# The Improvement in California's Mail Response Rate in Census 2000 

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## Introduction

A lot of people in California were not counted in the 1990 Census. California had an undercount of 840,000 persons, or about 20 percent of the national undercount of four million persons ${ }^{1}$. California's undercount rate of 2.7 percent, which is the ratio of its undercount to its own population size, was much higher than the national undercount rate of 1.6 percent. Estimates show that this undercount cost California one seat in Congress and federal funding valued at $\$ 2.2$ billion during the decade ${ }^{2}$. Within the state, the undercount was unevenly distributed across counties and population groups. Some groups, such as children and minorities, were missed at higher rates than others. This disparity is referred to as the differential undercount.

In an effort to avoid another large and differential undercount (more persons in minority populations were missed) in Census 2000, Governor Davis authorized an extensive census outreach program and established the California Complete Count Committee. The Legislature appropriated approximately $\$ 25$ million in funds, making California the only state in the nation to approve a census outreach program of this magnitude. In addition to increasing overall awareness of Census 2000 statewide, the campaign addressed the differential undercount problem by targeting groups with high 1990 undercount rates: African Americans, Latinos, Native Americans, Asian Americans or Pacific Islanders, children, males age 18 to 28 , homeless, and migrant and seasonal workers.

The Complete Count Campaign contracted with community organizations to target these local populations. Like the U.S. Census Bureau's paid advertisements, the campaign's main focus was to encourage people to send in their form by mail. However, the campaign targeted undercounted groups in specific local areas in California. For people who needed help filling out the form, the campaign funded questionnaire assistance centers and publicized their locations. These state-funded centers were resources available to people in addition to the questionnaire assistance centers operated by the U.S. Census Bureau. During the period of non-response follow-up, the campaign message was to encourage people to cooperate and "open your door" to U.S. Census Bureau enumerators.

Extensive evaluation of the success of outreach efforts such as the Complete Count Campaign and the U.S. Census Bureau's advertisements in reducing the undercount in Census 2000 will be undertaken when redistricting data are released in March 2001 ${ }^{3}$. In the

[^0]meantime, since the main focus of the outreach was to encourage people to mail in their census form, one way to measure the campaign's effectiveness is to analyze the improvement in mail response between 1990 and 2000. While an improvement in an area's mail response does not always result in a decrease in the undercount, changes in mail response can be used as a general indicator of the level of participation in Census 2000 and of the likely direction of change in the undercount between 1990 and 2000. ${ }^{4}$

## Census 2000 Mail Response in California

In the State of California, the mail response rate rose from 65 percent in the 1990 Census to 70 percent in Census $2000^{5}$. These impressive results were obtained despite widespread expectations of a decline in census participation: the U.S. Census Bureau had projected a Census 2000 mail response rate of only 58 percent in California. California's response rate improved not only in relation to its own response in 1990 but also in relation to the national response. In 1990, California's mail response rate was the same as the national rate of 65 percent; in 2000, its rate of 70 percent was 3 percentage points higher than the national rate of 67 percent. California's 70 percent response was also significantly higher than the rates obtained in other large states: Texas's Census 2000 response rate was 64 percent; Florida and New York's rates were both 63 percent. Moreover, the amount of improvement between 1990 and 2000 in these other large states was 3 percentage points or less. California is one of only five states that met the U.S. Census Bureau's '90 Plus Five challenge to better their 1990 rate by five percentage points or more. ${ }^{6}$ The other four states meeting their target were Massachusetts, Rhode Island, Wyoming and Nevada. Mail response rates for the nation and the 50 states are displayed in Table 1.

To compare mail response between the two decennial censuses, mail response rates for the cities, counties, and census tracts enumerated by mail in 1990 and 2000 are analyzed. Jurisdictions enumerated by mail in both years are referred to as "comparison jurisdictions". In which of these jurisdictions did Census 2000 mail response rates improve? In how many of these jurisdictions did Census 2000 mail response rates meet their '90 Plus Five target? What are the demographic characteristics of these jurisdictions and where are they located?

