



2020 Census

May 2017

Monthly Status Report

All information in this report is as of May 31, 2017
unless otherwise stated in the title of the page.

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Key Program Updates

Data collection is nearly complete for the 2017 Census Test (pp. 8-9). Reviews of 2017 Census Test response rates by mode (internet, telephone, mail) are underway, as are assessments of applications and systems used for the Test. Preliminary results and findings are also being used, as appropriate, to modify requirements, solutions, and other operational aspects for the 2018 End-to-End Census Test.

Development, testing, and integration of the system of systems for the 2018 End-to-End Census Test continue by government staff and contractors, as do preparatory efforts, related to over 24 major operations that are in scope for the Test (pp. 10-17). Much of this work also supports similar systems efforts for the 2020 Census (pp. 24-25). The Test is planned to take place, with an April 1, 2018 Census Day, in portions of three areas: Providence County, Rhode Island; Pierce County, Washington; and Bluefield-Beckley-Oak Hill, West Virginia.¹ Providence County's demographics mirror those of the nation, providing a microcosm of the 2020 Census experience. Pierce County offers a large military population, while Bluefield-Beckley-Oak Hill provides a very rural environment. Pierce County offers a West Coast location, providing an opportunity for system latency testing as well.

The Local Update of Census Addresses (LUCA) program is underway (see pp. 26-27). The Census Bureau continues to conduct workshops with staff from governmental units interested in participating in the LUCA program. Additionally, materials are being prepared for the July 2017 mailout of invitation letters and registration forms to all 39,000 functioning governmental units.

Work with the United States Postal Service (USPS) continues on several fronts. A Memorandum of Understanding preliminary draft has been prepared describing the enterprise-wide business activities between the Census Bureau and USPS and reflecting the strategies to create a sustainable partnership over long- and short-term time frames. We expect to release a study plan, updated schedule and finalized site locations for the "Postal Carriers as Census Enumerators" pilot project (p. 27 and 17).

Efforts continue with the General Services Administration to begin identifying suitable space for the temporary field offices that will be needed for the 2018 End-to-End Census Test (p. 11) and for the 2020 Census (p. 34).

Through May 31, 2017, 87.8 percent of 2017 Census Test activities and 27.7 percent of 2018 End-to-End Census Test activities were completed (p. 38).

Extensive engagements with stakeholders and oversight also continue. On May 3, 2017, Director John Thompson testified before the House Committee on Appropriations, Subcommittee on Commerce, Justice, Science and Related Agencies on oversight of the 2020 Census. The Census Bureau is working actively to close open recommendations from the

¹ The FY 2018 President's Budget released in May 2017 proposes conducting the 2018 End-to-End Test at only one location (Providence, Rhode Island). The de-scoped field test sites from the 2017 Census Test are not included in the FY 2018 President's Budget proposal for the 2018 End-to-End Test.

Key Program Updates Cont'd

Government Accountability Office (GAO) and Office of Inspector General (OIG). GAO currently has 4 major audits in progress related to the 2020 Census, and OIG has 3 as well.

Some specific program updates include:

2017 Census Test

- Concluded data collection operations on May 12, 2017, as scheduled.
- Completed internet data collection on May 12, 2017.
- Began Clerical Non-ID Processing for the 2017 Census Test.
- Concluded Automated Non-ID Processing for the 2017 Census Test.
- Continued re-interview operations for Tribal Enrollment and Non-ID Validation (through July 10, 2017).

2018 End-to-End Census Test

- Submitted final comments on Internet Self-Response capability requirements for 2018 End-to-End Census Test.
- Delivered specifications (capability requirements) to the Government Publishing Office for the 2018 End-to-End Census Test for printing, package assembly, and mailing of paper questionnaires, letters, and cards.
- Developing performance report requirements that will be needed to monitor operations.
- Delivered geographic files for the test area operations.
- Conducted discussion sessions with the United States Postal Service in two different working group meetings on May 4, 2017 and May 30, 2017. Discussed detail and addressed questions about the technology of Informed Delivery, brainstormed possibilities of collaborating on using Informed Delivery, and discussed details around the mail strategy including timing of mailings.
- Conducted the Test Readiness Release 2 for Release A (In-Field Address Canvassing) systems on May 10, 2017 and Training Release 1 (Address Canvassing onboarding and training) Production Readiness Review on May 26, 2017.
- Approved proposal on May 16, 2017 to redesign the Update Enumerate operation and to re-introduce the Update/Leave operation. The Update Enumerate operation will not be tested in the 2018 End-to-End Census Test and will be performed in only a limited area in the 2020 Census. The Update/Leave operation will be tested in the 2018 End-to-End Census Test and will be conducted in the majority of areas previously designated for Update Enumerate.
- Accepted space for the Providence Area Census Office (ACO) on May 17, 2017. Office opened on May 26, 2017. Notice to Proceed for the Beckley ACO was signed on May 10, 2017.

2020 Census Operations

- Conducted the 2020 Systems Requirement Review and began the Critical Design Review.
- Obtained approval of the Security, Privacy and Confidentiality Detailed Operational Plan for 2020.

Key Program Updates Cont'd

2020 Census Operations Cont'd

- Held LUCA Promotional Outreach events in May. LUCA staff at the National Processing Center continued to receive Contact Information Update Forms from reminders mailed to partners, and the staff will be updating the Geographic Program Participant (GPP) database and LUCA Production Control System (PCS) with that information.
- Enterprise Census Bureau-United States Postal Service Memorandum of Understanding is under development. Anticipated target date for finalization is the end of FY2017.
- The Redistricting Data Program presented their final Business Process Models, Business Requirements and Capability Requirements at the System Readiness Review meeting on May 1, 2017.
- Held Executive Program Management Review (PMR) for the Integrated Partnership and Communications Program on May 4, 2017.
- Submitted early draft of the 2020 Census Records Schedule to the National Archives and Records Administration for preliminary review on May 11, 2017.
- Conducted General Services Administration (GSA)-Census Joint Lease Acquisition Training in Atlanta, Georgia, from May 15-18, 2017. The training was conducted with Census Regional and Headquarters staff and the GSA and supports leasing process for all 2020 Census Area Census Offices.
- Continued meeting expected production goals for the 2020 Census In-Office Address Canvassing Interactive Review. We have completed 10,956,110 blocks during Interactive Review from the beginning of production in September 2015 through May 31, 2017.
- As of May 31, 2017, classified 71.2 percent of the blocks as Passive, which means that there are either no changes or observed changes are straightforward and easy to update, 16.9 percent as Active, meaning there are significant changes requiring In-Field Address Canvassing, and 1.9 percent as On-Hold.

Oversight and Stakeholder Engagement

- Provided Action Plan in response to Office of Inspector General (OIG) Final Report on 2016 Census Test on May 9, 2017.
- Received OIG Final Report on the 2016 Address Canvassing Test on May 11, 2017.
- Held exit conference for Government Accountability Office (GAO) audit on 2020 Address Canvassing on May 15, 2017.
- Held exit conference for OIG Review of Census Interactive Address Canvassing Operation on May 16, 2017.
- Provided Action Plan for OIG Final Report on Management of Administrative Records and Third-Party Data on May 25, 2017.
- Provided an overview of the 2020 Census translation work at an Interagency Language Roundtable meeting on May 12, 2017.

Status of Major Tests

2017 Census Test

Description

Pursuant to 2020 Census Program Memorandum 2016.21, the scope of the 2017 Census Test was reduced in response to the uncertainty surrounding the final FY2017 appropriations. As a result, the 2020 Census Program did not conduct the Fiscal Year 2017 field test operations in the Standing Rock Reservation in North Dakota and South Dakota and the Colville Reservation and Off-Reservation Trust Land in Washington state. Field tests planned for three areas in Puerto Rico were also cancelled.

Key Activities

Conduct Census Questionnaire Assistance (CQA) – March 20, 2017 – May 12, 2017 (complete)
Conduct Self-Response, Including Non-ID Processing – March 20, 2017 – May 12, 2017
(Complete May 12, 2017)
Census Day – April 1, 2017
Conduct Reinterview Operations – April 10, 2017 – July 10, 2017

Summary of Activities (Last 30 Days)

Census Questionnaire Assistance

Concluded operations on May 12, 2017, as scheduled.

Internet Self-Response

1. Completed internet data collection on May 12, 2017.
2. Began external stakeholder review of Internet Self-Response application on May 17, 2017; review concluded on May 26, 2017.
3. Began some preliminary analysis of 2017 response and paradata. These data answer specific questions such as “how many users indicated an age greater than 100 or a household size larger than 10.”

Non-ID Processing

1. Concluded training for Clerical Non-ID Processing for the 2017 Census Test.
2. Began Clerical Non-ID Processing for the 2017 Census Test.
3. Concluded Automated Non-ID Processing for the 2017 Census Test.
4. Began analysis of automated processing results from the 2017 Census Test.

Look Ahead (Next 60 Days)

Program Management

Begin Lessons Learned activities. Specific operations will work on their Lessons Learned from the 2017 Census Test. For instance, Systems Engineering and Integration will do systems specific Lessons Learned and Census Questionnaire Assistance will do multiple levels of Lessons Learned which include both high-level information learned by system owners and more detailed-level interviews with Customer Service Representatives.

Non-ID Processing

Conclude Clerical Non-ID Processing.

Census Questionnaire Assistance

Contractor produces draft Lessons Learned report.

2017 Census Test

Look Ahead (Next 60 Days) Cont'd

Paper Data Capture

Close out 2017 Paper Data Capture Census Test effort and complete Lessons Learned activities.

2018 End-to-End Census Test

Description

The 2018 End-to-End Census Test objectives are to:

- Test and validate 2020 Census operations, procedures, systems, and field infrastructure together to ensure proper integration and conformance with all requirements.
- Produce a prototype of 2020 Census geographic and data products.

The Test includes aspects of all four key innovation areas of the 2020 Census Program: reengineering address canvassing, optimizing self-response, utilizing administrative records and third-party data, and reengineering field operations. Additionally, the Test will introduce enterprise systems that were not used in earlier census tests, expand systems already in use, and enhance system use of Cloud technologies.

The Test will take place, with an April 1, 2018 Census Day, in portions of three areas: Providence County, Rhode Island; Pierce County, Washington; and Bluefield-Beckley-Oak Hill, West Virginia². Providence County's demographics mirror those of the nation, providing a microcosm of the 2020 Census experience. Pierce County offers a large military population, while Bluefield-Beckley-Oak Hill provides a very rural environment, simulating unique challenges that the Census Bureau will face in 2020.

Key Activities

Publish Paperwork Reduction Act Presubmission Federal Register Notice for Early Operations – October 7, 2016 (published on October 19, 2016)

Conduct In-Office Address Canvassing – November 16, 2016 – February 2, 2017 (started on September 26, 2016; completed on January 27, 2017)

Open Regional Census Centers (RCC) – January 3, 2017 (completed on January 3, 2017)

Deliver Office of Management and Budget (OMB) (Paperwork Reduction Act) Clearance Package for Early Operations – January 24, 2017 (published January 10, 2017)

Receive OMB (Paperwork Reduction Act) Approval for Early Operations – March 27, 2017 (completed on March 23, 2017)

Publish Presubmission Federal Register Notice for Peak Operations – March 1, 2017 (completed on March 29, 2017)

Begin Recruiting for Early Operations – March 10, 2017 (begun on March 31, 2017)

Open Area Census Offices (ACO) – March 31, 2017 (Providence ACO opened May 26, 2017; Seattle and Beckley ACOs projected to open by July 24, 2017.)

Finalize Partnership Staff Selection – August 18, 2017 (cancelled; due to FY17 budget constraints, partnership activities have been descoped from the 2018 End-to-End Census Test)

Deliver OMB (Paperwork Reduction Act) Clearance Package for Peak Operations – July 21, 2017

Receive OMB (Paperwork Reduction Act) Approval for Peak Operations – September 12, 2017

Conduct In-Field Address Canvassing – August 28, 2017 – September 29, 2017*

² The FY 2018 President's Budget released in May 2017 proposes conducting the 2018 End-to-End Test at only one location (Providence, Rhode Island). The de-scoped field test sites from the 2017 Census Test are not included in the FY 2018 President's Budget proposal for the 2018 End-to-End Test.

2018 End-to-End Census Test

Key Activities Cont'd

Conduct In-Field Address Canvassing Listing Quality Control (QC) – September 5, 2017 – October 6, 2017**

Conduct Group Quarters (GQ) Advance Contact – February 5, 2018 – March 9, 2018

Conduct Census Questionnaire Assistance (CQA) – March 19, 2018 – August 7, 2018

Conduct Self-Response, Including Non-ID Processing – March 19, 2018 – August 7, 2018

Conduct GQ Enumeration – March 28, 2018 – June 8, 2018 (Including SBE)

Conduct GQ Enumeration QC – April 4, 2018 – July 31, 2018***

Census Day – April 1, 2018

Conduct Early Nonresponse Followup (NRFU) – April 3, 2018 – May 9, 2018

Conduct Nonresponse Followup (NRFU) – May 10, 2018 – July 24, 2018

Conduct NRFU Reinterview – April 4, 2018 – July 31, 2018

Conduct Update Enumerate (UE) – April 16, 2018 – May 16, 2018****

Conduct UE Reinterview – April 19, 2018 – July 17, 2018****

Conduct UE Listing QC – April 23, 2018 – May 23, 2018****

Conduct GQ Enumeration, Late Production – June 11, 2018 – August 31, 2018

Publish Prototype P.L. 94-171 Data and Support Products – no later than April 1, 2019

*Start of activity delayed from August 14, 2017; the In-Field Address Canvassing operation is being compressed due to replanning to accommodate training needs. This will provide more time to develop a more robust training tool.

