

**USPS-RM2016-11/1
Public Material Relating to Proposal Three**

I. PREFACE

A. Purpose and Content

USPS-RM2016-11/1 contains public material related to Proposal Three, a proposal to use IOCS-Cluster for carrier sampling.

B. Methodology Changes

The methodology for IOCS-Cluster is described in the Proposal Three, Appendix A, In-Office Cost System (IOCS-Cluster) Statistical Documentation.

In IOCS-Cluster, activity code 6422 now represents the time regular carriers spend clocked to the office in the afternoon in addition to leaving for their route while in-office. Similar to Proposal Nine, RM2015-2, this activity code is distributed to products using the CS6 carrier in-office distribution key. New activity code 6720 represents the time SPR carriers are clocked to in-office.

Table 1 lists the activity codes that have their costs determined by TACS clock ring data rather than by IOCS readings¹.

Table 1: Activity Codes with Weights Based on TACS

Activity Code	Definition
6422	Regular Carriers in the Afternoon ²
6519	Training
6710	City Carrier Street Time
6720	In-Office Time for SPR City Carriers

¹ Records for these activity codes have the TACSFlag variable set to 1.

² In addition to representing carrier hours in the afternoon, 6422 is also used to represent carriers leaving for or returning from their route while still in the facility.

The data recorded by the data collection software are identical to non-cluster IOCS except for the following differences:

- Detailed data are not collected for carriers who are not working in the tested facility and zone on the day of the test, or who are not in the facility at the time of their reading. This includes when a carrier is in the parking area or loading dock, as carriers are generally clocked to the street³.
- Data collectors no longer manually record detailed data on the number and type of stops on the carrier's route.
- Data about whether a carrier will have lunch while on the street are not collected.

Additional description for the variables used to calculate dollar-weights are presented in the following table.

Table 2: IOCS-Cluster Variable Descriptions

Variable	Short Description	Source/Description/Formula, By Categories
WeightedHours	Hours Allocated by TACS weighting	From DOIS, TACS hours for testZone, by quarter
TotalFinHrsInQTR	Total Hours Allocated to that Finance Number for the Quarter	From DOIS, TACS hours for finance number, by quarter
SamplingWght	Inverse of probability to be sampled based on DOIS Hours	Inverse of probability for zone/financeNum to be sampled, calculated from DOIS workhours, by quarter
FinnumProp	DOIS Hour Split by Finance Number Proportion	=WeightedHours/TotalFinHrsInQtr, by testZone, financeNum, by quarter
FinBinDOWHrs	Hours Allocated by TACS by Timebin, Finance Number and Day of the Week	From TACS, hours, by financeNum, timeBin, DOW, craftGrp, quarter
BinDOWHrs	Hours Allocated by TACS by Timebin and Day of Week	From TACS, hours, by timeBin, DOW, craftGrp, quarter
BinHrs	Hours Allocated by TACS for a specific Timebin	From TACS, hours, by timeBin, craftGrp, quarter
EstZoneBinDOWHrs	Estimated Hours in Sampled Delivery Zone	= FinnumProp * FinBinDOWHrs, by testZone, timeBin, DOW, craftGrp, quarter

³ For carriers who are checking their vehicle, data collectors do conduct a detailed reading as the carrier is generally clocked to the office.

