

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 POSTAL SERVICE WITNESS STEVENS
TO INTERROGATORIES OF THE OCA (OCA/USPS-T15-1.d-e, 2.a, 3-4, 6)
(May 20, 2005)

The United States Postal Service hereby provides the response of witness Stevens to the following interrogatories of the OCA, filed on May 6, 2005: OCA/USPS-T14-15,-1.d-e, 2.a, 3-4, 6. Subparts a-c and f of question 1, and question 5, were redirected to witness Bradley. Objections to 1.g and 2.b were filed on May 16, 2005.

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

Respectfully submitted,

UNITED STATES POSTAL SERVICE

By its attorneys:

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OCA/USPS-T15-1. Please refer to your testimony at page 24, lines 8-9. You state, "Bulk delivery data were not used in the final analysis."

- d. Please provide all bulk delivery data in electronic form by encoded (as in file AL161ZIPS.PRN of LR-K-80) ZIP by route. If file PA159.PRN of LR-K-80 is complete and properly encoded to match AL161ZIPS.PRN, please so state.
- e. Please provide the number of bulk deliveries in electronic form by encoded ZIP.

Response:

- d. Please see 4.a. and pages 2 and 3 of USPS-LR-K-80, which, as explained in response to your question 4 of this set, is being revised today.
- e. Please see d.

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OCA/USPS-T15-2. Please refer to LR-K-78, Excel file "volume entry 2002."

- a. This file contains 35 Tabs labeled "CARRIER FORM" through "CARRIER FORM (35)." Are there any differences between these 35 Tabs? If so, please describe them.

Response:

- a. No.

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OCA/USPS-T15-3. Please refer to your testimony at page 24, line 18. You state, "The volume data from the survey were collected at the HQ Help Desk. There the data were scrutinized for possible errors, omissions, and completeness. Questions were referred back to the local Study Coordinators who had their own copies as well as records of Delivery required volume reporting instruments at their disposal."

- a. Please provide a detailed description of procedures followed and tasks performed by the HQ Help Desk.
- b. Please provide copies of all instructions and training manuals provided to the HQ Help Desk.
- c. Please provide a detailed description of procedures followed and tasks performed by the Study Coordinators.
- d. Please provide copies of all instructions and training manuals provided to the Study Coordinators.
- e. Please provide a list and detailed description of "volume reporting instruments at their disposal."

Response:

- a. The HQ Help Desk was comprised of study coordinators that were versed in the training materials that are provided in USPS-LR-K-78. Their job was to provide administrative support to the coordinators in the field and to validate that data collection forms sent in from the survey had all the necessary labeling needed for data entry. This support included providing additional forms and information as to how the data were to be assimilated and mailed. If a question was asked by a study coordinator in the field to the nature of the data collection, the coordinator was provided a site from the training manual. If further insight was needed, the caller was forwarded to me for clarification. No formal log was kept of this activity.

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Moreover, they did not interact at all with any of the carriers performing the survey.

- b. Please see my response to a.
- c. Please see my response to a.
- d. Please see my response to a.
- e. As detailed in USPS-LR-K-80 on pages 1 and 2, most local offices' mail volumes were reported and retained in DOIS or DSIS. For the smaller offices other local mail volume reporting and recording systems were available to validate workloads reported during the survey.

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OCA/USPS-T15-4. Please refer to USPS LR-K-80 and the associated data files. The file AL161ZIPS.PRN was opened by importing the data into Excel. The first few lines of the file are reproduced below.

957	5/25/2002	11	0	0	1010	73	0
957	5/25/2002	23	0	0	1040	159	0
957	5/25/2002	28	0	0	1024	260	0
957	5/25/2002	29	0	0	885	112	0
957	5/25/2002	38	0	0	896	133	0

On page 2 of USPS LR-K-80 you present a table extract from the AL161ZIPS.PRN File. One of the headings is titled "Masked Zip Code".

- a. The first column of the file above, containing the ZIP Codes, has no entries similar to the entries in the column titled "Masked Zip Code" on page 2 of the library reference. To be specific, the "Masked Zip Code" entries are expressed with decimal points; there do not appear to be corresponding entries in AL161ZIPS.PRN, a few of whose lines are printed above. Please explain this discrepancy in detail in order that there is no problem in identifying routes, ZIP Codes, etc. on a consistent basis.
- b. In the case of PA159.PRN there seems to be an analogous situation detailed in part a., above. Please provide information similar to that requested in a.
- c. Do the ZIP Codes in PA159.PRN match those of AL161ZIPS.PRN?
- d. None of the ZIP Codes—either those presented above in the table nor the ZIP Codes on page 2 of USPS LR-K-80 appear to match with the ZIP Codes in Dr. Bradley's databases TIMEPOOL MDATA.PRN, LfvOLUME MDATA.PRN, PAVOLUME MDATA.PRN, and DENSITY MDATA.PRN. Please explain how the ZIP Codes are matched or how the various ZIP Codes are related to Dr. Bradley's computations.

Response:

a and b. The data in AL161ZIPS.PRN and PA159.PRN are correct except for the use of erroneous Zip identifiers in the Zip code columns (column 1). New versions of AL161ZIPS.PRN and PA159.PRN that do have the correct Zip identifiers are being filed in a revised USPS-LR-K-80.

c. Yes.

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d. The encryption in LR-K-80 covers the Zip Codes in the CCSTS database. Dr. Bradley makes use of a broader set of Zip Codes, the ones from the Census data base he uses to capture geographical data. Because of these additional Zip Codes, Dr. Bradley had to employ a more extensive encryption process than was required for LR-K-80. That is why the two sets of encryptions do not match. However, there is a one-to-one mapping between the two sets of encrypted Zip Codes. A hard copy concordance of the two sets of encrypted Zip Codes is attached to this interrogatory response, and an Excel version is attached electronically.

Attachment to Response, OCA/USPS-T15-4d

Masked Zip Used on the LR-K-79 and LR-K-80 Scan-Time and Volume Files	Masked Zip Used on the LR-K-81 Scan-Time and Volume Files
1321.00	2222220
1094.1	6915709
1283.25	8265880
994.64	823126
932.78	4224807
900.51	3841890
1014.15	1352856
1377.00	7761044
1106.16	6566657
1108.48	9216792
977.69	2418845
1032.56	7889371
949.71	7366497
1158.21	5079251
1055.71	8365476
1107.4	5119230
956.1	1660939
1399.00	6222079
1063.72	8937811
1016.15	7253903
1155.58	1797270
991.12	7408660
1124.81	6123091
1217.68	2523329
1143.11	4017880
1094.61	2516318
1108.94	1109097
1113.44	3170247
1208.6	8027588
1127.21	9785658
916.27	8693266
1031.94	8885626
1113.12	2381912
1125.12	8807513
1157.32	8573006
1136.84	2946128
946.86	6641989
975.43	8935185
1028.07	680989
1004.37	7875349
1118.17	4220169
1099.29	2330822
1040.37	4700671
1017.34	3522403

Masked Zip Used on the LR-K-79 and LR-K-80 Scan-Time and Volume Files	Masked Zip Used on the LR-K-81 Scan-Time and Volume Files
1148.45	3637100
996.9	9600952
1093.41	8971623
1140.45	6135928
1134.97	4741966
1159.84	3275234
1240.7	1830982
1109.45	5050753
978.1	7033018
1127.96	4416772
1063.05	4889538
975.44	2669128
833.3	5813957
1306.00	6714985
1096.44	6260501
1134.41	1891225
1096.58	6617639
1122.11	1376260
1179.79	4717812
1114	2774051
1316.00	7944004
1150.73	2071680
761.84	6608572
1111.87	5875249
1109.25	5561832
1023.98	7795307
1122.26	5872302
1132.47	1629153
944.37	8155849
950.67	7131259
995.59	478581
989.1	1226213
1098.31	265172
909.31	3117064
914.77	1495397
1078.42	540658
922.5	207119
1006.64	1618591
1019.05	9797599
994.01	9272079
1243.68	3029022
1045.39	5627955
1016.26	6131949
1076.37	2644577

