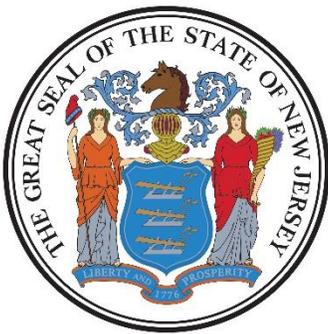# U.S. CENSUS BUREAU 2020 CENSUS PUB.L. 94-171 REDISTRICTING DATA & NEW JERSEY P.L.2019, C.385 REALLOCATED REDISTRICTING DATA

Contents

Introduction

This report is the result of an interagency collaboration of the following New Jersey Departments in preparing the U.S. Census Bureau 2020 Census Pub.L. 94-171 Redistricting Data as reallocated pursuant to New Jersey P.L.2019 c.385: the NJ Department of State, the NJ Department of Corrections, the NJ Department of Labor and Workforce Development, and the NJ Office of Information Technology.

The report details reallocated population data for the counting of New Jersey's incarcerated individuals at the individual's residential address prior to incarceration, if known, for legislative, congressional, county, and municipal ward redistricting purposes, and for the apportionment of regional school district board of education members in compliance with the requirements of P.L.2019 c.385 and P.L.2021, c.198.

P.L.2019, c.385 (C.52:4-1.1 through 1.5)

As required under N.J.S.A. 52:4-1.2 and N.J.S.A. 52:4-1.3, the Secretary of State requested a report from the NJ Department of Corrections and from agencies that operate a federal corrections facility in New Jersey. The Department of Corrections provided such report, and the Federal Bureau of Prisons advised that it would not provide the requested data because the state's request is not for law enforcement purposes and thus, did not meet the criteria for permissible disclosure of the data sought.

With respect to the requirements of N.J.S.A. 52:4-1.4(a), for each individual included in the report received from the NJ Department of Corrections under N.J.S.A. 52:4-1.2, the geographic units have been determined for population counts reported in the census that contain the address of the facility where the individual was incarcerated, and the residential address of the individual as listed in the NJ Department of Corrections' report have been determined.

As required under N.J.S.A. 52:4-1.4(b), for each individual included in the report received from the NJ Department of Corrections pursuant to N.J.S.A. 52:4-1.2, where the residential address of such individual was known and located in this State, the relevant counts reported in the census have been re-allocated to reflect the individual's residential address as determined under N.J.S.A. 52:4-1.2. That is to say that the individual was removed from the geographic unit of the prison facility in which they were reported in the census and placed into the geographic unit of their residential address.

As required under N.J.S.A. 52:4-1.4(c), for each individual included in the report received from the NJ Department of Corrections pursuant to N.J.S.A. 52:4-1.2 where the individual's address was unknown or not located within the State, and for all individuals reported in the census as

residing in a federal incarceration facility for whom a report was not provided under N.J.S.A. 52:4-1.3, the relevant population counts reported in the census have been reallocated to reflect that the individual resided at "an unknown address within the State" on the day the census was completed, and the individual is not included in any applicable population counts reported in the census for the geographic units where the individual's prison facility was located on the day the census was completed.

Where the complete physical residential address could not be determined from the NJ Department of Corrections report provided pursuant to N.J.S.A. 52:4-1.2, such as incomplete addresses with a missing address number, missing city and zip code, etc.; addresses that are valid for mail delivery but not physical location, such as PO Boxes or rural delivery route addresses; and addresses that appear to be complete street addresses but are in fact invalid or nonexistent according to our reference data, those individuals have been reallocated as residing at "an unknown geographic location within the State" consistent with N.J.S.A. 52:4-1.4(c).

P.L.2021, c.198 "Chapter 198"

Chapter 198 requires the counting of incarcerated individuals at the individual's residential address for municipal ward, county, and congressional redistricting purposes and for the apportionment of regional school district board of education members, amending N.J.S.A. 18A:13-8 and P.L.2017, c.45 and in accordance with the requirements of, and supplementing, N.J.S.A. 52:4-1.1 to -1.5.

