the Docket No. R2005-1 filing was well underway, and because it was determined that the effects are minimal (see below), it was decided that the volume distribution would not be revised. A revision would have the following effects on USPS-T-28A, PM-1, Page 1: the number of balloon-rated parcels decreases by 405,460 (to 90,409); the number of 15-pound pieces increases by 392,685 (to 883,589); and total volume at all other weight levels, combined, increases by 12,775. Total volume stays the same at 848,633,083.

Base Year RPW revenue remains unchanged at \$4,419,822,668 (excluding pickup fees). However, "calculated revenue" at USPS-T-28A, PM-1, Page 3 declines by about -\$151,000, requiring a slight increase in the "revenue adjustment factor" from 100.869 percent to 100.873 percent in order to match the unchanged RPW total.

RESPONSE OF POSTAL SERVICE WITNESS TAUFIQUE  
TO POIR NO. 5, QUESTION 3

The Postal Service considers these changes to be de minimis. Not only do total volume and revenue not change, but the volume shift (405,460 pieces) represents less than 0.05 percent of all Priority Mail volume. Moreover, there are no implications for the Priority Mail rates proposed by witness Taufique in USPS-T-28.

RESPONSE OF POSTAL SERVICE WITNESS NASH TO  
POIR NO. 5, QUESTION 4(a)

4. Please answer the following questions regarding Priority Mail. In R2001-1, USPS-LR-J-96, page 13 contained weight and the average haul by zone for Commercial Air and Other Air in the base year. Please refer to R2001-1, LR-J-103 Per-Pound Elements worksheet. Weight and the average haul by zone for Commercial Air and Other Air was used to distribute distance-related and nondistance-related air transportation costs to the zones. More specifically, total air pounds is used to distribute nondistance-related air costs to the zones and passenger pound miles is used to distribute distance-related air transportation costs to the zones. R2005-1, USPS-LR-K-37, contains weight and the average haul by zone for FedEx and Other Air.

(a) Please confirm that "Other Air" contains the same components in R2005-1 as in R2001-1. If not, please explain the difference, including which components have distance-related and nondistance-related costs.

**RESPONSE:**

(a) Not confirmed. The two air network designations in Docket No. R2001-1, USPS-LR-J-96 were "Network Air" (aka Other Air) and "Commercial Air." In Docket No. R2005-1, USPS-LR-K-37, the two air network designations are "FedEx" and "All Other."

The following table illustrates the various components of each "network" designation, indicating whether the associated costs are distance-related only (DR only), non-distance-related only (NDR only), or both distance-related and non-distance-related (DR & NDR):

RESPONSE OF POSTAL SERVICE WITNESS NASH TO  
POIR NO. 5, QUESTION 4(a)

| Cost Component                | R2001-1 Network Air | R2001-1 Commercial Air | R2005-1 FedEx | R2005-1 All Other |
|-------------------------------|---------------------|------------------------|---------------|-------------------|
| Passenger                     |                     | DR & NDR               |               | DR & NDR          |
| Daynet and HASP               | DR & NDR            |                        |               |                   |
| Network (Eagle)               | DR & NDR            |                        |               |                   |
| Western Air                   | DR & NDR            |                        |               |                   |
| FedEx Day                     | NDR only            |                        | NDR only      |                   |
| FedEx Night                   | NDR only            |                        | NDR only      |                   |
| Christmas                     | DR & NDR            |                        |               | DR & NDR          |
| Intra-Alaska Non-preferential | DR & NDR            |                        |               | DR & NDR          |
| Intra-Alaska Preferential     | DR & NDR            |                        |               | DR & NDR          |
| Intra-Hawaii                  | DR & NDR            |                        |               | DR & NDR          |
| Air Taxi                      | DR & NDR            |                        |               | DR & NDR          |

RESPONSE OF POSTAL SERVICE WITNESS TAUFIQUE TO  
POIR NO. 5, QUESTION 4(b)

4. Please answer the following questions regarding Priority Mail. In R2001-1, USPS-LR-J-96, page 13 contained weight and the average haul by zone for Commercial Air and Other Air in the base year. Please refer to R2001-1, LR-J-103 Per-Pound Elements worksheet. Weight and the average haul by zone for Commercial Air and Other Air was used to distribute distance-related and nondistance-related air transportation costs to the zones. More specifically, total air pounds is used to distribute nondistance-related air costs to the zones and passenger pound miles is used to distribute distance-related air transportation costs to the zones. R2005-1, USPS-LR-K-37, contains weight and the average haul by zone for FedEx and Other Air.

(b) FedEx costs are incurred based on cubic feet rather than weight. Can one reasonably allocate FedEx transportation costs to the weight categories and zones? If so, how should that be done?

**RESPONSE:**

(b) The reasonability of such an allocation depends ultimately on the relationship between weight and FedEx “cube,” as well as the ability to measure that relationship. The Postal Service is currently studying this matter as part of the substantive review mentioned in the response to Question 3d above.

RESPONSE OF POSTAL SERVICE WITNESS ROBINSON TO  
POIR NO. 5, QUESTION 4(c)

4. Please answer the following questions regarding Priority Mail. In R2001-1, USPS-LR-J-96, page 13 contained weight and the average haul by zone for Commercial Air and Other Air in the base year. Please refer to R2001-1, LR-J-103 Per-Pound Elements worksheet. Weight and the average haul by zone for Commercial Air and Other Air was used to distribute distance-related and nondistance-related air transportation costs to the zones. More specifically, total air pounds is used to distribute nondistance-related air costs to the zones and passenger pound miles is used to distribute distance-related air transportation costs to the zones. R2005-1, USPS-LR-K-37, contains weight and the average haul by zone for FedEx and Other Air.