[^1]Compared with the 1990 census, Census 2000 mail response rates improved or remained the same in areas enumerated by mail in both years for:

- 87 percent of the counties
- 90 percent of the cities
- 84 percent of the census tracts in California

About half of these jurisdictions met or exceeded their '90 Plus Five target rates (Table 2).
To illustrate where jurisdictions with improvements are located, mail response data are displayed in tables and maps. In Table 3, county mail response rates for 1990 and 2000 are sorted first alphabetically by county name, then by the percentage point improvement between censuses, by the 2000 rate, and finally by the 1990 rate. The sort by percentage point improvement (sort \#2) shows the 40 counties with Census 2000 response rates at least as high as their 1990 level and highlights in bold the 20 counties that met or exceeded their '90 Plus Five target rates. The seven counties with the largest percentage point improvements were Stanislaus, Imperial, Madera, Alameda, Orange, Tulare and Yolo. Only six counties had lower response rates in 2000 than in 1990.

Where did Census 2000 mail response rates improve? In many cases, large improvements occurred in areas with low levels of mail response in 1990. Imperial County is a good example of a jurisdiction with a large improvement in mail response ( 9 percentage points), but a relatively low level of response in 1990 ( 51 percent) and 2000 ( 60 percent). Ventura County, on the other hand, had the highest level of mail response in the state in both years, 76 percent, but its mail response rate did not improve in Census 2000.

Maps showing mail response rates are included at both the county level (Map 1) and the tract level (Maps 2 and 3). Areas enumerated by census takers instead of by mail are shown in white and are labeled "Missing Data" in the legend. In Census 2000, more areas in California were enumerated by mail than in the 1990 Census. Areas enumerated by mail for the first time in 2000 tend to have relatively low levels of mail response. Areas shaded in blue had mail response rates of 65 percent or higher while areas with rates less than 65 percent are shaded in gold. It is interesting to compare the maps at the county and the tract level for the same year. The Census 2000 county map, for example, gives the impression that most of the low response is in Northern California (Map 1). The Census 2000 tract map shows a more detailed, complicated picture with low response tracts spread throughout all counties (Map 3). In general, lower response rates are located in rural areas. While all counties were at least partially enumerated by mail in 2000, some areas of the state were still enumerated only by census takers.

Maps 4 and 5 display the difference in mail response rates between 1990 and 2000, by county and tract respectively. The difference in rates was calculated for jurisdictions enumerated by mail in both years. The blue shading shows counties or tracts with Census

2000 response rates at least as high as the 1990 rates. In the dark blue areas, Census 2000 response rates met or exceeded their '90 Plus Five target rates. A quick glance at these difference maps at either the county or the tract level shows a lot of blue - in other words, improvement in mail response between the 1990 Census and Census 2000 was spread widely across the state.

## Characteristics of Census Tracts Showing Improvement in Mail Response

What are the demographic characteristics of tracts showing improvement in mail response? Table 4 shows average characteristics for the following groups of census tracts:

1. All tracts with a non-zero population in 1990
2. Comparison tracts (tracts with response rates in 1990 and 2000)
3. Tracts with a Census 2000 response rate that maintains or improves its 1990 rate
4. Tracts with a Census 2000 response rate that meets its '90 Plus Five target
5. Tracts with a Questionnaire Assistance Center (QAC) funded by the California Complete Count Committee (CCC) ${ }^{7}$

Improvements in mail response occurred, on average, in tracts with larger populations, fewer rural residents, more minority residents, and higher 1990 undercounts. From 1990 to 2000, mail response rates in comparison tracts increased an average of 5 percentage points, from 66 percent in 1990 to 71 percent in 2000. Large improvements in mail response, such as the average 10 percentage point improvement made by tracts that met their ' 90 Plus Five target, occurred in tracts with lower levels of response in 1990. The average 1990 mail response rate for these ' 90 Plus Five tracts was only 61 percent.