The data reported is the same data determined under N.J.S.A. 52:4-1.4 and is being sent to the members of the New Jersey Redistricting Commission for the establishment of congressional districts, the members of each county district commission for the establishment of county districts under N.J.S.A. 40:41A- 123, the members of each ward commission for the establishment of the municipal wards under N.J.S.A. 40:44-15, and each entity responsible for the apportionment of the members of each board of education of a regional school district pursuant to N.J.S.A. 18A:13-8 and N.J.S.A. 18A:13-34(a) and N.J.S.A. 18A:13-46-1.

Apportionment and Reallocated Population Counts

On April 26, 2021, the U.S. Census Bureau released census apportionment data. New Jersey's total population count was 9,288,994. The state incarcerated population is 18,109.

Report Summary, Processes and Procedures

<u>Geocoding</u>

- o Pitney Bowes Finalist Software, ArcGISPro Software, TIGER Redistricting product, NJ Office of Information Technology (NJOIT) geocoding webservice, Esri World geocoding service, and U.S. Census Bureau geocoder were used for geocoding and placement of incarcerated individuals within applicable census blocks to adjust the population data received from the Census Bureau to implement N.J.S.A. 52:4-1.1 to -1.5. See below for further detail.
- o Bulk cleanup for Geocoding: where patterns of errors could be discerned in the formatting of the addresses, these were cleaned up by formulas in Excel.
    - For example, a number of records had the address number in one column and the rest of the street address (street name and floor or apartment) in a second column, so these were grouped together by sorting and a formula used to correct them.
    - If the state or city column was blank but the state or city could be determined by the zip code, this was corrected.
    - Some city names were missing spaces and truncated, but it was still clear what the city name should be (for example NORTHCAPEM is clearly North Cape May). They could also be verified by looking up the zip code. These were corrected by batch calculations.
    - Some address columns had spurious notes such as "Mother's house" or were prefixed with abbreviations such as "LKA" (for "last known address"). These were identified by sorting and browsing the file and were removed.
- o Manual Cleanup for Geocoding: whenever obvious typographic or formatting errors were identified in individual records, they were corrected. This occurred repeatedly throughout the remainder of the processing sequence.
- o USPS validation: Pitney Bowes Finalist software was used to provide the same kind of address cleansing that is used to prepare address lists for mailings. The Finalist software is able to add or correct missing or erroneous zip codes and also reformats addresses to the standardized form. This results in improved geocoding performance.
- o Geocoding: Using an iterative process, addresses were geocoded using ArcGIS Pro software and various geocoding services. After each stage of geocoding, records that remained unmatched were inspected, errors corrected where possible, and the unmatched addresses were then geocoded against the next source. Geocoding reference sources used:
    - NJOIT hosts a geocoding web service built from reference data compiled from a number of government sources, including property tax databases and contributions from local government partners.
    - ArcGIS Pro software has built-in access to a commercial geocoder called the Esri World Geocoding Service, which is compiled from a variety of commercial data sources.

- U.S. Census Bureau operates a geocoder that is built from the street files maintained by them.

- census block overlay: using GIS data published by U.S. Census Bureau in the Redistricting TIGER product, the geocoded addresses were overlaid with 2020 census blocks to determine the block identifier ("GEOID") of the block containing each address point.

- Correctional facility geocoding: Correctional facility names and addresses were provided by NJ Department of Corrections. These were geocoded against the NJOIT geocoding service. Then each location was manually edited by referencing aerial photography and various basemap sources. Each point was placed on the main building or in the center of the main cluster of buildings. (Correctional facilities generally lie entirely in one census block in any case, so the specific point location is not a major factor.) In cases where uncertainty remained about facility locations, these were resolved by consulting NJ Department of Corrections. Block ID of the 2020 census block containing the point was added to each facility point.

- Facility location join: Facility locations were joined to inmate address records through a relational database join and the facility census block IDs copied into the inmate address record.

- Final result: a table with the original inmate attributes (including unique identifier, address, race, Hispanic, over 18, facility name) and the additional attributes of census block IDs corresponding to both the last residential address and the correctional facility location. This table was exported to Excel and transmitted to the State Census Data Center for further processing.