Variable	Short Description	Source/Description/Formula, By Categories
TotalTACSHrsQtr	Total Hours Allocated for Full/Part Time Carriers for the Quarter	From TACS, total TACS hours, by craftGroup, quarter
SmpTACSHrsByBinDOW	Total Sampled TACS Hours by Timebin and Day of the week	Hours sampled by IOCS-Cluster tests, =sum(EstZoneBinDOWHrs) for all sampled zones, by timeBin, DOW, craftGrp, quarter
TestTBCount	Reading Count Within Timebin	Number of active IOCS readings, by testZone, timeBin, craftGrp, quarter
ReadingTACSHrWeight	TACS Weight assigned to each reading	= EstZoneBinDOWhrs / TestTBcount, by testZone, timeBin, DOW, craftGrp, quarter
PopToSampRatio	Ratio of Sample Weight to Population	= binDOWhrs / smptacshrsbybinDOW, by timeBin, DOW, craftGrp, quarter
TACSWght	Final Weight assigned to reading based on TACS	= ReadingTACSHrWeight * PopToSampRatio, by testZone, timeBin, DOW, craftGrp, quarter
SumReadWght	Total of all reading weights	= sum(ReadingTACSHrWeight), by testType (zoneGrp), quarter
SampTotBySize	Total Sampled Hours by Test Type	= sum(TACSWght), by testType (zoneGrp), quarter
DoisCntrl	Total DOIS Hours by Testtype	From DOIS, sum of ActualOfficeHoursAmount , by testType (zoneGrp), quarter
ExpansionFac	DOIS Hour Expansion to Adjustment	= DOISCntrl / SampTotbySize, by testType (zoneGrp), quarter
FinalWght	Final weight assigned to each reading based on DOIS and TACS	= DOISCntrl * (TACSWght / Sum(TACSWght)), by testZone, timeBin, DOW, craftGrp, quarter
FinalProp	Final Proportion of Each Reading within Craft Group and MODSType, LDCGrp and Route Group	= FinalWght / sum(FinalWght), by testZone, timeBin, DOW, craftGrp, LDCGrp, MODSType, RtGrp, quarter
SumFinWght	Total of Final Weights	= sum(FinalWght), by Craftgrp, LDCGrp, MODSType, RtGrp, quarter
TACSFlag	Flag whether cost calculated using only TACS data	1 if generated from TACS, not IOCS, data, 0 otherwise
AttCost	Total Attributable Cost by Craft Group, MODSType, LDC Group and Route Group	= sum(AttributableCost), by CraftGrp, LDCGrp, MODSType, RtGrp, quarter
WeightedCost	Total Dollars Assigned per Reading	= (FinalWght / SumFinWght) * AttCost, by testZone, timeBin, DOW, craftGrp, LDCGrp, MODSType, ,RtGrp, quarter

II. ORGANIZATION

In addition to this Word (pdf) Preface, USPS-RM2016-11/1 consists of a zip file containing the additional files described below.

Table 3: Files Included in USPS-RM2016-11/1

File Name	Contents
ImpactTablesForIOCSCluster_Public.xlsx	Tables 1-4 from Proposal
I_FORMS- FY16Q2Q3-Cluster.xlsm	I_FORMS workbook, support file for development of city carrier costs
CS06&7- FY16Q2Q3-Cluster	CS06&7 workbook, development of city carrier costs
SASPrograms\CL101	SAS program to estimate cost weights for IOCS-Cluster tallies using TACS data in addition to trial balance control total dollars
SASPrograms\CL103	SAS program for additional processing of International tallies, modified version of ALB103
SASPrograms\CARMMCL	SAS program to distribute costs for mixed mail tallies, modified version of ALBCARMM
Data\PRCPubCL16Q2Q3.sas7bdat	IOCS-Cluster data (non-public), FY16 Q2 and Q3, PC-SAS dataset
Data\PRCPubCL16Q2Q3Flat.dat	IOCS-Cluster data (non-public), FY16 Q2 and Q3, flat file
Data\PRCPubCL_FLTFMT.txt	SAS macro to read flat file
Data\IOCSDataDictionary_IOCSCluster.xls	Description of the variables in the IOCS-Cluster dataset

Note: The data files contain IOCS-Cluster data elements that would be used for the development of the CRA. It was developed by dropping variables that would not be used in development of the CRA, and recoding variables containing sensitive information.

The following variables were recoded:

TestID: the finance number part of the TestID has been recoded.

FinanceNum: the finance number has been recoded.

EmployeeEIN: the Employee Identification Number has been recoded.