

MAIL CHARACTERISTICS STUDIES (Public Version)

I. PREFACE

A. Purpose and Content

USPS-FY15-14 documents the development of a number of volume and parameter estimates used in the preparation of the 2015 ACR. The section titled “RPW by Shape and Indicia” describes the development of revenue, piece and weight estimates by shape and indicia. Standard Mail and First-Class Mail estimates by weight increment are also developed. The “Mail Characteristics” section describes the development of preparation and entry characteristics for Standard Mail flats and letters, and for Periodicals flats. The re-calibration of the First-Class Mail Characteristics Study (Docket No. R2006-1, LR-L-32) is also described in the “Mail Characteristics” section. The “Coverage Factor Updating” section describes the methodology used to update coverage factor parameters for the flats mail processing models.

The methodology is not changed from Docket No. ACR2014, however numerous additional rate elements have been introduced since Docket No. ACR2014, including Table 14 which is required to calibrate the Standard Mail Flats model for the estimation of the cost differential between Carrier Route flats and Carrier Route Flats on CRRTS pallets as approved in Commission Order No. 2741 (Oct. 1, 2015). In this analysis, the mapping of these new categories follows mappings used in the RPW report.

As requested in Order No. 2741, information is provided in Table 4 of USPS-FY15-14 on the composition of non-CRRTS 5-Digit pallets, disaggregating these pallets between 5-Digit Merged pallets and 5-Digit Presort pallets.

B. Predecessor Documents

USPS-FY14-14, USPS-FY13-14, USPS-FY12-14, Docket No. ACR 2012, USPS-FY11-14, Docket No. ACR 2011 USPS-FY10-14 in Docket No. ACR2010, USPS-FY09-14 in Docket No. ACR2009, USPS-FY08-14 in Docket No. ACR2008, USPS-FY07-14 filed in Docket No. ACR2007, and Docket No. R2001-1, USPS-LR-J-63 for Density Study

C. Corresponding Non-Public Document

USPS-FY15-NP25

D. Methodology

1. RPW by Shape and Indicia

i. Introduction

Official estimates of revenue, pieces, and weight for First-Class Mail, Periodicals, and Standard Mail are developed by the Revenue, Volume, and Performance Measurement group. The primary data sources for those estimates are the Corporate Business Customer Information System (CBCIS) and the domestic ODIS/RPW sample. The CBCIS draws input from the PostalOne! bulk mail acceptance system. These data sources are also used in this analysis, but the methods used here are somewhat different. The methodology here focuses on the distribution of mail activity by shape. Such distributions are not computed in the official estimates. Since the input data are the same and the methodologies are similar, there is general consistency between the official estimates and those reported here. The similarity of the methods employed here are functionally identical to those used by the Revenue, Volume and Performance Measurement group since the methodology approved in Commission Order No. 354 in Docket No. RM2009-7. As a point of emphasis, the estimates reported here are used only as relative percentages to distribute the official estimates across mail characteristics. No methodological changes have been made since Docket No. ACR 2014.

ii. Methodology Overview for Presort Mail

Estimates of revenue, pieces, and weight by shape for presort First-Class Mail, Periodicals, and Standard Mail (and weight increment for First-Class Mail and Standard Mail) are based on postage statement data from the PostalOne! bulk mail entry system. These estimates form distribution keys to be applied to the reported RPW estimates. Not all Post Offices report through the PostalOne! system. First-Class Mail, Periodicals, and Standard Mail data obtained through the PostalOne! system are stratified by Post Office size and inflated to represent all mail in these classes.

The PostalOne! system is used to record and verify postage at many bulk mail acceptance locations. The system records revenue, pieces, and weight by individual rate elements, which are identified by a five digit numeric code. These codes are referred to as Volume Information Profile (VIP) codes. VIP code information is available for each postage statement submitted at PostalOne! equipped offices. The postage statement also includes the processing category, which is used to determine the shape of all pieces within a transaction.

In Standard Mail, piece and weight information for each VIP code is used to determine the weight increment of the pieces. The average weight of the VIP code within the transaction is used to assign the weight increment.

As mentioned above, the PostalOne! system does not report data for all bulk-entered mail. The non-PostalOne! offices are small relative to PostalOne! offices

in terms of total revenue from bulk-entered mail. Non-PostalOne! offices are represented by PostalOne! offices of similar size. (PostalOne! offices that show wide volume swings during the year are not used to represent non-PostalOne! offices.) This general stratification scheme is used for First-Class Mail, Periodicals, and Standard Mail.

Offices are ranked by an appropriate revenue variable, dependent on the class of mail. (See each class description below). After offices are ranked, they are grouped into strata of similar revenue size. There is an independent stratification of offices for First-Class Mail, Periodicals In-County, Periodicals Outside County, Standard Mail regular, and Standard Mail nonprofit. The total revenue in each stratum is computed from the Trial Balance, the PostalOne! system, and/or estimation methods. The total revenue includes revenue from both PostalOne! and non-PostalOne! system offices.

Once the strata are determined, the PostalOne! office data within each stratum are inflated to the stratum revenue total. The inflated data are then summed across strata to provide estimates for the class or subclass by rate element. The estimates are used to form distribution keys and applied to the official RPW estimates.

iii. Post Office Stratification

a. Overview

In each mail class, the map of Post Office to stratum is defined using a hybrid year's worth of revenue data – FY2014 Q4 through FY2015 Q3. Each year new Post Offices are added to the PostalOne! system. Offices may begin reporting data any time in the year. It is not possible to determine the office size based on part-year data. Generally, new reporting offices are small. In each class, newly reporting offices are assigned to the smallest stratum.

In the stratification process for each class, Post Office revenue excludes U. S. Government mail. Government mail is measured separately, and is not inflated or controlled. This estimate of government activity is added to the final estimates of non-government activity.

b. First-Class Mail

A specific variable is chosen to rank Post Offices by size so that strata may be defined. The most appropriate variable for this purpose would be total First-Class Mail presort revenue. Unfortunately, one segment of this amount, metered and stamped presort revenue at non-PostalOne! offices, is not available in any data source. Metered and stamped revenue accounts in the Trial Balance cover all mail classes and do not distinguish First-Class Mail presort revenue. The ranking and stratification for First-Class Mail therefore is accomplished in multiple steps. First, PostalOne! offices are ranked by the sum of PostalOne! system permit imprint presort revenue plus PostalOne! system metered and stamped presort revenue. PostalOne! offices are then divided into 8 revenue size strata.

Next, average permit imprint revenue within each stratum is computed across PostalOne! offices. These averages are used to assign non-PostalOne! offices to strata. Each non-PostalOne! office is assigned to the stratum that has the PostalOne! average permit imprint revenue closest to its own Trial Balance permit imprint revenue.

c. Periodicals

Since all Periodicals publications use permit imprints, permit imprint revenue reported in the Trial Balance is used to rank offices. These data are available for both PostalOne! and non-PostalOne! offices.

Two separate stratification schemes are developed for Periodicals—one for Outside County and another for In-County rates. In-County and Outside County revenues are reported separately in the Trial Balance. Offices are ranked from largest to smallest revenue and allocated to 6 office size strata for Outside County and 8 office size strata for In-County rates.

d. Standard Mail

Over 94 percent of Standard Mail revenue is submitted via permit imprint. Due to the small effect of metered and stamped mail, all offices are ranked and stratified based on Trial Balance permit imprint revenue. A separate ranking and stratification is made for regular and nonprofit subclasses. Offices are stratified in each subclass into 7 revenue strata.

iv. Postage Statement Data Processing

Transaction records from the PostalOne! system are aggregated into a set of arrays by month. Each record is checked for internal consistency with respect to published rates and weight limits. The arrays contain revenue, pieces (also copies for Periodicals), and weight, indexed by the rate category of mail, the stratum of the office where the mail was entered, the processing category (letters, flats, or parcels), the indicia (permit imprint or metered and stamped), and weight increment for Standard Mail. These arrays reduce the large quantity of transaction level data to the minimum detail required to produce the final estimates.

v. Inflation Process

For all classes, the PostalOne! transactions in each stratum are inflated based on the total revenue in each stratum. The computed revenue control factor is applied to pieces and weight data as well, while maintaining the full array of detail on rate element and other characteristics. Final results are computed by summing the inflated strata results over all strata.

The revenue control in each stratum is developed separately for permit imprint revenues and metered and stamped revenues for First-Class Mail and Standard

Mail. Periodicals has no metered and stamped revenue. Permit imprint revenues are reported individually by class and Post Office in the Trial Balance. There is general consistency between Trial Balance permit imprint revenues and PostalOne! system revenues. For the permit imprint portion of the revenue control, Trial Balance permit imprint revenues are used.

The Trial Balance does not uniquely identify metered and stamped revenue resulting from bulk transactions. These revenues are reported together with metered and stamped revenue for many mail classes. As such, the Trial Balance cannot be used for the metered and stamped portion of the revenue control. At PostalOne! offices, the metered and stamped portion of the revenue control comes directly from the PostalOne! system. At non-PostalOne! offices the metered and stamped portion is estimated.

vi. Estimating Metered and Stamped Revenue at Non-PostalOne! Offices

Metered and stamped revenue estimates at non-PostalOne! offices are obtained using revenue ratios constructed from PostalOne! office revenue and Trial Balance revenue. First-Class Mail and Standard Mail ratios are constructed for each stratum by each Postal quarter. The numerator of the ratio is metered and stamped revenue for a given class of each PostalOne! office in the stratum. This value comes from the PostalOne! system. The denominator of the ratio is Trial Balance metered and stamped revenue for all mail classes for the same PostalOne! offices in the stratum. The ratio is an estimate of the share of all metered and stamped revenue in the stratum that is of that particular class of mail. The estimated metered and stamped revenue of each non-PostalOne! office in the stratum is computed by multiplying their Trial Balance metered and stamped revenue by the stratum revenue ratio.

vii. First-Class Mail Single Piece Mail

Single piece estimates by shape and indicia are needed for First-Class Mail. Single piece input data come from the domestic ODIS/RPW sample data files. These data files include the proper sample inflation factors for each mail piece. All records are inflated using these factors and aggregated to mail category code, shape, and indicia.

vii. Revenue, Piece, and Weight Estimates by Mail Characteristics

a. First-Class Mail

For First-Class Mail, in each quarter, the presort estimates by shape are controlled to revenue, pieces, and weight as reported in the RPW system for each RPW mail category. Single piece volume and weight estimates by indicia are controlled to RPW single piece estimates.

b. Periodicals

The Periodicals control to RPW is more elaborate due to the piece, weight, and discount portions of the rate structure. Pieces from the piece portion and weight from the weight portion are controlled to RPW pieces and weight, respectively.