The 458 tracts with a Questionnaire Assistance Center (QAC) funded by the State's Complete Count Committee (CCC) had a low average 1990 response rate of 56 percent and increased their response rate in Census 2000 by 8 percentage points. These tracts had high percentages of African Americans, Hispanics, renters, persons living below poverty level and linguistically-isolated households. The tracts with QACs funded by the CCC also had large numbers of persons undercounted in 1990, high undercount rates and were generally hard to count. To quantify this notion of "hard-to-count" and summarize the attributes of census tracts in terms of their enumeration difficulty, the U.S. Census Bureau devised a composite index called the hard-to-count score (HTC), which ranges from 0 to 132. In general, the higher the HTC score, the higher the expected undercount and the lower the expected mail response rate. The HTC scores of tracts with state-funded QACs averaged 67, which is 26 percentage points higher than the average HTC score of 41 across all tracts. Despite their hard-to-count populations, these tracts targeted by the CCC made large improvements in Census 2000 mail response. Map 6 shows the number of state-funded QACs by zip code. Insets provide enlargements for the Los Angeles, San Diego and San Francisco Bay areas.

[^2]In the following sections, large improvements in mail response, measured by the number of tracts that met their '90 Plus Five target, will be examined with respect to these four variables:

- 1990 Net Undercount
- Race/Ethnicity
- Hard-to-Count Score
- Urban/Rural Population


## 1990 Net Undercount and Large Improvements in Mail Response

What is the improvement in mail response for counties and cities with a high 1990 net undercount? In 1990, areas with a high undercount often had low mail response rates. Among the counties and cities with the highest numbers of persons undercounted in the 1990 census (Table 5), only the City of Sacramento did not improve its mail response rate in Census 2000. The largest improvement at the county level, 7 percentage points, was attained in Alameda and Orange counties. Improvements of 11 percentage points or more were realized by the cities of Santa Ana, Inglewood, Anaheim, Compton, El Monte, Hawthorne, and Lynwood. Seven of the ten counties with the highest undercount and 28 of the 35 cities with the highest undercount met or exceeded their '90 Plus Five target rates (Table 5).

At the census tract level, how does improvement in mail response vary with respect to the 1990 net undercount? In Census 2000, 53 percent of California's comparison tracts met their '90 Plus Five target rates (Table 6). If comparison tracts are sorted by the number of persons undercounted in 1990 and then divided into quartiles (4 equal groups of 1,346 tracts each), the following percentages of tracts met their target in Census 2000:

- 4th quartile: 74 percent (of the 1,346 tracts with the highest undercount in 1990)
- 3rd quartile: 59 percent
- 2nd quartile: 47 percent
- 1st quartile: 32 percent (of the 1,346 tracts with the lowest undercount in 1990)

A higher percentage of tracts in each quartile met their target in Census 2000 mail response as the number of undercounted persons per tract increases. In general, the higher the undercount in 1990, the greater the improvement in Census 2000 mail response rates.

Although the largest percentage of tracts meeting their target is among tracts with the highest undercount in 1990 ( 74 percent), these tracts generally had significantly lower mail response than tracts with a low 1990 undercount. For tracts with the highest undercount, the improvement runs more than 7 percentage points, raising the average mail response rate from 58 percent in 1990 to 65 percent in 2000 (Table 6). This is a large improvement, but 65 percent is still 12 percentage points lower than the 77 percent average rate in Census 2000 for the tracts with the lowest undercount. Graph 1 clearly illustrates the pattern for Table 6:

As the number of undercounted persons per tract increases from the $1^{\text {st }}$ to the $4^{\text {th }}$ quartile, there is more improvement, but lower average levels of mail response.

Maps 7 to 12 show the spatial relationship between 1990 undercount data and improvement in mail response. An overview of the location of undercounted persons in 1990 across California is provided in Map 7. The location of comparison tracts in each undercount quartile is shown in Map 8. To isolate the difference in mail response rates for comparison tracts with the highest undercount, maps 9 to 12 shade only the 4th quartile tracts. Map 9 shows the difference in mail response rates for all 4th quartile tracts in the state. Maps 10 to 12 give a more detailed view of Southern California and the San Francisco Bay Area. The striking feature in all these difference maps for the 4th undercount quartile is the large number of blue census tracts, indicating widespread improvement in mail response between the 1990 Census and Census 2000. By and large, most tracts with high numbers of undercounted persons in 1990 show large improvements in mail response between 1990 and 2000.