**Start of activity delayed from August 21, 2017; the In-Field Address Canvassing operation is being compressed due to replanning to accommodate training needs.

***The Group Quarters operation has changed the conduct dates to account for other operations noting locations that are Group Quarters. In other words, other operations in the course of being conducted may identify Group Quarters and in order to properly enumerate them, they may be passed off to the Group Quarters operation.

****On May 16, 2017, the Census Bureau Executive Steering Committee approved the addition of an Update Leave operation in the 2018 End-to-End Census Test and the 2020 Census. Included in this is changing Update Enumerate to a 2020 Census-only operation, so now there will be no Update Enumerate in the 2018 End-to-End Census Test. The schedule will be reflected in the June Monthly Status Report.

Summary of Activities (Last 30 Days)

Evaluations and Experiments

The Evaluations and Experiments Integrated Project Team submitted a global schedule change request on May 18, 2017 to ensure all 2018 End-to-End Census Test operations follow the standard activities for study plan and report development consistently.

Decennial Logistics Management

1. Accepted space for the Providence Area Census Office (ACO) on May 17, 2017. Office opened on May 26, 2017.
2. Notice to Proceed for the Beckley ACO was signed on May 10, 2017.
3. Delivered administrative and payroll kits, bulk office supply kits, and furniture to Providence, Rhode Island Area Census Office (ACO) on May 22, 2017. Working on plan for deliveries to the other sites.

2018 End-to-End Census Test

Summary of Activities (Last 30 Days) Cont'd

Recruiting, Training, and Onboarding

1. Lead Clerk, IT Specialist, and Administrative Clerk for the Providence ACO began work on May 14 – 15, 2017.
2. Conducted Area Census Office (ACO) Management Overview Training on May 9 – 11, 2017.

Program Management

1. Updated draft Office of Management and Budget (OMB) Paperwork Reduction Act Clearance Package for Peak Operations to incorporate feedback from decennial executive-level clearance.
2. Began developing responses to public comments received after 60-day comment period on the OMB Presubmission for peak operations (which closed on May 30, 2017) and incorporating them into the full package.

Internet Self-Response

Submitted final comments on capability requirements for 2018 End-to-End Census Test to Systems Engineering and Integration (SE&I) via the Decennial Architecture Requirements Team on May 19, 2017.

Census Questionnaire Assistance

Received schedule and cost proposal from contractor on May 12, 2017 to develop Census Questionnaire Assistance solution for the 2018 Census End-to-End Census Test.

Content and Forms Design

Completed initial internal stakeholder review of draft mail materials and field items on May 17, 2017.

Language Services

Completed Spanish translations of draft mail materials and field items on May 17, 2017.

Forms, Printing and Distribution

Delivered specifications (capability requirements) on May 11, 2017 to the Government Publishing Office for the 2018 End-to-End Census Test for printing, package assembly, and mailing of paper questionnaires, letters, and cards.

Non-ID Processing

Began initial draft of 2018 End-to-End Census Test Assessment Study Plan for the Non-ID Processing operation on May 26, 2017.

Nonresponse Followup

1. Delivered report specifications to Performance Management Branch on May 26, 2017.
2. Developed procedures for creating a Nonresponse Followup (NRFU) Supplemental Sample for the 2018 End-to-End Census Test using the spring Delivery Sequence File (DSF) from the United States Postal Service.

2018 End-to-End Census Test

Summary of Activities (Last 30 Days) Cont'd

Nonresponse Followup Cont'd

3. Developed a letter to accompany the questionnaire as part of a mailing for the NRFU Supplemental Sample.
4. Developed an initial plan with Field Division for closeout procedures to finish data collection while minimizing the number of households without data.
5. Drafted the 2018 End-to-End Census Test Nonresponse Followup Study Plan.

Update Leave

1. Updated the initial draft of the Unified Tracking System (UTS) report requirements based on comments and feedback from stakeholders on May 10, 2017. The UTS reports permit Census Bureau headquarters staff to track and monitor the cost and progress of field operations.
2. On May 16, 2017, the Census Bureau Executive Steering Committee approved the addition of the Update Leave operation. The field operation will update the addresses in the assignment area and leave a questionnaire package at each housing unit for the household to self-respond online, by traditional paper questionnaire, or by calling Census Questionnaire Assistance. The operation will be conducted in the majority of the areas previously designated for Update Enumerate (see below) and will be tested in the 2018 End-to-End Census Test sites.
3. Reviewed and updated the Listing and Mapping Application (LiMA) user stories to support the data collection process during the 2018 End-to-End Census Test on May 18, 2017.
4. Delivered the 2018 End-to-End Census Test Business Process Model and associated capability requirements on May 25, 2017.

Update Enumerate

1. Also, on May 16, 2017, the Census Bureau Executive Steering Committee approved a proposal to redesign the Update Enumerate operation. The field operation now will be conducted on paper, and the area where Update Enumerate will be performed has decreased significantly; it will only apply to the Type of Enumeration Area (TEA) 4, Remote Alaska, to very remote areas that were a part of the 2010 Remote Update Enumerate (RUE) operation, and to the few tribal areas that elect to be enumerated in-person. These areas are not within the 2018 End-to-End Census Test sites; therefore, the Update Enumerate operation will not be tested in 2018. The majority of what used to be the Update Enumerate area will now be in the Update Leave universe.
2. Submitted a change request on May 23, 2017 to update the Integrated Master Schedule with additional activities the Integrated Project Team will complete due to the decision to use Listing and Mapping (LiMA) as the address update solution in the 2018 End-to-End Census Test and the 2020 Census.

2018 End-to-End Census Test

Summary of Activities (Last 30 Days) Cont'd

Geographic Programs

1. Delivered Address Canvassing Master Address File Extract (MAFX) to the Production Environment for Administrative Records, Staging, Integration and Storage (PEARSIS) on May 5, 2017, the Decennial Statistical Studies Division (DSSD) on May 5, 2017, the Listing and Mapping Application (LiMA) on May 9, 2017, and the Control and Response Data System (CaRDS) on May 10, 2017,
2. Delivered Address Canvassing Geographic Reference File – Codes (GRF-C) to PEARSIS on May 5, 2017, DSSD on May 5, 2017, Decennial Applicant, Personnel, and Payroll System (DAPPS) on May 5, 2017, Field Division on May 5, 2017, LiMA on May 9, 2017, and CaRDS on May 10, 2017,
3. Delivered Address Canvassing Geographic Reference File – Names (GRF-N) to PEARSIS on May 5, 2017, DSSD on May 5, 2017, LiMA on May 9, 2017, and CaRDS on May 10, 2017,
4. Delivered Spatial data to LiMA on May 9, 2017 and the Sampling, Matching, Review, and Coding System (SMaRCS) on May 9, 2017.

Group Quarters

1. Submitted Group Quarters Advance Contact performance measurement report criteria for the 2018 End-to-End Census Test on May 2, 2017.
2. Began developing use cases for system development of Enterprise Censuses and Surveys Enabling-Operational Control System (eCaSE-OCS) to support Group Quarters field operation, which includes GQ Linking and GQ Shipping, on May 4, 2017.
3. Submitted final paper forms and reports needed to conduct the 2018 End-to-End Census Test for Group Quarters (GQ) operation to Content and Form Design Team on May 15, 2017 for inclusion in the OMB paperwork reduction act package.
4. Examined end-to-end Group Quarters use cases and sequence diagrams to system solution providers for the 2018 End-to-End Census Test and 2020 Census on May 15, 2017.
5. Finalized GQ eResponse Data Template for group quarters administrators to self-submit respondent data via a Census Bureau secure portal on May 31, 2017.

Systems Engineering and Integration

Conducted the Test Readiness Release 2 for Release A (In-Field Address Canvassing) systems on May 10, 2017 and Training Release 1 (Address Canvassing onboarding and training) Production Readiness Review on May 26, 2017.

IT Infrastructure

1. Decennial Service Center:
 - a. Presented business requirements to Decennial Contracts Execution Office/2020 Census Technical Integrator staff on May 31, 2017.
 - b. Provided IT helpdesk support to Regional Census Centers, Regional Office, and Area Census Office staff. This mostly entailed handling general information requests or providing Outlook Web Application or laptop support.
2. The Field Office IT Deployment team:
 - a. Preparation of Area Census Office IT equipment for shipping and installation is underway.

2018 End-to-End Census Test

Summary of Activities (Last 30 Days) Cont'd

IT Infrastructure Cont'd

- b. Configured approximately 33 percent of all IT equipment in the warehouse that is earmarked for any Area Census Office for the 2018 End-to-End Census Test.
3. The Technical Integrator (TI) coordinated with Applications Development and Services Division for the response data repository.

Address Canvassing

1. Participated in the Test Readiness Review for Release A on May 10, 2017.
2. Participated in the Operational Readiness Review kickoff for Release A on May 15, 2017.

Redistricting Data Program

Delivered performance measurement requirements to Decennial Census Management Division on May 23, 2017.

United States Postal Service Coordination Team

Conducted discussion sessions with the United States Postal Service in two different working group meetings on May 4, 2017 and May 30, 2017. Discussed detail and addressed questions about the technology of Informed Delivery, brainstormed possibilities of collaborating on using Informed Delivery, and discussed details around the mail strategy including timing of mailings.

Look Ahead (Next 60 Days)

Program Management

1. Submit OMB Paperwork Reduction Act Clearance Package for Peak Operations to Department of Commerce in early July 2017.
2. Complete drafting 2018 End-to-End Census Test Plan in early June.
3. Hold Operational Readiness Review (ORR) for Training Release 1: Address Canvassing.

Decennial Logistics Management

1. Space acceptance for Beckley, West Virginia, ACO is projected to occur by June 26, 2017, with projected opening by July 24, 2017.
2. Seattle ACO projected to open by July 24, 2017.
3. Assembly of Address Canvassing Training Kits for Census Field Supervisors and Listers will be complete by June 21, 2017, with delivery to the Providence, Rhode Island, ACO by June 30, 2017.

Nonresponse Followup

1. Develop requirements for Enterprise Censuses and Surveys-Operational Control System (ECaSE-OCS) Field and ECaSE-OCS Survey for Nonresponse Followup (NRFU) operations.
2. Finalize specifications for Field Verification.
3. Develop business rules for the Census Operational Control System for Reengineered Field Operations (MOJO) optimizer, which will be used for assignment of Nonresponse Followup addresses to enumerators.

2018 End-to-End Census Test

Look Ahead (Next 60 Days) Cont'd

Content and Forms Design

1. Develop English and non-English Frequently Asked Questions (FAQs) for Census Questionnaire Assistance.
2. Provide final English content for self-response instruments.

Internet Self-Response

1. Finalize self-response mail strategy content and operational deployment strategy.
2. Complete schedule updates for 2018 End-to-End Census Test Integrated Master Schedule.

Census Questionnaire Assistance

Officially begin planning and development of the Census Questionnaire Assistance system and operation to support the 2018 End-to-End Census Test.

Non-ID Processing

Complete initial draft of 2018 End-to-End Census Test Assessment Study Plan for Non-ID Processing.

Recruiting, Training, and Onboarding

1. Recruit field staff for the Address Canvassing operation in the 2018 End-to-End Census Test.
2. Learning Management System (LMS) will go live for the 2018 End-to-End Census Test Address Canvassing Training by July 31, 2017.
3. Onboard ACO Field Manager, ACO Administrative Manager, ACO IT Manager, Office Operations Supervisors, and Clerks.

Language Services

Prepare translations of the Internet Self-Response instrument, Census Questionnaire Assistance instrument, and Nonresponse Followup field enumeration instrument.

Update Leave

1. Identify deliverables to support the new Update Leave operation.
2. Update the Integrated Master Schedule with activities for the Update Leave operation.
3. Submit a change request to baseline the Update Leave operation's business process models and capability requirements.
4. Develop initial draft of 2018 End-to-End Census Test Assessment Study Plan for Update Leave.

Update Enumerate

Submit change request to descope the operation from the 2018 End-to-End Census Test Integrated Master Schedule.

Geographic Operations

Create and deliver Recruiting Geographic Reference File – Codes (GRF-C), and Applicant Geocoding Service, to the Decennial Applicant, Personnel, and Payroll System (DAPPS).

2018 End-to-End Census Test

Look Ahead (Next 60 Days) Cont'd

Group Quarters

1. Update Business Process Models and capability requirements.
2. Deliver the following study plans to the Decennial Research Objectives and Methods Group (DROM):
 - a. 2018 End-to-End Census Test Group Quarters Advance Contact Study Plan on June 27, 2017.
 - b. 2018 End-to-End Census Test Group Quarters Enumeration Study Plan on June 28, 2017.

Systems Engineering and Integration

1. Conduct Production Readiness Review (PRR) for Release A on July 26, 2017. This is a review to assess program-level test results to ensure systems are ready for operational testing. A PRR is held per release and typically occurs 2-3 weeks prior to the release's Operational Readiness Review. If key stakeholders agree that any outstanding defects will not negatively impact the goals/objectives of the field test and the Operational Readiness Testing environment is operational, then systems are ready for production and to support Operational Readiness Testing.
2. Conduct Recruiting Release 2 (Non-Response Follow-up, Update Enumerate, Group Quarters) Test Readiness Review and Production Readiness Review.

