

2020 Census Update Leave Weekly Update

OD 9.b

8/11/2020

Julia Lopez, Ross Stephenson, Kim Canada, Mike Cina

Update Leave Schedule and Progress

Key Dates:

Activity	Start	Finish
Conduct Update Leave Production	05/06/2020 (A)	08/10/2020 (A)
Conduct Update Leave Quality Control	05/18/2020 (A)	07/20/2020

Current Progress:

- 100% blocks complete, 100% original addresses complete
- 169 ACOs production complete, 167 ACOs QC complete

Quality Control:

- 23,181 BCUs selected, 23,107 BCUs completed (99.68%)
- 50.0% BCU failure rate, 7.9% weighted address level error rate

Update Leave Processing, PR Responses and System Status

MAF/TIGER Processing:

BCU (Block) Processing	% Blocks	% Addresses
Received from LiMA	99.98%	99.99%
Processed in Preprocessing	99.98%	n/a
Run Through MAF Updating	99.95%	108.99%*

Puerto Rico Self Response:

- 18.62% responses processed (15.99% internet, 1.69% paper, 0.94% phone)
- 291,987 UL Paper Questionnaires from PR have been checked in to ATAC.

UL System Status:

- Reminder postcard workload (3306) shows about 2.16 million postcards were attempted to be delivered.
- Plan to implement CR 1435 on 8/18/20 – new addresses with no form left
 - Approximately 75,000 records will be added to NRFU

*The address percentage includes both the original address list plus new addresses.

Backup Slides

Key Dates

Activity	Start	Finish
Conduct Refresher Training	04/27/2020 (A)	05/03/2020 (A)
Un-Pause ACOs that opened May 18th		05/16/2020 (A)
Activate MOJO Optimizer for ACOs that opened May 18th		05/17/2020 (A)
Conduct QC Enumerator Capstone Training- ACOs that opened May 18th	05/28/2020 (A)	05/28/2020 (A)
	05/29/2020 (A)	05/29/2020 (A)
	05/30/2020 (A)	05/30/2020 (A)
Un-Pause ACOs that opened May 25th		05/23/2020 (A)
Activate MOJO Optimizer for ACOs that opened May 25th		05/25/2020 (A)
Conduct QC Enumerator Capstone Training- ACOs that opened May 25th	06/04/2020 (A)	06/04/2020 (A)
	06/05/2020 (A)	06/05/2020 (A)
	06/06/2020 (A)	06/06/2020 (A)
Un-Pause ACOs that opened June 1st		05/30/2020 (A)
Activate MOJO Optimizer for ACOs that opened June 1st		05/31/2020 (A)
Conduct QC Enumerator Capstone Training- ACOs that opened June 1st	06/11/2020 (A)	06/11/2020 (A)
	06/12/2020 (A)	06/12/2020 (A)
	06/13/2020 (A)	06/13/2020 (A)
Un-Pause ACOs that opened June 8th		06/06/2020 (A)
Activate MOJO Optimizer for ACOs that opened June 8th		06/07/2020 (A)
Conduct QC Enumerator Capstone Training- ACOs that opened June 8th	06/18/2020 (A)	06/18/2020 (A)
	06/19/2020 (A)	06/19/2020 (A)
	06/20/2020 (A)	06/20/2020 (A)
Conduct Update Leave Production	05/06/2020 (A)	08/10/2020 (A)
Conduct Update Leave Quality Control	05/18/2020 (A)	07/20/2020

Current Production Status - Progress

RCC	Block Workload	Blocks Assigned	% of Block Wkld Assigned	Blocks Compl	% Blks Compl	Orig Addresses	Orig Addr Compl	% of Orig Addr Compl in Blk Wkld
Total	311,358	311,358	100.00%	311,358	100.00%	6,805,523	6,805,523	100.00%
Atlanta/2999	30,170	30,170	100.00%	30,170	100.00%	737,836	737,836	100.00%
Chicago/2599	32,431	32,431	100.00%	32,431	100.00%	591,628	591,628	100.00%
Dallas/3199	108,869	108,869	100.00%	108,869	100.00%	1,669,479	1,669,479	100.00%
Los Angeles/3299	37,532	37,532	100.00%	37,532	100.00%	756,609	756,609	100.00%
New York/2299 (Stateside)	24,849	24,849	100.00%	24,849	100.00%	630,528	630,528	100.00%
New York/2299 (Puerto Rico)	45,578	45,578	100.00%	45,578	100.00%	1,776,226	1,776,226	100.00%
Philadelphia/2399	31,929	31,929	100.00%	31,929	100.00%	643,217	643,217	100.00%