These same factors are applied to piece portion revenue and weight portion revenue, respectively. These adjusted piece and weight portion revenues plus the revenue discounts are then controlled to the RPW revenue total. Piece portion copies are controlled by the same factor as pieces. Weight portion copies are then controlled to these resulting piece portion copies. Lastly, piece portion weight is controlled to weight portion weight.

c. Standard Mail

The results of the inflation procedure for Standard Mail transactions in the PostalOne! system are used to develop shape and weight increment distribution keys for each rate element. Keys are developed by Postal quarter, for each of revenue, pieces, and weight. The distribution keys for two small rate categories, Standard Mail paid at First-Class Mail rates and Standard Mail paid at Priority Mail rates, are developed from the First-Class Mail and Priority Mail transactions, respectively. The First-Class Mail estimation procedure is described above. The Priority Mail distribution keys are derived from the uninflated Priority Mail PostalOne! transactions.

2. Mail Characteristics Studies

i. Periodicals

a. Stratification

Publications are stratified by size and density using the PostalOne! system mailing statement data. The PostalOne! system data are aggregated by unique six-digit USPS Publication Number, and a database of pieces by rate element and USPS number is constructed. The database is then used to stratify USPS data into 30 strata based on size, density, and use of pallets for the publication number.

The size variable used in the stratification is total Periodicals volume (In-County and Outside County) divided by the publication frequency reported on Form 3526. The stratification variables used to capture mailing density are the proportion of pieces in the mailing paying 5-Digit, FSS, Carrier Route, High Density, and Saturation rates, and the proportion of pieces receiving DDU, DSCF, DFSS, and DADC entry discounts. Based on these variables, publications are divided into five size, two presort, and two entry categories. The five size categories are:

- 0 to 5,000 pieces
- 5001 to 15,000 pieces
- 15,001 to 100,000 pieces
- 100,001 to 300,000 pieces
- Over 300,000 pieces.

The two presort categories are:

- High Density - Publications with 30 percent or more of the pieces paying 5-Digit, FSS, Carrier Route, High Density, or Saturation rates

- Low Density - Publications with less than 30 percent of the pieces paying 5-Digit, FSS, Carrier Route, High Density, or Saturation rates.

The two entry categories are:

- High Drop - Publications with 50 percent or more of the pieces receiving DDU, DFSS, DSCF, and DADC entry discounts
- Low Drop - Publications with less than 50 percent of the pieces receiving DDU, DFSS, DSCF, and DADC entry discounts.

Within Periodicals, some publications prefer the use of sacks over the use of pallets for a variety of reasons such as the perception of better service in sacks. To account for these different preferences, use of pallets is an additional stratification variable.

The use of these four stratification variables generates 40 possible strata. Some cells are populated with few or no publications. This is particularly true of low-density – high drop-ship cells. For this reason, the low-density strata are collapsed across the entry variable to create 30 strata.

b. Data Sources

Data for this study come from Mail.dat files collected through the PostalOne! electronic verification system between October 2014 and September 2015.

Raw Mail.dat files are summarized into three databases, a piece database, bundle database, and container database. The fields recorded in the piece database are:

- Publication ID
- Shape
- Container type (pallet, sack, tray type, loose bundle)
- Container presort level
- Container entry facility type
- Parent container status
- Parent container presort level
- Parent container entry facility
- Piece machinability
- Package (bundle) presort level
- Entry discount given
- Presort rate given
- Number of copies
- Number of pieces
- Weight of pieces.

The fields recorded in the package database are:

- Publication ID
- Shape
- Container type (pallet, sack, tray type, loose bundle)

- Container presort level
- Container entry facility type
- Parent container status
- Parent container presort level
- Parent container entry facility
- Package (bundle) presort level
- Number of packages (bundles)
- Number of barcoded pieces
- Number of non-barcoded pieces
- Number of barcoded copies
- Number of non-barcoded copies
- Weight of barcoded pieces
- Weight of non-barcoded pieces.

The fields recorded in the container database are:

- Publication ID
- Shape
- Container type (pallet, sack, tray type, loose bundle)
- Container presort level
- Container entry facility type
- Parent container status
- Parent container presort level
- Parent container entry facility
- Container size category
- Number of containers
- Number of pieces
- Weight

The information for all but the entry facility type is taken directly from the information recorded in the Mail.dat. The entry facility type is determined using the container entry point ZIP Code, the container destination ZIP Code, and the labeling lists from the Domestic Mail Manual. Each entry point is mapped to a facility, and then the facility type (SCF, ADC, or NDC) is determined. The destination ZIP Code is then compared with the service territory of the entry facility using the DMM labeling lists to determine the entry facility type (OAO, OSCF, OADC, ONDC, DNDC, DADC, DSCF, DFSS, or DDU). For containers entered on parent pallets, the presort level of the parent container is used to determine the entry point of the child container. For example, a 5-Digit sack that resides on an SCF parent pallet will have the entry facility type of DSCF because the sack will first be handled as a sack at the DSCF.

c. Estimation

Publications for which data are available are treated as if they were randomly drawn with a probability of selection proportional to annual volume. Then data

are weighted by the inverse of the probability that the publication was selected.¹ Weighting publications as if randomly drawn serves to reduce bias caused by the self selection of publications into eVS sites. Data in the piece database are weighted by the ratio of annual volume to sample volume by publication. All data from the piece table are aggregated by strata, shape, presort rate, and piece preparation attribute. The piece preparation attribute is a list of preparation and piece characteristics that includes container type, container presort level, container entry facility type, parent container type, parent container level, parent container entry facility type, bundle presort level and piece machinability. The list of possible values for measured characteristics is presented below.

- Container type
 - Pallet
 - Sack
 - 1 foot tray
 - 2 foot tray
 - EMM tray
 - Other/unidentifiable tray
 - Loose bundle
- Container Level
 - CR
 - 5-Digit CRTS
 - 5-Digit
 - 3-Digit
 - SCF
 - FSS Scheme
 - FSS Facility
 - ADC
 - Mixed ADC
- Container entry facility
 - OAO
 - OSCF
 - OADC
 - ONDC
 - DNDC
 - DADC
 - DFSS
 - DSCF
 - DDU
- Parent container type
- Parent container level
 - CR
 - 5-Digit CRTS
 - 3-Digit CRTS
 - 5-Digit
 - 3-Digit

¹ W. G. Cochran, *Sampling Techniques* (1977).

- SCF
- ADC
- Mixed ADC
- NDC
- Mixed-NDC
- Parent container entry facility
 - OAO
 - OSCF
 - OADC
 - ONDC
 - DNDC
 - DADC
 - DSCF
 - DDU
- Bundle level
 - Firm
 - Saturation
 - High Density
 - Carrier Route Basic
 - FSS
 - 5-Digit
 - 3-Digit
 - ADC
 - Mixed ADC
- Piece machinability type
 - AFSM 100 Flat
 - UFSM 1000 Flat
 - Manual Flat
 - Letter

Within presort rate and strata, the distribution across preparation attributes is then calculated. These distributions are weighted together using the PostalOne! volume by shape, presort rate and stratum. The result is then summed across strata to produce estimates of piece volume by preparation characteristic.

Bundle data are weighted by the ratio of annual volume by publication to sample volume by publication. Data are weighted by the inverse of the probability of selection. Bundle counts, pieces counts and weight from the bundle database are aggregated by strata and bundle attribute (container type, container level, container entry facility type, bundle level, and shape). The piece estimates by strata and bundle attribute are used to weight bundle counts, pieces and weight by strata. Weighted values are then summed across strata to generate national estimates of average bundle size (number of pieces per bundle) and average weight by bundle characteristic.

Container data are weighted by the ratio of annual volume by publication to sample volume by publication. Data are weighted by the inverse of the probability of selection. Container counts, pieces counts and weight from the

container database are aggregated by strata and container attribute (container type, container level, container entry facility type, and shape). The piece estimates by strata and container attribute are used to weight container counts, pieces and weight by strata. Weighted values are then summed across strata to generate national estimates of average container size (number of pieces per container) and average weight by container characteristic.

ii. Standard Mail

a. Stratification

Standard Mail transactions are stratified by size, density and entry characteristic using the PostalOne! system mailing statement data. The size variable used in the stratification is total transaction pieces. The stratification variables used to capture mailing density are the proportion of pieces in the mailing paying Basic Carrier Route, High Density, and Saturation rates, and the proportion of pieces receiving destination discounts. Based on these variables, publications are divided into six size and five presort-entry categories. The five size categories are:

- 0 to 5,000 pieces
- 5,001 to 15,000 pieces
- 15,001 to 100,000 pieces
- 100,001 to 200,000 pieces
- 200,001 to 1,000,000 pieces.
- Over 1,000,000 pieces

The five presort-entry categories are:

- Low density - High drop-ship : Transactions with less than 50 percent of pieces paying ECR rates and more than 50 percent of the pieces receiving DDU, DSCF, DFSS or DNDC entry discounts.
- Low Density – Low drop-ship: Transactions with less than 50 percent of pieces paying ECR rates and less than 50 percent of the pieces receiving DDU, DSCF, DFSS or DNDC entry discounts.
- High density : Transactions with more than 50 percent of pieces paying ECR rates but less than 50 percent of pieces paying High Density and Saturation rates.
- Very High density – Low DDU: Transactions with more than 50 percent of pieces paying High Density and Saturation rates but less than 50 percent of pieces receiving DDU entry discounts.

- Very High density – High DDU: Transactions with more than 50 percent of pieces paying ECR rates and more than 50 percent of pieces receiving DDU entry discounts.

b. Data Sources

Data come from Mail.dat files collected through the PostalOne! electronic verification system between October 2014 and September 2015.

All raw files are summarized into three databases, a piece database, bundle database, and container database. The fields recorded in the piece database are:

- Transaction ID
- Shape
- Container type (pallet, sack, tray type, loose bundle)
- Container presort level
- Container entry facility type
- Parent container status
- Parent container presort level
- Parent container entry facility
- Piece machinability
- Package (bundle) presort level
- Entry discount
- Presort rate
- Number of copies
- Number of pieces
- Weight of pieces.

The fields recorded in the package database are:

- Transaction ID
- Shape
- Container type (pallet, sack, tray type, loose bundle)
- Container presort level
- Container entry facility type
- Parent container status
- Parent container presort level
- Parent container entry facility
- Package (bundle) presort level
- Number of packages (bundles)
- Number of barcoded pieces
- Number of non-barcoded pieces
- Number of barcoded copies
- Number of non-barcoded copies
- Weight of barcoded pieces

- Weight of non-barcoded pieces.