Address Canvassing

Finalize revisions to 2018 End-to-End Census Test Address Canvassing Study Plan.

IT Infrastructure

1. Decennial Service Center will finalize Detailed Operational Plan.
2. Finalize Request For Information by mid-June for contract that will be awarded to staff the Decennial Service Center service desk for the 2020 Census.
3. The Field Office IT Deployment team will prepare to troubleshoot and resolve any issues resulting from the Providence, Rhode Island, Area Census Office deployment. Team will plan to troubleshoot and resolve any issues resulting from the Beckley, West Virginia ACO deployment on July 10, 2017, and the Pierce Co., Wash., ACO deployment on July 13, 2017.

United States Postal Service Coordination Team

Finalize and request approval for test site locations for the pilot of United States Postal Service (USPS) Postal Carriers as Census Enumerators.

Response Processing

1. Distribute initial draft of Assessment Study Plan.
2. Deliver final detailed performance report requirements to the Performance Management Branch.
3. Receive draft specifications for the following activities: Primary Selection Algorithm (PSA), Preliminary Census Unedited File (pCUF), Edit and Characteristic Imputation (CEF), Microdata Detailed File (MDF), Disclosure Avoidance (DA), and Tabulation Recodes.

Address Canvassing Test

Description

See Appendix C.

Summary of Activities (Last 30 Days)

Delivered the Address Canvassing Test Analysis Report to the Decennial Research Objectives and Methods Group (DROM) on May 25, 2017. The release of this report is the only remaining activity for this test.

2016 Census Test

Description

See Appendix C.

Summary of Activities (Last 30 Days)

Nonresponse Followup

Incorporated feedback from the Decennial Research Objectives and Methods (DROM) working group into a new version of the 2016 Census Test Nonresponse Followup Operational Assessment Report.

Status of Current Activities

Once complete, the analysis reports will be issued, on a flow basis, through the 2020 Census Memorandum Series.

Reports under Development/Review

- 2016 Census Test Analysis – Non-ID Processing Report (Expected Completion on July 20, 2017) (Under review by Portfolio Management Governing Board)
 - Draft in Non-ID Integrated Project Team review through February 2017.
 - Presented to the Decennial Research Objectives and Methods (DROM) Group on March 16, 2017.
 - Revised draft for final review by June 7, 2017.
- 2016 Census Test Report – Overview (December 29, 2017) (In development)
- 2016 Census Test Coverage Reinterview Analysis Report (Expected completion on April 30, 2017 delayed until September 8, 2017 due to resource limitations.) (In development)
- 2016 Group Quarters Electronic Response Independent Test Analysis Report (Detailed report will not be produced due to resource constraints. A high-level summary document will be issued in the Decennial Statistical Studies Division Memorandum Series.)
- 2016 Census Test Optimizing Self-Response, Language Services, Race and Ethnicity, and Relationship Report (Expected completion on August 30, 2017) (In development)
- 2016 Census Test: Non-ID Response Validation Recollect Analysis Report (Expected Completion on July 13, 2017) (In decennial executive-level review)
- 2016 Census Test Administrative Record Usage Report (Expected completion on July 7, 2017.)
- 2016 Census Test: In-Office Address Canvassing Report (This report will not be produced due to resource issues. Release of any relevant results will be done via Decennial Statistical Studies Division's Memorandum Series.)
- 2016 Census Test Nonresponse Followup Operational Assessment Report (Expected completion TBD) (In development)
- 2016 Census Test – Evaluating the Decennial Census Call-in Option: Results from an Interviewer Debriefing on the 2016 Census Test Report (Expected completion on July 27, 2017) (Approved by Portfolio Management Governing Board; start of decennial)
- 2016 Service-Based Enumeration Census Test Analysis Report (Expected decennial completion on July 6, 2017) (In executive-level review.)

2015 Optimizing Self-Response Test

Description

See Appendix C.

Status of Current Activities

Reports Issued

- Analysis of Non-ID Processing Results for the 2015 Optimizing Self-Response Test and the 2015 Census Test (Completed on January 10, 2017)
- Non-ID Response Validation for 2015 Optimizing Self-Response Test (Completed on February 9, 2017)
- 2015 Census Test of Digital Advertising and Other Communications in the Savannah DMA (formerly known as, Analysis of the 2015 Census Test of Advertising and Partnerships) was issued in the 2020 Census Memorandum Series on May 18, 2017. (Expected completion of June 30, 2016 delayed due to resource priorities; Completed May 18, 2017)

2015 National Content Test

Description

See Appendix C.

Status of Current Activities

The final analysis report is being revised for governance review. Once cleared, the report will be issued through the 2020 Census Memorandum Series. Preliminary results on race and ethnicity research were rolled out to internal and external stakeholders in fall 2016.

Reports under Development/Review

- Coverage (Expected Completion April 30, 2017 delayed until July 31, 2017 due to resource limitations.) Sent to the Decennial Research Objectives and Methods (DROM) Group for review on May 1, 2017.

Reports Issued

- Evaluating the Decennial Census Call-In Option: Results from an interviewer debriefing of the 2015 National Content Test (formerly known as, 2015 National Content Test Telephone Questionnaire Assistance Centurion Instrument Interviewer Debriefing) (Completed October 5, 2016)
- The study plan for the race and ethnicity analysis was issued in the 2020 Census Memorandum Series on November 4, 2016.
- The 2015 National Content Test Optimizing Self-Response was issued in the 2020 Census Memorandum Series on November 22, 2016.
- Relationship Question Experiment Analysis Report completed February 10, 2017
- Race and Ethnicity Analysis Report was issued in the 2020 Census Memorandum Series on February 28, 2017. An extended Tip Sheet was provided to the media publicizing this release.
- Analysis of Non-ID Processing Results (Completed on March 17, 2017)

Status of Major 2020 Census Operations

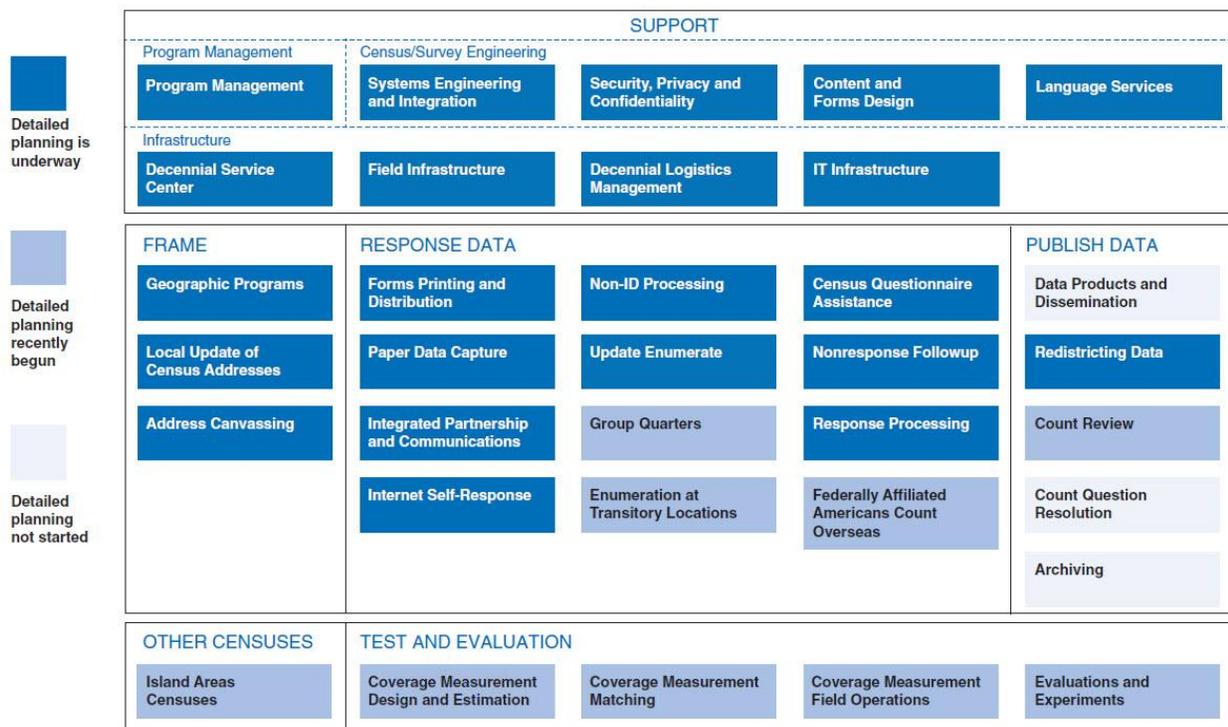
The 2020 Census includes 35 operations that are organized into eight major areas that correspond with the Census Bureau standard Work Breakdown Structure (WBS). The term operation refers to both support and business functions.

The status of these operations is reported on the following pages, which are organized by major area. Please note, only operations that are underway are discussed on the following pages.

Appendix A describes all 35 operations as defined in the 2020 Census Operational Plan 2.0 issued on October 28, 2016.

Completed or planned activities specifically supporting past or current Tests are reported on the relevant Test page (pages 7 – 20). Otherwise, they are reported on the relevant 2020 Census Operations page (pages 22 – 32).

Figure 1: Operational Overview by WBS



Note: Changes to this diagram to reflect a new operation will appear in the June Monthly Status Report.

Census/Survey Engineering

Description

Four operations support the Census/Survey Engineering area of the 2020 Census: Systems Engineering and Integration (SE&I); Security, Privacy, and Confidentiality; Content and Forms Design; and Language Services. For the description of these operations, please see Appendix A.

Table 1: SE&I Review Descriptions

| Review | Description |
|--|---|
| Critical Business Proposal Review (CBR) | Review of initial high-level architecture to ensure inclusion of appropriate systems to implement the desired subset of the 34 operations. |
| Project Baseline Review (PBR) | Review of program baselines. Schedule, organizational structure, Risk, etc. |
| Systems Requirements Review (SRR) | Joint review of PLBR/CAP requirements by engineering and operations. |
| Critical Design Review (CDR) | Review of high-level architecture and detailed business processes that define the subset of operations, interfaces, etc. Includes allocation of requirements to systems and the defined releases. |
| Test Readiness Review (TRR) | Ensures appropriate test objectives, methods procedures, scope and environments. Assesses readiness of systems to begin independent Program-Level testing. Marks the beginning of testing by the Program Test Team. |
| Production Readiness Review (PRR) | Assessment of test results to ensure systems are ready for operations testing. |
| Operational Readiness Review (ORR) | Assessment of operational testing to ensure full operation is ready to go-live. |

Table 2: SE&I Release Functionality Key

| Release | Functionality |
|--|---|
| Release A | In-Field Address Canvassing |
| Release B | Coverage Measurement – Independent Listing |
| Release C | Self-Response |
| Release D | Field Enumeration |
| Release E | Tabulation/Dissemination |
| Release F | RESERVED |
| Release G | Geographic Programs / Local Update of Census Addresses (LUCA) |
| Release H | RESERVED |
| Release I | In-Office Address Canvassing |
| Release J | RESERVED |
| Release K | Coverage Measurement – Initial Housing Unit Followup, Person Interview |
| Release L | Coverage Measurement – Person Interview Matching |
| Release M | Coverage Measurement – Person Followup |
| Release N | Coverage Measurement – Final Housing Unit Followup |
| Release O | Coverage Measurement – Reports & Release Findings |
| Release P | Partnership Activities |
| Recruiting Release 1 | Address Canvassing, Coverage Measurement – Independent Listing, and Initial Housing Unit Followup Recruiting |
| Recruiting Release 2 | Field Enumeration, Coverage Measurement – Person Interview, Person Followup, and Final Housing Unit Followup Recruiting |
| Training Release 1 | Address Canvassing Training |
| Training Release 2 | Field Enumeration Training |
| Coverage Measurement Sample Release | Initial Sample for Coverage Measurement |

Census/Survey Engineering

Summary of Activities (Last 30 Days)

Conducted the 2020 Systems Requirement Review (SRR) and began the Critical Design Review (CDR).

Content and Forms Design

Continued gathering 2020 Census materials requirements by operation.

Security, Privacy, and Confidentiality

1. Reviewed and provided comments on the draft Local Update of Census Addresses (LUCA) Site Inspection Plan.
2. Obtained approval of the Security, Privacy, and Confidentiality Charter for the 2020 Census.
3. Obtained approval of the Security, Privacy and Confidentiality Detailed Operational Plan for the 2020 Census.

Look Ahead (Next 60 Days)

Systems Engineering and Integration

Complete the Critical Design Review (CDR).

Frame

Description

Three operations support the frame area of the 2020 Census: Geographic Programs, Local Update of Census Addresses (LUCA), and Address Canvassing. For the description of these operations, please see Appendix A.

Summary of Activities (Last 30 Days)

Geographic Programs

1. Continued Participant Statistical Area Program (PSAP) internal review processing at the National Processing Center.
2. Completed 2017 Batch National Type of Enumeration Area (TEA) Delineation on May 3, 2017.
3. Started 2017 Interactive TEA Delineation on May 8, 2017.
4. Baselined 2020 Tabulation Block, Collection Geography, Participant Statistical Areas Program (PSAP), and Geographic Support Desk (GPSD) schedules.

