



Administrative Records Research and Planning

Presentation to the National Advisory Committee Fall 2017 Meeting

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Administrative Records Research and Planning

Administrative Record Usage

Outline

- Background on administrative record determinations
- Recent research results
- 2018 End-to-End Census Test Nonresponse Followup (NRFU) Contact Strategy with Administrative Records (AR) determination
- Research on additional files to address hard to count populations
 - Census Bureau KIDLINK
 - State-provided data including Supplemental Nutrition Assistance Program (SNAP) participation
- Characteristics for administrative record enumeration and characteristic imputation

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Identifying Administrative Records Occupied Units

Can we reduce contacts for 101 Main Street?

1. Build a roster from administrative record sources
 - Internal Revenue Service Individual Tax Returns 1040
 - Internal Revenue Service Informational Returns
 - Centers for Medicare and Medicaid Services Medicare Enrollment database
 - Indian Health Service Patient Database
2. Check that multiple sources indicate the family lives at an address
3. Use statistical models to evaluate the roster
 - How likely is it that we are counting all of the people rostered in the right place?
 - How likely is it that the household composition of the rostered family matches the Census?
4. Decision for 101 Main Street

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Identifying Vacant and Nonexistent Addresses

Can we determine if 101 Main St is vacant or does not meet our definition of a housing unit?

Example sources:

- United States Postal Service Information
 - USPS Undeliverable-as-Addressed (UAA) reasons for census mailings made around April 1
- Internal Revenue Service (IRS) 1040 filings
- IRS 1099 information returns
- Centers for Medicare and Medicaid Services Medicare Enrollment database
- Indian Health Service Patient database
- Third-party Veterans Service Group of Illinois (VSGI) files

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Results: 2016 Census Test Analysis

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2016 Census Test

Administrative record determination

- Occupied
- Vacant
- Delete

1-in-5 sample of administrative record cases received full fieldwork

- Compare our determinations to fieldwork results
- No address canvassing done before this test

Key findings

- 21 percent of administrative record vacant cases were occupied
- 29 percent of administrative record delete cases were occupied

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Results: 2010 Simulations Analysis

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Administrative Records Determination by Percent Hispanic Population in Block Group

ACS 5-Year Estimate of Percent of Block Group that is Hispanic	2010 NRFU Addresses (millions)	AR Determination (row percent)		
		AR Vacant (%)	AR Occupied (%)	Full Contacts (%)
0 to 10 percent	31.3	11.6	15.9	72.5
10 to 20 percent	6.8	9.4	15.7	74.9
20 to 30 percent	3.6	8.5	14.4	77.1
30 to 40 percent	2.2	7.6	13.3	79.1
40 to 50 percent	1.6	7.5	12.0	80.5
50+ percent	4.2	4.3	9.6	86.1
Total	49.8	10.1	15.0	74.9

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Administrative Records Determination by Percent Non-Hispanic Black Population in Block Group

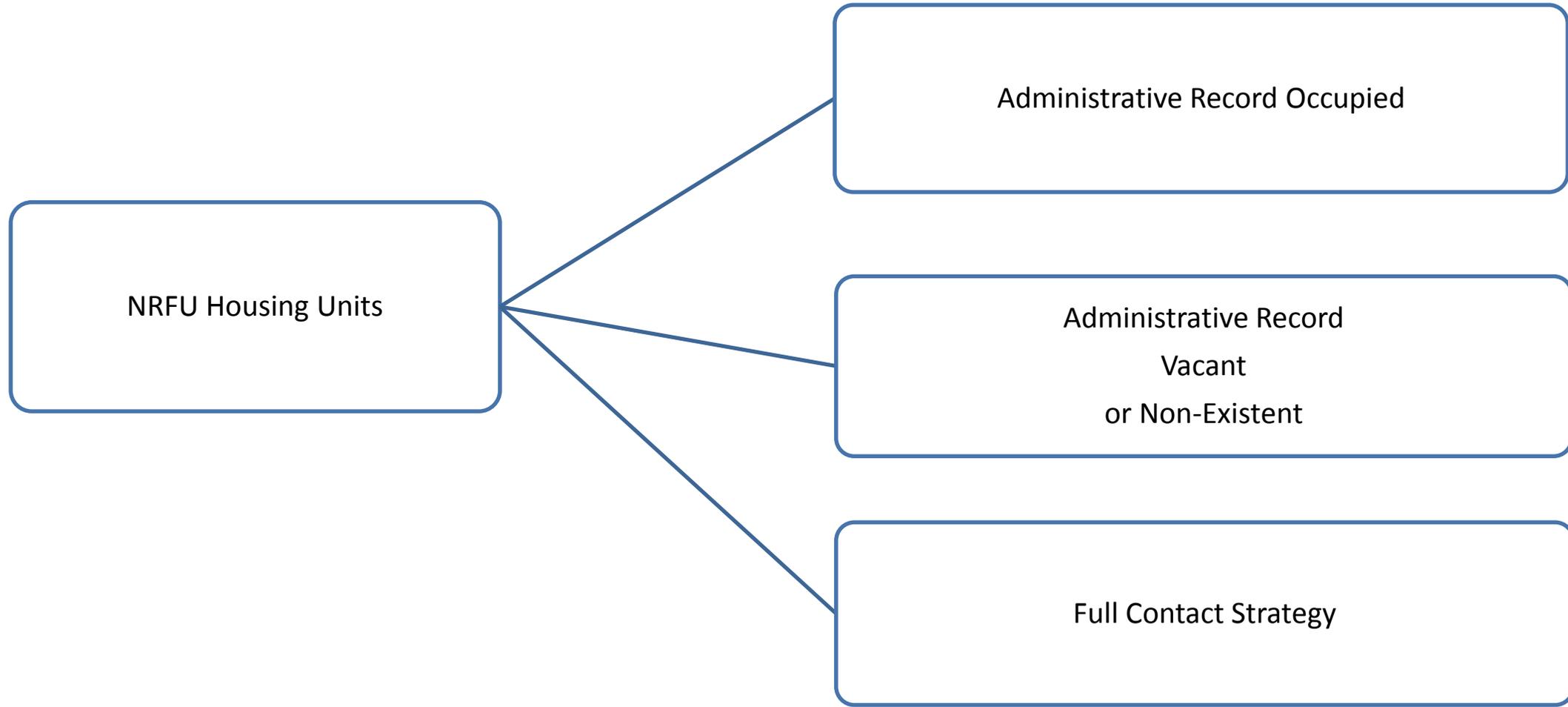
ACS 5-Year Estimate of Percent of Block Group that is Non-Hispanic Black	2010 NRFU Addresses (millions)	AR Determination (row percent)		
		AR Vacant (%)	AR Occupied (%)	Full Contacts (%)
0 to 10 percent	33.6	10.5	16.0	73.5
10 to 20 percent	5.4	8.2	15.6	76.2
20 to 30 percent	2.9	8.1	14.1	77.8
30 to 40 percent	1.8	8.3	13.0	78.7
40 to 50 percent	1.2	8.9	11.9	79.2
50+ percent	4.9	12.1	9.6	78.3
Total	49.8	10.1	15.0	74.9