Table 7 examines mail response in the 250 comparison tracts with the highest numbers of people in various groups, such as the number of persons undercounted in 1990, race/ethnic categories, and rural tracts. Among the 250 tracts with the highest undercount in 1990, 84 percent have 2000 mail response rates that met or exceeded their '90 Plus Five target rates. The average improvement in response rates is about 10 percentage points, from 54 percent in 1990 to 64 percent in 2000.

## Race/Ethnicity and Large Improvements in Mail Response

Tracts with large numbers of minority residents registered substantial improvements in mail response in Census 2000, and most met their '90 Plus Five target rates. After sorting comparison tracts by the number of persons in each race/ethnic group, the 250 tracts with the largest number of people in each group were selected (Table 7). Out of the top 250 tracts in each group, the percentage that met their '90 Plus Five target ranged from 50 percent to 85 percent. These percentages are quite high considering only about half of all tracts across the state met their target (Table 1 and Table 5).

The percentage of tracts meeting their '90 Plus Five target varied across race/ethnic groups:

- High percentages of tracts with predominantly Hispanic or African American populations met their target rates. Among the 250 tracts with the largest African American populations in 1990, 85 percent met their target. Similarly, 82 percent of the 250 tracts with the largest Hispanic populations met their target.
- For the 250 tracts with large Asian or Pacific Islander populations, the percentage that met their '90 Plus Five target was 66 percent, lower than the percentages for Hispanics and for African Americans but still higher than the statewide percentage of 50 percent.
- The two groups showing the least improvement were Whites ${ }^{8}$ and American Indians. Sixty-two percent of the 250 tracts with the largest White populations met their target rate while only 58 percent of the 250 tracts with the largest American Indian, Eskimo or Aleut populations met their target rate.

In addition to meeting their target, predominantly African American or Hispanic tracts also had high percentage point gains in mail response between the two censuses. In the top 250 tracts for each group, African Americans and Hispanics both increased their mail response rates by about 10 percentage points between 1990 and 2000. African Americans, however, started from a lower level of 1990 average response ( 53 percent) than Hispanics ( 59 percent). The tracts with large Asian and Pacific Islander populations improved their mail response rates by an average of seven percentage points.

In terms of the average level of mail response in Census 2000, tracts with large numbers of Whites or Asians have noticeably higher average mail response rates, at almost 75 percent, than tracts with large number of American Indians ( 65 percent) or especially African Americans ( 62 percent). For tracts with large numbers of Hispanics, the average level of mail response improved to almost 70 percent in Census 2000.

## The Hard-to-Count Score and Large Improvements in Mail Response

The hard-to-count score (HTC) summarizes attributes of each tract in terms of enumeration difficulty. Variables correlated with mail non-response and undercounting are used to derive the HTC. ${ }^{9}$ Tract-level data show success in raising Census 2000 response rates in hard-tocount tracts (Table 8). When tracts are grouped by their 1990 hard-to-count score, the percentage meeting their ' 90 Plus Five target increases as their hard-to-count score increases.

- Hard to Count: HTC $>=70 \quad 72$ percent met their '90 Plus Five target
- Moderately difficult: $30<=$ HTC $<70$
- Easier to Count: HTC $<30 \quad 37$ percent met their '90 Plus Five target

This general pattern of large mail response improvements in hard-to-count tracts is also found when individual counties are examined. In the county of Los Angeles, for example, an overwhelming 79 percent of hard-to-count tracts met their '90 Plus Five target (Table 8).

As in the case of the undercount quartiles, the average improvement in mail response between HTC groups increases as tracts become harder to count. Mail response rates in easier-to-count tracts improved only 3 percentage points but increased 8 percentage points in hard-to-count tracts. In terms of response level, easier-to-count tracts have an average

[^3]Census 2000 mail response of 77 percent, about 16 percentage points higher than the average 61 percent response for hard-to-count tracts in Census 2000.