Local Update of Census Addresses

The LUCA Integrated Project Team's (IPT) LUCA Promotional Outreach events occurred in May 2017. LUCA staff at the National Processing Center continued to receive Contact Information Update Forms from reminders mailed to partners, and the staff will be updating the Geographic Program Participant (GPP) database and LUCA Production Control System (PCS) with that information. Completed preparation of LUCA Invitation/Registration materials (forms, letters, booklets, etc.) for shipping to governments starting in July 2017.

Address Canvassing

The 2020 Census In-Office Address Canvassing Interactive Review production continues, and is meeting the expected production goals. The clerks have completed 10,956,110 blocks during Interactive Review from the beginning of production in September 2015 through May 31, 2017. They have completed 98.2 percent of the 11,155,486 total blocks nationally. This percentage is on schedule. One hundred eight staff are working Interactive Review (IR) in production, and 12 are performing Quality Control (QC). This process classifies the blocks into three categories:

- Passive = blocks that do not show signs of change and need no further review at this time.
- Active = blocks that show signs of change and need to move to the next phase of In-Office Address Canvassing for further review.
- On Hold = blocks that need new imagery to do the Interactive Review.

As of May 31, 2017, 71.2 percent of the blocks were classified as Passive, 16.9 percent were classified as Active, and 1.9 percent were classified as On-Hold. On March 14, 1,095,893 **hold blocks** were triggered for IR re-review. Triggered blocks which are still being worked through IR will be included in the "Total Blocks Reviewed" number above, but not be included in any of the Totals (Active, Passive, Hold) until they are re-reviewed. The triggered blocks accounted for 10.0 percent of the total completed. Blocks may remain in "On Hold" status for review at a later date due to "future growth" (for instance, there are signs that construction will be taking place but the houses are not built) or "imagery issues" (for instance, cloud cover obscures views of the structures).

Frame

Summary of Activities (Last 30 Days) Cont'd

United States Postal Service Coordination Team

Working groups provided input and reviewed a preliminary draft of a Census Bureau-United States Postal Service Memorandum of Understanding, which is expected to be final by September 30, 2017. These interagency working groups included: Human Resources/Field, Optimizing Self-Response, Address Spatial/Administrative Records, Partnerships, and Modeling. The Memorandum of Understanding (MOU) describes the enterprise-wide business activities between the Census Bureau and the United States Postal Service and reflects the strategies to create a sustainable partnership over long- and short-term time frames. It is expected that task-based activities, still being defined, will rest in individual interagency agreements that build off of the MOU.

Look Ahead (Next 60 Days)

Geographic Programs

1. Develop the Federal Register Notice for the 2020 Census Participant Statistical Area Program.
2. Complete the 2017 Interactive National TEA Delineation by June 30, 2017.

Local Update of Census Addresses

1. Conduct LUCA Promotional Workshops. These workshops are being given by Census Bureau staff to potential LUCA participants, including representatives from tribal, state, and local governments.
2. Continue to define and finalize LUCA address list products requirements.
3. Continue to edit and update LUCA invitation/registration letters, forms, and guides in advance of the July 2017 Invitation/Registration mailing.
4. Create and deliver LUCA Invitation/Registration mailing list to the National Processing Center on June 30, 2017.

United States Postal Service Coordination Team

1. Release study plan, updated schedule and finalized site locations for the "Postal Carriers as Census Enumerators" pilot project.
2. Release first draft of an enterprise Memorandum of Understanding that documents the major components of the Census Bureau-United States Postal Service Partnership.
3. Finalize an Interface Control Document that defines requirements for an automated process to track the status of census questionnaires mailed with Intelligent Mail Barcode technology.

Response Data

Description

Thirteen operations support the response data area of the 2020 Census: Forms Printing and Distribution, Paper Data Capture, Integrated Partnership and Communications, Internet Self-Response, Non-ID Processing, Update Enumerate, Update Leave, Group Quarters, Enumeration at Transitory Locations, Census Questionnaire Assistance, Nonresponse Followup, Response Processing, and Federally Affiliated Americans Count Overseas. For the description of these operations, please see Appendix A.

Summary of Activities (Last 30 Days)

Paper Data Capture

Supported the issuance of the Authorization To Proceed (ATP) on Technical Directive (TD) 013 on May 1, 2017 and began integrating the Technical Integrator (TI) Team into Paper Data Capture operational activities.

Integrated Partnership and Communications (IPC) Program

Executive Program Management Review (PMR) for the Integrated Partnership and Communications Program occurred on May 4, 2017.

Nonresponse Followup

Developed procedures and timeframes with key stakeholders for the 2020 Census NRFU (Nonresponse Followup) Supplemental Sample, which will include New Construction, Count Review, LUCA (Local Update of Census Addresses) appeals, and the Spring Delivery Sequence File. The sources mentioned can add cases (in the form of new addresses not in the Master Address File) to the Nonresponse Followup workload. In the New Construction program, local governments identify housing units that were recently completed. In the Count Review program, State Data Centers identify housing units that are missing from the census address frame. During the LUCA appeals process, local governments identify housing units omitted from the census universe. The DSF is a file received biannually from the U.S. Postal Service that lists new addresses added and changes to existing addresses.

Update Leave (UL)

Began developing the Business Process Models and the outline for the 2020 Census Update Leave Detailed Operational Plan.

Update Enumerate (UE)

1. Updated the Business Process Models and capability requirements.
2. Updated the Business Process Models for Remote Alaska.

Group Quarters (GQ)

1. Provided detailed level GQ paper data capture requirements, GQ linking, and GQ shipping process flows and forms. The Paper Data Capture Team listed potential scenarios and areas where human intervention and reconciliation are needed.
2. Received and confirmed with systems solution providers end-to-end Group Quarters user cases and sequence diagrams for systems for the 2018 End-to-End Census Test and 2020 Census.

Response Data

Summary of Activities (Last 30 Days) Cont'd

Enumeration at Transitory Locations (ETL)

Presented the 2020 Census Business Process Model and capability requirements at Systems Readiness Review (SRR) on May 1, 2017.

Federally Affiliated Americans Count Overseas (FAACO)

1. Presented the 2020 Census Business Process Model and capability requirements at Systems Readiness Review (SRR) on May 1, 2017.
2. Updated the 2020 Census Business Process Model and capability requirements for Federally Affiliated Americans Count Overseas (FAACO) on May 4, 2017.

Look Ahead (Next 60 Days)

Integrated Partnership and Communications

1. Receive decennial executive-level approval of the 2020 Census Partnership Engagement Plan.
2. The Integrated Communications Contractor (Team Y&R) will deliver version 1.0 of the National Communications Plan on June 2, 2017 to the Program Management Office. Version 1.0 is the approach version of the plan and one of three baseline versions. It will be used to build version 2.0 in 2018 and version 3.0 in 2019.

Paper Data Capture

Finalize and give Authorization to Proceed for Technical Directive (TD) 013 for Paper Data Capture support to the Contractor by the Contracting Officer (CO) once the CO receives approval from the Paper Data Capture Team.

Internet Self-Response

1. Complete all requirements review for 2018 End-to-End Census Test and 2020 Census.
2. Complete Internet Self-Response Detailed Operational Plan.

Update Leave

1. Begin development of the 2020 Census Integrated Master Schedule for Update Leave.
2. Begin documenting risks for the operation.

Update Enumerate

1. Update Business Process Models and capability requirements for the redesign, approved on May 16, 2017.
2. Begin development of the 2020 Census Integrated Master Schedule.

Group Quarters

1. Complete the initial draft of 2016 Census Test eResponse Data Independent Test data analysis report.
2. Develop system development schedule for Production Control System (supporting Group Quarters Advance Contact) Enterprise Censuses and Surveys Enabling-Operational Control System (eCaSE-OSC) (supporting Group Quarters Enumeration).

Response Data

Look Ahead (Next 60 Days) Cont'd

Nonresponse Followup

1. Baseline the 2020 Census Nonresponse Followup (NRFU) Detailed Operational Plan.
2. Develop mitigation plans for 2020 Census NRFU project level risks in advance of mid-June meeting with the 2020 Census Risk Review Board. Risks with the highest exposure level from the 2018 Risk Register will be presented. Expect to receive feedback in the form of recommended changes to existing risks on the register and/or new risks that should be added.
3. Develop plans and procedures for User Acceptance Tests of the Enterprise Censuses and Surveys Enabling (ECaSE) systems.

Response Processing

Complete the Response Processing Detailed Operational Plan.

Publish Data

Description

Five operations support the publish data area of the 2020 Census: Data Products and Dissemination, Redistricting Data Program, Count Review, Count Question Resolution, and Archiving. For a description of these operations, please see Appendix A. Most of these operations are not yet active.

Summary of Activities (Last 30 Days)

The Redistricting Data Program (RDP) presented final Business Process Models, Business Requirements and Capability Requirements at the System Readiness Review meeting on May 1, 2017.

The RDP continued processing the 560 counties that submitted changes as of May 22, 2017. This refers to counties for which we received Block Boundary Suggestion Project verification updates where the states indicated they would like modifications performed to the Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) system. To date, the RDP sent 346 of these counties to Geography Division for insertion into the MAF/TIGER system. In addition, the RDP has confirmed 1,189 counties as having no changes needed.

Archiving

Submitted early draft of the 2020 Census Records Schedule to the National Archives and Records Administration for unofficial review on May 11, 2017.

Look Ahead (Next 60 Days)

Redistricting Data Program

Support the verification phase of the Block Boundary Suggestion Project.

Test and Evaluation

Description

Four operations support the Test and Evaluation area of the 2020 Census: Coverage Measurement Design and Estimation, Coverage Measurement Matching, Coverage Measurement Field Operations, and Evaluations and Experiments. For the description of these operations, please see Appendix A.

Summary of Activities (Last 30 Days)

The Coverage Measurement Design and Estimation Integrated Project Team:

1. Continued updating the Post Enumeration Survey (PES) Design and Estimation Business Process Model.
2. Resumed updating the 2020 Census Integrated Master Schedule.
3. Revised initial drafts of the Noninterview Adjustment and E-Sample Imputation study plans.

The Coverage Measurement Field Ops and Matching Integrated Project Team:

1. Investigated the feasibility and costs of Executive Steering Committee recommendations about alternative approaches for conducting Post Enumeration Survey activities. Issued a Request for Information concerning options for outsourcing the matching, field, and control system solutions, as well as the matching and field interviewing operations.
2. Presented the Critical Design Review (CDR) at the Census Bureau Executive Steering Committee (ESC) meeting.
3. Presented the System Readiness Review presentation to Decennial Census Programs Directorate management and stakeholders.
4. Resumed updating the 2020 Census Integrated Master Schedule.

Look Ahead (Next 60 Days)

The Coverage Measurement Design and Estimation Integrated Project Team will work on the following activities:

1. Build an Integrated Master Schedule for the 2020 PES Design and Estimation.
2. Update the 2020 PES Design and Estimation Business Process Models.
3. Update the 2020 PES Design and Estimation capability requirements.
4. Write high-level design requirements.
5. Write operational study plans.

Test and Evaluation

Look Ahead (Next 60 Days) Cont'd

Coverage Measurement Field Ops and Matching Integrated Project Team

The team will work on the following activities:

1. Build an Integrated Master Schedule for the 2020 PES Field and Matching operations, including additional activities for paper-based data collection for field follow-up activities, and determine any effects of the redesign on the 2020 PES milestones.
2. Update 2020 PES Field Ops and Matching Business Process Models and capability requirements. Some of our operations are now paper-based and the Business Process Models need to be updated to reflect the change in some of our data collection modes. (The original plan was to have all field operations collect data electronically.)
3. Work with the Coverage Measurement Design and Estimation Integrated Project Team to document high-level design requirements.
4. Propose operational study plans. The plans will be written and proposed to the Coverage Measurement Field Ops and Matching Integrated Project Team for the first round of approval.
5. Propose 2020 PES field operations, matching specifications, and user stories.
6. The feasibility study was presented by the Coverage Measurement Field Ops and Matching (CMFM) team to the Executive Steering Committee, which then provided feedback and action items that the CMFM team will be working on.

Evaluations and Experiments team will:

1. Finalize content requirements and instructions for submitting proposed 2020 Census evaluations and experiments to the Decennial Research Objectives and Methods working group.
2. Finalize and implement the plan for soliciting 2020 Census evaluation and experiment proposals.
3. Baseline the 2020 Census Demographic Analysis project charter.

Infrastructure

Description

Four operations support the infrastructure area of the 2020 Census: Decennial Service Center; Recruiting, Training and Onboarding; Decennial Logistics Management; and Information Technology (IT) Infrastructure. For the description of these operations, please see Appendix A.

Summary of Activities (Last 30 Days)

IT Infrastructure

The Cloud Team supported performance testing of 2020 Census Internet Self-Response in the Census Bureau Enterprise Cloud, worked with business owner to spin-down (turn-off) unused assets no longer required (to save costs), and launched a compute cluster that meets Census Bureau Title 13 requirements to encrypt data at rest and data in motion.

Recruiting, Training, and Onboarding

Released draft Third Party Vendor (3PV) Fingerprinting Performance Work Statement (PWS) to Systems Engineering and Integration (SE&I) vendors.

Decennial Logistics Management

Conducted General Services Administration (GSA)-Census Joint Lease Acquisition Training in Atlanta, Georgia, from May 15 – 18, 2017. The training was conducted with Census Regional and Headquarters staff and the GSA and supports leasing process for all Area Census Offices.