- Geocoding Summary of results of processing:
  - 18,109 inmate address records provided by NJ Department of Corrections
  - 16,198 (89.4%) records successfully geocoded and matched to census blocks within NJ
  - 1,114 (6.2%) records with residential addresses outside of NJ. Per the statute, these were indicated as unknown in the column for census block ID
  - 797 (4.4%) records with residential addresses that were unknown/homeless, incomplete, PO boxes, rural route addresses, or contained an invalid/nonexistent address or street name. Locations could not be determined for these, and thus, these were indicated as unknown in the column for census block ID

Reallocated Based on New Jersey P.L.2019, c.385

Inputs

The following were inputs used to produce the Redistricting Data Products:

- U.S. Census Bureau's Pub.L. 94-171 Redistricting Data files: this includes 3 raw data files and 1 Header record.
- NJ Department of Corrections Inmate detail file geocoded by the Office of GIS containing census block level geocoded information for state correctional facilities and last known addresses for incarcerated individuals.

Outputs

- Two series of Pub.L. 94-171 Redistricting Data Tables were produced. One series contains tables as reported by the U.S. Census Bureau unadjusted for reallocation of incarcerated individuals as outlined in NJ P.L.2019 c.385. The tables include:

  P1. Population by Race and Hispanic or Latino Origin
  P2. Hispanic or Latino, and Not Hispanic or Latino by Race
  P3. Race for the Population 18 Years and Over
  P4. Hispanic or Latino, and Not Hispanic or Latino by Race for the Population 18 Years and Over
  P5. Group Quarters Population by Major Group Quarters Type
  H1. Occupancy Status

- The second series of tables includes Pub.L. 94-171 Redistricting Data Tables adjusted for reallocation of incarcerated persons as outlined in NJ P.L.2019 c.385. The tables include:

  P1. Population by Race and Hispanic or Latino Origin
  P2. Hispanic or Latino, and Not Hispanic or Latino by Race
  P3. Race for the Population 18 Years and Over
  P4. Hispanic or Latino, and Not Hispanic or Latino by Race for the Population 18 Years and Over
  (Note: Tables P5 and H1 are not relevant to this adjustment process)

  The Department of Corrections (DOC) Report contains data for the following Census race and ethnicity categories:

  Race: White, Black, American Indian and Alaska Native, Asian, Native Hawaiian and Other Pacific Islander, Some Other Race
  Ethnicity: Hispanic, Non-Hispanic, Unknown

  The DOC report does not record those individuals that identify as more than one race. Each individual in the DOC report falls into one race only. Therefore, the Two or More Races category is identical for both the adjusted and unadjusted table series. With regard to ethnicity, a small number of the inmate records did not indicate yes or no, and are included in Non-Hispanic.

- Both series of tables are reported at the following geography levels:

State and County
Municipality or Minor Civil Divisions (MCD)
Congressional and State Legislative Districts
Voting Districts
Census Tracts
Census Blocks
Elementary School Districts
Secondary School Districts
Unified School Districts
Census Designated Places (CDP)

Processing the Data
There were 41 census blocks where Group Quarters Corrections facilities were located.

There were three census blocks where the Census Bureau's population count was located in a census block adjacent to the census block assigned to the Corrections facility address as geocoded by our Office of GIS. The data was relocated to the block where the U.S. Census Bureau reported the data. The following Blocks were affected:

MID-STATE CORRECTIONAL FACILITY - Burlington County
census block 340057048014004 recoded to census block 340057048014012 – 652 Inmates recoded.

GARDEN STATE YOUTH CORRECTIONAL FACILITY –Burlington County
census block 340059818021002 recoded to census block 340059818021003 – 1542 Inmates recoded.

ADULT DIAGNOSTIC AND TREATMENT CENTER – Middlesex County
census block 340230090001007 recoded to census block 340230090001006 – 478 Inmates recoded.