1350.00	1111110
1033.13	5056157
1053.01	4088800
1302.00	2556848
993.57	4033945
1029.59	3610207
1030.27	6146537
958.72	8755088
999.29	206351
1010.21	527528
1154.51	3931949
1107.59	4690965
1091.36	1432093
1336.30	5967956
1133.32	7109598
1016.24	6833631
1147.32	2432303
1042.38	9719666
1091.46	3347202
1077.27	2634763
1186.18	7211264
1103.09	4193105
1062.08	7064632
1098.24	1631973
1072.26	8090573
1366.00	5006634
1124.93	8586719
1067.66	8768579
1348.00	6151787
1066.76	6019538
1229.85	8939761
1100.9	4286657
1047.36	3541130
934.5	5161981
1143.87	2490591
1032.15	3023743
1135.87	3341404
1308.00	9231238
1151.5	8767371
1090.85	3711526
1207.31	3109561
948.66	4826943
1124.53	6395033
1211.98	5386728
1100.36	2958650
1061.98	8407116
1010.97	3461089
1024.34	5335517

1123	723582
1125.39	5656871
1014.06	7701991
1112.82	4282180
1191.69	2409668
917.83	4228438
1357.00	1635436
968.05	5917898
972.47	5268704
871.65	502885
1056.69	9404528
1047.8	5692981
1032.12	7606474
1105.56	264816
975.17	275455
1106.88	6980401
1095.13	7595552
1288.00	6103170
1012.96	8131706
985.46	8925917
1104.59	9900515
958.64	3975672
1038.85	5887042
1325.00	3333330
1102.14	5621617
1224.06	4938880
1135.37	9680073
1038.07	3078259

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OCA/USPS-T15-6. Please refer to the SAS program CPFINAL in USPS LR-K-79.

- a. Please provide the program LOG.
- b. Please explain the use/meaning of the computer code TOD = INPUT (CTIME, TIME8.); this code is two lines above the comment "Generate Scan Pairs".
- c. The Library Reference does not appear to have a file DATACOLL, a database referenced in the SAS program CPFINAL. Please provide the file and a listing of headings and the definition of the headings. In the event that the requested file is presented under a similar or other name in USPS LR-K-79, please explain the file in detail.
- d. The Library Reference does not appear to have a file POOLS, a database referenced in the SAS program CPFINAL. Please provide the file and a listing of headings and the definition of the headings. In the event that the requested file is presented under a similar or other name in USPS LR-K-79, please explain the file in detail.
- e. The Library Reference does not appear to have a file WEIGHTS. Please provide the file and a listing of headings and the definition of the headings. In the event that the requested file is presented under a similar or other name in USPS LR-K-79, please explain the file in detail.
- f. The program references a file denoted as "Weights". Is this the Weights file in the Library Reference?

Response:

- a. The program LOG for CPFINAL is as follows:

NOTE: The initialization phase used 0.07 CPU seconds and 7440K.

```
1      DATA MDCD;
2      INFILE DATACOLL;
3      INPUT
4      @1 DATE MMDDYY8.
5      @10 RTEZIP 7.2
6      @18 SCANZIP 7.2
7      @28 ROUTENO $2.
8      @30 EMP $4.
9      @34 CTIME $8.
10     @42 ONFRAME 1.
11     @43 DELMODE $1.
12     @44 BARCODE 3.
13     @47 BCURB 5.
14     @52 BNDCBU 5.
15     @57 BCENT 5.
16     @62 BOTHR 5.
17     @67 RCURB 5.
18     @72 RNDCBU 5.
19     @77 RCENT 5.
20     @82 ROTH 5.
```

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```
21     @87 ROUTE $8.;
22     TOD=INPUT(CTIME,TIME8.);
23     IF DELMODE = ' ' THEN DELMODE = 'X';
24     *****
25     **** GENERATE SCAN PAIRS ****
26     *****
27
28     *THIS GROUP OF CODE NUMBERS EACH OBSERVATION IN
29     A DATE/ZIP/ROUTE/EMP SEQUENTIALLY;
```

NOTE: The infile DATACOLL is:

```
Dsname=H30005.MDCD.ARCHIVE.SUBSET.V4MASK.DATA,
Unit=3390,Volume=T0ABL6,Disp=SHR,Blksize=3500,
Lrecl=100,Recfm=FB
```

NOTE: 1317755 records were read from the infile DATACOLL.

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

NOTE: The DATA statement used 33.83 CPU seconds and 8526K.

```
30     PROC SORT DATA=MDCD; BY DATE SCANZIP ROUTE EMP TOD;
31     /*
32     DATA MDCD; SET MDCD; BY DATE SCANZIP ROUTE EMP;
33     RETAIN COUNTER;
34     IF FIRST.EMP THEN COUNTER=1;
35     ELSE COUNTER+1;
36     ;
37     */
38     *****
39     **** LOOK AT SCAN PAIRS AND DETERMINE IF VALID/INVALID ****
40     **** SAVE PRIOR TWO RECORD VARS FOR LATER USE ****
41     *****
```

NOTE: 136 cylinders dynamically allocated on SYSDA for each of 3 sort work data sets.

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: The PROCEDURE SORT used 5.93 CPU seconds and 8636K.

```
42     DATA M; SET MDCD; BY DATE SCANZIP ROUTE EMP;
43     INFORMAT PTOD ETOD TIME8.;
44     IF FIRST.EMP THEN DO;
45         PZIP=.;
46         PROUTE = " ";
47         PEMP= " ";
48         PDATE = .;
49         PTOD = .;
50         PBARCODE = .;
51     END;
52     ETOD = TOD-PTOD ;
53     ZIP1 = PZIP;
54     ROUTE1 = PROUTE;
55     EMP1 = PEMP;
56     DATE1 = PDATE;
57     BARCODE1 = PBARCODE;
```

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```

58     PZIP = SCANZIP;
59     PROUTE = ROUTE;
60     PEMP = EMP;
61     PDATE = DATE;
62     PTOD = TOD ;
63     PBARCODE = BARCODE;
64     RETAIN PZIP PROUTE PDATE PTOD PEMP PBARCODE;
65
66     IF ETOD = . THEN DELETE;
67     TIMEDAY=PUT(TOD,TIME.);
68     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 52:16

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: The DATA statement used 22.38 CPU seconds and 8778K.

```

69     PROC DATASETS;
           -----Directory-----
           Libref:          WORK
           Engine:          BASE
           Physical Name:   SYS05061.T140630.RA000.H30005E.R0A16186
           Unit:            DISK
           Volume:          S1W050
           Disposition:     NEW
           Device:          3390
           Blocksize:       27648
           Blocks per Track: 2
           Total Library Blocks: 21000
           Total Used Blocks: 16905
           Total Free Blocks: 4095
           Highest Used Block: 16905
           Highest Formatted Block: 16906
           Members:         3
69     !      DELETE MDCD;
70
71     *****
72     *** FIRST GO THROUGH SCANS AND FIX DUPLICATE          ***
73     *** BARCODE NUMBER PROBLEM FOR COLLECTION BARCODES   ***
74     *** PROBLEM WAS DUE TO INCORRECT BARCODES IN EARLY  ***
75     *** VERSION OF TRAINING BOOKLET                       ***
76     *****

```

NOTE: Deleting WORK.MDCD (memtype=DATA).