(c) Considering that FedEx contract costs are not distance (or zone) related and that the majority of air transportation costs for Priority Mail are FedEx related, please discuss the appropriateness of zoned rates beyond zone 4, for Priority Mail.

**RESPONSE:**

(c) The Priority Mail rate structure recommended by the Postal Rate Commission in Docket No. R2001-1 incorporated a weight-zone structure with rates increasing as Priority Mail pieces increased in weight and were transported to more distant zones. In this docket, the Postal Service has requested a 5.4 percent across-the-board increase in virtually all rates and fees including Priority Mail rates. The across-the-board approach maintains the current (Docket No. R2001-1) rate and classification structure, is both fair and equitable, and results in rates that meet all of the pricing criteria of the Postal Reorganization Act. As suggested by the question, one option would have been to propose a change in the zoned structure for Priority Mail that would result in a less distance-based rate structure. If this approach had been used, effectively, Priority Mail customers whose pieces traveled to more distant zones would have borne less of the escrow burden than customers whose pieces destined at a less distant zone. Because the escrow requirement does not vary with the distance a piece travels, with mail volume, and is not based on the provision of any postal service, it would be



RESPONSE OF POSTAL SERVICE WITNESS ROBINSON TO  
POIR NO. 5, QUESTION 4(c)

unreasonable to propose that any of these bases be used to allocate the escrow-related increase in the revenue requirement. Given the lack of association of the escrow requirement with the provision of postal services, I do not believe that it would be fair and equitable to exempt any subclass or portion of a subclass – either partially or totally – from an equal share in this Congressionally-mandated burden. See responses to VP/USPS-T27-5(d), VP/USPS-T27-6(f)(iii), and POIR No. 4, Question 3(c).

In a more typical omnibus rate case, the Postal Service would have considered alternate pricing and classification structures, including possibly full or partial recognition of the Federal Express transportation contract on Priority Mail or other rates. However, it is not clear that a review of the Priority Mail rate structure considering the Federal Express contract provisions would necessarily have resulted in changes in the zoned rate structure of Priority Mail. The decision to revise rate and classification structures is based on a consideration of many factors, only one of which is the underlying characteristics of transportation contracts such as the Federal Express contract structure. In developing rates and classifications, the Postal Service and the Postal Rate Commission must consider all of the pricing and classification criteria. These requirements do not necessarily mandate that the rate structure be changed solely because of changes in the underlying structure of transportation contracts. In fact, the history of Priority Mail transportation contracts suggests that relying solely on the structure of the underlying transportation contract as the basis for rate design may cause unneeded and, perhaps unwanted, changes in the classification structure. Consider, for example, the change in Priority Mail transportation over the last decade from use of scheduled airline transportation to the Emery network to the Federal

RESPONSE OF POSTAL SERVICE WITNESS ROBINSON TO  
POIR NO. 5, QUESTION 4(c)

Express contract. The underlying cost structure of each of these networks differed; however, neither the Postal Service nor the Commission chose to fully incorporate the effects of each network change in the rate design.

The process of rate design also includes a careful consideration of the effect changes in rates and classifications will have on customers and the establishment of reasonable rate relationships. For example, designing less distance-based Priority Mail rates for items that are transported using the Federal Express contract transportation may have additional effects. For instance, reducing rates for Priority Mail pieces destinating in more distant zones may increase the Postal Service's volume in these zones, thus changing the "distance mix" of parcels flown, which may have an effect on the costs incurred through subsequent transportation contracts. While I do not know the details of the current Fed Ex contract or the contract negotiations, it is not unreasonable to presume that a transportation vendor bids for a contract based on assumptions about the characteristics – including distance transported -- of the mail to be carried. If this is correct, it is not clear that the costs characteristics of Priority Mail transportation necessarily would remain the same if the mail characteristics were to change in reaction to a change in the approach to Priority Mail rate design. Before making any such changes to the rate design, the potential for these changes and any resultant cost consequences would need to be examined.

RESPONSE OF POSTAL SERVICE WITNESS TAUFIQUE TO  
POIR NO. 5, QUESTION 5

5. Please refer to the footnote on page 2 of the Per-Pound Elements worksheet LR-J-103 in R2001-1, which states “Local share (12.35%) established in R90-1.”

(a) Was there a study conducted to arrive at that local share percentage? If yes, please give a detailed summary of that report. If not, please explain how local share was determined.

(b) Have there been any recent studies that confirm the percentage of local share is still valid? If yes, please give details. If not, please explain why 12.35% is reasonable.

**RESPONSE:**

(a) The 12.35 percent Local share (of total Local and Zone 1-3 postage pounds) in Docket No. R90-1 derived from a Local/non-Local split that was available, at the time, through an algorithm in the RPW data system.

(b) The referenced systems capability in part “a” above was lost sometime in the early 1990s when the TRACS system – which superseded RPW in some respects – was introduced. No comparable calculation has been made since Docket No. R90-1, and neither ODIS-RPW nor TRACS presently have the capability to distinguish Local from non-Local volume (or weight). In the absence of a better number, we continue to rely on the 12.35 percent figure. The Postal Service will endeavor to examine possible solutions for updating the figure in the future.

RESPONSE OF POSTAL SERVICE WITNESS TAUFIQUE TO  
POIR NO. 5, QUESTION 6

6. Please provide the average weight per piece (in pounds) in the base year for the flat-rate envelope in Priority Mail.

**RESPONSE:**

Average weight for the Priority Mail flat-rate envelope in the Base Year (FY 2004) was  
0.752 pounds.