The fields recorded in the container database are:

- Transaction ID
- Shape
- Container type (pallet, sack, tray type, loose bundle)
- Container presort level
- Container entry facility type
- Parent container status
- Parent container presort level
- Parent container entry facility
- Container size category
- Number of containers
- Number of pieces
- Weight

The information for all but the entry facility type is taken directly from the information recorded in the Mail.dat or the qualification report. The entry facility type is determined using the container entry point ZIP Code, the container destination ZIP Code, and the labeling lists from the Domestic Mail Manual. Each entry point is mapped to a facility and then the facility type (SCF, ADC, or NDC) is determined. The destination ZIP Code is then compared with the service territory of the entry facility using the DMM labeling lists to determine the entry facility type (OAO, OSCF, OADC, ONDC, DNDC, DADC, DSCF, DFSS, or DDU). For containers entered on parent pallets, the presort level of the parent container is used to determine the entry point of the child container. For example, a 5-Digit sack that resides on an SCF parent pallet will have the entry facility type of DSCF because the sack will first be handled as a sack at the DSCF.

c. Estimation

Data for the small mailing sample are weighted by the inverse of the probability that the finance number was selected.² Then all data from the piece table are aggregated by strata, shape, presort rate, and piece preparation attribute. The piece preparation attribute is a list of preparation and piece characteristics that includes container type, container presort level, container entry facility type, parent container type, parent container level, parent container entry facility type, bundle presort level and piece machinability. The list of possible values for measured characteristics is presented below.

- Container type
 - Pallet
 - Sack

² W. G. Cochran, *Sampling Techniques* (1977).

- 1 foot tray
- 2 foot tray
- EMM tray
- Other/unidentifiable tray
- Loose bundle
- Container Level
 - CR
 - 5-Digit CRTS
 - 5-Digit
 - 3-Digit
 - SCF
 - FSS Scheme
 - FSS Facility
 - ADC
 - NDC
 - Mixed ADC
- Container entry facility
 - OAO
 - OSCF
 - OADC
 - ONDC
 - DNDC
 - DADC
 - DFSS
 - DSCF
 - DDU
- Parent container type
- Parent container level
 - CR
 - 5-Digit CRTS
 - 3-Digit CRTS
 - 5-Digit
 - 3-Digit
 - SCF
 - ADC
 - Mixed ADC
 - NDC
 - Mixed-NDC
- Parent container entry facility
 - OAO
 - OSCF
 - OADC
 - ONDC
 - DNDC
 - DADC
 - DSCF
 - DDU
- Bundle level

- Firm
- Saturation
- High Density
- Carrier Route Basic
- FSS
- 5-Digit
- 3-Digit
- ADC
- Mixed ADC
- Piece machinability type
 - AFSM 100 Flat
 - UFSM 1000 Flat
 - Manual Flat
 - Letter

Within shape and presort rate and strata, the distribution across preparation attributes is then calculated. These distributions are weighted together using the PostalOne! volume by shape, presort rate and stratum. The result is then summed across stratum to produce estimates of piece volume by preparation characteristic.

Bundle counts, piece counts and weight from the bundle database are aggregated by strata and bundle attribute (container type, container level, container entry facility type, bundle level, and shape). The piece estimates by strata and bundle attribute are used to weight bundle counts, pieces and weight by strata. Weighted values are then summed across strata to generate national estimates of average bundle size (number of pieces per bundle) and average weight by bundle characteristic.

Container counts, pieces counts and weight from the container database are aggregated by strata and container attribute (container type, container level, container entry facility type, and shape). The piece estimates by strata and container attribute are used to weight container counts, pieces and weight by strata. Weighted values are then summed across strata to generate national estimates of average container size (number of pieces per container) and average weight by container type.

3. Coverage Factor Updating

i. Introduction and Overview

This section describes the methodology employed to derive estimates of Coverage Factors for the flats mail processing cost models. Coverage Factors measure the proportion of mail pieces that are processed at a facility with a given piece of sortation equipment. The Coverage Factors are an input into the mail processing cost models and are used to derive the probability that a mail piece will be sorted on each of the various sortation technologies used by the Postal Service. Several data sources are used to estimate the Coverage Factors. The

Postal Service's MAILDIRECTIONv2 file is used to identify the physical location where mail for each 3-Digit zone is processed. MODS data are used to identify the sortation technologies used at each facility. Finally, ODIS data are used to measure the relative volumes processed at each facility.

ii. Development of mappings from Finance Number to Facility ID code

The Postal Service assigns seven-digit Facility ID codes to identify each mail processing facility. These codes are used to communicate, to customers and other Postal Service facilities, the physical location where processing occurs so that mail is transported to the appropriate facility for processing. The MODS data used to assess the available sortation equipment at each facility are reported by Finance Number. As processing activities at more than one physical location can be reported under a single Finance Number, and more than one Finance Number can be used at a single physical location, a database of MODS Finance Numbers and Facility ID codes is needed.

To develop this database, the mailing addresses for each MODS Finance Number were obtained. Then, using the L005 labeling list, each Finance Number was paired with all facilities listed in the ADDRESS file of the Postal Service's Dropship Product that were in the same SCF service territory of the Finance Number.³ Then by manually comparing the address with each Finance Number to the addresses listed in the ADDRESS file, each listed facility was identified as either belonging to the Finance Number or not belonging to the Finance Number.

iii. Estimation of Coverage Factors

Coverage Factors were constructed by using the MAILDIRECTIONv2 file to identify the seven-digit Facility ID of the processing facility for each 3-digit zone. The facility ID was then mapped to the appropriate MODS Finance Number. MODS data were then used to identify the sortation technologies available at the facility. Finally, ODIS flats volumes were weighted across 3-digit zones. The MAILDIRECTIONv2 records and ODIS volumes were chosen to be consistent with mail processing flows. The specific combinations for each estimated Coverage Factor are listed below:

Originating First-Class Mail Bundles

MAILDIRECTIONv2: DSCF Periodicals Flats⁴

ODIS Volume: ODIS originating First-Class Mail volume

Originating Periodicals Bundles

MAILDIRECTIONv2: DADC Periodicals Flats

ODIS Volume: ODIS destinating Periodicals volume

³ For this purpose, facilities listed only as DDU drop points in the MAILDIRECTIONv2 file were excluded.

⁴ For First-Class Mail, Periodicals DSCF is used as a proxy, since the MAILDIRECTION files list only those classes that are subject to destination entry discounts.

- Originating Standard Mail Bundles
 - MAILDIRECTIONv2: DNDC Standard Mail Flats
 - ODIS Volume: ODIS destinating Standard Mail volume
- Destinating First-Class Mail Bundles
 - MAILDIRECTIONv2: DSCF Periodicals Flats⁵
 - ODIS Volume: ODIS destinating First-Class Mail volume
- Destinating Periodicals Bundles
 - MAILDIRECTIONv2: DSCF Periodicals Flats
 - ODIS Volume: ODIS destinating Periodicals volume
- Destinating Standard Mail Bundles
 - MAILDIRECTIONv2: DSCF Standard Mail Flats
 - ODIS Volume: ODIS destinating Standard Mail volume
- Originating First-Class Mail Pieces
 - MAILDIRECTIONv2: Default drop location from MAILDIRECTION
 - ODIS Volume: ODIS originating First-Class Mail volume
- Originating Periodicals Pieces
 - MAILDIRECTIONv2: Default drop location from MAILDIRECTION
 - ODIS Volume: ODIS destinating Periodicals volume
- Originating Standard Mail Pieces
 - MAILDIRECTIONv2: Default drop location from MAILDIRECTION
 - ODIS Volume: ODIS destinating Standard Mail volume
- Destinating First-Class Mail Pieces
 - MAILDIRECTIONv2: Default drop location from MAILDIRECTION
 - ODIS Volume: ODIS destinating First-Class Mail volume
- Destinating Periodicals Pieces
 - MAILDIRECTIONv2: Default drop location from MAILDIRECTION
 - ODIS Volume: ODIS destinating Periodicals volume
- Destinating Standard Mail Pieces
 - MAILDIRECTIONv2: Default drop location from MAILDIRECTION
 - ODIS Volume: ODIS destinating Standard Mail volume

E. Input/Output

This attachment relies upon the FY 2015 PostalOne! mailing statement database; FY 2015 Mail.dat data from the PostalOne! eVS system; and USPS-LR-L-32 for First-Class Mail.

The Standard Mail, Periodicals and First-Class Mail mail characteristics data are used to calibrate the models developed in USPS-FY15-11. The Standard Mail and First-Class Mail mail characteristics data are used to calibrate the models developed in USPS-FY15-10. The Standard Mail and Periodicals mail characteristics data are used in USPS-FY15-13 and USPS-FY15-12. The estimates of RPW by shape and indicia are used in multiple attachments

⁵ For First-Class Mail, Periodicals DSCF is used as a proxy, since the MAILDIRECTION files list only those classes that are subject to destination entry discounts.

including USPS-FY15-4, USPS-FY15-18, USPS-FY15-19, USPS-FY15-24, and USPS-FY15-26.

II. ORGANIZATION

The tables of the characteristics estimates are presented below and in electronic version in the Microsoft Office Excel workbook 'MAILCHAR15V.xls' . The estimates of RPW by shape and indicia are presented in the Microsoft Office Excel workbook "Shape Indicia FY 2015V.xls". The coverage factor and results are provided in the workbook "Coverage Factors 15m.xls". The programs and workbooks used to estimate these volumes are described in the Program Documentation.

MAILCHAR15V.xls

Table MCS - 1					
FIRST-CLASS MAIL PRESORT LETTERS MAIL CHARACTERISTICS DATA					
USPS-FY15-14					
					AVERAGE
					PCS PER
RATE CATEGORY	MACHINABILITY	TRAY PRESORT	PACKAGE PRESORT	VOLUME	PACKAGE
Nonauto Presort Letters	Machinable ("MACH")	Mixed AADC	N/A (FULL TRAYS)	317,261,265	N/A
Nonauto Presort Letters	Machinable ("MACH")	AADC	N/A (FULL TRAYS)	105,791,158	N/A
Nonauto Presort Letters	Machinable ("MACH")	3-Digit	N/A (FULL TRAYS)	277,101,307	N/A
Nonauto Presort Letters	Machinable ("MACH")	5-Digit	N/A (FULL TRAYS)	60,015,328	N/A
TOTAL				760,169,058	
					AVERAGE
					PCS PER
RATE CATEGORY	MACHINABILITY	TRAY PRESORT	PACKAGE PRESORT	VOLUME	PACKAGE
Nonauto Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	Mixed ADC	248,302	20.6
Nonauto Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	ADC	842,510	15.8
Nonauto Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	3-Digit	318,886	17.8
Nonauto Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	5-Digit	3,976	19.0
Nonauto Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	N/A (FULL TRAYS)	3,805,902	N/A
Nonauto Presort Letters	Nonmachinable ("MANUAL")	ADC	ADC	139,666	12.8
Nonauto Presort Letters	Nonmachinable ("MANUAL")	ADC	3-Digit	1,703,077	18.5
Nonauto Presort Letters	Nonmachinable ("MANUAL")	ADC	5-Digit	267,805	17.2
Nonauto Presort Letters	Nonmachinable ("MANUAL")	ADC	N/A (FULL TRAYS)	359,681	N/A
Nonauto Presort Letters	Nonmachinable ("MANUAL")	3-Digit	3-Digit	969,731	20.1
Nonauto Presort Letters	Nonmachinable ("MANUAL")	3-Digit	5-Digit	1,056,033	18.9
Nonauto Presort Letters	Nonmachinable ("MANUAL")	3-Digit	N/A (FULL TRAYS)	1,141,084	N/A
Nonauto Presort Letters	Nonmachinable ("MANUAL")	5-Digit	N/A (FULL TRAYS)	640,934	N/A
TOTAL				11,497,585	
				VOLUME	
Nonauto Presort Letters				771,666,643	
Auto MAADC Presort Letters				2,097,399,770	
Auto AADC Presort Letters				6,024,764,042	
Auto 3-Digit Presort Letters				5,196,029,816	
Auto 5-Digit Presort Letters				23,914,846,353	
Total Presort Letters				38,004,706,624	