```

77     DATA M; SET M;
78     RETAIN GENCOLL EXPCOLL CNTGEN CNTEXP GENEND EXPEND 0;
79     IF BARCODE1=322 AND BARCODE=353 THEN BARCODE=391;
80     IF BARCODE1=339 AND BARCODE=360 THEN BARCODE=407;

```

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```

81     IF BARCODE1=360 AND LAG1(BARCODE)=407 THEN BARCODE1=407;
82     IF BARCODE1=353 AND LAG1(BARCODE)=391 THEN BARCODE1=391;
83     IF BARCODE1=322 AND
84         (BARCODE=70 OR BARCODE=87 OR BARCODE=32 OR
85         BARCODE=94) THEN GENCOLL=1;
86         ELSE GENCOLL=0;
87     IF BARCODE1=339 AND
88         (BARCODE=70 OR BARCODE=87 OR BARCODE=32 OR
89         BARCODE=94) THEN EXPCOLL=1;
90         ELSE EXPCOLL=0;
91     IF GENCOLL=1 AND
92         (BARCODE=100 OR BARCODE=117 OR BARCODE=124
93         OR BARCODE=63) THEN GENCOLL=1;
94         ELSE GENCOLL=0;
95     IF EXPCOLL=1 AND
96         (BARCODE=100 OR BARCODE=117 OR BARCODE=124
97         OR BARCODE=63) THEN EXPCOLL=1;
98         ELSE EXPCOLL=0;
99     IF GENCOLL=1 AND BARCODE=353 AND
100        (BARCODE1=100 OR BARCODE1=117 OR BARCODE1=124
101        OR BARCODE1=63) THEN DO;
102        BARCODE=391;
103        GENCOLL=0;
104        END;
105     IF EXPCOLL=1 AND BARCODE=360 AND
106        (BARCODE1=100 OR BARCODE1=117 OR BARCODE1=124
107        OR BARCODE1=63) THEN DO;
108        BARCODE=407;
109        EXPCOLL=0;
110        END;
111     DROP GENCOLL EXPCOLL;
112     /*NOT A LUNCH/BREAK/EMG OR AN END COLLECTION - NOT
113     ALLOWED AFTER START COLLECTION*/
114     * END FIX DUPLICATE BARCODES;
115     *****
116     ***   MERGE IN COST POOL DEFINITIONS           ***
117     ***   NEED TO CHOOSE FROM ALTERNATE DEFINITION   ***
118     ***   FOR CERTAIN SCANS BASED ON WHETHER INSIDE   ***
119     ***   OR OUTSIDE A ROUTE SECTION                 ***
120     ***   OR OTHER CONDITIONS                         ***
121     *****

```

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: The DATA statement used 4.59 CPU seconds and 9176K.

```

122     DATA POOLS; INFILE POOLS;
123     INPUT BARCODE1 BARCODE CP $;

```

NOTE: The infile POOLS is:
Diname=H30005.MDCD.SCAN6.TEXT,
Unit=3390,Volume=T0AAA7,Disp=SHR,Blksize=6233,
Lrecl=256,Recfm=VB

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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: The DATA statement used 0.02 CPU seconds and 9176K.

124 PROC SORT DATA=M; BY BARCODE1 BARCODE;

NOTE: 247 cylinders dynamically allocated on SYSDA for each of 3 sort work data sets.

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: The PROCEDURE SORT used 8.07 CPU seconds and 9176K.

125 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: The PROCEDURE SORT used 0.00 CPU seconds and 9176K.

126 DATA MPOOL; MERGE M (IN=MM) POOLS; BY BARCODE1 BARCODE;

127 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.

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

NOTE: The DATA statement used 8.53 CPU seconds and 9304K.

128 PROC DATASETS;

-----Directory-----

Libref: WORK
Engine: BASE
Physical Name: SYS05061.T140630.RA000.H30005E.R0A16186
Unit: DISK
Volume: S1W050
Disposition: NEW
Device: 3390
Blocksize: 27648
Blocks per Track: 2
Total Library Blocks: 42000
Total Used Blocks: 24204
Total Free Blocks: 17796
Highest Used Block: 24204
Highest Formatted Block: 24204
Members: 4

128 ! DELETE M;

NOTE: Deleting WORK.M (memtype=DATA).

NOTE: The PROCEDURE DATASETS used 0.01 CPU seconds and 9304K.

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```

129  PROC SORT DATA=MPOOL; BY DATE RTEZIP ROUTE EMP TOD;
130  *****
131  ***   SET FLAGS FOR DETERMINING COST POOL          ***.
132  ***   WHEN ALTERNATE ASSIGNMENTS POSSIBLE          ***.
133  ***   INSIDE ROUTE SECTION:                        ***.
134  ***   ENDS AT END SECTION OR ANY OTHER START SECTION ***.
135  ***   SECTIONS:   START   END                      ***.
136  ***   FOOT (P&L)   148     179                      ***.
137  ***   CURBLINE    155     186                      ***.
138  ***   CENTRAL     209     230                      ***.
139  ***   DISMOUNT    261     292                      ***.
140  ***   VIM         216     247                      ***.
141  ***   NDCBU       193     223                      ***.
142  ***   IN AN ACTIVITY:                             ***.
143  ***   ENDS AT AN END ACTIVITY OR ANY NON-ADMIN SCAN ***.
144  ***   ACTIVITY   START   END                      ***.
145  ***   RELAY      315     346                      ***.
146  ***   GENERAL COLLECTION 322     391          ***.
147  ***   EXPRESS COLLECTION 339     407          ***.
148  ***   PARCEL DELIVERY  353     377          ***.
149  ***   ACCOUNTABLE DEL  360     384          ***.
150  ***   OTHER FLAGS:                                ***.
151  ***   LEAVE OFFICE   25                      ***.
152  ***   AT DEV PARK PT 254     285          ***.
153  *****

```

NOTE: 255 cylinders dynamically allocated on SYSDA for each of 3 sort work data sets.
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: The PROCEDURE SORT used 8.68 CPU seconds and 9304K.

```

154  DATA MPOOL; SET MPOOL; BY DATE RTEZIP ROUTE EMP;
155  RETAIN FOOT CURB CENT MOUNT VIM NDCBU
156  RELAY GENCOLL EXPCOLL PARC ACCT DEVPKPT
157  LEAVEOFC 0;
158  POOL = CP;
159  IF POOL= ' ' THEN POOL='NA';
160  ELSE IF POOL=' ' THEN POOL='NA';
161  *****
162  *SOME COST POOL ASSIGNMENTS ARE CONDITIONAL BASED ON INSIDE ;
163  *OUTSIDE ROUTE SECTION OR OTHER CONDITIONS. FIRST SET FLAGS;
164  *TO KNOW WHAT ROUTE SECTION/ACTIVITY IS CURRENT ;
165  *****
166
167  IF FIRST.EMP THEN DO;
168  FOOT=0; CURB=0; CENT=0; MOUNT=0; VIM=0; NDCBU=0;
169  RELAY=0; GENCOLL=0; EXPCOLL=0; PARC=0; ACCT=0;
170  LEAVEOFC=0; DEVPKPT=0;
171  END;
172
173  *START ROUTE SECTION;
174  IF BARCODE1= 148 THEN DO; *FOOT/LOOP SECTION START;
175  FOOT=1; CURB=0; CENT=0; MOUNT=0; VIM=0; NDCBU=0;

```

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TO INTERROGATORY OF THE OFFICE OF THE CONSUMER ADVOCATE