Data as of 8/11/20

169 ACOs have completed their Production Workload and 167 have completed Prod and QC.

ACOs Remaining-QC Workload Only

RCC	State	ACO	Week of Restart	QC BCU Workload	Blocks Assigned	% of Block Wkld Assigned	Blocks Compl	% Blks Compl
DA	AZ	Flagstaff/3105	5/18/20	280	279	99.64%	278	99.29%
DA	AZ	Window Rock/3110	6/8/20	468	458	97.86%	403	86.11%

Data as of 8/11/20

UL QC Results—Cumulative

	This Week	Last Week	Final AdCan Results	Final IL Results
BCUs Selected for QC	23,181	23,168	123,361	2,158
BCUs Completed QC	23,107	23,040	123,361	2,158
Enumerator Error Rate, BCU Level (Unweighted)	50.0%	50.0%	36.3%	45.7%
Enumerator Error Rate, BCU Level (Weighted)	45.5%	45.5%	34.8%	41.0%
Addresses Checked in QC	583,985	582,536	3,425,283	96,647
Enumerator Error Rate, Address Level (Weighted)	7.9%	7.9%	4.3%	11.1%
Percent of Enumerators Selected	60.1%	60.1%	84%	69.3%
Percent of Enumerators Checked	99.9%	99.7%	100%	100.0%
Percent with 0 Failed BCUs	33.4%	33.4%	27%	36.9%
Percent with 5+ Failed BCUs	2.2%	2.2%	12%	1.6%

QC Results – Coverage Errors by Sampling Stratum

Simulated Enumerator's Coverage Error	Low Stratum	Middle Stratum	High Stratum	Overall	Final AdCan Results	Final IL Results
Missed Adds	32.0	30.7	32.9	31.8	15.7	63.0
Missed Deletes	27.1	38.4	53.3	30.8	18.6	46.1*
Incorrect Deletes	11.1	15.2	16.7	12.2	7.3	—

Calculated per 1,000 units worked in production

*In IL, this error is an incorrect add and not a missed delete.

QC Sampling Results – BCUs Distribution Across Sampling Stratum

BCUs	Low Stratum (5% sample rate, 2% sample rate)*		Middle Stratum (10% sample rate)		High Stratum (100% sample rate)		Total
	Count	Percent	Count	Percent	Count	Percent	Count
Completed in Production	255,484	82.1%	45,292	14.6%	10,488	3.4%	311,264
Selected for QC*	7,549	32.6%	5,589	24.1%	10,043	43.3%	23,181
Selected During 100%	1,907	50.9%	1,397	37.3%	443	11.8%	3,747
Sampling Pre-Change	1,585	29.5%	918	17.1%	2,879	53.5%	5,382
Sampling Post-Change	4,057	28.9%	3,274	23.3%	6,721	47.8%	14,052
Completed in QC	7,525	32.6%	5,572	24.1%	10,010	43.3%	23,107
Failed QC (Unweighted‡)	2,981	40.4%	2,933	53.3%	5,430	55.5%	11,344
Failed QC (Weighted)	—	43.6%	—	53.9%	—	55.5%	45.5%

Sampling was changed beginning 5/15

SMaRCS Data as of 08/10/2020 These results may differ from UTS reports

*3,439 BCUs were removed from the QC workload

‡Percent of Pass Plus Fail in QC

Update Leave MAF/TIGER Processing

BCU (Block) Processing	Counts	Percent of Universe	Increase from 08/04
Total Blocks in Update Leave Universe	311,358		
Total Blocks Received from LiMA	311,294	99.98%	925
Total Blocks Processed in Preprocessing	311,294	99.98%	925
Total Blocks Run Through MAF Updating	311,195	99.95%	944

Address Record Processing	Counts	Percent of Universe	Increase from 08/04
Total Addresses Received from LiMA (Non Adds)	6,839,164	99.99%	11,091
Total Addresses Run Through MAF Updating (w/Adds)	7,454,650	108.99%	6,253