Look Ahead (Next 60 Days)

IT Infrastructure

1. Cloud: Design and integrate long-term Amazon Web Service monitoring solution and buildout infrastructure for Internet Self-Response performance test. The Cloud Team will continue support of additional testing (e.g. Internet Self-Response, et al.) in the Census Enterprise Cloud, continue support of the Disclosure Avoidance System (DAS) cluster and other compute requirements (integration of specialized algorithms and software required), assist with any transition to the 2020/Technical Integrator (TI) cloud, get Internal Revenue Service certification for Title 26 in the Cloud, and continue technical information exchanges with Census/TI cloud teams.
2. Data Center/Data Capture Center: Build development environment at Technical Integrator (TI) facility.
3. Systems Integration and Migration: Complete the 2020 Census Program Migration Plan and Decennial IT Roadmap updates.

Additional Updates

Oversight & Stakeholder Engagement

Description

This section describes major activities related to Government Accountability Office (GAO) and Office of the Inspector General (OIG) audits (e.g., new audits, exit meetings for completed audits, issuance of draft and final reports, preparation of agency action plans); congressional hearings related to the 2020 Census; and presentations and working meetings with our advisory committees, the 2020 Census National Academy of Sciences Standing Committee on Reengineering Census Operations, and other external stakeholders.

Summary of Activities (Last 30 Days)

Oversight

1. Director John Thompson testified before the House Committee on Appropriations, Subcommittee on Commerce, Justice, Science and Related Agencies on oversight of the 2020 Census on May 3, 2017.
2. Provided Action Plan in response to OIG Final Report on 2016 Census Test on May 9, 2017.
3. Received OIG Final Report on the 2016 Address Canvassing Test on May 11, 2017.
4. Exit Conference for GAO audit on 2020 Address Canvassing was held on May 15, 2017.
5. Exit Conference for OIG Review of Census Interactive Address Canvassing Operation was held on May 16, 2017.
6. Provided Action Plan for OIG Final Report on Management of Administrative Records and Third-Party Data on May 25, 2017.
7. Working actively to close open recommendations from GAO and OIG. Since 2007, GAO has provided 77 recommendations about the 2020 Census (Currently: 38 Open/39 Closed). Since 2011, OIG has provided 55 recommendations about the 2020 Census (Currently: 21 Open/34 Closed). For open recommendations, once we complete a documented action plan, we are collecting artifacts that will be provided to auditors as evidence a recommendation can be closed.

Stakeholder Engagement

1. Provided an overview of the 2020 translation work at an Interagency Language Roundtable meeting on May 12, 2017.
2. Presented to the Alabama State Data Center in Montgomery, Alabama, on May 18, 2017.
3. Participated in the American Association for Public Opinion Research (AAPOR) annual conference on May 18 – 21, 2017.
4. Provided an overview of the 2020 Census at the National Neighborhood Indicators Partnership Meeting on May 19, 2017.

Look Ahead (Next 60 Days)

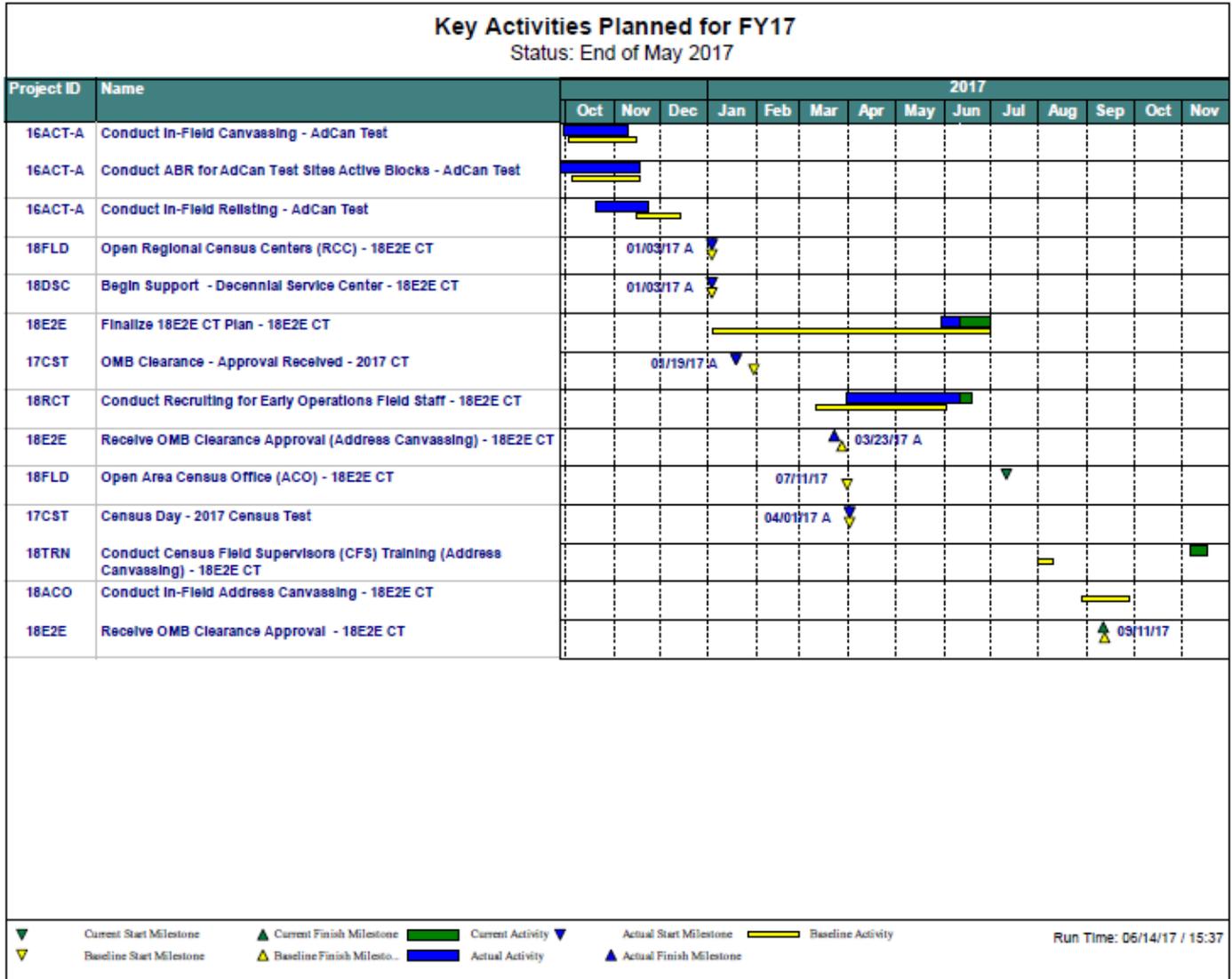
Oversight

Complete Action Plan in response to OIG Final Report on 2016 Address Canvassing Test by July 10, 2017.

Stakeholder Engagement

1. Participate in the NOBEL Women Conference on July 1, 2017.
2. Conduct the 2020 Census Program Management Review on July 11, 2017.
3. Participate in the 2017 ISI World Statistics Congress July 16 – 21, 2017.

Program Schedule Metrics Research & Testing



Explanations for Project Start/Finish Delays

Activity 18RCT-10830: "Conduct Recruiting for Early Operations Field Staff - 18E2E CT"

Reason for Delay: New end date is 6/19/17 for specific areas that had low numbers. Otherwise, this is complete.

Activity 18FLD-10160: "Open Area Census Office (ACO) – 18E2E CT"

Reason for Delay: Providence ACO opened on 5/26/17.

Activity 18TRN-32680: "Conduct Census Field Supervisors (CFS) Training (Address Canvassing) – 18E2E CT"

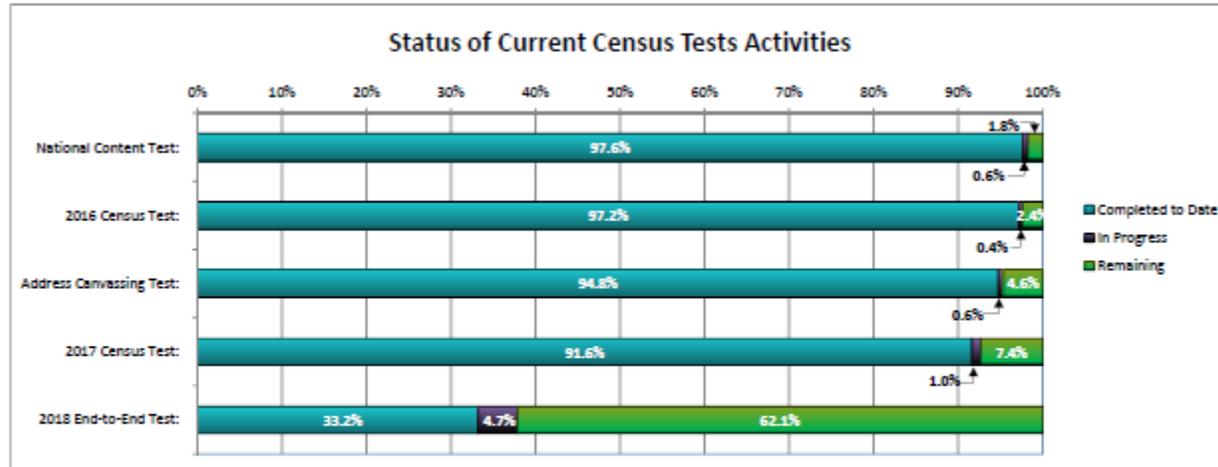
Reason for Delay: This activity is expected to be on time.

Activity 18ACO-11000: "Conduct In-Field Address Canvassing –18E2ECT"

Reason for Delay: This activity is expected to be on time. 18TRN-32360 Develop Storyboards for LMS QC Instrument Online Modules is driving this task.

Program Schedule Metrics Research & Testing

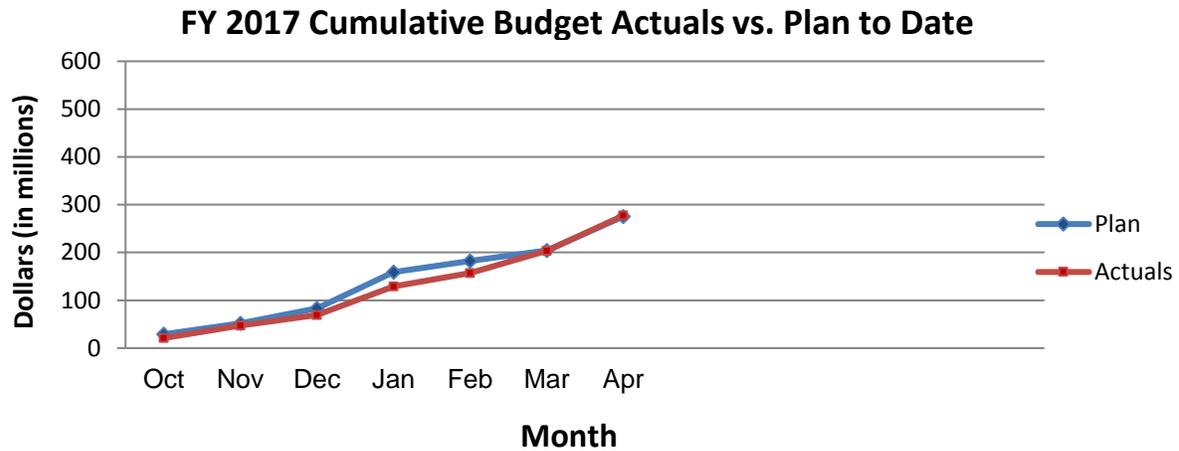
Status of Census Tests through May 31, 2017



| | Total Activities | Completed to Date | In Progress | Remaining |
|-----------------------------|------------------|-------------------|-------------|-----------|
| 2015 National Content Test: | 1181 | 1153 | 7 | 21 |
| 2016 Census Test: | 1888 | 1835 | 8 | 45 |
| Address Canvassing Test: | 628 | 595 | 4 | 29 |
| 2017 Census Test: | 1648 | 1510 | 17 | 121 |
| 2018 End-to-End Test: | 6445 | 2142 | 300 | 4003 |

Processed on: 6-14-2017

Program Budget/Costs as of April 30, 2017



Note: The total program plan is only for 7 months. A Continuing Resolution (CR) was in effect through May 5, 2017.

| | April Cum Plan | April Cum Actuals | April Cum Variance | % Variance |
|--------------------|----------------------|----------------------|----------------------|--------------|
| GRAND TOTAL | \$275,355,712 | \$277,237,655 | (\$1,881,943) | -0.7% |

At the end of April, the **\$1.9M** variance in the 2020 Census program consists of \$1.6M lower than expected costs in salaries and **\$3.5M** higher than expected costs in other objects. The salary variance is due to the following: 1) delays in filling vacancies due to the hiring freeze and CR, 2) inaccurate operating plan spreads due to changes in the scope of work, 3) delayed hiring because of changes resulting from the cancellation of the 2017 CCM activities, and 4) charges for the Worker's Compensation were not obligated as planned. The other objects variance is due to the early commitment of contracts. Additionally, we authorized funding of unplanned/critical contracts not included in our original budget. There is no impact to the program as there is sufficient funding in the program to cover the shortfall.