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Table MCS - 2						
FIRST-CLASS MAIL PRESORT CARDS MAIL CHARACTERISTICS DATA						
USPS-FY15-14						
					AVERAGE	
					PCS PER	NONAUTO
RATE CATEGORY	MACHINABILITY	TRAY PRESORT	PACKAGE PRESORT	VOLUME	PACKAGE	PERCENT
Nonauto Presort Cards	Machinable ("MACH")	Mixed AADC	N/A (FULL TRAYS)	62,185,753	N/A	42.44%
Nonauto Presort Cards	Machinable ("MACH")	AADC	N/A (FULL TRAYS)	6,804,584	N/A	4.64%
Nonauto Presort Cards	Machinable ("MACH")	3-Digit	N/A (FULL TRAYS)	51,414,854	N/A	35.09%
Nonauto Presort Cards	Machinable ("MACH")	5-Digit	N/A (FULL TRAYS)	4,224,930	N/A	2.88%
TOTAL				124,630,121		
					AVERAGE	
					PCS PER	
RATE CATEGORY	MACHINABILITY	TRAY PRESORT	PACKAGE PRESORT	VOLUME	PACKAGE	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	Mixed ADC	Mixed ADC	2,166,577	41.0	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	Mixed ADC	ADC	0	0.0	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	Mixed ADC	3-Digit	0	0.0	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	Mixed ADC	5-Digit	19,499,189	48.4	14.95%
Nonauto Presort Cards	Nonmachinable ("MANUAL")	Mixed ADC	N/A (FULL TRAYS)	235,633	N/A	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	ADC	ADC	0	0.0	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	ADC	3-Digit	0	0.0	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	ADC	5-Digit	0	0.0	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	ADC	N/A (FULL TRAYS)	0	N/A	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	3-Digit	3-Digit	0	0.0	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	3-Digit	5-Digit	0	0.0	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	3-Digit	N/A (FULL TRAYS)	0	N/A	
Nonauto Presort Cards	Nonmachinable ("MANUAL")	5-Digit	N/A (FULL TRAYS)	0	N/A	
TOTAL				21,901,399		100.00%
Nonauto Presort Cards				146,531,520		
Auto MAADC Presort Cards				197,580,342		
Auto AADC Presort Cards				234,870,922		
Auto 3-Digit Cards				612,469,051		
Auto 5-Digit Cards				978,085,149		
Total Presort Cards				2,169,536,984		

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USPS-FY15-14					
Table MCS - 3					
FIRST-CLASS MAIL PRESORT FLATS MAIL CHARACTERISTICS DATA					
RATE CATEGORY	MACHINABILITY	TUB PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
Nonauto Presort Flats	AFSM100	Mixed ADC	Mixed ADC	570,721	20.5
Nonauto Presort Flats	AFSM100	Mixed ADC	ADC	1,618,315	17.7
Nonauto Presort Flats	AFSM100	Mixed ADC	3-Digit	1,005,616	16.3
Nonauto Presort Flats	AFSM100	Mixed ADC	5-Digit	57,266	25.6
Nonauto Presort Flats	AFSM100	Mixed ADC	N/A (FULL TRAYS)	508,131	N/A
Nonauto Presort Flats	AFSM100	ADC	ADC	1,169,070	14.0
Nonauto Presort Flats	AFSM100	ADC	3-Digit	2,115,684	15.6
Nonauto Presort Flats	AFSM100	ADC	5-Digit	382,496	14.3
Nonauto Presort Flats	AFSM100	ADC	N/A (FULL TRAYS)	281,169	N/A
Nonauto Presort Flats	AFSM100	3-Digit	3-Digit	3,484,498	17.9
Nonauto Presort Flats	AFSM100	3-Digit	5-Digit	2,753,584	15.4
Nonauto Presort Flats	AFSM100	3-Digit	N/A (FULL TRAYS)	216,233	N/A
Nonauto Presort Flats	AFSM100	5-Digit	5-Digit	311,202	23.5
Nonauto Presort Flats	AFSM100	5-Digit	N/A (FULL TRAYS)	695,298	N/A
Nonauto Presort Flats	UFSM1000	Mixed ADC	Mixed ADC	455,162	16.9
Nonauto Presort Flats	UFSM1000	Mixed ADC	ADC	857,001	18.5
Nonauto Presort Flats	UFSM1000	Mixed ADC	3-Digit	1,062,734	14.8
Nonauto Presort Flats	UFSM1000	Mixed ADC	5-Digit	0	0.0
Nonauto Presort Flats	UFSM1000	Mixed ADC	N/A (FULL TRAYS)	24,812	N/A
Nonauto Presort Flats	UFSM1000	ADC	ADC	2,476,639	15.6
Nonauto Presort Flats	UFSM1000	ADC	3-Digit	2,315,916	18.7
Nonauto Presort Flats	UFSM1000	ADC	5-Digit	128,057	13.1
Nonauto Presort Flats	UFSM1000	ADC	N/A (FULL TRAYS)	5,588	N/A
Nonauto Presort Flats	UFSM1000	3-Digit	3-Digit	1,641,543	16.3
Nonauto Presort Flats	UFSM1000	3-Digit	5-Digit	1,652,165	13.4
Nonauto Presort Flats	UFSM1000	3-Digit	N/A (FULL TRAYS)	526,880	N/A
Nonauto Presort Flats	UFSM1000	5-Digit	5-Digit	363,528	21.4
Nonauto Presort Flats	UFSM1000	5-Digit	N/A (FULL TRAYS)	351,915	N/A
TOTAL				27,031,223	
RATE CATEGORY	MACHINABILITY	TUB PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
Mixed ADC Auto Presort Flats	AFSM100	Mixed ADC	Mixed ADC	30,756,446	10.1
Mixed ADC Auto Presort Flats	AFSM100	Mixed ADC	N/A (FULL TRAYS)	26,918,295	N/A
Mixed ADC Auto Presort Flats	UFSM1000	Mixed ADC	Mixed ADC	3,108,556	19.0
Mixed ADC Auto Presort Flats	UFSM1000	Mixed ADC	N/A (FULL TRAYS)	1,000,401	N/A
TOTAL				61,783,698	
RATE CATEGORY	MACHINABILITY	TUB PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
ADC Auto Presort Flats	AFSM100	Mixed ADC	ADC	23,027,801	17.4
ADC Auto Presort Flats	AFSM100	ADC	ADC	20,448,625	7.0
ADC Auto Presort Flats	AFSM100	ADC	N/A (FULL TRAYS)	40,840,189	N/A
ADC Auto Presort Flats	UFSM1000	Mixed ADC	ADC	6,217,367	15.9
ADC Auto Presort Flats	UFSM1000	ADC	ADC	1,623,912	17.2
ADC Auto Presort Flats	UFSM1000	ADC	N/A (FULL TRAYS)	376,354	N/A
TOTAL				92,534,249	
RATE CATEGORY	MACHINABILITY	TUB PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
3-Digit Auto Presort Flats	AFSM100	Mixed ADC	3-Digit	34,663,490	17.8
3-Digit Auto Presort Flats	AFSM100	ADC	3-Digit	57,703,324	26.0
3-Digit Auto Presort Flats	AFSM100	3-Digit	3-Digit	73,263,537	13.3
3-Digit Auto Presort Flats	AFSM100	3-Digit	N/A (FULL TRAYS)	99,341,072	N/A
3-Digit Auto Presort Flats	UFSM1000	Mixed ADC	3-Digit	6,371,989	14.0
3-Digit Auto Presort Flats	UFSM1000	ADC	3-Digit	7,353,836	26.9
3-Digit Auto Presort Flats	UFSM1000	3-Digit	3-Digit	11,107,018	21.2
3-Digit Auto Presort Flats	UFSM1000	3-Digit	N/A (FULL TRAYS)	1,770,824	N/A
TOTAL				291,575,089	
RATE CATEGORY	MACHINABILITY	TUB PRESORT	PACKAGE PRESORT	VOLUME	AVERAGE PCS PER PACKAGE
5-Digit Auto Presort Flats	AFSM100	Mixed ADC	5-Digit	1,947,092	13.5
5-Digit Auto Presort Flats	AFSM100	ADC	5-Digit	6,156,373	16.4
5-Digit Auto Presort Flats	AFSM100	3-Digit	5-Digit	54,693,765	24.3
5-Digit Auto Presort Flats	AFSM100	5-Digit	5-Digit	32,862,316	31.0
5-Digit Auto Presort Flats	AFSM100	5-Digit	N/A (FULL TRAYS)	27,016,477	N/A
5-Digit Auto Presort Flats	UFSM1000	Mixed ADC	5-Digit	224,950	10.1
5-Digit Auto Presort Flats	UFSM1000	ADC	5-Digit	2,879,454	16.3
5-Digit Auto Presort Flats	UFSM1000	3-Digit	5-Digit	11,274,764	14.9
5-Digit Auto Presort Flats	UFSM1000	5-Digit	5-Digit	1,452,490	20.0
5-Digit Auto Presort Flats	UFSM1000	5-Digit	N/A (FULL TRAYS)	55,662	N/A
TOTAL				138,563,343	

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Model Volumes
USPS-FY15-14
Table MCS-4

Table A1: Outside County Sack & Pallet Counts By Entry Point & Container Presort (FY15)

Type	Presort	Entry Point							
		DDU	DFSS	DSCF	BADC	DNDC	ONDC	OADC	DSCFOAO
Sacks	MADC	0	0	0	0	13,487	9,707	2,397,086	254,759
	ADC	0	0	0	15,077	3,353	5,246	464,920	54,453
	3-D/SCF	0	0	611,436	44,892	10,777	8,328	2,412,631	442,201
	FSS Facility	0	0	8,038	1,289	261	414	42,841	6,730
	FSS Scheme	0	265	20,249	1,921	1,071	6	37,100	3,238
	5-d	73,731	0	145,918	8,983	1,877	2,781	502,954	62,498
Pallets	MADC	0	0	0	0	1,307	9,297	200,977	27,339
	ADC	0	0	0	118,559	3,833	737	43,044	11,834
	3-D/SCF	0	0	925,061	46,523	36,726	7,345	146,376	49,290
	FSS Facility	0	0	16,350	1,602	4,215	8	7,271	1,093
	FSS Scheme	0	251,838	57,575	2,758	2,103	1	3,658	427
	5-Digit	14,859	0	87,602	2,075	1,445	15	7,716	1,800
CRRTS	11,482	0	57,421	1,015	598	1	2,910	1,010	