## Urban/Rural Population and Large Improvements in Mail Response

Rural tracts show less improvement and low average levels of mail response compared with the other groups considered (Table 7). Fifty percent of the 250 comparison tracts with the largest numbers of rural residents met their '90 Plus Five target rate in Census 2000, just below the 53 percent overall percentage improvement among the state's comparison tracts. The average level of mail response in rural tracts is low-62 percent in Census 2000-and rural tracts registered the smallest improvement-only 4 percentage points-of all the groups in Table 7. Results for rural tracts should be interpreted with caution, however, as many rural tracts were not enumerated by mail in either 1990 or 2000 and were omitted from the analysis. Most tracts enumerated by mail for the first time in Census 2000 are rural. Thus, the average levels for Census 2000 mail response reported here may not accurately reflect the mail response of all rural tracts. Maps 1 and 3, which display Census 2000 mail response rates by county and by tract, show that response rates in rural areas were often lower than 65 percent (yellow) and in many cases lower than 58 percent (gold).

## Summary

Despite expectations of decline in census participation, California's mail response rate showed significant improvement in Census 2000. The final response rate was 70 percent, an increase of five percentage points since 1990. These gains were spread widely across the state. In nearly 90 percent of the counties, cities and tracts with mail response data in both years, mail response rates were at least as high in Census 2000 as they were in 1990. Large improvements in response were also realized: about half of these jurisdictions met their '90 Plus Five target for mail response. Improvements in mail response occurred, on average, in census tracts with urban populations, more minority residents, and higher 1990 undercounts. Large improvements in mail response tended to occur in tracts with relatively low levels of response in 1990.

This analysis looked in detail at Census 2000 mail response in tracts with high concentrations of the following groups in 1990: undercounted persons, major race and ethnic groups, hard-to-count tracts, and rural residents. The categories showing the most success in improving mail response were tracts with high 1990 undercounts, large African American or Hispanic populations, and high hard-to-count scores. These groups showed large improvements in mail response between censuses, but had relatively low average rates compared with other groups. The percentages of tracts with high concentrations of Asians or Whites (not of Hispanic Origin) that improved mail response was also considerable, but perhaps more striking was their high average levels of response. Tracts with large numbers of rural residents, on the other hand, showed less improvement as well as low average levels of response compared with other groups.

Census 2000 mail response rates provide preliminary evidence of a successful outreach effort by the California Complete Count Committee. Tracts with questionnaire assistance centers funded by the Complete Count Committee had populations that were hard to count in 1990, including high proportions of African Americans, Hispanics, renters, persons below poverty level and linguistically isolated households. These tracts improved their mail response rate by an impressive 8 percentage points in Census 2000, which hopefully will mean a lower undercount in Census 2000 than they had in the 1990 Census.

Table 1: Final Mail Response Rates for States Sorted by Improvement between 1990 and 2000