```
176         RELAY=0; GENCOLL=0; EXPCOLL=0; PARC=0; ACCT=0;
177         END;
178     IF BARCODE1= 155 THEN DO; *MOUNTED-CURBLINE;
179         FOOT=0; CURB=1; CENT=0; MOUNT=0; VIM=0; NDCBU=0;
180         RELAY=0; GENCOLL=0; EXPCOLL=0; PARC=0; ACCT=0;
181         END;
182     IF BARCODE1= 193 THEN DO; *NDCBU;
183         FOOT=0; CURB=0; CENT=0; MOUNT=0; VIM=0; NDCBU=1;
184         RELAY=0; GENCOLL=0; EXPCOLL=0; PARC=0; ACCT=0;
185         END;
186     IF BARCODE1= 209 THEN DO; *CENTRAL;
187         FOOT=0; CURB=0; CENT=1; MOUNT=0; VIM=0; NDCBU=0;
188         RELAY=0; GENCOLL=0; EXPCOLL=0; PARC=0; ACCT=0;
189         END;
190     IF BARCODE1= 216 THEN DO; *VIM;
191         FOOT=0; CURB=0; CENT=0; MOUNT=0; VIM=1; NDCBU=0;
192         RELAY=0; GENCOLL=0; EXPCOLL=0; PARC=0; ACCT=0;
193         END;
194     IF BARCODE1= 261 THEN DO; *DISMOUNT;
195         FOOT=0; CURB=0; CENT=0; MOUNT=1; VIM=0; NDCBU=0;
196         RELAY=0; GENCOLL=0; EXPCOLL=0; PARC=0; ACCT=0;
197         END;
198
199     *START ACTIVITY;
200     IF BARCODE1=315 THEN RELAY=1;
201     IF BARCODE1=322 THEN GENCOLL=1;
202     IF BARCODE1=339 THEN EXPCOLL=1;
203     IF BARCODE1=353 THEN PARC=1;
204     IF BARCODE1=360 THEN ACCT=1;
205     IF BARCODE1=25 THEN LEAVEOFC=1;
206
207     *ARRIVE AND LEAVE DEVIATION PARK POINT;
208     IF BARCODE1=254 THEN DEVPKPT=1; *ARRIVAL AT DEV PK PT;
209     IF BARCODE1=285 THEN DEVPKPT=2; *LEAVE DEV PK PT;
210
211     *FINISH ROUTE SECTION - ALL ACTIVITIES END TOO;
212     IF BARCODE1= 179 OR BARCODE1=186 OR BARCODE1=223 OR
213         BARCODE1=230 OR BARCODE1=247 OR BARCODE1=292 THEN DO;
214         *FINISH SECTION;
215         FOOT=0; CURB=0; CENT=0; MOUNT=0; VIM=0; NDCBU=0;
216         RELAY=0; GENCOLL=0; EXPCOLL=0; PARC=0; ACCT=0;
217         DEVPKPT=0; LEAVEOFC=0;
218         END;
219
220     *END ACTIVITY  END IF REACH END ACTIVITY SCAN OR ANY
221     NON-ADMIN SCAN;
222     IF RELAY=1 THEN DO;
223         IF BARCODE1=315 THEN RELAY=1;
224         ELSE IF BARCODE1=346 THEN RELAY=0;
225         ELSE IF BARCODE1= 32 THEN RELAY=1;
226         ELSE IF BARCODE1= 63 THEN RELAY=1;
227         ELSE IF BARCODE1= 70 THEN RELAY=1;
228         ELSE IF BARCODE1= 87 THEN RELAY=1;
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229     ELSE IF BARCODE1= 94 THEN RELAY=1;
230     ELSE IF BARCODE1= 100 THEN RELAY=1;
231     ELSE IF BARCODE1= 117 THEN RELAY=1;
232     ELSE IF BARCODE1= 124 THEN RELAY=1;
233     ELSE RELAY=0;
234     END;
235     IF GENCOLL=1 THEN DO;
236         IF BARCODE1=322 THEN GENCOLL=1;
237         ELSE IF BARCODE1=391 THEN GENCOLL=0;
238         ELSE IF BARCODE1= 32 THEN GENCOLL=1;
239         ELSE IF BARCODE1= 63 THEN GENCOLL=1;
240         ELSE IF BARCODE1= 100 THEN GENCOLL=1;
241         ELSE IF BARCODE1= 117 THEN GENCOLL=1;
242         ELSE IF BARCODE1= 124 THEN GENCOLL=1;
243         ELSE IF BARCODE1= 94 THEN GENCOLL=1;
244         ELSE IF BARCODE1= 87 THEN GENCOLL=1;
245         ELSE IF BARCODE1= 70 THEN GENCOLL=1;
246         ELSE GENCOLL=0;
247     END;
248     IF EXPCOLL=1 THEN DO;
249         IF BARCODE1=339 THEN EXPCOLL=1;
250         ELSE IF BARCODE1=407 THEN EXPCOLL=0;
251         ELSE IF BARCODE1= 32 THEN EXPCOLL=1;
252         ELSE IF BARCODE1= 63 THEN EXPCOLL=1;
253         ELSE IF BARCODE1=100 THEN EXPCOLL=1;
254         ELSE IF BARCODE1=117 THEN EXPCOLL=1;
255         ELSE IF BARCODE1=124 THEN EXPCOLL=1;
256         ELSE IF BARCODE1= 94 THEN EXPCOLL=1;
257         ELSE IF BARCODE1= 87 THEN EXPCOLL=1;
258         ELSE IF BARCODE1= 70 THEN EXPCOLL=1;
259         ELSE EXPCOLL=0;
260     END;
261     IF PARC=1 THEN DO;
262         IF BARCODE1=353 THEN PARC=1;
263         ELSE IF BARCODE1=377 THEN PARC=0;
264         ELSE IF BARCODE1= 32 THEN PARC=1;
265         ELSE IF BARCODE1= 63 THEN PARC=1;
266         ELSE IF BARCODE1= 100 THEN PARC=1;
267         ELSE IF BARCODE1= 117 THEN PARC=1;
268         ELSE IF BARCODE1= 124 THEN PARC=1;
269         ELSE IF BARCODE1= 94 THEN PARC=1;
270         ELSE IF BARCODE1= 70 THEN PARC=1;
271         ELSE IF BARCODE1= 87 THEN PARC=1;
272         ELSE PARC=0;
273     END;
274     IF ACCT=1 THEN DO;
275         IF BARCODE1=360 THEN ACCT=1;
276         ELSE IF BARCODE1=384 THEN ACCT=0;
277         ELSE IF BARCODE1= 32 THEN ACCT=1;
278         ELSE IF BARCODE1= 63 THEN ACCT=1;
279         ELSE IF BARCODE1= 70 THEN ACCT=1;
280         ELSE IF BARCODE1= 100 THEN ACCT=1;
281         ELSE IF BARCODE1= 117 THEN ACCT=1;
```

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```
282     ELSE IF BARCODE1= 124 THEN ACCT=1;
283     ELSE IF BARCODE1= 94 THEN ACCT=1;
284     ELSE IF BARCODE1= 87 THEN ACCT=1;
285     ELSE ACCT=0;
286     END;
287 *END LEAVE OFFICE AS SOON AS REACH ANY NON-ADMIN SCAN
288 AFTER LEAVING OFFICE;
289 IF LEAVEOFC=1 THEN DO;
290     IF BARCODE1=25 THEN LEAVEOFC=1;
291     ELSE IF BARCODE1= 70 THEN LEAVEOFC=1;
292     ELSE IF BARCODE1= 32 THEN LEAVEOFC=1;
293     ELSE IF BARCODE1= 63 THEN LEAVEOFC=1;
294     ELSE IF BARCODE1= 100 THEN LEAVEOFC=1;
295     ELSE IF BARCODE1= 117 THEN LEAVEOFC=1;
296     ELSE IF BARCODE1= 124 THEN LEAVEOFC=1;
297     ELSE IF BARCODE1= 94 THEN LEAVEOFC=1;
298     ELSE IF BARCODE1= 87 THEN LEAVEOFC=1;
299     ELSE LEAVEOFC=0;
300     END;
301 *END DEVIATION PARK POINT AS SOON AS REACH ANY NON-ADMIN
302 SCAN AFTER A DEVIATION PARK POINT SCAN;
303 IF DEVPKPT=1 OR DEVPKPT=2 THEN DO;
304     IF BARCODE1= 70 THEN DEVPKPT=DEVPKPT;
305     ELSE IF BARCODE1= 32 THEN DEVPKPT=DEVPKPT;
306     ELSE IF BARCODE1= 63 THEN DEVPKPT=DEVPKPT;
307     ELSE IF BARCODE1= 100 THEN DEVPKPT=DEVPKPT;
308     ELSE IF BARCODE1= 117 THEN DEVPKPT=DEVPKPT;
309     ELSE IF BARCODE1= 124 THEN DEVPKPT=DEVPKPT;
310     ELSE IF BARCODE1= 94 THEN DEVPKPT=DEVPKPT;
311     ELSE IF BARCODE1= 87 THEN DEVPKPT=DEVPKPT;
312     ELSE DEVPKPT=0;
313     END;
314 *****
315 ***  FLAGS ALL SET  NOW GO THROUGH SCAN PAIRS AND  ***
316 ***  ASSIGN COST POOLS BASED ON FLAGS IF NEEDED  ***
317 *****
318
319 *END ADMIN START ANOTHER ADMIN;
320 IF (BARCODE1=63 AND BARCODE=32) OR
321 (BARCODE1=63 AND BARCODE=70) OR
322 (BARCODE1=63 AND BARCODE=87) OR
323 (BARCODE1=63 AND BARCODE=94) OR
324 (BARCODE1=100 AND BARCODE=32) OR
325 (BARCODE1=100 AND BARCODE=70) OR
326 (BARCODE1=100 AND BARCODE=87) OR
327 (BARCODE1=100 AND BARCODE=94) OR
328 (BARCODE1=117 AND BARCODE=32) OR
329 (BARCODE1=117 AND BARCODE=70) OR
330 (BARCODE1=117 AND BARCODE=87) OR
331 (BARCODE1=117 AND BARCODE=94) OR
332 (BARCODE1=124 AND BARCODE=32) OR
333 (BARCODE1=124 AND BARCODE=70) OR
334 (BARCODE1=124 AND BARCODE=87) OR
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335         (BARCODE1=124 AND BARCODE=94) THEN DO;
336         IF RELAY=1 THEN    POOL= 'RELAY';
337         ELSE IF GENCOLL=1 THEN POOL= 'GENCOLL';
338         ELSE IF EXPCOLL=1 THEN POOL= 'EXPCOLL';
339         ELSE IF PARC=1 THEN  POOL= 'PARCEL' ;
340         ELSE IF ACCT=1 THEN  POOL= 'ACCOUNT' ;
341         ELSE IF FOOT=1 THEN  POOL= 'LOOPFOOT' ;
342         ELSE IF CURB=1 THEN  POOL= 'CURBLINE' ;
343         ELSE IF CENT=1 THEN  POOL= 'CENTRAL' ;
344         ELSE IF MOUNT=1 THEN POOL= 'DISMOUNT' ;
345         ELSE IF VIM=1 THEN   POOL= 'VIM' ;
346         ELSE IF NDCBU=1 THEN POOL= 'NDCBU' ;
347         ELSE IF (FOOT=0 AND CURB=0 AND CENT=0 AND
348             MOUNT=0 AND VIM=0 AND NDCBU=0 AND
349             LEAVEOFC=0) THEN POOL= 'NETWORK' ;
350         ELSE IF (FOOT=0 AND CURB=0 AND CENT=0 AND
351             MOUNT=0 AND VIM=0 AND NDCBU=0 AND
352             LEAVEOFC=1) THEN POOL= 'TOFROM' ;
353         ELSE IF DEVPKPT=2 THEN POOL= 'DDTRAVEL' ;
354         ELSE IF DEVPKPT=1 THEN POOL= 'PARCACCT' ;
355         ELSE POOL= 'NA' ;
356         END;
357
358         /*END ADMIN - START SECTION*/
359         IF (BARCODE1=63 AND BARCODE=148) OR
360           (BARCODE1=63 AND BARCODE=155) OR
361           (BARCODE1=63 AND BARCODE=193) OR
362           (BARCODE1=63 AND BARCODE=209) OR
363           (BARCODE1=63 AND BARCODE=216) OR
364           (BARCODE1=63 AND BARCODE=261) OR
365           (BARCODE1=100 AND BARCODE=148) OR
366           (BARCODE1=100 AND BARCODE=155) OR
367           (BARCODE1=100 AND BARCODE=193) OR
368           (BARCODE1=100 AND BARCODE=209) OR
369           (BARCODE1=100 AND BARCODE=216) OR
370           (BARCODE1=100 AND BARCODE=261) OR
371           (BARCODE1=117 AND BARCODE=148) OR
372           (BARCODE1=117 AND BARCODE=155) OR
373           (BARCODE1=117 AND BARCODE=193) OR
374           (BARCODE1=117 AND BARCODE=209) OR
375           (BARCODE1=117 AND BARCODE=216) OR
376           (BARCODE1=117 AND BARCODE=261) OR
377           (BARCODE1=124 AND BARCODE=148) OR
378           (BARCODE1=124 AND BARCODE=155) OR
379           (BARCODE1=124 AND BARCODE=193) OR
380           (BARCODE1=124 AND BARCODE=209) OR
381           (BARCODE1=124 AND BARCODE=216) OR
382           (BARCODE1=124 AND BARCODE=261) THEN DO;
383           IF LEAVEOFC=1 THEN POOL = 'TOFROM' ;
384           ELSE IF DEVPKPT=2 THEN POOL = 'DDTRAVEL' ;
385           ELSE IF (CURB=0 AND CENT=0 AND MOUNT=0 AND
386               VIM=0 AND NDCBU=0 AND FOOT=0) THEN
387               POOL= 'NETWORK' ;
```