Data as of 8/11/20

Update Leave: Frame Summary

Address Action	Total		50 States		Puerto Rico	
	Number	Percent	Number	Percent	Number	Percent
Add	742,385	9.8	507,113	9.1	235,272	11.7
Verify	2,595,633	34.2	2,014,661	36.2	580,972	28.8
Address Changes	1,855,644	24.5	1,144,423	20.6	711,221	35.3
Other Corrections	684,166	9.0	584,555	10.5	99,611	4.9
Delete	1,102,438	14.5	842,404	15.1	260,034	12.9
Duplicate	293,813	3.9	193,421	3.5	100,392	5.0
Non-residential	102,336	1.4	88,938	1.6	13,398	0.7
Conversions to Group Quarters	11,081	0.1	9,343	0.2	1,738	0.1
Conversions to Transitory Locations	67,195	0.9	65,743	1.2	1,452	0.1
Unable to Work	125,702	1.7	115,414	2.1	10,288	0.5
Total Address Records	7,580,393	100.0	5,566,015	100.0	2,014,378	100.0
Number of BCUs	311,195		265,617		45,578	

Note: QC results are incorporated into these results. Data indicate the final field actions.

Update Leave: Types of Addresses Being Confirmed

- Units being confirmed by UL include Verifies, Changes, and Corrections.

- In 311,195 completed BCUs,

50 States: (265,617 BCUs)

- 68.4 percent of the 657,891 addresses added or verified by LUCA are confirmed
- 81.2 percent of the 955,695 addresses that were residential on the latest DSF are confirmed
- 78.1 percent of the 4,110,616 addresses that were in the 2010 Census are confirmed
- For confirmed records, 98.9 percent of accepted map spots remain within same BCU, 1.1 percent moving between BCUs

Puerto Rico: (45,578 BCUs)

- 71.3 percent of the 60,363 addresses added or verified by LUCA are confirmed
- 76.4 percent of the 704,786 addresses that were residential on the latest DSF are confirmed
- 84.9 percent of the 1,566,797 addresses that were in the 2010 Census are confirmed
- For confirmed records, 97.5 percent of accepted map spots remain within same BCU, 2.5 percent moving between BCUs

Update Leave: Types of Addresses Being Removed

- Units being removed from Census frame (Removals) include Deletes, Duplicates, and Non-residential

50 States: (265,617 BCUs)

- 27.2 percent of the 657,891 addresses added or verified by LUCA are removed
- 16.9 percent of the 955,695 addresses that were residential on the latest DSF are removed
- 18.5 percent of the 4,110,616 addresses that were in the 2010 Census are removed

Puerto Rico: (45,578 BCUs)

- 27.2 percent of the 60,363 addresses added or verified by LUCA are removed
- 23.0 percent of the 704,786 addresses that were residential on the latest DSF are removed
- 14.4 percent of the 1,566,797 addresses that were in the 2010 Census are removed

- Duplicates

50 States

- 50.8 percent of Duplicates linked non-DSF record with a DSF record
- 2.9 percent of Duplicates linked two DSF records

Puerto Rico

- 69.9 percent of Duplicates linked non-DSF record with a DSF record
- 6.9 percent of Duplicates linked two DSF records

Update Leave: Coverage Changes

- 50 States:

BCUs received to date: 265,617

- 32.4 percent of BCUs have no adds
- 8.4 percent of BCUs have no removals
- 22.2 percent of BCUs have no adds and no removals
- 181 BCUs have > 100 adds
- 142 BCUs have > 200 removals
- 8,833 adds and deletes exact match* in different BCUs

*Exact matching, not done in Puerto Rico, is for preliminary analysis only and does not reflect production matching performed during MAF update.

- Puerto Rico:

BCUs received to date: 45,578

- 19.9 percent of BCUs have no adds
- 10.5 percent of BCUs have no removals
- 13.7 percent of BCUs have no adds and no removals
- 155 BCUs have > 100 adds
- 92 BCUs have > 200 removals

Summary Self-Response – Puerto Rico

Mode	% of All Responses	Response Volume	% of Universe Responses*
Total Self-Responses	100%	330,680	18.62%
Internet	85.87%	283,966	15.99%
Paper	9.09%	30,066	1.69%
Phone	5.03%	16,648	0.94%

*Percent is based on the Original Address list of Puerto Rico (1,776,226 HU)

Data as of 8/11/20

- 291,987 UL Paper Questionnaires from PR have been checked in to ATAC.

UL System Status

- GQ and TL workloads now being cut daily
- Incidents
 - Closed: INC565612 (CDL) Update to CDL->DRPS sends for multiple 4.083 events with same CUSTID and distinct RSCID – logic update for UL Non-ID – deployed to PROD
 - Closed: INC890810 Reassignments in FOCS not delivering block data to new enumerator (due to previous version not being transmitted); LiMA and FOCS provided chronological instructions to ACO and assignments were successfully transmitted and completed.