Program Budget/Costs as of April 30, 2017

| | | | | |
|------------------------------|--------------|--------------|-------------|-------|
| R1 Program Management | \$41,025,723 | \$31,887,657 | \$9,138,066 | 22.3% |
|------------------------------|--------------|--------------|-------------|-------|

The variance in this area consists of **\$2.6M** higher than expected costs in salaries and \$11.7M lower than expected costs in other objects. While we continue to operate under a CR, the Decennial Program is exercising fiscal constraint and as a result, not all funding requests could be facilitated at the current CR funding levels. Operating plan decisions and changes were made during the month of February to account for the CR anomaly levels and these changes resulted in a deficit in this investment area. The other objects variance is contingency funds in the Program Management Project that will be used for critical unfunded requirements. These funds will be obligated by the end of the fiscal year.

| | | | | |
|-------------------------------------|--------------|--------------|-------------------------|---------------|
| R2 Census/Survey Engineering | \$40,792,986 | \$65,610,819 | (\$24,817,833) | -60.8% |
|-------------------------------------|--------------|--------------|-------------------------|---------------|

The variance in this area consists of **\$0.6M** higher than expected costs in salaries and **\$24.2M** higher than expected costs in other objects. While we continue to operate under a CR, the Decennial Program is exercising fiscal constraint and as a result, not all funding requests could be facilitated at the current CR funding levels. Operating plan decisions and changes were made during the month of February to account for the CR anomaly levels and these changes resulted in a deficit in this investment area. The salary variance is due to Content and Forms Design and Language work requiring more time than initially planned. The other objects variance is due to early commitment of the Technical Integration contract which supports the 2020 Census Program in ensuring the architectural integrity and interoperability of the 2020 Census System of Systems (SOS). There is no impact to the program as there is sufficient funding in later months in this investment area to cover this shortfall.

Program Budget/Costs as of April 30, 2017

| | | | | |
|-----------------|--------------|--------------|-------------|-------|
| R3 Frame | \$32,227,819 | \$28,319,301 | \$3,908,518 | 12.1% |
|-----------------|--------------|--------------|-------------|-------|

The variance in this area consists of \$1.6M lower than expected costs in salaries and \$2.3M lower than expected costs in other objects. Due to change in the scope of work in the Address Canvassing project, the NPC funds were spread across five months instead of 12 months. The Local Update of Census Addresses (LUCA) work started later in the fiscal year than expected. The majority of the other objects variance is due to the delays in obligating the following: 1) a contract supporting the MAF/TIGER database, 2) changes in the scope of work delayed printing and postage for the Local Update of Census Addresses (LUCA) operations. There is no impact to the program as we expect these obligations to occur in the third quarter.

| | | | | |
|-------------------------|--------------|--------------|---------------|--------|
| R4 Response Data | \$51,044,255 | \$57,719,980 | (\$6,675,725) | -13.1% |
|-------------------------|--------------|--------------|---------------|--------|

The variance in this area consists of \$3.1M higher than expected costs in salaries and \$3.6M higher than expected costs in other objects. While we continue to operate under a CR, the Decennial Program is exercising fiscal constraint and as a result, not all funding requests could be facilitated at the current CR funding levels. Operating plan decisions and changes were made during the month of February to account for the CR anomaly levels and these changes resulted in a deficit in this investment area. The other objects variance is due to the authorized spending of the Unified Tracking System (UTS) contract. There is no impact to the program as there is sufficient funding in the program to cover this shortfall. The full enacted budget has not been reflected in the Financial Management Reports, resulting in these salary variances.

| | | | | |
|--------------------------|--------------|--------------|-----------|------|
| R5 Published Data | \$10,782,345 | \$10,450,831 | \$331,514 | 3.1% |
|--------------------------|--------------|--------------|-----------|------|

The variance is within threshold.

Program Budget/Costs as of April 30, 2017

| | | | | |
|-------------------------------|--------------|--------------|-------------|-------|
| R6 Test and Evaluation | \$25,360,985 | \$18,490,363 | \$6,870,622 | 27.1% |
|-------------------------------|--------------|--------------|-------------|-------|

The variance in this area consists of \$3.4M lower than expected costs in salaries and \$3.5M lower than expected costs in other objects. The salary variance is due to the following: 1) delays in filling vacancies due to the hiring freeze and CR, 2) delayed hiring because of changes resulting from the cancellation of the 2017 CCM activities, and 3) due to the change in the scope of work in the Test Planning, Project Management and Support project, NPC and the Telephone Center funds were spread incorrectly. The other objects variance is due to delays in obligating the following: 1) the Coverage Measurement Data Collection QC (SMaRCS) contract in support of the 2018 Test, and 2) due to the re-scoping of the 2018 End-to-End test, there were delays in procuring the office space, rent, equipment, postage and supplies for the End-to-End sites. There has also been minimal spending in travel, training, and supplies due to the CR. There is no impact to the program as these obligations will occur in the third quarter.

| | | | | |
|--------------------------|--------------|--------------|-------------|-------|
| R7 Infrastructure | \$74,121,599 | \$64,758,704 | \$9,362,895 | 12.6% |
|--------------------------|--------------|--------------|-------------|-------|

The variance in this area consists of \$3.3M lower than expected costs in salaries and \$6.1M lower than expected costs in other objects. The salary variance is due to delays in filling vacancies, and the charges for the Worker's Compensation were not obligated as planned. The majority of the other objects variance is due to delays in obligating the following: 1) IT Infrastructure support contract, 2) a contract to provide subject matter experts and technical guidance to establish and implement a revised Census Schedule A Human Resources and Recruiting Payroll System (CSHaRPS), and 3) Rent/buildout for the Puerto Rico ACO expansion has not occurred due to changes in program requirements. There has also been minimal spending in travel, training, and supplies due to the CR. There is no impact to the program.

Notes:

1) Explanations are required for frameworks with variances that are equal to or greater than +/- 10% OR greater than +/- \$500k.

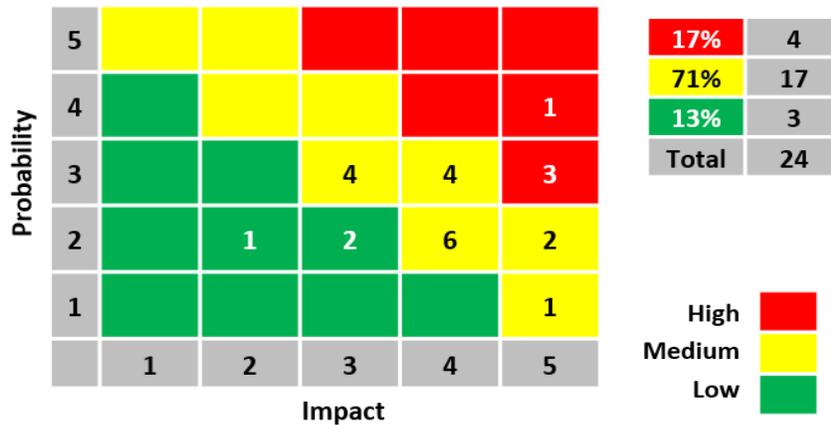
2) We report budget variance data as currently as possible. When the Monthly Status Report is prepared, we have not yet received budget variance data from the current month, so data from the previous month is what we include.

Program-Level Life Cycle Risks

| | Risk ID | Name | Level | Prior Level | Trend | Prob | Imp |
|----|---------|--|-------|-------------|-------|------|-----|
| 1 | LC-040 | Funding Requests Not Realized | H | H | ↔ | 4 | 5 |
| 2 | LC-033 | Administrative Records and Third-Party Data - External Factors | H | H | ↔ | 3 | 5 |
| 3 | LC-039 | Public Perception of Ability to Safeguard Response Data | H | H | ↔ | 3 | 5 |
| 4 | LC-041 | Cyber Security Incidents | H | H | ↔ | 3 | 5 |
| 5 | LC-010 | Enterprise IT Solutions | M | M | ↔ | 3 | 4 |
| 6 | LC-036 | Operations and Systems Integration | M | M | ↔ | 3 | 4 |
| 7 | LC-038 | Testing of Field Operations Quality Control Procedures | M | M | ↔ | 3 | 4 |
| 8 | LC-042 | Late Operational Design Changes | M | M | ↔ | 3 | 4 |
| 9 | LC-011 | Acquisition Lead Time | M | M | ↔ | 3 | 3 |
| 10 | LC-043 | Cloud Implementation | M | M | ↔ | 3 | 3 |
| 11 | LC-044 | Systems Scalability | M | M | ↔ | 3 | 3 |
| 12 | LC-045 | Major Disasters | M | M | ↔ | 3 | 3 |
| 13 | LC-028 | Internet Data Collection | M | M | ↔ | 2 | 5 |
| 14 | LC-034 | Administrative Records and Third-Party Data - Access and Constraints | M | M | ↔ | 2 | 5 |
| 15 | LC-001 | Cost Model Projections | M | M | ↔ | 2 | 4 |
| 16 | LC-012 | External Support | M | M | ↔ | 2 | 4 |
| 17 | LC-021 | Schedule Impacts | M | M | ↔ | 2 | 4 |
| 18 | LC-022 | Technological Innovations Surfacing After Design Is Finalized | M | M | ↔ | 2 | 4 |
| 19 | LC-027 | IT Security Controls | M | M | ↔ | 2 | 4 |
| 20 | LC-029 | Contract Management | M | M | ↔ | 2 | 4 |
| 21 | LC-004 | ACS Funding and Integration | M | M | ↔ | 1 | 5 |
| 22 | LC-016 | Policy Impacts | L | L | ↔ | 2 | 3 |
| 23 | LC-023 | Inconclusive Data | L | L | ↔ | 2 | 3 |
| 24 | LC-018 | Trade Agreement Act Compliance | L | L | ↔ | 2 | 2 |

Risk Trend
↑
Improving
↔
No Change
↓
Worsening

Program-Level Life Cycle Risks



The following changes were made in May:

1. No rating changes occurred to the 2020 Census risks, nor were any risks opened or closed.
2. The program issue titled Additional Workload for the Address Canvassing operation (created from LC-032_Reengineering Address Canvassing Operation) remained open.
Description: For the 2010 Census, a near-100 percent Address Canvassing operation in the field was used to update and validate a complete and accurate inventory of addresses, which forms the basis for the census enumeration. For the 2020 Census, a variety of “in-office” techniques are used to update and validate the completeness of the address inventory. These “in-office” techniques were expected to reduce the areas requiring field work while achieving an equal or greater quality result, thereby reducing costs and improving quality for the overall 2020 Census. The established threshold of addresses for update and validation through “in-office” techniques is 75 percent, with a plan to send about 25 percent of addresses for field canvassing, as cited in the 2020 Census Operational Plan and the Detailed Operational Plan for Address Canvassing. Due to the current funding situation, two major components of the reengineered Address Canvassing operation, known as Active Block Resolution (ABR) and the Master Address File Coverage Study (MAFCS) have been suspended for the remainder of FY2017. Active Block Resolution (ABR) uses a variety of sources to perform Master Address File updates in areas of change identified by the Interactive Review (IR) process and provides high-quality frame information to the Address Canvassing operation. The MAF Coverage Study (MAFCS) was designed to 1) update the MAF on a continuous basis by field listing 20,000 blocks each year; 2) provide estimates of MAF coverage on a national and subnational basis; and 3) validate the In-Office Address Canvassing methodology.

Impact: The suspension of the ABR and MAFCS projects will result in an increased universe for field canvassing for 2020 Census Address Canvassing. The exact increase is unknown, but the suspension will almost certainly result in a field workload above the 25 percent threshold. This change will result in cost increases and increased potential for schedule adjustments associated with the additional field listing. In-Field Address Canvassing will need to scale up its listing operations by January 1, 2019 when field offices are scheduled to open. This change also has the potential to affect quality control (QC) work, as the scale and nature of sampling are likely to be affected. The pause in these two projects will make

it difficult to meet the objectives of the reengineered Address Canvassing operation and is likely to impact customer expectations and public trust of the Census Bureau.

3. The program issue titled Fully Implementing Innovative Design For 2020 Census (created from LC-003_Meeting Cost Goal) is still being developed.