|  | $\begin{gathered} \text { Census } 2000 \\ \text { Final Mail } \\ \text { Response Rate } \\ \text { (percent) } \\ \hline \end{gathered}$ | ' 90 Plus Five <br> Target Rate (percent) | 1990 Final Mail Response Rate (percent) | Improvement between 1990 and 2000 <br> (percentage points) | Rank |
| :---: | :---: | :---: | :---: | :---: | :---: |
| National | 67 | 70 | 65 | 2 |  |
| -- California | 70 | 70 | 65 | 5 | 1 |
| -- Massachusetts | 69 | 69 | 64 | 5 | 2 |
| -- Rhode Island | 67 | 67 | 62 | 5 | 3 |
| -- Wyoming | 66 | 66 | 61 | 5 | 4 |
| -- Nevada | 66 | 66 | 61 | 5 | 5 |
| -- Connecticut | 70 | 71 | 66 | 4 | 6 |
| -- New Hampshire | 67 | 68 | 63 | 4 | 7 |
| -- Alaska | 56 | 57 | 52 | 4 | 8 |
| -- Colorado | 70 | 72 | 67 | 3 | 9 |
| -- New Jersey | 68 | 70 | 65 | 3 | 10 |
| -- Texas | 64 | 66 | 61 | 3 | 11 |
| -- Maine | 61 | 63 | 58 | 3 | 12 |
| -- Virginia | 72 | 75 | 70 | 2 | 13 |
| -- Georgia | 65 | 68 | 63 | 2 | 14 |
| -- Florida | 63 | 66 | 61 | 2 | 15 |
| -- Louisiana | 60 | 63 | 58 | 2 | 16 |
| -- Nebraska | 75 | 79 | 74 | 1 | 17 |
| -- Illinois | 69 | 73 | 68 | 1 | 18 |
| -- Montana | 68 | 72 | 67 | 1 | 19 |
| -- Utah | 68 | 72 | 67 | 1 | 20 |
| -- Oregon | 68 | 72 | 67 | 1 | 21 |
| -- Oklahoma | 64 | 68 | 63 | 1 | 22 |
| -- North Carolina | 64 | 68 | 63 | 1 | 23 |
| -- New York | 63 | 67 | 62 | 1 | 24 |
| -- Arizona | 63 | 67 | 62 | 1 | 25 |
| -- Mississippi | 63 | 67 | 62 | 1 | 26 |
| -- South Carolina | 59 | 63 | 58 | 1 | 27 |
| -- lowa | 76 | 81 | 76 | 0 | 28 |
| -- South Dakota | 74 | 79 | 74 | 0 | 29 |
| -- North Dakota | 72 | 77 | 72 | 0 | 30 |
| -- Missouri | 69 | 74 | 69 | 0 | 31 |
| -- Tennessee | 65 | 70 | 65 | 0 | 32 |
| -- New Mexico | 62 | 67 | 62 | 0 | 33 |
| -- Minnesota | 75 | 81 | 76 | -1 | 34 |
| -- Michigan | 71 | 77 | 72 | -1 | 35 |
| -- Kansas | 71 | 77 | 72 | -1 | 36 |
| -- Maryland | 69 | 75 | 70 | -1 | 37 |
| -- Washington | 66 | 72 | 67 | -1 | 38 |
| -- Arkansas | 64 | 70 | 65 | -1 | 39 |
| -- West Virginia | 64 | 70 | 65 | -1 | 40 |
| -- Alabama | 61 | 67 | 62 | -1 | 41 |
| -- Wisconsin | 75 | 82 | 77 | -2 | 42 |
| -- Hawaii | 60 | 67 | 62 | -2 | 43 |
| -- Ohio | 72 | 80 | 75 | -3 | 44 |
| -- Pennsylvania | 70 | 78 | 73 | -3 | 45 |
| -- Indiana | 69 | 77 | 72 | -3 | 46 |
| -- Idaho | 67 | 75 | 70 | -3 | 47 |
| -- Kentucky | 66 | 74 | 69 | -3 | 48 |
| -- Vermont | 61 | 69 | 64 | -3 | 49 |
| -- Delaware | 63 | 73 | 68 | -5 | 50 |

[^4]DATA SOURCE: Census 2000 Final Mail Response Rates for Interim Census Tracts, updated September 19, 2000 on the internet: http://www.census.gov/. Census 2000 data include responses received as of September 7, 2000. 1990 response rates are from 1990 Data for Census 2000 Planning ("Planning Database"), US Census Bureau, November 18, 1999.

Table 2: Improvement in Mail Response Across California Jurisdictions between 1990 and Census 2000

## JURISDICTIONS THAT MAINTAIN OR IMPROVE THEIR 1990 MAIL RESPONSE RATE IN CENSUS 2000

|  | all jurisdictions | comparison jurisdictions** | Jurisdistions with a Census 2000 mail response rate that maintains or improves the 1990 rate | Jurisdictions that "maintain or improve" as a percentage of all jurisdictions | Jurisdictions that "maintain or improve" as a percentage of comparison jurisdictions |
| :---: | :---: | :---: | :---: | :---: | :---: |
| county | 58 | 46 | 40 | 69\% | 87\% |
| city | 471 | 423 | 379 | 80\% | 90\% |
| census tract* | 5,642 | 5,384 | 4,536 | 80\% | 84\% |

## JURISDICTIONS THAT MEET THEIR '90 PLUS FIVE TARGET IN CENSUS 2000

|  | all jurisdictions | comparison jurisdictions** | Jurisdistions that meet their ' 90 Plus Five target |
| :---: | :---: | :---: | :---: |
| county | 58 | 46 | 20 |
| city | 471 | 423 | 239 |
| census tract* | 5,642 | 5,384 | 2,850 |


| Jurisdictions that <br> meet their target as a <br> percentage of all <br> jurisdictions | Jurisdictions that meet <br> their target as a <br> percentage of |
| :---: | :---: |
| $34 \%$ | $\frac{\text { comparison jurisdictions }}{}$ |
| $51 \%$ | $53 \%$ |
| $51 \%$ | $57 \%$ |
|  | $53 \%$ |