Seven census blocks had DOC reported population counts but zero population reported by the Census Bureau's Group Quarters Report for Corrections Facilities. Those census blocks are:

340076019001019 – Camden County -	HOPE HALL (VOA)	168 Inmates
340076103002027 – Camden County -	GARRET HOUSE (VOA)	108 Inmates
340130066001000 – Essex County -	JAMES A HEMM HOUSE	61 Inmates
340210006003003 – Mercer County -	SAINT FRANCIS	10 Inmates
340210013003000 – Mercer County -	OFFICE OF INTERSTATE SERVICES	102 Inmates
340311817021000 - Passaic County -	FENWICK HOUSE	46 Inmates
340311818003001 – Passaic County -	PASSAIC COUNTY JAIL PRE-ADMISSION	3 Inmates

Note: Blocks 340076019001019 - Camden County, 340076103002027- Camden County, and 340210006003003 – Mercer County, had a negative total population due to the U.S. Census Bureau reporting fewer individuals in the block than DOC recorded in the departmental report.

Although the reason for the Census Bureau's reporting of fewer individuals is unknown, including whether it is due to the incorporation of differential privacy into its data reporting, the individuals reported by DOC are known to have been present at these facilities, and therefore, were reallocated in accordance with P.L.2019, c.385.

Two census blocks have Federal facilities:
340059822003049 – Burlington County - Federal Correctional Institution at Fort Dix
       2997 Inmates
340110104021000 – Cumberland County - Federal Correctional Institution Fairton
       1035 Inmates

As no report was received for Federal facilities, the total population of the two above-noted Blocks were moved to the unknown address location category for the state, pursuant to N.J.S.A. 52:4-1.3. There were 35 individuals as reported by the Census Bureau in these two census blocks who were not accounted for in the group facilities count. These 35 non-incarcerated individuals were moved to the unknown address category because the Census Bureau's demographic breakout of these individuals at the block level cannot be distinguished from the Corrections facility population absent a federal report (see chart at top of p.10).

Reallocating the Pub.L. 94-171 Redistricting Data
1. From the DOC report, the Blocks associated with the GEOIDs for the Correctional facilities were identified. The relevant race and ethnicity data for those Blocks were tabulated. Columns in this file have a "_P" suffix to indicate that those data are associated with the Correctional facility location. These data were then subtracted from the block-level data in the Redistricting Data file.

DOC Reported Population in Corrections Facilities (see chart on page 9)

Census Block	Total Population	White	Black	American Indian & Alaska Native	Asian	Native Hawaiian & Other Pacific Islander	Some Other Race	Hispanic	Non-Hispanic
340010114042008	6	2	4	0	0	0	0	0	6
340030236023007	8	5	0	0	1	0	2	2	6
340057026033009	3	0	3	0	0	0	0	0	3
340057048014012	652	168	406	0	3	0	75	74	578
340059818021003	1,542	204	1,127	0	7	0	204	211	1331
340076019001019	168	22	126	0	0	0	20	20	148
340076103002027	108	22	78	0	0	0	8	7	101
340076104001000	21	4	15	0	0	0	2	3	18
340090210011032	4	3	1	0	0	0	0	0	4
340110101031000	1,319	266	834	0	4	0	215	212	1107
340110101031002	1,637	397	910	2	20	0	308	306	1331
340110202001011	1	0	1	0	0	0	0	0	1
340110205021000	3,314	735	1,937	2	21	0	619	613	2701
340110205032023	386	62	297	0	1	0	26	26	360
340130048021001	598	78	450	0	3	0	67	67	531
340130048021018	305	61	195	0	7	0	42	41	264
340130066001000	61	11	43	0	1	0	6	5	56
340130067002001	41	2	4	0	0	0	35	36	5
340130074001003	116	7	97	0	0	0	12	12	104
340139801001015	2,230	397	1,432	3	10	0	388	386	1844
340170127004108	6	1	4	0	0	0	1	1	5
340190107011033	551	220	252	0	9	0	70	70	481
340190110012036	533	88	347	1	8	0	89	89	444
340210006003003	10	3	7	0	0	0	0	1	9
340210009001011	45	4	37	0	0	0	4	3	42
340210013003000	102	27	59	0	0	0	16	15	87
340210018001001	537	110	364	0	0	0	63	60	477
340210037082002	519	164	278	0	6	0	71	71	448
340210038002017	2	0	2	0	0	0	0	0	2
340219800001001	1,505	302	920	3	19	0	261	241	1264
340230062092001	4	1	1	0	0	0	2	2	2
340230090001005	1,221	220	779	0	9	0	213	230	991
340230090001006	478	251	104	0	8	0	115	135	343
340258104013039	4	4	0	0	0	0	0	0	4
340270433012017	9	5	4	0	0	0	0	0	9
340297231001019	3	2	1	0	0	0	0	1	2
340311817021000	46	11	25	0	2	0	8	9	37
340311818003001	3	1	1	0	0	0	1	1	2
340350501001004	2	0	1	0	0	0	1	1	1
340390399002015	7	1	3	1	0	0	2	2	5
340410316012026	2	1	1	0	0	0	0	0	2
Total	18,109	3,862	11,150	12	139	0	2,946	2,953	15,156