Disaggregation of 5-Digit Pallets by Quarter - Order No. 2741

	Q1	Q2	Q3	Q4
5-Digit Merge	34,807	26,225	34,066	20,044
5-Digit Presort	209	71	34	97

Table A2: Estimated FY15 Counts Of Bundles By Bundle & Container Presort Level

Presort	Bundle	Sacks										Pallets				Total Bundles	Average Pieces per Bundle		
		MADC	ADC	SCFO-D	FSS Fac	FSS Sch	5-Digit	5-D CR	CR	MADC	ADC	3D-SCF	FSS Fac	FSS Sch	5-Digit			CRRTS	
Presort	MADC	3,251,198	0	0	0	0	0	0	0	614,334	0	0	0	0	0	0	0	3,865,532	14.6
	ADC	2,254,198	830,938	0	0	0	0	0	0	2,893,199	143,090	0	0	0	0	0	0	5,921,383	9.7
	3-D	2,547,578	1,456,911	5,144,373	0	0	0	0	0	11,455,017	2,307,423	4,575,384	0	0	0	0	0	27,486,693	16.3
	5-D	910,652	293,919	4,986,620	0	0	0	0	0	1,472,526	2,920	0	0	0	0	110,438	0	67,565,849	14.1
	FSS	81,803	12,912	285,151	373,538	142,573	0	0	0	2,990,824	1,313,329	13,420,801	2,133,470	10,171,157	0	0	0	30,925,358	30.0
	CR	17,885	40	2,536,994	0	0	0	0	407,502	2,091,558	1,339,749	3,152,456	3,382,807	165,208,942	0	6,773,141	5,133,983	189,944,658	14.8
Firm	M	1,651,258	214,528	1,145,914	0	0	0	73,260	63,732	62,282	5,037,878	2,142,034	14,200,122	0	0	327,207	93,431	25,011,657	1.0
	Total	10,714,412	2,809,236	14,099,057	373,538	142,573	1,953,287	2,158,210	1,402,042	35,699,328	15,560,971	241,006,045	2,133,470	10,171,157	7,210,788	5,227,015	350,721,127		

Table A3: FY15 Piece Counts By Bundle & Container Presort Level And Piece Characteristics

Level	Type	Sacks										Pallets							
		MADC	ADC	3D	FSS Fac	FSS Sch	5-D	5-D CR	CR	MADC	ADC	3-D	FSS Fac	FSS Sch	5-D	CRRTS			
MADC	NBCNM	8,757,608	0	0	0	0	0	0	0	361,725	0	0	0	0	0	0	0		
	BCNM	9,753,900	0	0	0	0	0	0	0	1,588,628	0	0	0	0	0	0	0		
	BCNM	1,291,884	0	0	0	0	0	0	0	1,844,972	0	0	0	0	0	0	0		
	BCNM	20,659,074	0	0	0	0	0	0	0	12,134,953	0	0	0	0	0	0	0		
	BCNM	4,345,981	1,880,115	0	0	0	0	0	0	316,522	22,195	0	0	0	0	0	0		
	BCNM	3,308,951	1,824,095	0	0	0	0	0	0	1,249,928	58,746	0	0	0	0	0	0		
3d	BCNM	327,775	183,319	0	0	0	0	0	0	2,209,607	160,378	0	0	0	0	0	0		
	BCNM	10,402,759	5,351,452	0	0	0	0	0	0	24,850,146	918,724	0	0	0	0	0	0		
	BCNM	5,034,501	3,697,817	7,527,475	0	0	0	0	0	2,949,392	763,543	692,645	0	0	0	0	0		
	BCNM	2,446,453	1,322,754	11,150,568	0	0	0	0	0	6,170,717	1,431,704	3,653,276	0	0	0	0	0		
	BCNM	471,791	314,674	1,591,741	0	0	0	0	0	6,940,863	3,546,376	5,626,365	0	0	0	0	0		
	BCNM	14,318,726	9,355,982	53,927,477	0	0	0	0	0	168,919,953	41,103,941	98,131,648	0	0	0	0	0		
5d	BCNM	2,417,295	1,127,308	6,386,483	0	0	3,242,777	0	0	2,879,682	1,129,400	2,986,144	0	0	0	93,883	0		
	BCNM	542,598	233,278	8,725,499	0	0	2,623,562	0	0	3,473,863	2,097,504	23,060,385	0	0	0	367,695	0		
	BCNM	20,556	5,946	278,423	0	0	193,302	0	0	685,900	894,373	8,249,684	0	0	0	212,800	0		
	BCNM	4,581,149	1,470,116	31,752,569	0	0	20,161,497	0	0	96,445,137	78,005,356	645,782,117	0	0	0	878,101	0		
	BCNM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	BCNM	48,861	13,746	372,943	478,586	133,164	0	0	0	907,382	403,431	2,357,058	1,281,112	910,158	0	0	0		
CR	BCNM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	BCNM	688,401	98,069	2,335,660	3,918,809	3,198,954	0	0	0	36,021,687	23,074,816	447,515,712	63,313,519	339,667,660	0	0	0		
	BCNM	106	193	1,076,531	0	0	235,299	636,570	496,928	754,031	256,707	20,234,742	0	0	0	4,006,656	1,977,634		
	M	200,751	14	20,929,951	0	0	4,088,546	29,731,528	21,116,723	30,707,193	32,046,244	2,271,552,208	0	0	0	185,709,009	138,481,788		
	M	631,284	17,603	110,630	0	0	11,609	1,236	1,733	619,812	86,423	177,379	0	0	0	31,899	1,980		
	M	1,026,143	188,493	1,040,814	0	0	62,186	61,640	63,035	4,471,226	2,058,649	14,021,520	0	0	0	303,759	92,921		
Total Pieces		91,276,500	26,895,655	145,786,871	4,397,420	3,330,119	30,608,788	30,430,976	21,678,419	406,413,293	187,981,052	3,542,243,302	64,594,631	340,597,818	191,600,611	140,554,324	4,973,954,971		
		Sacked										Palletized				Total FY15:		4,973,954,971	5,229,391,832

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Table MCS - 5

STANDARD MAIL PRESORT LETTERS MAIL CHARACTERISTICS DATA

(Includes flats mailed at NSA rates and letter-shaped pieces mailed at flat rates)

					AVERAGE PCS PER PACKAGE
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>TRAY PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>VOLUME</u>	
Nonauto MADC Presort Letters	Machinable ("MACH")	Mixed AADC	N/A (FULL TRAYS)	342,322,304	N/A
TOTAL				342,322,304	
					AVERAGE PCS PER PACKAGE
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>TRAY PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>VOLUME</u>	
Nonauto ADC Presort Letters	Machinable ("MACH")	AADC	N/A (FULL TRAYS)	461,870,148	N/A
Nonauto ADC Presort Letters	Machinable ("MACH")	3-Digit	N/A (FULL TRAYS)	337,809,492	N/A
TOTAL				799,679,640	
					AVERAGE PCS PER PACKAGE
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>TRAY PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>VOLUME</u>	
Nonauto MADC Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	Mixed ADC	3,969,894	27
Nonauto MADC Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	ADC	2,130,323	17
Nonauto MADC Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	3-Digit	266,102	17
Nonauto MADC Presort Letters	Nonmachinable ("MANUAL")	Mixed ADC	5-Digit	140,680	16
TOTAL				6,507,000	
					AVERAGE PCS PER PACKAGE
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>TRAY PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>VOLUME</u>	
Nonauto ADC Presort Letters	Nonmachinable ("MANUAL")	ADC	ADC	2,406,980	20
Nonauto ADC Presort Letters	Nonmachinable ("MANUAL")	ADC	3-Digit	548,306	22
Nonauto ADC Presort Letters	Nonmachinable ("MANUAL")	ADC	5-Digit	15,230	19
Nonauto ADC Presort Letters	Nonmachinable ("MANUAL")	3-Digit	3-Digit	844,230	34
Nonauto ADC Presort Letters	Nonmachinable ("MANUAL")	3-Digit	5-Digit	48,698	30
TOTAL				3,863,443	
					AVERAGE PCS PER PACKAGE
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>TRAY PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>VOLUME</u>	
Nonauto 3 Digit Presort Letters	Nonmachinable ("MANUAL")	3-Digit	3-Digit	8,090,094	29
Nonauto 3 Digit Presort Letters	Nonmachinable ("MANUAL")	3-Digit	5-Digit	2,200,516	27
TOTAL				10,290,610	
					AVERAGE PCS PER PACKAGE
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>TRAY PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>VOLUME</u>	
Nonauto 5 Digit Presort Letters	Nonmachinable ("MANUAL")	5-Digit	N/A (FULL TRAYS)	9,828,799	N/A
TOTAL				9,828,799	
				<u>VOLUME</u>	
Nonauto Presort Letters				1,172,491,796	
Auto MAADC Presort Letters				1,718,305,391	
Auto AADC Presort Letters				2,514,864,835	
Auto 3-Digit Presort Letters				10,257,082,981	
Auto 5-Digit Presort Letters				32,060,375,102	
Total Presort Letters				47,723,120,105	

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Table MCS - 6

STANDARD MAIL PRESORT FLATS MAIL CHARACTERISTICS DATA

(Includes flats mailed at NSA rates and excludes letter-shaped pieces mailed at flat rates)