Appendix

Appendix A: 2020 Census Operations and Purpose

| Operations | Purpose |
|---|--|
| Census/Survey Engineering | |
| Systems Engineering and Integration | The Systems Engineering and Integration operation (SEI) manages the delivery of a system of systems that meets 2020 Census Program business and capability requirements. |
| Security, Privacy, and Confidentiality | The Security, Privacy, and Confidentiality (SPC) operation ensures that all operations and systems used in the 2020 Census adhere to the following policies and regulations: <ul style="list-style-type: none"> • Appropriate systems and data security. • Respondent and employee privacy and confidentiality. |
| Content and Forms Design | The Content and Forms Design (CFD) operation performs the following activities: <ul style="list-style-type: none"> • Identify and finalize content and design of questionnaires and associated nonquestionnaire materials such as letters, postcards, brochures, envelopes, flashcards, and field materials. • Ensure consistency across data collection modes and operations, including (but not limited to) questionnaire content, help text, mailing materials, and field materials. • Provide the optimal design and content of the questionnaires to encourage high response rates. |
| Language Services | The Language Services (LNG) operation performs the following activities: <ul style="list-style-type: none"> • Assess and support language needs of non-English speaking populations. • Determine the number of non-English languages and level of support for the 2020 Census. • Optimize the non-English content of questionnaires and associated nonquestionnaire materials across data collection modes and operations. • Ensure cultural relevancy and meaningful translation of 2020 Census questionnaires and associated nonquestionnaire materials. |
| Frame | |
| Geographic Programs | The Geographic Programs (GEOP) operation provides the geographic foundation in support of the 2020 Census data collection and tabulation activities within the Master Address File/Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) System. The MAF/TIGER System (software applications and databases) serves as the national repository for all of the spatial, geographic, and residential address data needed for census and survey data collection, data tabulation, data dissemination, geocoding services, and map production. Components of this operation include: <ul style="list-style-type: none"> • Geographic Delineations. • Geographic Partnership Programs. • Geographic Data Processing. |
| Local Update of Census Addresses | The Local Update of Census Addresses (LUCA) operation provides an opportunity for tribal, federal, state, and local governments to review and improve the address lists and maps used to conduct the 2020 Census. This operation is required by the Census Address List Improvement Act of 1994 (Public Law (P.L.) 103-430). |
| Address Canvassing | The Address Canvassing (ADC) operation serves two purposes: <ul style="list-style-type: none"> • Deliver a complete and accurate address list and spatial database for enumeration. • Determine the type and address characteristics for each living quarter. |

| Operations | Purpose |
|--|--|
| Response Data | |
| Forms Printing and Distribution | <p>The Forms Printing and Distribution (FPD) operation prints and distributes the following paper forms to support the 2020 Census mailing strategy and enumeration of the population:</p> <ul style="list-style-type: none"> • Internet invitation letters. • Reminder cards or letters or both. • Questionnaire mailing packages. • Materials for other special operations, as required. <p><i>Other materials required to support field operations are handled in the Decennial Logistics Management or Field Infrastructure operations.</i></p> |
| Paper Data Capture | <p>The Paper Data Capture (PDC) operation captures and converts data from 2020 Census paper questionnaires. This operation includes:</p> <ul style="list-style-type: none"> • Mail receipt. • Document preparation. • Scanning. • Optical Character Recognition. • Optical Mark Recognition. • Key From Image. • Editing and checkout. |
| Integrated Partnership and Communications | <p>The Integrated Partnership and Communications (IPC) operation communicates the importance of participating in the 2020 Census to the entire population of the 50 states, the District of Columbia, and Puerto Rico to:</p> <ul style="list-style-type: none"> • Support Field recruitment efforts for a diverse, qualified Census workforce. • Engage and motivate people to self-respond, preferably via the Internet. • Raise and keep awareness high throughout the entire 2020 Census to encourage response. • Effectively support dissemination of Census data to stakeholders and the public. |
| Internet Self-Response | <p>The Internet Self-Response (ISR) operation performs the following functions:</p> <ul style="list-style-type: none"> • Maximize online response to the 2020 Census via contact strategies and improved access for respondents. • Collect response data via the Internet to reduce paper and NRFU. ▪ Provide Paper Questionnaires to respondents who request paper materials only. |
| Non-ID Processing | <p>The Non-ID Processing (NID) operation is focused on making it easy for people to respond anytime, anywhere to increase self-response rates. The operation accomplishes this by:</p> <ul style="list-style-type: none"> • Providing response options that do not require a unique Census ID. • Maximizing real-time matching of non-ID respondent addresses to the Census living quarters address inventory. • Accurately assigning nonmatching addresses to census blocks. • Conducting validation of all non-ID responses. |
| Update Enumerate | <p>The Update Enumerate (UE) operation is designated to occur in geographic areas where the Census Bureau has identified unique challenges. UE combines listing methodologies with enumeration methodologies. The primary functions of UE include:</p> <ul style="list-style-type: none"> • Verifying and updating the address list and feature data. • Determining the type and address characteristics for each living quarter. • Enumerating respondents at housing units within the UE geographic areas. |

| Operations | Purpose |
|--|--|
| Update Leave | <p>The Update Leave (UL) operation serves two purposes:</p> <ul style="list-style-type: none"> • Verify and update the address list and feature data. • Link and deliver a choice questionnaire package to each housing unit in the designated area for the household to self respond. |
| Group Quarters | <p>The 2020 Census Group Quarters (GQ) Operation will:</p> <ul style="list-style-type: none"> • Enumerate people living or staying in group quarters. • Provide an opportunity for people experiencing homelessness and receiving service at a service-based location, such as a soup kitchen, to be counted in the Census. |
| Enumeration at Transitory Locations | <p>The Enumeration at Transitory Locations (ETL) operation enumerates individuals in occupied units at transitory locations who do not have a Usual Home Elsewhere. Transitory locations include recreational vehicle parks, campgrounds, racetracks, circuses, carnivals, marinas, hotels, and motels.</p> |
| Census Questionnaire Assistance | <p>The Census Questionnaire Assistance (CQA) operation has two primary functions:</p> <ul style="list-style-type: none"> • Provide questionnaire assistance for respondents by answering questions about specific items on the Census form or other frequently asked questions about the Census; • Tier 1: Provide telephone assistance via an Interactive Voice Response (IVR). • Tier 2: Provide real-time assistance over the telephone or other electronic channels (Web chat and email) via CQA agents. • Provide an option for respondents to complete a Census interview over the telephone. |
| Nonresponse Followup | <p>The Nonresponse Followup (NRFU) Operation serves two purposes:</p> <ul style="list-style-type: none"> • Determines housing unit status for nonresponding addresses that do not self-respond to the 2020 Census. • Enumerates households that are determined to have a housing unit status of occupied. |
| Response Processing | <p>The Response Processing Operation (RPO) supports the three major components of the 2020 Census: predata collection activities, data collection activities, and post data collection activities.</p> <p>Specifically, the operation supports the following:</p> <ul style="list-style-type: none"> • Create and distribute the initial 2020 Census enumeration universe of living quarters. • Assign the specific enumeration strategy for each living quarter based on case status and associated paradata. • Create and distribute workload files required for enumeration operations. • Track case enumeration status. • Run post data collection processing actions in preparation for producing the final 2020 Census results. • Check for invalid or potential fraudulent returns. |
| Federally Affiliated Americans Count Overseas | <p>The Federally Affiliated Americans Count Overseas (FAA) operation obtains counts by home state of U.S. military and federal civilian employees stationed or deployed overseas and their dependents living with them.</p> |
| Publish Data | |
| Data Products and Dissemination | <p>The Data Products and Dissemination (DPD) operation performs three primary functions:</p> <ul style="list-style-type: none"> • Prepare and deliver the 2020 Census apportionment data for the President of the United States to provide to Congress by December 31, 2020. • Tabulate 2020 Census data products for use by the states for redistricting. • Tabulate and disseminate 2020 Census data for use by the public. |

| Operations | Purpose |
|---|---|
| Redistricting Data Program | The purpose of the Redistricting Data Program (RDP) is to provide to each state the legally required P.L. 94-171 redistricting data tabulations by the mandated deadline of 1 year from Census. Day: April 1, 2021. |
| Count Review | The Count Review (CRO) operation enhances the accuracy of the 2020 Census through remediating potential gaps in coverage by: <ul style="list-style-type: none"> • Implementing an efficient and equitable process to identify missing housing units. • Identifying and correcting missing or geographically misallocated large group quarters and their population. • Positioning remaining count issues for a smooth transition to the CQR operation. |
| Count Question Resolution | The Count Question Resolution (CQR) operation provides a mechanism for governmental units to challenge their official 2020 Census results. |
| Archiving | The Archiving (ARC) operation performs the following functions: <ul style="list-style-type: none"> • Coordinates storage of the materials and data and provides records deemed permanent, including files containing the individual responses to the 2020 Census, to National Archives and Records Administration (NARA). • Provides similar files to the NPC to use as source materials to conduct the Age Search Service. |
| Other Censuses | |
| Island Areas Censuses | The purpose of the Island Areas Censuses operation is to enumerate all residents of American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, and the U.S. Virgin Islands; process and tabulate the collected data; and disseminate data products to the public. |
| Test and Evaluation | |
| Coverage Measurement Design and Estimation | The Coverage Measurement Design and Estimation (CMDE) operation develops the survey design and sample for the postenumeration survey for the 2020 Census. It also produces estimates of census coverage based on a postenumeration survey. |
| Coverage Measurement Matching | The Coverage Measurement Matching (CMM) operation identifies matches and nonmatches between the 2020 Census and the Coverage Measurement Survey, for both housing units and people, including computer and clerical components. |
| Coverage Measurement Field Operations | The Coverage Measurement Field Operations (CMFO) collects person and housing unit information (independent from 2020 Census operations) for the sample of Coverage Measurement Survey housing units. Coverage Measurement (CM) collects the same data as the 2020 Census for both housing units and persons. Additional information is collected by CM to help us understand census coverage and to detect erroneous enumerations. |
| Evaluations and Experiments | Evaluations and Experiments (EAE) document how well the 2020 Census was conducted; evaluations analyze, interpret, and synthesize the effectiveness of census components and their impact on data quality or coverage or both. Experiments identify potential designs of early 2030 Census life-cycle research and testing; experiments are quantitative or qualitative studies that must occur during a decennial census in order to have meaningful results to inform planning of future decennial censuses. In general, experiments involve response comparisons between tests, new or modified methods, or procedures against 2020 Census production methods or procedures. The EAE operation performs the following functions: <ul style="list-style-type: none"> • Measures success of critical 2020 Census operations and processes. |

| Operations | Purpose |
|---|--|
| | <ul style="list-style-type: none"> • Formulates a 2020 Census experimental program that will further refine 2030 Census operational design options. • Contributes to the formulation of the 2030 Census Research and Testing phase objectives. • Develops a transition plan and appropriate organizational structures to establish 2030 Census life cycle planning. • Initiates other early planning activities for the 2030 Census, including the monitoring of policy concerns and technological, societal, and public cooperation trends. • Produces an independent assessment of coverage via Demographic Analysis. |
| Infrastructure | |
| Decennial Service Center | The Decennial Service Center (DSC) will support 2020 Census field operations and handle all service requests initiated by field staff. |
| Recruiting, Training, and Onboarding | <p>The Field Infrastructure (FLDI) operation performs the following functions:</p> <ul style="list-style-type: none"> • Coordinates space acquisition for, and lease management of, the RCC and Area Census Offices. • Provides the administrative infrastructure for data collection covering the 50 states, the District of Columbia, and Puerto Rico including: <ul style="list-style-type: none"> ◦ Recruiting. ◦ Hiring and onboarding. ◦ Personnel and payroll administration. ◦ Training. ◦ Partnership support. ◦ Management and supervision. ◦ Clerical support. ◦ Materials supply. ◦ Printing and plotting. |
| Decennial Logistics Management | The Decennial Logistics Management (DLM) will provide logistics management services including procuring warehouse space, warehousing, inventory management, kit assembly, deployment of materials, and receiving and excessing materials. |
| IT Infrastructure | <p>The purpose of the IT Infrastructure (ITIN) operation is to provide the IT-related infrastructure support to the 2020 Census, including:</p> <ul style="list-style-type: none"> • Enterprise systems and applications. • Decennial-specific systems, applications, and interfaces. • Field IT infrastructure (RCC, field office, and paper data capture center). • Mobile computing. • Cloud computing. |
| Program Management | |
| Program Management | The Program Management (PM) operation defines and implements program management policies, processes, and the control functions for planning and implementing the 2020 Census in order to ensure an efficient and well-managed program. |

Appendix B: Detailed Operational Plan Release Schedule

| | Detailed Operational Plan | DOP Release Dates via Operational Plan v1.0 | Revised release date v2.0 | Final revised schedule after February 2017 rescoping | | |
|----|---|---|---------------------------|--|-----------------------------------|------------|
| 1 | (8) Address Canvassing - (ADC) | Sept 2015 | | Dec 2017 | | |
| 2 | (7) Local Update of Census Addresses (LUCA) | Sept 2016 | Sept 2016 | | | |
| 3 | (4) Content and Forms Design (CFD) | | | | | |
| 4 | (5) Language Services (LNG) | | | | | |
| 5 | (12) Internet Self-Response (ISR) | | | | Dec 2016 | June 2017 |
| 6 | (13) Non-ID Processing (NID) | | | | Sept 2016 | March 2018 |
| 7 | (10) Paper Data Capture (PDC) | | | | Dec 2016 | March 2017 |
| 8 | (22) Redistricting Data Program (RDP) | | | | Sept 2016 | March 2018 |
| 9 | (11) Integrated Partnership and Communications (IPC) | | | | | Dec 2018 |
| 10 | (17) Census Questionnaire Assistance (CQA) | | | | | |
| 11 | (19) Response Processing (RPO) | | | | Mar 2017 | June 2018 |
| 12 | (6) Geographic Programs Operation (GEOP) -- Geographic Delineations Component (GEOP/GD) | | | | No date released in 2020 Ops Plan | Sept 2016 |
| 13 | (6) Geographic Programs Operation (GEOP) -- Geographic Partnerships Component (GEOP/GP) | | | | | |
| 14 | (6) Geographic Programs Operation (GEOP) -- Geographic Data Processing Component (GEOP/GDP) | | | | | |
| 15 | (34) IT Infrastructure (ITIN) | | Mar 2017 | April 2017 | | |
| 16 | (3) Security, Privacy and Confidentiality (SPC) | | Dec 2016 | June 2017 | | |
| 17 | (18) Nonresponse Followup (NRFU) | | | | | |
| 18 | (9) Forms Printing and Distribution (FPD) | | Mar 2017 | | | |
| 19 | (14) Update Enumerate (UE) | Sept 2017 | Mar 2017 | Sept 2017 | | |
| 20 | (14) Remote Alaska | No date in Op Plan | | Dec 2017 | | |
| 21 | (15) Group Quarters (GQ) | Sept 2017 | Jun 2017 | Sept 2017 | | |
| 22 | (32) Field Infrastructure (FLDI) | Sept 2016 | | Dec 2017 | | |
| 23 | (33) Decennial Logistics Management (DLM) | | | | | |
| 24 | (31) Decennial Service Center (DSC) | Jan 2017 | | Oct 2017 | | |
| 25 | (21) Data Products and Dissemination (DPD) | Sept 2017 | | Sept 2018 | | |
| 26 | (30) Evaluations and Experiments (EAE) | | Sept 2017 | Sept 2018 | | |
| 27 | (27) Coverage Measurement Design & Estimation (CMDE) | | | | | |
| 28 | (28) Coverage Measurement Matching (CMM) | | Sept 2018 | | | |
| 29 | (29) Coverage Measurement Field Operations (CMFO) | | | | | |
| 30 | (20) Federally Affiliated Americans Count Overseas (FAA) | | | | | |
| 31 | (16) Enumeration at Transitory Locations (ETL) | | | | | |
| 32 | (25) Archiving (ARC) | Sept 2018 | Sept 2017 | Sept 2018 | | |
| 33 | (23) Count Review (CRO) | Sept 2017 | Sept 2018 | | | |
| 34 | (26) Island Areas Censuses (IA) | | | | | |
| 35 | (24) Count Question Resolution (CQR) | Sept 2018 | | | | |
| 36 | (1) Program Management (PM) | | | | | |
| 37 | (2) Systems Engineering & Integration (SEI) | | | | | |

| | |
|---|------------------|
|  | FY 16 release |
|  | FY 17 release |
|  | FY 18 release |
|  | FY 18 re-release |
|  | FY 19 re-release |