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```
388         ELSE POOL = 'NA' ;
389         END;
390
391     *END ADMIN - ARRIVE DEVIATION PARK POINT;
392     IF (BARCODE1=63 AND BARCODE=254) OR
393     (BARCODE1=100 AND BARCODE=254) OR
394     (BARCODE1=117 AND BARCODE=254) OR
395     (BARCODE1=124 AND BARCODE=254) THEN DO;
396         IF FOOT=1 THEN POOL = 'LOOPFOOT' ;
397         ELSE IF CURB=1 THEN POOL = 'CURBLINE' ;
398         ELSE IF CENT=1 THEN POOL = 'CENTRAL' ;
399         ELSE IF MOUNT=1 THEN POOL = 'DISMOUNT' ;
400         ELSE IF VIM=1 THEN POOL = 'VIM' ;
401         ELSE IF NDCBU=1 THEN POOL = 'NDCBU' ;
402         ELSE IF LEAVEOFC=1 THEN POOL = 'TOFROM' ;
403         ELSE IF (CURB=0 AND CENT=0 AND MOUNT=0 AND
404             VIM=0 AND NDCBU=0 AND FOOT=0) OR
405             DEVPKPT=2 THEN
406             POOL='DDTRAVEL';
407         ELSE IF RELAY=1 OR PARC=1 OR ACCT=1 OR
408             GENCOLL=1 OR EXPCOLL=1
409             THEN POOL = 'NA';
410         ELSE POOL='DDTRAVEL';
411     END;
412
413     *END ADMIN - START RELAY, GEN COLL, EXP COLL;
414     IF (BARCODE1=63 AND BARCODE=315) OR
415     (BARCODE1=63 AND BARCODE=322) OR
416     (BARCODE1=63 AND BARCODE=339) OR
417     (BARCODE1=100 AND BARCODE=315) OR
418     (BARCODE1=100 AND BARCODE=322) OR
419     (BARCODE1=100 AND BARCODE=339) OR
420     (BARCODE1=117 AND BARCODE=315) OR
421     (BARCODE1=117 AND BARCODE=322) OR
422     (BARCODE1=117 AND BARCODE=339) OR
423     (BARCODE1=124 AND BARCODE=315) OR
424     (BARCODE1=124 AND BARCODE=322) OR
425     (BARCODE1=124 AND BARCODE=339) THEN DO;
426         IF FOOT=1 THEN POOL = 'LOOPFOOT';
427         ELSE IF CURB=1 THEN POOL = 'CURBLINE';
428         ELSE IF CENT=1 THEN POOL = 'CENTRAL';
429         ELSE IF MOUNT=1 THEN POOL = 'DISMOUNT';
430         ELSE IF VIM=1 THEN POOL = 'VIM';
431         ELSE IF NDCBU=1 THEN POOL = 'NDCBU';
432         ELSE IF LEAVEOFC=1 THEN POOL = 'TOFROM';
433         ELSE IF DEVPKPT=2 THEN POOL= 'DDTRAVEL';
434         ELSE IF (CURB=0 AND CENT=0 AND MOUNT=0 AND
435             VIM=0 AND NDCBU=0 AND FOOT=0 AND
436             RELAY=0 AND GENCOLL=0 AND EXPCOLL=0
437             AND PARC=0 AND ACCT=0) THEN
438             POOL='NETWORK';
439         ELSE POOL='NA';
440     END;
```

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```
441
442 *END ADMIN - START PARCEL OR ACCT DELIVERY;
443 IF (BARCODE1=63 AND BARCODE=353) OR
444 (BARCODE1=100 AND BARCODE=353) OR
445 (BARCODE1=117 AND BARCODE=353) OR
446 (BARCODE1=124 AND BARCODE=353) THEN DO;
447 IF DEVPKPT=1 THEN POOL = 'PARCEL';
448 ELSE IF FOOT=1 THEN POOL = 'LOOPFOOT';
449 ELSE IF CURB=1 THEN POOL = 'CURBLINE';
450 ELSE IF CENT=1 THEN POOL = 'CENTRAL';
451 ELSE IF MOUNT=1 THEN POOL = 'DISMOUNT';
452 ELSE IF VIM=1 THEN POOL = 'VIM';
453 ELSE IF NDCBU=1 THEN POOL = 'NDCBU';
454 ELSE IF LEAVEOFC=1 THEN POOL = 'TOFROM';
455 ELSE IF DEVPKPT=2 THEN POOL= 'DDTRAVEL';
456 ELSE IF (CURB=0 AND CENT=0 AND MOUNT=0 AND
457 VIM=0 AND NDCBU=0 AND FOOT=0 AND
458 RELAY=0 AND GENCOLL=0 AND EXPCOLL=0
459 AND PARC=0 AND ACCT=0) THEN
460 POOL='NETWORK';
461 ELSE POOL='NA';
462 END;
463
464 IF (BARCODE1=63 AND BARCODE=360) OR
465 (BARCODE1=100 AND BARCODE=360) OR
466 (BARCODE1=117 AND BARCODE=360) OR
467 (BARCODE1=124 AND BARCODE=360) THEN DO;
468 IF DEVPKPT=1 THEN POOL = 'ACCOUNT';
469 ELSE IF FOOT=1 THEN POOL = 'LOOPFOOT';
470 ELSE IF CURB=1 THEN POOL = 'CURBLINE';
471 ELSE IF CENT=1 THEN POOL = 'CENTRAL';
472 ELSE IF MOUNT=1 THEN POOL = 'DISMOUNT';
473 ELSE IF VIM=1 THEN POOL = 'VIM';
474 ELSE IF NDCBU=1 THEN POOL = 'NDCBU';
475 ELSE IF LEAVEOFC=1 THEN POOL = 'TOFROM';
476 ELSE IF DEVPKPT=2 THEN POOL= 'DDTRAVEL';
477 ELSE IF (CURB=0 AND CENT=0 AND MOUNT=0 AND
478 VIM=0 AND NDCBU=0 AND FOOT=0 AND
479 RELAY=0 AND GENCOLL=0 AND EXPCOLL=0
480 AND PARC=0 AND ACCT=0) THEN
481 POOL='NETWORK';
482 ELSE POOL='NA';
483 END;
484
485 *END ADMIN - END SECTION;
486 IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
487 BARCODE1=124) AND BARCODE=179 THEN DO;
488 IF FOOT=1 THEN POOL = 'LOOPFOOT';
489 ELSE POOL='NA';
490 END;
491 IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
492 BARCODE1=124) AND BARCODE=186 THEN DO;
493 IF CURB=1 THEN POOL = 'CURBLINE';
```