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Changes to 2018 Contact Strategy

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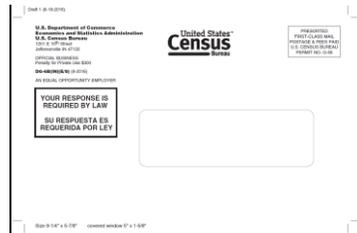
2018 Contact Strategy



2018 Contact Strategy

Administrative Record Occupied

#1 Initial letter



#2 Reminder letter



#3 Reminder postcard



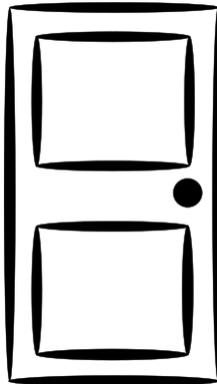
#4 Questionnaire



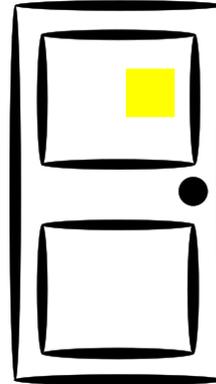
#5 Not too late postcard



#6 One visit by enumerator



#7 Notice of visit left by enumerator



#8 Administrative record postcard about one week after visit



- Administrative record enumeration only used if a self-response is not obtained

2018 Contact Strategy

Administrative Record Vacant or Non-Existent

March 2018							April 2018						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
4	5	6					1	2	3	4	5	6	7
11	12	13					8	9	10	11	12	13	14
18	19	20					15	16	17	18	19	20	21
25	26	27					22	23	24	25	26	27	28
							29	30					

May 2018						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
4	5	6	7	8	9	10
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Use administrative records to determine vacant and nonexistent address (UAA around Census Day)

Send mailing to address about 6 weeks after Census Day

Undeliverable-As-Addressed (UAA)

Administrative record vacant

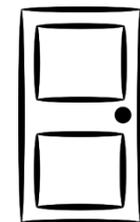
Administrative record nonexistent address

Deliverable

Self-response

Send to fieldwork

VACANT



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Additional Sources

Census Bureau KIDLINK – Definition and Motivation

- Research file created by the Center for Administrative Records Research and Applications (CARRA) at the Census Bureau
 - Different from Social Security Administration (SSA) Kidlink
- Uses parent names from child Social Security Number (SSN) application to assign Protected Identification Key (PIK) for mother and father of child
- Potential undercoverage of children in core AR sources
 - Children appear as dependents on Internal Revenue Service (IRS) 1040 filings
 - Less likely to appear in other core sources

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Additional Sources (Continued)

State Program Data

- Acquiring
 - Supplemental Nutrition Assistance Program (SNAP)
 - Woman, Infants, and Children (WIC)
 - Temporary Assistance for Needy Family (TANF)
 - Alaska Permanent Dividend Fund
- Researching Possible Implementation
 - Add to core sources
 - Use state data as a business rule to identify address at which to conduct complete set of NRFU in-person contacts
 - Use for characteristic imputation

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Characteristics for Administrative Record Enumeration and Characteristic Imputation

Administrative Records Source Possibilities

Age and Sex

- Prior Title 13 responses
- Census Numident

Race and Hispanic Origin

- Prior Title 13 responses
- Country of Origin (Census Numident)
- State Program data
- Census Bureau Best Race and Hispanic Origin file

Relationship to Householder

- Census Bureau KIDLINK file

Tenure

- Housing and Urban Development
- Tax and Deed Information



Questions?