Note: All reports are released via the 2020 Census Memorandum Series. This schedule was released September 28, 2016. Work on many Detailed Operational Plans was delayed so existing staff could focus on higher priority 2017 Census Test preparations and rework artifacts to account for scope changes. Additional changes to this schedule will appear in the June Monthly Status Report.

Appendix C: Descriptions of Tests That Have Already Taken Place

Address Canvassing Test

The Address Canvassing Test conducted in 2016 focused on the following: (1) measuring the effectiveness of In-Office Address Canvassing through In-Field Address Canvassing; (2) measuring the effectiveness of In-Field Address Canvassing; and (3) understanding the implications of moving from Assignment Area (a grouping of blocks) to Basic Collection Unit (BCU), which encompasses the characteristics of both collection blocks and assignment areas.

The Address Canvassing Test included In-Office Address Canvassing and In-Field Address Canvassing. The In-Office Address Canvassing included the Interactive Review and Active Block Resolution activities. The In-Field Address Canvassing activity is full block listing of all living quarters. Both In-Office Address Canvassing and In-Field Address Canvassing are based on the same input data (i.e., Master Address File (MAF) and Topologically Integrated Geographic Encoding and Referencing (TIGER)) and will be completed in time to compare the results from both activities with each other.

This Test occurred in two sites, Buncombe County, North Carolina, and St. Louis, Missouri. The sites include a variety of living quarters and address types (i.e., city-style addresses, non-city-style addresses, and location descriptions). Census field representatives were hired to conduct In-Field Address Canvassing. All management and oversight activities occurred out of the regional offices.

2016 Census Test

The 2016 Census Test was an operational study of both self-response and nonresponse followup procedures. The self-response objectives included testing the provision of language support to limited English proficient populations, testing the ability to reach demographically diverse populations, and refining Real-Time Non-ID Processing (RTNP) methods.

The nonresponse followup objectives included the following strategies: the use of administrative records and third-party data to reduce cost while maintaining quality; reengineering field operations using models to reduce travel time and determine the best time for the enumerator to contact the respondent; and streamlining the staffing and supervisory structure.

Systems testing included the use of a Census Bureau server-based infrastructure¹ to support Self-Response and Non-ID Processing (for those responses where the Census ID is not used), and to measure the systems' abilities to manage a significant number of concurrent users. Also, this Test utilized Census Enterprise Data Collection and Processing (CEDCaP) systems (Control and Response Data System and the Multimode Operational Control System) for the first time in support of response processing operations. Data collection for the 2016 Census Test began in March 2016 and continued through June 2016 in Los Angeles County, California, and Harris County, Texas.

2015 Optimizing Self-Response Test

The 2015 Optimizing Self-Response Test was critical for assessing ways to maximize self-response for the 2020 Census. The scope of the Test included: testing self-response modes (including Internet, paper, and telephone); contact strategies for our preregistration tool,

“Notify me”; use of digital, targeted advertising methods to increase awareness and engagement, promoting the “Notify Me” and Non-ID response options, and encouraging participation in the Test; real-time processing of Non-ID cases; and optimization of the internet data collection application for mobile devices. Data collection for the 2015 Optimizing Self-Response Test took place from February through May 2015 in the Savannah, Georgia, designated media market area (including several counties in South Carolina).

2015 National Content Test

The 2015 National Content Test (NCT) used a nationally representative sample of approximately 1.2 million households to evaluate and compare different census content and to test different contact strategies for optimizing self-response. The scope of the Test included: content testing for questions on race and Hispanic origin (e.g., combining race and Hispanic origin into a single question vs. using separate questions, introduction of a Middle Eastern/North African category), relationship (introduction of same-sex relationship categories), and within-household coverage (streamlined approach for ensuring accurate within-household coverage); continued testing of self-response modes and contact strategies (timing of invitations/notifications), targeted mail strategies to address the differences in Internet access based on demographics and regions, and optimization of the Internet data collection application for mobile devices. The Test also included a reinterview (of a subsample of respondents) to further assess the accuracy and reliability of the question alternatives for race, Hispanic origin, and within-household coverage. The 2015 NCT used a nationally representative sample to test various versions of questions that may appear on the 2020 Census and future American Community Survey questionnaires. Data collection for the 2015 NCT took place from August through December 2015.

Appendix D: Acronyms

| | |
|-------------------|---|
| ABR..... | Active Block Resolution |
| ACO | Area Census Offices |
| ACS | American Community Survey |
| ADSD | Applications Development and Services Division |
| AMO | Area Manager of Operations |
| AMSD | Administrative and Management Systems Division |
| ARM..... | Administrative Records Modeling |
| ATAC..... | Automated Tracking and Control |
| ATP | Architecture Transition Plan |
| ATT | Authority To Test |
| AVI..... | [Telephone: robocall] |
| AVT | Address Validation Test |
| AWS..... | Amazon Web Services |
| BAS | Boundary and Annexation Survey |
| BBSP | Block Boundary Suggestion Project |
| BCU..... | Basic Collection Unit |
| BYOD | Bring Your Own Device [The use of employee-owned equipment/services.] |
| C-SHaRPS | Census Schedule A Human Resources Payroll System |
| CASS..... | Coding Accuracy Support System |
| CAT | Customer Acceptance Testing |
| CATI | <i>Computer Assisted Telephone Interviewing</i> |
| CCs..... | Contact Centers |
| CDR..... | Critical Design Review |
| CEDCaP | Census Enterprise Data Collection and Processing |
| CES..... | Center for Economic Studies |
| CFD | Content and Forms Design |
| CHEC | Census Hiring and Employment Check |
| CM | Coverage Measurement |
| CMS | Center for Medicare and Medicaid Studies |
| COMPASS | Census Operations Mobile Platform for Adaptive Services and Solutions |
| CQA | Census Questionnaire Assistance |
| CRM..... | <i>Customer Relationship Management</i> |
| CSAC | Census Scientific Advisory Committee |
| CSM | Center for Survey Measurement |
| DAPPS | Decennial Applicant, Personnel, and Payroll System |
| DCBO | Decennial Communications and Budget Office |
| DCMD | Decennial Census Management Division |
| dDaaS | decennial Device as a Service |
| DDSSO | Decennial Directorate Support Services Office |
| DID..... | Design Intent Drawings |
| DITD..... | Decennial Information Technology Division |
| DOP | Detailed Operational Plan |
| DPMO | Decennial Program Management Office |
| DROM..... | Decennial Research Objectives and Methods Group |
| DSSD | Decennial Statistical Studies Division |
| DTO | Decennial Translation Office |
| EAE | Evaluations and Experiments |
| ECaSE..... | Enterprise Censuses and Surveys Enabling |
| ECaSE-Enum..... | Enterprise Censuses and Surveys Enabling-Enumeration |
| ECaSE-ISR..... | Enterprise Censuses and Surveys Enabling-Internet Self-Response |
| ECaSE-OCS..... | Enterprise Censuses and Surveys Enabling-Operational Control System |
| EFU | Evaluation Followup |
| ENUM | Enumerators in the Field |
| ENUMPREP | Enumeration Preparation |
| eResponse IT..... | Electronic Response Data Independent Test |

ES..... English/Spanish, otherwise known as Bilingual
 ESB Enterprise Service Bus
 FAQ..... *Frequently Asked Questions*
 FMO..... Field Manager of Operations
 FY..... *Fiscal Year*
 FSCPE..... Federal-State Cooperative for Population Estimates
 GAADS Geographic Area Analysis and Delineation System
 GAO Government Accountability Office
 GEO Geography Division
 GPO *Government Publishing Office*
 GPMO..... Government Program Management Office
 GPSD..... Geographic Partnership Support Desk
 GQ Group Quarters
 GRF-C..... Geographic Reference File-Codes
 GRF-N Geographic Reference File-Names
 GUPS..... Geographic Update Partnership Software
 HU Housing Unit
 ICADE..... Integrated Computer Assisted Data Entry System
 ICC Integrated Communications Contract
 IIP Integration and Implementation Plan
 IMS Integrated Master Schedule
 IPC Integrated Partnership and Communications
 IPT Integrated Project Team
 IR Interactive Review
 IRS *Internal Revenue Service*
 ISR Internet Self-Response
 IT *Information Technology*
 JASON..... [An independent scientific advisory group that provides consulting services to the federal government on matters of science and technology.]
 LCO Local Census Office
 LiMA Listing and Mapping Application
 LMS Learning Management System
 LSO Local Supervisor of Operations
 LUCA Local Update of Census Addresses
 MAF Master Address File
 MAF/TIGER..... Master Address File/Topologically Integrated Geographic Encoding and Referencing
 MAFUF Master Address File Update File
 MCM..... Mobile Case Management
 MDM Mobile Device Management
 MES Mission Enabling Services
 MMVT..... MAF Model Validation Test
 MOCS..... Multimode Operational Control System
 MOJO [Term for Census Operational Control System for Reengineered Field Operations]
 MTDB.....Master Address File/Topologically Integrated Geographic Encoding and Referencing system database
 NAC National Advisory Committee
 NAS *National Academy of Sciences*
 NCT National Content Test
 “Notify Me” [Census Bureau’s Preregistration Tool]
 NPC..... National Processing Center
 NRFU Nonresponse Followup
 NTC..... Note for Correspondents
 OCS..... Operational Control System
 OIG *Office of the Inspector General*
 OIS..... *Office of Information Security*
 OMB *Office of Management and Budget*

OOS *Office Operations Supervisor*
OCR.....**Optical Character Recognition**
ORR **Operational Readiness Review**
ORT.....**Operational Readiness Testing**
OSR **Optimizing Self-Response**
PCS **Production Control System**
PDC..... **Paper Data Capture**
PES..... **Post Enumeration Survey**
PM *Program Management*
PMGB **Portfolio Management Governing Board**
PMR..... **Program Management Review**
Primus **[Census Bureau’s Internet Data Collection System]**
PRR **Production Readiness Review**
PSAP **Participant Statistical Areas Program**
PVSed **[To make data private and secured]**
PWS.....**Performance Work Statement**
PXP **Partnership Experience Portal**
QC..... *Quality Control*
R&T **Research and Testing**
RA..... **Recruiting Assistant**
RCC **Regional Census Center**
RDP..... **Redistricting Data Program**
RFI *Request for Information*
RFP *Request for Proposal*
RO..... **Regional Office**
ROCKIT **Reorganized Census with Integrated Technology [Reengineered Field Operations]**
RRB **Risk Review Board**
RTNP..... **Real-Time Non-ID Processing**
RTOCS **Research and Testing Operational Control System**
SBE **Service Based Enumeration**
SDLC **Systems Development Life Cycle**
SE..... *System Engineering*
SE&I **Systems Engineering and Integration**
SIMEX **Human in the Loop Simulation**
SLC..... **Survey Life Cycle**
SPC **Security, Privacy, and Confidentiality**
SRR **Systems Requirement Review**
TEA **Type of Enumeration Area**
TEMP **Test and Evaluation Management Plan**
TI **Technical Integrator**
TIGER **Topologically Integrated Geographic Encoding and Referencing**
TQA **Telephone Questionnaire Assistance**
TRR **Test Readiness Review**
UAA **Undeliverable As Addressed**
UAT..... **User Acceptance Test**
UE..... **Update Enumerate**
UHE..... **Usual Home Elsewhere**
USPS *United States Postal Service*
UT..... **Users Test**
UTS *Unified Tracking System*
VTD..... *Voting Districts*
WG *Working Group*
WLM..... **Workload Management**
Y&R *Young & Rubicam*

Note: Nonitalicized acronyms are those that are used mainly at U.S. Census Bureau whereas italicized acronyms are widely employed elsewhere.