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494         ELSE POOL='NA';
495         END;
496
497         IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
498           BARCODE1=124) AND BARCODE=223 THEN DO;
499           IF NDCBU=1 THEN POOL = 'NDCBU';
500           ELSE POOL='NA';
501           END;
502
503         IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
504           BARCODE1=124) AND BARCODE=230 THEN DO;
505           IF CENT=1 THEN POOL = 'CENTRAL';
506           ELSE POOL='NA';
507           END;
508
509         IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
510           BARCODE1=124) AND BARCODE=247 THEN DO;
511           IF VIM=1 THEN POOL = 'VIM';
512           ELSE POOL='NA';
513           END;
514
515         IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
516           BARCODE1=124) AND BARCODE=292 THEN DO;
517           IF MOUNT=1 THEN POOL = 'DISMOUNT';
518           ELSE POOL='NA';
519           END;
520
521         *END ADMIN - LEAVE DEVIATION PARK POINT;
522         IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
523           BARCODE1=124) AND BARCODE=285 THEN DO;
524           IF DEVPKPT = 1 AND PARC=1 THEN DO;
525             POOL='PARCEL';
526             END;
527           ELSE IF DEVPKPT=1 AND ACCT=1 THEN DO;
528             POOL='ACCOUNT';
529             END;
530           ELSE POOL='NA';
531           END;
532
533         *END ADMIN - END ACTIVITY;
534         IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
535           BARCODE1=124) AND BARCODE=346 THEN DO;
536           IF RELAY=1 THEN POOL='RELAY';
537           END;
538
539         IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
540           BARCODE1=124) AND BARCODE=377 THEN DO;
541           IF PARC=1 THEN POOL='PARCEL';
542           END;
543
544         IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
545           BARCODE1=124) AND BARCODE=384 THEN DO;
546           IF ACCT=1 THEN POOL='ACCOUNT';
```

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547 END;
548
549 IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
550 BARCODE1=124) AND BARCODE=391 THEN DO;
551 IF GENCOLL=1 THEN POOL='GENCOLL';
552 END;
553
554 IF (BARCODE1=63 OR BARCODE1=100 OR BARCODE1=117 OR
555 BARCODE1=124) AND BARCODE=407 THEN DO;
556 IF EXPCOLL=1 THEN POOL='EXPCOLL';
557 END;
558
559 *LEAVE DEVIATION PARK PT - START ADMIN;
560 IF BARCODE1=285 AND (BARCODE=32 OR BARCODE=70 OR
561 BARCODE=87 OR BARCODE=94) THEN DO;
562 IF FOOT=1 THEN POOL = 'LOOPFOOT';
563 ELSE IF CURB=1 THEN POOL = 'CURBLINE';
564 ELSE IF CENT=1 THEN POOL = 'CENTRAL';
565 ELSE IF MOUNT=1 THEN POOL = 'DISMOUNT';
566 ELSE IF VIM=1 THEN POOL = 'VIM';
567 ELSE IF NDCBU=1 THEN POOL = 'NDCBU';
568 ELSE POOL = 'DDTRAVEL';
569 END;
570
571 *END ACTIVITY - START ADMIN;
572 IF (BARCODE1=346 OR BARCODE1=377 OR BARCODE1=384 OR
573 BARCODE1=391 OR BARCODE1=407) AND
574 (BARCODE=32 OR BARCODE=70 OR BARCODE=87 OR
575 BARCODE=94) THEN DO;
576 IF FOOT=1 THEN POOL = 'LOOPFOOT';
577 ELSE IF CURB=1 THEN POOL = 'CURBLINE';
578 ELSE IF CENT=1 THEN POOL = 'CENTRAL';
579 ELSE IF MOUNT=1 THEN POOL = 'DISMOUNT';
580 ELSE IF VIM=1 THEN POOL = 'VIM';
581 ELSE IF NDCBU=1 THEN POOL = 'NDCBU';
582 ELSE POOL = 'NETWORK';
583 END;
584
585 *END SECTION WHILE NOT IN SECTION IS ILLEGAL;
586 IF BARCODE = 179 AND FOOT=0 THEN POOL = 'NA';
587 IF BARCODE = 186 AND CURB=0 THEN POOL = 'NA';
588 IF BARCODE = 223 AND NDCBU=0 THEN POOL = 'NA';
589 IF BARCODE = 247 AND VIM=0 THEN POOL = 'NA';
590 IF BARCODE = 292 AND MOUNT=0 THEN POOL = 'NA';
591 IF BARCODE = 230 AND CENT=0 THEN POOL = 'NA';
592
593 *START SECTION WHILE IN A SECTION IS ILLEGAL;
594 IF BARCODE=148 OR BARCODE=155 OR BARCODE=193 OR
595 BARCODE=209 OR BARCODE=216 OR BARCODE=261 THEN DO;
596 IF FOOT=1 OR CURB=1 OR NDCBU=1 OR
597 VIM=1 OR NDCBU=1 OR CENT=1 THEN POOL='NA';
598 END;
599

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

```

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: The DATA statement used 10.97 CPU seconds and 9560K.

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```
649 DATA MPOOL; SET MPOOL;  
650 DROP FOOT CURB CENT MOUNT VIM NDCBU DEVPKPT LEAVEOFC  
651 PARC ACCT RELAY GENCOLL EXPCOLL;  
652 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: The DATA statement used 3.84 CPU seconds and 9560K.

```
653 PROC SORT DATA=MPOOL; BY DATE RTEZIP ROUTENO POOL;  
654 ;  
655 /*FIRST SUM UP THE COST POOL TIME FOR EACH ROUTE DAY*/
```

NOTE: 263 cylinders dynamically allocated on SYSDA for each of 3 sort work data sets.
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: The PROCEDURE SORT used 7.92 CPU seconds and 9560K.

```
656 PROC MEANS DATA=MPOOL NOPRINT;  
657 BY DATE RTEZIP ROUTENO POOL;  
658 VAR ETOD;  
659 OUTPUT OUT=MOUT SUM=;  
660 ;  
661 /*ALSO SUM UP THE NUMBER OF DELIVERIES FOR EACH ROUTE DAY  
662 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: The PROCEDURE MEANS used 6.50 CPU seconds and 9903K.