<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>CONTAINER PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>PALLET VOLUME</u>	<u>SACK VOLUME</u>	<u>TOTAL VOLUME</u>	<u>AVERAGE PCS PER PACKAGE</u>	<u>AVERAGE PCS PER PACKAGE</u>
Nonauto MADC Presort Flats	AFSM100	Mixed ADC	Mixed ADC	0	6,144,692	6,144,692	0.0	20.5
Nonauto MADC Presort Flats	AFSM100	Mixed ADC	ADC	0	12,514,385	12,514,385	0.0	14.3
Nonauto MADC Presort Flats	AFSM100	Mixed ADC	3-Digit	0	19,257,656	19,257,656	0.0	16.5
Nonauto MADC Presort Flats	AFSM100	Mixed ADC	5-Digit	0	1,321,863	1,321,863	0.0	16.7
Nonauto MADC Presort Flats	AFSM100	ADC/NDC	Mixed ADC	391,867	322,165	714,032	15.9	22.8
TOTAL				391,867	39,560,760	39,952,627		
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>CONTAINER PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>PALLET VOLUME</u>	<u>SACK VOLUME</u>	<u>TOTAL VOLUME</u>	<u>AVERAGE PCS PER PACKAGE</u>	<u>AVERAGE PCS PER PACKAGE</u>
Nonauto ADC Presort Flats	AFSM100	ADC/NDC	ADC	986,768	2,147,938	3,134,706	16.2	15.5
Nonauto ADC Presort Flats	AFSM100	ADC/NDC	3-Digit	0	11,698,311	11,698,311	0.0	19.9
Nonauto ADC Presort Flats	AFSM100	ADC/NDC	5-Digit	0	1,136,908	1,136,908	0.0	17.2
Nonauto ADC Presort Flats	AFSM100	3-Digit	3-Digit	0	0	0	0.0	0.0
Nonauto ADC Presort Flats	AFSM100	3-Digit	5-Digit	0	3,769,225	3,769,225	0.0	23.8
TOTAL				986,768	18,752,383	19,739,151		
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>CONTAINER PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>PALLET VOLUME</u>	<u>SACK VOLUME</u>	<u>TOTAL VOLUME</u>	<u>AVERAGE PCS PER PACKAGE</u>	<u>AVERAGE PCS PER PACKAGE</u>
Nonauto 3 Digit Presort Flats	AFSM100	ADC/NDC	3-Digit	17,319,924	0	17,319,924	28.6	0.0
Nonauto 3 Digit Presort Flats	AFSM100	3-Digit	3-Digit	31,831,950	13,319,413	45,151,363	35.7	24.4
Nonauto 3 Digit Presort Flats	AFSM100	3-Digit	5-Digit	0	0	18,397,054	0.0	22.0
TOTAL				49,151,874	31,716,466	80,868,340		
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>CONTAINER PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>PALLET VOLUME</u>	<u>SACK VOLUME</u>	<u>TOTAL VOLUME</u>	<u>AVERAGE PCS PER PACKAGE</u>	<u>AVERAGE PCS PER PACKAGE</u>
Nonauto 5 Digit Presort Flats	AFSM100	ADC/NDC	5-Digit	11,846,013	0	11,846,013	22.5	0.0
Nonauto 5 Digit Presort Flats	AFSM100	3-Digit	5-Digit	0	67,028,679	67,028,679	27.2	0.0
Nonauto 5 Digit Presort Flats	AFSM100	5-Digit	5-Digit	3,033,994	13,723,978	16,757,972	35.6	28.0
TOTAL				81,908,686	13,723,978	95,632,664		
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>CONTAINER PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>PALLET VOLUME</u>	<u>SACK VOLUME</u>	<u>TOTAL VOLUME</u>	<u>AVERAGE PCS PER PACKAGE</u>	<u>AVERAGE PCS PER PACKAGE</u>
Nonauto FSS Other Presort Flats	AFSM100	Mixed ADC	FSS	0	46,467	46,467	0.0	19.1
Nonauto FSS Other Presort Flats	AFSM100	ADC/NDC	FSS	560,772	34,596	595,369	22.8	14.7
Nonauto FSS Other Presort Flats	AFSM100	3-Digit	FSS	2,204,262	942,919	3,147,181	43.1	36.8
Nonauto FSS Other Presort Flats	AFSM100	FSS Facility	FSS	1,396,166	407,748	1,803,914	38.5	19.5
TOTAL				4,161,201	1,431,730	5,592,931		
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>CONTAINER PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>PALLET VOLUME</u>	<u>SACK VOLUME</u>	<u>TOTAL VOLUME</u>	<u>AVERAGE PCS PER PACKAGE</u>	<u>AVERAGE PCS PER PACKAGE</u>
Nonauto FSS Scheme Presort Flats	AFSM100	FSS Scheme	FSS	1,242,961	42,985	1,285,946	37.0	55.4
TOTAL				1,242,961	42,985	1,285,946		
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>CONTAINER PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>PALLET VOLUME</u>	<u>SACK VOLUME</u>	<u>TOTAL VOLUME</u>	<u>AVERAGE PCS PER PACKAGE</u>	<u>AVERAGE PCS PER PACKAGE</u>
Auto MADC Presort Flats	AFSM100	Mixed ADC	Mixed ADC	0	67,072,426	67,072,426	0.0	16.0
Auto MADC Presort Flats	AFSM100	ADC/NDC	Mixed ADC	1,658,875	0	1,658,875	10.9	0.0
TOTAL				1,658,875	67,072,426	68,731,301		
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>CONTAINER PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>PALLET VOLUME</u>	<u>SACK VOLUME</u>	<u>TOTAL VOLUME</u>	<u>AVERAGE PCS PER PACKAGE</u>	<u>AVERAGE PCS PER PACKAGE</u>
Auto ADC Presort Flats	AFSM100	Mixed ADC	ADC	0	68,495,178	68,495,178	0.0	14.2
Auto ADC Presort Flats	AFSM100	ADC/NDC	ADC	8,972,301	28,568,304	37,540,605	15.8	15.4
TOTAL				8,972,301	97,063,482	106,035,783		
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>CONTAINER PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>PALLET VOLUME</u>	<u>SACK VOLUME</u>	<u>TOTAL VOLUME</u>	<u>AVERAGE PCS PER PACKAGE</u>	<u>AVERAGE PCS PER PACKAGE</u>
Auto 3 Digit Presort Flats	AFSM100	Mixed ADC	3-Digit	0	133,593,639	133,593,639	0.0	16.4
Auto 3 Digit Presort Flats	AFSM100	ADC/NDC	3-Digit	371,171,341	178,703,294	549,874,635	29.8	19.5
Auto 3 Digit Presort Flats	AFSM100	3-Digit	3-Digit	328,005,983	243,793,148	571,799,131	32.7	23.7
TOTAL				699,177,324	556,090,081	1,255,267,405		
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>CONTAINER PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>PALLET VOLUME</u>	<u>SACK VOLUME</u>	<u>TOTAL VOLUME</u>	<u>AVERAGE PCS PER PACKAGE</u>	<u>AVERAGE PCS PER PACKAGE</u>
Auto 5 Digit Presort Flats	AFSM100	Mixed ADC	5-Digit	0	12,258,305	12,258,305	0.0	15.8
Auto 5 Digit Presort Flats	AFSM100	ADC/NDC	5-Digit	411,055,920	30,292,381	441,348,301	24.0	16.0
Auto 5 Digit Presort Flats	AFSM100	3-Digit	5-Digit	1,827,202,610	248,953,841	2,076,156,451	27.9	19.9
Auto 5 Digit Presort Flats	AFSM100	5-Digit	5-Digit	50,633,385	225,297,305	275,930,691	37.7	29.8
TOTAL				2,288,891,915	516,801,832	2,805,693,747		
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>CONTAINER PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>PALLET VOLUME</u>	<u>SACK VOLUME</u>	<u>TOTAL VOLUME</u>	<u>AVERAGE PCS PER PACKAGE</u>	<u>AVERAGE PCS PER PACKAGE</u>
Auto FSS Other Presort Flats	AFSM100	Mixed ADC	FSS	0	1,324,719	1,324,719	0.0	16.7
Auto FSS Other Presort Flats	AFSM100	ADC/NDC	FSS	37,864,822	1,643,037	39,507,859	24.3	15.0
Auto FSS Other Presort Flats	AFSM100	3-Digit	FSS	247,389,322	5,794,837	253,184,159	46.0	20.5
Auto FSS Other Presort Flats	AFSM100	FSS Facility	FSS	195,546,019	47,182,300	242,728,319	40.2	27.3
TOTAL				480,800,163	55,944,893	536,745,056		
<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>CONTAINER PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>PALLET VOLUME</u>	<u>SACK VOLUME</u>	<u>TOTAL VOLUME</u>	<u>AVERAGE PCS PER PACKAGE</u>	<u>AVERAGE PCS PER PACKAGE</u>
Auto FSS Scheme Presort Flats	AFSM100	FSS Scheme	FSS	233,169,965	5,365,714	238,535,679	37.7	56.1
TOTAL				233,169,965	5,365,714	238,535,679		

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Table MCS - 7

STANDARD MAIL ECR FLATS MAIL CHARACTERISTICS DATA

(Includes flats mailed at NSA rates and excludes letter-shaped pieces mailed at flat rates)

<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>CONTAINER PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>PALLET VOLUME</u>	<u>SACK VOLUME</u>	<u>TOTAL VOLUME</u>
Saturation	ECR	ADC/NDC	CR	7,014,597	4,036	7,018,633
Saturation	ECR	3-Digit/SCF	CR	540,248,085	1,623,074	541,871,159
Saturation	ECR	5-Digit	CR	7,077,239,524	7,754,763	7,084,994,287
Saturation	ECR	CRTS	CR	0	145,592,465	145,592,465
Saturation	ECR	CR	CR	0	1,158,604,076	1,158,604,076
TOTAL				7,624,502,207	1,313,578,413	8,938,080,620

<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>CONTAINER PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>PALLET VOLUME</u>	<u>SACK VOLUME</u>	<u>TOTAL VOLUME</u>
High Density	ECR	ADC/NDC	CR	13,465,605	76	13,465,681
High Density	ECR	3-Digit/SCF	CR	708,299,985	1,486,983	709,786,968
High Density	ECR	5-Digit	CR	1,097,838,899	11,297,826	1,109,136,725
High Density	ECR	CRTS	CR	0	2,542,085	2,542,085
High Density	ECR	CR	CR	0	104,963,357	104,963,357
TOTAL				1,819,604,488	120,290,328	1,939,894,816

<u>RATE CATEGORY</u>	<u>MACHINABILITY</u>	<u>CONTAINER PRESORT</u>	<u>PACKAGE PRESORT</u>	<u>PALLET VOLUME</u>	<u>SACK VOLUME</u>	<u>TOTAL VOLUME</u>
Basic ECR	ECR	ADC/NDC	CR	205,915,368	306,427	206,221,795
Basic ECR	ECR	3-Digit/SCF	CR	6,659,718,929	834,582	6,660,553,511
Basic ECR	ECR	5-Digit	CR	1,145,632,338	87,080,513	1,232,712,851
Basic ECR	ECR	CRTS	CR	0	184,227,914	184,227,914
Basic ECR	ECR	CR	CR	0	86,300,134	86,300,134
TOTAL				8,011,266,635	358,749,570	8,370,016,205

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Table MCS - 8

Standard Mail FY15 Mail Entry Profile Inputs

		Pounds (000s)	Percent
Point of Deposit			
Origin AO (OAO) (1)		1,902,531	0.02%
Origin SCF (OSCF) (2)		378,195,906	4.81%
Origin NDC (ONDC) (3)		308,731,982	3.92%
Destination NDC (DNDC) (4)		785,023,881	9.98%
Destination SCF (DSCF) (5)		4,884,984,263	62.08%
Destination DU (DDU) (6)		1,509,804,078	19.19%
		7,868,642,642	100.00%

Pieces (Thousands)