Population in Federal Correctional Facilities

Census Block	Total Population	White	Black	American Indian & Alaska Native	Asian	Native Hawaiian & Other Pacific Islander	Some Other Race	Hispanic	Non-Hispanic
Federal Facilities									
340059822003049	3,013	1,492	1,457	13	43	1	0	636	2377
340110104021000	1,054	614	389	28	15	0	0	287	767
Total	4,067	2,106	1,846	41	58	1	0	923	3144

2. From the DOC report, the Blocks associated with the GEOIDs for the last known address of the incarcerated individual were identified. The relevant race and ethnicity origin data for those Blocks were tabulated. Columns in this file have a "_A" suffix to indicate that those data are associated with the last known address information. These data were added to the block level data in the Redistricting Data file.

3. The columns in the Pub.L. 94-171 Redistricting Data file have a "_C" suffix to indicate unadjusted 2020 Census data.

4. The block-level GEOIDs of the Pub.L. 94-171 Redistricting Data are merged with the block level GEOID's of the files created in steps 1 and 2.

5. Reallocated data is calculated using the following formula: ("_R" suffix is used to indicate reallocated Census data): Census_R= Census_C – DOC_P + DOC_A

6. Block -level reallocated data columns are aggregated with the various Census geography levels outlined in the Outputs section of this report.

7. Tables P1. through P4. were created using the reallocated Census data.

There were seven Blocks that had a negative population total after the reallocation process. Another nine Blocks have one or more negative racial components in their reallocated data (see chart at top of page11).

Post- Reallocation Negative Blocks

Census Block	Total Population	White	Black	American Indian & Alaska Native	Asian	Native Hawaiian & Other Pacific Islander	Some Other Race	Hispanic	Non-Hispanic
340057048014012	-64	5	-51	0	-3	0	-25	21	-85
340059818021003	1,563	410	823	1	-4	0	257	452	1111
340076019001019	-168	-22	-126	0	0	0	-20	-20	-148
340076103002027	-92	-19	-78	0	7	0	-8	-3	-89
340110101031000	1,715	966	773	14	3	0	-60	229	1486
340110101031002	-1,637	-397	-910	-2	-20	0	-308	-306	-1331
340110205021000	599	-196	-1,031	18	-17	0	1,804	2,085	-1,486
340110205032023	287	17	256	0	-1	0	7	14	273
340130048021001	16	12	9	3	1	0	-15	29	-13
340210006003003	-10	-3	-7	0	0	0	0	-1	-9
340210013003000	24	-21	57	0	0	0	-16	-12	36
340210037082002	11	-2	-95	0	8	0	82	100	-89
340219800001001	-26	152	-185	-3	-17	0	-5	91	-117
340230090001005	-1,221	-220	-779	0	-9	0	-213	-230	-991
340311817021000	210	6	14	1	-1	0	121	205	5
340390399002015	186	19	113	-1	5	0	50	60	126

U.S. Census Bureau 2020 Census Pub.L. 94-171 Redistricting Data and New Jersey P.L.2019, c.385 Reallocated Redistricting Data Tables – the link directly to this file is: https://nj.gov/state/dos-reports-2020-census-report.shtml#

Maps - 36 maps delineating 48 correctional facilities located in the State of New Jersey - the link directly to this file is: https://nj.gov/state/assets/2020-census-data/maps/maps-delineating-nj-correctional-facilities.pdf