```
663 PROC MEANS DATA=MPOOL NOPRINT;  
664 BY DATE RTEZIP ROUTENO;  
665 ID BCURB BNDCBU BCENT BOTHR RCURB RNDCBU RCENT ROTHM DELMODE;  
666 VAR ETOD;  
667 OUTPUT OUT=TOTT SUM=TOTTIME;  
668 *;  
669 /*THIS NEXT SECTION GENERATES ONE RECORD FOR EACH ROUTE DAY,  
670 WITH THE TOTAL TIME IN EACH COST POOL, AS WELL AS TOTAL  
671 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: The PROCEDURE MEANS used 5.84 CPU seconds and 9903K.

```
672 DATA LOOPFOOT CURBLINE NDCBU VIM CENTRAL DISMOUNT  
673 NONSTRT PREP TOFROM NETWORK DDTRAVEL TRAVEL  
674 RELAY GENCOLL EXPCOLL  
675 PARCEL ACCOUNT PARCACCT OFFCLOCK NA ERROR;  
676 SET MOUT;  
677 IF POOL='NETWORK' THEN OUTPUT NETWORK;  
678 ELSE IF POOL='DDTRAVEL' THEN OUTPUT DDTRAVEL;  
679 ELSE IF POOL='LOOPFOOT' THEN OUTPUT LOOPFOOT;
```

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```
680     ELSE IF POOL='CURBLINE' THEN OUTPUT CURBLINE;  
681     ELSE IF POOL='NDCBU' THEN OUTPUT NDCBU;  
682     ELSE IF POOL='VIM' THEN OUTPUT VIM;  
683     ELSE IF POOL='CENTRAL' THEN OUTPUT CENTRAL;  
684     ELSE IF POOL='DISMOUNT' THEN OUTPUT DISMOUNT;  
685     ELSE IF POOL='NONSTRT' THEN OUTPUT NONSTRT;  
686     ELSE IF POOL='PREP' THEN OUTPUT PREP;  
687     ELSE IF POOL='OFFCLOCK' THEN OUTPUT OFFCLOCK;  
688     ELSE IF POOL='TOFROM' THEN OUTPUT TOFROM;  
689     ELSE IF POOL='RELAY' THEN OUTPUT RELAY;  
690     ELSE IF POOL='GENCOLL' THEN OUTPUT GENCOLL;  
691     ELSE IF POOL='EXPCOLL' THEN OUTPUT EXPCOLL;  
692     ELSE IF POOL='PARCEL' THEN OUTPUT PARCEL;  
693     ELSE IF POOL='ACCOUNT' THEN OUTPUT ACCOUNT;  
694     ELSE IF POOL='TRAVEL' THEN OUTPUT TRAVEL;  
695     ELSE IF POOL='PARCACCT' THEN OUTPUT PARCACCT;  
696     ELSE IF POOL='NA' THEN OUTPUT NA;  
697     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.
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: The DATA statement used 0.69 CPU seconds and 11567K.

```
698     PROC PRINT DATA=ERROR (OBS=25);  
699     TITLE 'SCANS WITH NO COST POOL ASSIGMENT';  
700     *;
```

NOTE: No observations in data set WORK.ERROR.
NOTE: The PROCEDURE PRINT used 0.00 CPU seconds and 11650K.

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

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

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NOTE: The data set WORK.NETWORK has 30514 observations and 7 variables.
NOTE: The DATA statement used 0.06 CPU seconds and 11650K.

702 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: The DATA statement used 0.01 CPU seconds and 11650K.

703 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: The DATA statement used 0.04 CPU seconds and 11650K.

704 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: The DATA statement used 0.03 CPU seconds and 11650K.

705 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: The DATA statement used 0.02 CPU seconds and 11650K.

706 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: The DATA statement used 0.01 CPU seconds and 11650K.

707 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: The DATA statement used 0.03 CPU seconds and 11650K.

708 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: The DATA statement used 0.03 CPU seconds and 11650K.

709 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: The DATA statement used 0.04 CPU seconds and 11650K.

710 DATA PREP; SET PREP; PREP=ETOD; DROP ETOD;

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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: The DATA statement used 0.05 CPU seconds and 11650K.

711 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: The DATA statement used 0.05 CPU seconds and 11650K.

712 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: The DATA statement used 0.06 CPU seconds and 11650K.

713 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: The DATA statement used 0.01 CPU seconds and 11650K.

714 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: The DATA statement used 0.01 CPU seconds and 11650K.

715 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: The DATA statement used 0.01 CPU seconds and 11650K.

716 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: The DATA statement used 0.05 CPU seconds and 11650K.

717 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: The DATA statement used 0.04 CPU seconds and 11650K.

718 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: The DATA statement used 0.01 CPU seconds and 11650K.

719 DATA TRAVEL; SET TRAVEL; TRAVEL=ETOD; DROP ETOD;

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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: The DATA statement used 0.02 CPU seconds and 11650K.

720 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: The DATA statement used 0.05 CPU seconds and 11650K.

721 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: The PROCEDURE SORT used 0.10 CPU seconds and 12418K.

722 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: The PROCEDURE SORT used 0.07 CPU seconds and 12418K.

723 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: The PROCEDURE SORT used 0.02 CPU seconds and 12418K.

724 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: The PROCEDURE SORT used 0.05 CPU seconds and 12418K.

725 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: The PROCEDURE SORT used 0.04 CPU seconds and 12418K.

726 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: The PROCEDURE SORT used 0.00 CPU seconds and 12418K.

727 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.
NOTE: The PROCEDURE SORT used 0.04 CPU seconds and 12418K.

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728 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: The PROCEDURE SORT used 0.05 CPU seconds and 12418K.

729 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: The PROCEDURE SORT used 0.07 CPU seconds and 12418K.

730 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: The PROCEDURE SORT used 0.09 CPU seconds and 12418K.

731 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: The PROCEDURE SORT used 0.08 CPU seconds and 12418K.

732 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: The PROCEDURE SORT used 0.10 CPU seconds and 12418K.

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

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: The PROCEDURE SORT used 0.01 CPU seconds and 12418K.

734 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: The PROCEDURE SORT used 0.01 CPU seconds and 12418K.

735 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: The PROCEDURE SORT used 0.00 CPU seconds and 12418K.

736 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.

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NOTE: The PROCEDURE SORT used 0.09 CPU seconds and 12418K.

737 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: The PROCEDURE SORT used 0.07 CPU seconds and 12418K.

738 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: The PROCEDURE SORT used 0.02 CPU seconds and 12418K.

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

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: The PROCEDURE SORT used 0.04 CPU seconds and 12418K.

740 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: The PROCEDURE SORT used 0.08 CPU seconds and 12418K.

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

742 /*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: The PROCEDURE SORT used 0.14 CPU seconds and 12418K.

743 DATA ALL; MERGE TOTT

744 NETWORK LOOPFOOT CURBLINE NDCBU VIM CENTRAL DISMOUNT

745 NONSTRT PREP OFFCLOCK TOFROM RELAY GENCOLL EXPCOLL

746 PARCEL ACCOUNT PARCACCT TRAVEL DDTRAVEL NA;

747 BY DATE RTEZIP ROUTENO;

748 IF NETWORK=. THEN NETWORK=0;

749 IF LOOPFOOT=. THEN LOOPFOOT=0;

750 IF DDTRAVEL=. THEN DDTRAVEL=0;

751 IF CURBLINE=. THEN CURBLINE=0;

752 IF NDCBU=. THEN NDCBU=0;

753 IF VIM=. THEN VIM=0;

754 IF CENTRAL=. THEN CENTRAL=0;

755 IF DISMOUNT=. THEN DISMOUNT=0;

756 IF NONSTRT=. THEN NONSTRT=0;

757 IF PREP=. THEN PREP=0;

758 IF OFFCLOCK=. THEN OFFCLOCK=0;

759 IF TOFROM=. THEN TOFROM=0;

760 IF RELAY=. THEN RELAY=0;

761 IF GENCOLL=. THEN GENCOLL=0;

762 IF EXPCOLL=. THEN EXPCOLL=0;

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```

763     IF PARCEL=. THEN PARCEL=0;
764     IF ACCOUNT=. THEN ACCOUNT=0;
765     IF PARCACCT=. THEN PARCACCT=0;
766     IF TRAVEL=. THEN TRAVEL=0;
767     IF NA=. THEN NA=0;
768     IF (PREP + TOFROM) GT 0 THEN DO;
769         PREPN=PREP+(TRAVEL*PREP/(PREP+TOFROM));
770         TOFROMN=TOFROM+(TRAVEL*TOFROM/(PREP+TOFROM));
771     END;
772     ELSE IF (PREP + TOFROM)=0 AND TRAVEL GT 0 THEN
773         TOFROMN = TRAVEL;
774     TOFROM=TOFROMN;
775     PREP=PREPN;
776     PARCACCT=PARCACCT+PARCEL+ACCOUNT;
777     *****
778     ***WRITE OUT ROUTE DAY FILE                ***
779     *****

```

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: The DATA statement used 2.41 CPU seconds and 13442K.