Entry Type	Trays on Pallets	Loose Trays	Bundles or Sacks on Pallets	Loose Sacks	Total
Origin AO	-	14,038,682	1,769,098	2,331,253	18,139,033
Origin SCF	-	658,132,138	147,179,139	119,651,118	924,962,396
Origin ADC	166,454,877	1,525,718,454	490,159,626	276,629,608	2,458,962,565
Origin NDC	3,815,469,966	109,744,284	481,046,510	9,214,557	4,415,475,317
Destination NDC	5,897,966,858	636,455,696	1,806,297,370	16,780,061	8,357,499,985
Destination ADC	68,259,067	202,467,502	102,353,615	17,450,567	390,530,751
Destination SCF	35,769,387,856	5,107,077,090	14,052,756,020	549,892,293	55,479,113,260
Destination DU	696,625,084	23,268,308	5,743,837,102	684,724,333	7,148,454,827
Total	46,414,163,708	8,276,902,155	22,825,398,481	1,676,673,790	79,193,138,134

Pounds (Thousands)

Entry Type	Trays on Pallets	Loose Trays	Bundles or Sacks on Pallets	Loose Sacks	Total
Origin AO	-	585,224	682,378	634,930	1,902,531
Origin SCF	-	25,982,149	40,182,641	26,132,545	92,297,334
Origin ADC	7,126,677	63,393,835	151,976,650	63,401,410	285,898,572
Origin NDC	186,049,867	4,317,342	116,485,484	1,879,288	308,731,982
Destination NDC	316,238,101	29,886,330	435,719,126	3,180,325	785,023,881
Destination ADC	2,808,334	8,030,106	21,040,871	2,422,871	34,302,182
Destination SCF	1,728,235,330	240,716,657	2,824,879,178	56,850,917	4,850,682,082
Destination DU	65,545,089	2,217,881	1,398,559,121	43,481,986	1,509,804,078
Total	2,306,003,398	375,129,524	4,989,525,448	197,984,272	7,868,642,642

- (1) Origin AO Total Pounds
- (2) Origin SCF Total Pounds + Origin ADC Total Pounds
- (3) Origin NDC Total Pounds
- (4) Destination NDC Total Pounds + Destination ADC Total Pounds
- (5) Destination SCF Total Pounds
- (6) Destination DU Total Pounds

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Table MCS - 9

STANDARD MAIL & PERIODICALS MAIL CHARACTERISTICS DATA

Average Number of Pieces by Container Type

	Flat Pallet	Sack	Tray	Letter Pallet
CR	0.00	289.47	245.81	0.00
CRTS	3,628.33	131.54	641.98	6,176.31
5-Digit/FSS Scheme	2,923.87	241.98	269.90	6,108.09
3-Digit/SCF/FSS Facility	4,126.84	97.31	191.45	8,063.53
ADC/NDC	2,194.74	94.67	207.93	6,104.60
Mixed ADC	0.00	119.17	210.01	4,251.17
All Standard Containers	3,491.58	144.98	254.49	7,161.93
Periodical Containers	2,247.93	39.99		

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Table MCS - 11

PERIODICALS BUNDLE DISTRIBUTION MAIL FLOW DENSITY TABLES SUMMARY

Development Based on FY 14 Mail.dat files

		MADC Bundle	ADC Bundle	3D Bundle	5D Bundle	CR Bundle
MADC Container to:		MADC	ADC	3D	5D	CR
Piece		100.00%	1.64%	1.26%	0.00%	0.00%
ADC			98.36%	98.46%	97.23%	98.36%
3D				0.28%	0.57%	0.11%
5D					2.20%	1.53%
CR						0.00%
		100.00%	100.00%	100.00%	100.00%	100.00%
ADC Container to:						
Piece			100.00%	72.04%	0.00%	0.00%
3D				27.96%	26.18%	23.85%
5D					73.82%	76.15%
CR						0.00%
			100.00%	100.00%	100.00%	100.00%

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Table MCS - 12							
BUNDLE DISTRIBUTION MAIL FLOW DENSITY TABLES SUMMARY							
Development Based on FY 14 Mail.dat files							
		MADC Bundle	ADC Bundle	3D Bundle	5D Bundle	CR Bundle	
MADC Container to:							
Piece		MADC	ADC	3D	5D	CR	
		100.00%	2.45%	0.93%			
ADC			97.55%	98.78%	97.96%	97.54%	
3D				0.29%	0.76%	1.29%	
5D					1.28%	1.17%	
CR						0.00%	
		100.00%	100.00%	100.00%	100.00%	100.00%	
ADC Container to:							
Piece			100.00%	37.47%			
3D				62.53%	90.31%	93.56%	
5D					9.69%		
CR							
			100.00%	100.00%	100.00%	100.00%	
3D Container to:							
Piece				100.00%		0.00%	
5D					100.00%	100.00%	
CR						0.00%	
				100.00%	100.00%	100.00%	
5D Container to:							
Piece					100.00%	0.00%	
CR						100.00%	
					100.00%	100.00%	
CR Container to:							
Piece						100.00%	
						100.00%	

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Table MCS - 13						
Average Bundle Size of non-5-Digit Containers						
Periodicals			Standard			
Data			Data			
C-Lev	Sum of Volume	Sum of Bundles	Clev	Sum of Pieces	Sum of Bundles	
MADC	497,689,892	46,413,740.00	MADC	322,477,073.51	20,464,932.87	
ADC	214,876,747	18,370,207.00	NDC	1,088,080,790.40	46,241,638.33	
SCF	3,353,372,423	229,957,112.84	ADC	254,713,520.31	13,847,317.80	
3-Digit	329,856,435	24,482,257.52	SCF	8,388,777,191.15	361,924,951.87	
3D CRTS	5,801,315	725,731.64	3-DIGIT	2,245,059,700.37	72,947,199.85	
FSS Facility	68,992,056	2,507,008.00	FSS Facility	529,326,740.15	13,522,377.22	
FSS Scheme	343,929,937	10,313,730.00	FSS Scheme	992,882,061.94	23,346,821.36	
5-DIGIT	30,580,817	1,953,287.41	5-DIGIT	5,219,304,414.38	97,399,715.47	
5DCRTS	162,266,750	7,385,716.97	5DCRTS	4,111,482,169.13	73,591,227.35	
5DMERGE	191,445,713	7,194,088.41	3DCRTS	101,043	4,330	
5DPSRT	148,772	16,205.48	CR	1,349,867,567	14,306,868	
CR	30,430,976	1,402,041.56	Grand Total	24,502,072,271	737,597,380	
Grand Total	5,229,391,832	350,721,126.83				
	4,470,588,867	322,456,057		12,828,435,016	528,948,418	
	Average Size	20.32				

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Table MCS - 14										
STANDARD MAIL CARRIER ROUTE MAIL CHARACTERISTICS DATA										
(Includes flats mailed at NSA rates and excludes letter-shaped pieces mailed at flat rates)										
				PALLET	SACK	TOTAL	PALLET	SACK		
				AVERAGE	AVERAGE		PCS PER	PCS PER	PALLET	SACK
RATE CATEGORY	MACHINABILITY	CONTAINER PRESORT	PACKAGE PRESORT	VOLUME	VOLUME	VOLUME	PACKAGE	PACKAGE	BUNDLES	BUNDLES
TOTAL										
Carrier Route Basic	AFSM100	Mixed ADC	CR	0	192,939	192,939	0.0	14.6	0	13,249
Carrier Route Basic	AFSM100	ADC/NDC	CR	205,915,368	113,488	206,028,856	16.5	14.2	12,508,797	7,971
Carrier Route Basic	AFSM100	3-Digit	CR	6,659,718,929	834,582	6,660,553,511	21.0	18.5	317,483,103	45,063
Carrier Route Basic	AFSM100	5-Digit/CRTS	CR	1,028,144,844	271,308,427	1,299,453,271	36.9	27.3	27,880,139	9,955,962
Carrier Route Basic	AFSM100	Carrier Route	CR	0	86,300,134	86,300,134	0.0	62.7	0	1,376,586
TOTAL				7,893,779,141	358,749,570	8,252,528,711				
				PALLET	SACK	TOTAL	PALLET	SACK		
				AVERAGE	AVERAGE		PCS PER	PCS PER	PALLET	SACK
RATE CATEGORY	MACHINABILITY	CONTAINER PRESORT	PACKAGE PRESORT	VOLUME	VOLUME	VOLUME	PACKAGE	PACKAGE	BUNDLES	BUNDLES
TOTAL										
Carrier Route Basic on CRTS Pallet	AFSM100	CRTS	CR	117,487,494	0	117,487,494	29.4	0.0	3,990,761	0
TOTAL				117,487,494	0	117,487,494				

Coverage Factors 15m.xls

FLATS COVERAGE FACTORS					
Originating Activity	Method	First-Class	Periodicals	Standard	(1) Source
Bundle Sorting	APPS	74.35%	53.76%	76.28%	USPS-FY15-14
Bundle Sorting	SPBS / LIPS	24.31%	41.32%	23.36%	USPS-FY15-14
Bundle Sorting	MANUAL	1.34%	4.92%	0.37%	USPS-FY15-14
	TOTAL	100.00%	100.00%	100.00%	
Piece Distribution	AFSM100 Only	96.53%	97.62%	97.12%	USPS-FY15-14
Piece Distribution	UFSM1000 Only	0.08%	0.33%	0.20%	USPS-FY15-14
Piece Distribution	AFSM100 / UFSM1000	3.21%	1.55%	2.34%	USPS-FY15-14
Piece Distribution	Manual	0.18%	0.50%	0.34%	USPS-FY15-14
	Total	100.00%	100.00%	100.00%	
Piece Distribution	ATHS	78.60%	76.80%	79.83%	USPS-FY15-14
Destinating Activity	Method	First-Class	Periodicals	Standard	Source
Bundle Sorting	APPS	55.89%	52.17%	64.39%	USPS-FY15-14
Bundle Sorting	SPBS / LIPS	38.93%	41.65%	32.54%	USPS-FY15-14
Bundle Sorting	Manual	5.18%	6.18%	3.08%	USPS-FY15-14
	TOTAL	100.00%	100.00%	100.00%	
Piece Distribution	AFSM100 Only	96.87%	96.29%	96.23%	USPS-FY15-14
Piece Distribution	UFSM1000 Only	0.46%	0.77%	0.52%	USPS-FY15-14
Piece Distribution	AFSM100 / UFSM1000	1.61%	1.54%	2.33%	USPS-FY15-14
Piece Distribution	Manual	1.06%	1.40%	0.93%	USPS-FY15-14
	TOTAL	100.00%	100.00%	100.00%	
Piece Distribution	ATHS	76.78%	74.33%	78.28%	USPS-FY15-14

III. PROGRAM DOCUMENTATION

1. Preparation of the Standard Mail Characteristics.

The following programs aggregate Standard Mail mail.dat files from the PostalOne! eVS system by stratum; weight strata by PostalOne! using the mailing statement data program; and control estimates by shape and rate element, to produce estimates of containers, bundles and pieces by container type, container presort level, container entry point, bundle presort level, piece barcode status, and piece machinability.