```

780     DATA _NULL_; SET ALL;
781     FILE OUT2;
782     PUT RTEZIP DATE MMDDYY8. ROUTENO DELMODE
783         BCURB BNDCBU BCENT BOTHR RCURB RNDCBU RCENT ROTH
784         LOOPFOOT CURBLINE NDCBU VIM CENTRAL DISMOUNT
785         NONSTRT PREP TOFROM NETWORK DDTRAVEL
786         RELAY GENCOLL EXPCOLL
787         PARCACCT OFFCLOCK NA TOTTIME;
788     *****
789     *** THE ABOVE OUTPUT FILE GOES TO M. BRADLEY TO MATCH WITH ***
790     *** VOLUMES FOR VARIABILITY ANALYSIS                ***

```

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```
791 *****.  
792 **** THE FOLLOWING CODE GENERATES THE COST POOL PROPORTIONS ***;  
793 **** TO USE IN THE CRA SPREADSHEETS ****;  
794 *****.  
795 /*THIS NEXT SECTION MULTIPLIES THE COST POOL TOTALS BY THE  
796 SAMPLE WEIGHTS*/
```

NOTE: The file OUT2 is:

```
Dsname=H30005.MDCD.COSTPOOL.FINAL.DATA,  
Unit=3390,Volume=T0AAC7,Disp=NEW,Blksize=6000,  
Lrecl=300,Recfm=FB
```

NOTE: 36290 records were written to the file OUT2.

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

NOTE: The DATA statement used 2.74 CPU seconds and 13474K.

```
797 DATA WEIGHTS; INFILE WEIGHTS;  
798 INPUT RTEZIP WGT;
```

NOTE: The infile WEIGHTS is:

```
Dsname=H30005.MDCD.WEIGHTS.MASKZIPS.DATA,  
Unit=3390,Volume=T0AA72,Disp=SHR,Blksize=6000,  
Lrecl=30,Recfm=FB
```

NOTE: 167 records were read from the infile WEIGHTS.

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

NOTE: The DATA statement used 0.01 CPU seconds and 13474K.

```
799 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: The PROCEDURE SORT used 0.00 CPU seconds and 13474K.

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

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

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

NOTE: The PROCEDURE SORT used 0.24 CPU seconds and 13474K.

```
801 DATA WALL; MERGE ALL (IN=A) WEIGHTS; BY RTEZIP;  
802 IF A=1;  
803 IF WGT=. THEN DELETE;  
804 LOOPFOOT=LOOPFOOT*WGT;  
805 CURBLINE=CURBLINE*WGT;  
806 NDCBU=NDCBU*WGT;  
807 VIM=VIM*WGT;  
808 CENTRAL=CENTRAL*WGT;  
809 DISMOUNT=DISMOUNT*WGT;  
810 NONSTRT=NONSTRT*WGT;  
811 PREP=PREP*WGT;  
812 TOFROM=TOFROM*WGT;  
813 NETWORK=NETWORK*WGT;
```

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```

814     DDTRAVEL=DDTRAVEL*WGT;
815     RELAY=RELAY*WGT;
816     GENCOLL=GENCOLL*WGT;
817     EXPCOLL=EXPCOLL*WGT;
818     PARCEL=PARCEL*WGT;
819     ACCOUNT=ACCOUNT*WGT;
820     TRAVEL=TRAVEL*WGT;
821     PARCACCT=PARCACCT*WGT;
822     OFFCLOCK=OFFCLOCK*WGT;
823     NA=NA*WGT;
824     TOTTIME=TOTTIME*WGT;
825     /* APPORTION 'TRAVEL' TIME THAT COULD BE EITHER PREP OR TO/FROM
826        TIME TO PREP AND TO/FROM BASED ON THEIR PROPORTIONS IN THE
827        ROUTE DAY*/
828     IF (PREP + TOFROM) GT 0 THEN DO;
829         PREPN=PREP+(TRAVEL*PREP/(PREP+TOFROM));
830         TOFROMN=TOFROM+(TRAVEL*TOFROM/(PREP+TOFROM));
831     END;
832     ELSE IF (PREP + TOFROM)=0 AND TRAVEL GT 0 THEN
833         TOFROMN = TRAVEL;
834     TOFROM=TOFROMN;
835     PREP=PREPN;
836     PARCACCT=PARCACCT+PARCEL+ACCOUNT;

```

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 811:13 1151 at 812:17 4512 at 828:13 4512 at 832:18

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: The DATA statement used 0.29 CPU seconds and 13474K.

```

837     PROC SORT DATA=WALL; BY DELMODE;
838     ;
839     *****;
840     ***DO FINAL SUMMARY OF COST POOL TIMES BY DELIVERY MODE ***;
841     ***READ INPUT INTO A SPREADSHEET AND CALCULATE PROPORTIONS OF***;
842     ***TOTAL TIME FOR ALL DELIVERY MODES ***;
843     *****;

```

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: The PROCEDURE SORT used 0.24 CPU seconds and 13474K.

```

844     PROC MEANS DATA=WALL NOPRINT;
845     BY DELMODE;
846     VAR
847         LOOPFOOT CURBLINE NDCBU VIM CENTRAL DISMOUNT
848         PREP TOFROM NETWORK
849         RELAY GENCOLL EXPCOLL
850         PARCACCT DDTRAVEL NONSTR OFFCLOCK NA TOTTIME;
851     OUTPUT OUT=WOUT SUM=;

```

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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: The PROCEDURE MEANS used 0.24 CPU seconds and 13474K.

```
852 DATA _NULL_; SET WOUT;  
853 FILE OUT1;  
854 PUT DELMODE  
855     LOOPFOOT CURBLINE NDCBU VIM CENTRAL DISMOUNT  
856     PREP TOFROM NETWORK  
857     RELAY GENCOLL EXPCOLL  
858     PARCACCT DDTRAVEL NONSTRT OFFCLOCK NA TOTTIME;
```

NOTE: The file OUT1 is:
Dname=H30005.MDCD.CPSUM.FINAL.DATA,
Unit=3390,Volume=T0AA57,Disp=NEW,Blksize=6000,
Lrecl=300,Recfm=FB

NOTE: 6 records were written to the file OUT1.
NOTE: There were 6 observations read from the data set WORK.WOUT.
NOTE: The DATA statement used 0.02 CPU seconds and 13474K.

b. The line in the CPFINAL.SAS

```
TOD=INPUT(CTIME, TIME8.)
```

takes the string variable CTIME (read in the prior INPUT statement) and converts it into the SAS internal representation for time. This allows SAS to perform math calculations on the TOD variable, including a calculation of the elapsed time between scans.

c - f. Please see the program LOG listed in the response to 6a above.

DATA COLL, POOLS, and WEIGHTS are not files. They are identifiers used to connect the SAS input statements to the datasets that these statements refer to.

Thus, the statement "infile DATA COLL" at line 2 of the program LOG identifies

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the input dataset that the statements in lines 3–21 of the LOG refer to.

Moreover, the statements following line 29 of the LOG identify this input dataset as being MDCD.ARCHIVE.SUBSET.V4MASK.DATA. In the same manner, the statement “INFILE POOLS” at line 122 refers to the input dataset MDCD.SCAN6.TEXT, and the statement “INFILE WEIGHTS” at line 797 refers to the input dataset MDCD.WEIGHTS.MASKZIPS.DATA.

CERTIFICATE OF SERVICE

I hereby certify that I have this date served the foregoing document in accordance with Section 12 of the Rules of Practice and Procedure.

Eric P. Koetting

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