Program: **roll_to_rr_2015.f**; – FORTRAN Program that aggregates eVS mail.dat and sample by stratum and weights observations using the PostalOne! mailing statement data to produce disaggregated national estimates.

Subroutines:

get_maps.f
ave_bundle.f
ave_con.f
ave_par.f
check_rec.f
results.f

Input: **ContainerTable.txt** - Summary container characteristics by job/observation ID.

PackageTable.txt- Summary package characteristics by job/observation ID.

RateTable.txt – Summary rate characteristics by job/observation ID.

MCSBun.prn – Map of mail.dat bundle level code to estimated level code.

MCSent.prn - Map of mail.dat entry code to estimated entry code.

MCSLevel.prn – Map of mail.dat container level to estimated container level code.

MCSType.prn – Map of mail.dat container type code to estimated container type code.

RPWQ*.prn – Standard Mail piece control values by shape, presort level and entry discount.

map2015.txt – Listing of jobs/observations.

Mcs15.txt.rr – PostalOne! Standard Mail commercial rate mailing statement weights by strata, presort rate level and entry discount.

Mcs15.txt.np - PostalOne! Standard Mail nonprofit mailing statement weights by strata, presort rate level and entry discount.

Output: **Chars.txt.R*** - Estimates of Standard Mail commercial rate pieces and bundles by container type, container presort level, container entry facility type, parent container type, parent container level,

parent container entry, bundle presort level, presort rate element, machinability, and barcode status.

Chars.txt.N* - Estimates of Standard Mail nonprofit rate pieces and bundles by container type, container presort level, container entry facility type, parent container type, parent container level, parent container entry, bundle presort level, presort rate element, machinability, and barcode status.

constats.txt.R* – Estimates of Standard mail commercial rate containers by container type, container level and container entry facility type.

constats.txt.N*– Estimates of Standard mail nonprofit rate containers by container type, container level and container entry facility type.

2. Preparation of the Periodicals Mail Characteristics.

The following programs aggregate Periodicals Mail mail.dat files from the PostalOne! eVS system by stratum; weight strata by PostalOne! using mailing statement data program; and control estimates by shape and rate element, to produce estimates of containers, bundles and pieces by container type, container presort level, container entry point, bundle presort level, piece barcode status, and piece machinability.

Program: **roll_to_per14.f**; – FORTRAN programs that aggregate eVS mail.dat and sample observations from LR-L-92 by stratum and weights observations using the PostalOne! mailing statement data to produce disaggregated national estimates

Subroutines:

get_maps.f
ave_bundle.f
ave_con.f
ave_par.f
check_rec.f
results.f

Input: **ContainerTable.15.txt** - Summary container characteristics by job/observation ID.

PackageTable.15.txt- Summary package characteristics by job/observation ID.

RateTable.15.txt – Summary rate characteristics by job/observation ID.

MCSBun.prn – Map of mail.dat bundle level code to estimated level code.

MCSent.prn - Map of mail.dat entry code to estimated entry code.

MCSLevel.prn – Map of mail.dat container level to estimated container level code.

MCSType.prn – Map of mail.dat container type code to estimated container type code.

RPWq*.prn – Periodicals flats control volumes by presort rate element and subclass.

pubs.15.draw – Map of observed publication numbers, shape, publication sample weight and subclass.

pubpieces_bypub_fy15.csv – PostalOne! Periodicals 3541 postage statement data by publication number.

p1pub.srt - map of PostalOne! eVS publications.

pubtorate.txt – Map of the universe of publications and subclass.

Output: **Chars.txt.C***, **Chars.txt.N***, **Chars.txt.R*** - Estimates of Periodicals Outside County flat-shaped pieces and bundles by container type, container presort level, container entry facility type, parent container type, parent container level, parent container entry, bundle presort level, presort rate element, machinability, and barcode status.

constats.txt.C*, **constats.txt.N***, **constats.txt.R*** – Estimates of Periodicals Outside County flat-shaped mail containers by container type, container level and container entry facility type.

Program control_fss.f – Fortran program to control initial estimates to billing determinants.

Input: **Chars.txt.CL**, **Chars.txt.NP**, **Chars.txt.RR** - Estimates of Periodicals Outside County flat-shaped pieces and bundles by container type, container presort level, container entry facility type, parent container type, parent container level, parent container entry, bundle presort level, presort rate element, machinability, and barcode status.

constats.txt.CL, **constats.txt.NP**, **constats.txt.RR** – Estimates of Periodicals Outside County flat-shaped mail containers by container type, container level and container entry facility type.

C*bd.prn,R*bd.prn,N*bd.prn – Billing determinant values

Output: **Chars.inf.C***, **Chars.inf.N***, **Chars.inf.R*** - Controlled estimates of Periodicals Outside County flat-shaped pieces and bundles by container type, container presort level, container entry facility type, parent container type, parent container level, parent container entry, bundle presort level, presort rate element, machinability, and barcode status.

constats.inf.C*, **constats.inf.N***, **constats.inf.R*** – Controlled estimates of Periodicals Outside County flat-shaped mail containers by container type, container level and container entry facility type.

3. Preparation of the First-Class Mail Characteristics.

The following set of Microsoft Excel workbooks documents the development of the FY 2015 containerization and bundling estimates of First-Class Mail Presort nonautomation letters and cards; presort flats; automation carrier route letters; and automation carrier route cards. These estimates rely on the methodology and data collected and documented in Docket No. R2006-1, USPS-LR-L-32 and differ only in the use of FY 2015 control values.

Workbook: **NonAutoLetters.xls** – Inflation of nonautomation letter survey observations. Distribution of estimates for unknown tray type, package type. Estimation of unknown package sizes.

Input: First-Class MCS Data Entry.mdb.

Workbook: **NonAutoLetters.xls** – Inflation of nonautomation letter survey observations. Distribution of estimates for unknown tray type, package type. Estimation of unknown package sizes.

Input: First-Class MCS Data Entry.mdb.

Workbook: **NonAutoCards.xls** – Inflation of nonautomation card survey observations. Distribution of estimates for unknown tray type, package type. Estimation of unknown package sizes.

Input: First-Class MCS Data Entry.mdb.

Workbook: **NonAutoFlats.xls** – Inflation of nonautomation flat survey observations. Distribution of estimates for unknown tray type, package type. Estimation of unknown package sizes.

Input: First-Class MCS Data Entry.mdb.

Workbook: **AutoCRLetters.xls** – Inflation of automation carrier route letter survey observations. Distribution of estimates for unknown tray type and package type. Estimation of unknown package sizes.

Input: First-Class MCS Data Entry.mdb.

Workbook: **AutoCRCards.xls** – Inflation of automation carrier route card survey observations. Distribution of estimates for unknown tray type and package type. Estimation of unknown package sizes.

Input: First-Class MCS Data Entry.mdb.

Workbook: **AutoFlats.xls** – Inflation of automation flat survey observations. Distribution of estimates for unknown tray type and package type. Estimation of unknown package sizes.

Input: First-Class MCS Data Entry.mdb.

Workbook: **Inflation Controls.xls** – Computation of office sample inflation factors. Computation of the number of observations inflation factor. Computation of control factor to adjust inflated survey estimates to annual RPW pieces.

Input: Simulated sampling frequencies.
jan10_post1.txt.
Class MCS Data Entry.mdb.
RPW Volumes by rate element.

Links: **NonAutoLetters.xls, NonAutoCards.xls, NonAutoFlats.xls, AutoCRLetters.xls, AutoCRCards.xls, AutoFlats.xls**

Workbook: **ResultsTables.xls** Assembles estimates into report tables.

4. Preparation of First-Class Mail RPW by Shape and Indicia.

The following set of FORTRAN programs and Microsoft Excel workbooks documents the development of the FY 2015 First-Class Mail volumes by shape and indicia.

Summarization of Data

Program: **perrolln_15.f** Aggregates and checks the validity of PostalOne! transaction records. Maintains detail by ounce increment up to 16 ounces.

Input: strata8.mo{mo}.map.
vipmap.1st.14.

ratetable.13jan

ratetable.14jan.

PostalOne! mailing statement database.

Output: fcm_postalone_data.{mo}.

Program: **cbcis_roll_8.f** - Aggregates first class CBCIS system records to strata, vipcode, and transaction type.

Input: strata8.q{qtr}.map.
vip_first14.map.
cbcis database.
pcm_1c_strata_cbcis_q{qtr}2014.
pcm_1c_strata_q{qtr}2014.
a41416_strata_q{qtr}.2014.

Output: factors_sm_qtr{qtr}.txt.

Program: **control_shape.f** -Inflates the PostalOne! data using the stratification revenue files. Creates a file by VIP code and ounce increment for revenue, pieces, and weight. Estimates and distributes weight for unknown weight transactions.

Input: factors_sm_qtr{qtr}.txt.
tnctbstr.dat.
pnctbstr.dat.
rates.14jan.
fcm_postalone_data.{mo}.

Output:indicia14q4.csv.
distkey.1st_q4.txt.

Workbook: **IndShape{quarter}.xls** – Final distribution to shape and indicia and control to official RPW First-Class Mail values.

Input: indicia12q4.csv.
RPW tables.

5. Preparation of Periodicals RPW by Shape.

The following set of FORTRAN programs and Microsoft Excel workbooks document the development of the FY 2014 Periodicals volumes by shape and indicia.

Program: **Post1_per_qtr.f**- Rolls up PostalOne! mailing statement data by subclass, VIP code, finance number and shape and then inflates to trial balance revenues.

Subroutine: inflate_quarter.f

Input: fins.

rates01262014.srt.

vips.prdbl.new2.

PostalOne! mailing statement database.

Stratamap_2014.prn.

strata.41310.

strata.41316.

Output: good.all.inflated.q{quarter}.r.

Workbooks: **Periodicals Shape {quarter}r.xls**- Distribute official revenue, pieces, and weight estimates to shape.

Input: good.all.inflated.{quarter}.r.

RPW tables.

6. Preparation of Standard Mail RPW by Shape.

Program: **std_shape_15.f** - Aggregates PostalOne! Standard mail data by stratum, VIP, shape, and weight increment and month

Input: lead_strata_reg7.map, lead_strata_np7.map – Map of PostalOne! finance numbers and stata.

VIPSR2014.prn(Regular Rate), VIPSNP2014.prn - Map of VIP codes and rates.

PostalOne! mailing statement database.

Output: pmt_std.wi.{month}.

Program: **eststda_15.f** - Inflates the PostalOne! data using the stratification revenue files. Creates a file by RPW mail category code and ounce increment for revenue, pieces, and weight. Estimates and distributes weight for unknown weight transactions.

Input: lead_strata_reg7.map,lead_strata_np7.map.

VIPSR2013.prn/VIPSNP2013.prn .

pmt_std.wi.[month].

Strata.41411.sort.

strata.41411 (Regular),strata.41414(Nonprofit).

Output: stda.{quarter}.csv.