* Census tracts with zero population in 1990 are omitted. Of the 5,858 tracts in California, 5,642 tracts had at least 1 resident in 1990.
* Comparison jurisdictions are those that had a mail response rate in both 1990 and 2000. Jurisdictions with a mail response rate in only one year, or in neither year, are omitted from the analysis. In California, 45 tracts had a rate in 1990 but none in 2000; 164 tracts had a rate in 2000 but none in 1990; 265 tracts did not have a rate in either year. In total, 474 tracts are omitted, leaving 5384 comparison tracts, or 95 percent (=5384/5642) of populated tracts.

DATA SOURCE: 1990 Data for Census 2000 Planning (the "Planning Database"), US Census Bureau, November 18, 1999;
Census 2000 Final Mail Response Rates for Interim Census Tracts, updated September 19, 2000 on the internet: http://www.census.gov/
Census 2000 data include responses received as of September 7, 2000.

Table 3: Improvement in Mail Response for California Counties
Sorted by County, by Improvement, by Census 2000 Rate and by 1990 Rate

| County | sort \#1 |  |  | County | sort \#2 |  |  |  | County | sort \#3 |  |  | County | sort \#4 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Sort by County Name |  |  |  | Sort by Improvement trom 1990 to 2000 |  |  |  |  | Sort by Census 2000 rate |  |  |  | Sort by 1990 rate |  |  |
|  | 1990 | $\begin{aligned} & \hline \text { 7-Sep } \\ & 2000 \end{aligned}$ | Improvement 1990 to 2000 |  | 1990 | $\begin{aligned} & \hline \text { 7-Sep } \\ & 2000 \\ & \hline \end{aligned}$ | Improveme 1990 to 2000 |  |  | 1990 | $\begin{aligned} & \hline \text { 7-Sep } \\ & 2000 \end{aligned}$ | Improvement |  | 1990 | $\begin{gathered} \hline \text { 7-Sep } \\ 2000 \end{gathered}$ | Improvement 1990 to 2000 |
| California | 65 | 70 | 5 | California | 65 | 70 | 5 |  | California | 65 | 70 | 5 | California | 65 | 70 | 5 |
| Alameda | 65 | 72 | 7 | Stanislaus | 64 | 74 | 10 | 1 | Orange | 69 | 76 | 7 | Ventura | 76 | 76 | 0 |
| Alpine | NA | 54 | NA | Imperial | 51 | 60 | 9 | 2 | Ventura | 76 | 76 | 0 | Contra Costa | 71 | 75 | 4 |
| Amador | NA | 66 | NA | Madera | 60 | 68 | 8 | 3 | Contra Costa | 71 | 75 | 4 | Marin | 71 | 73 | 2 |
| Butte | 63 | 66 | 3 | Alameda | 65 | 72 | 7 | 4 | San Mateo | 70 | 75 | 5 | Santa Clara | 71 | 75 | 4 |
| Calaveras | NA | 56 | NA | Orange | 69 | 76 | 7 | 5 | Santa Clara | 71 | 75 | 4 | Napa | 70 | 72 | 2 |
| Colusa | 58 | 64 | 6 | Tulare | 60 | 67 | 7 | 6 | Stanislaus | 64 | 74 | 10 | San Mateo | 70 | 75 | 5 |
| Contra Costa | 71 | 75 | 4 | Yolo | 67 | 74 | 7 | 7 | Yolo | 67 | 74 | 7 | Orange | 69 | 76 | 7 |
| Del Norte | NA | 57 | NA | Colusa | 58 | 64 | 6 | 8 | Marin | 71 | 73 | 2 | Santa Barbara | 69 | 71 | 2 |
| El Dorado | 66 | 61 | -5 | Fresno | 63 | 69 | 6 | 9 | San Diego | 68 | 73 | 5 | Placer | 68 | 67 | -1 |
| Fresno | 63 | 69 | 6 | Kern | 60 | 66 | 6 | 10 | Alameda | 65 | 72 | 7 | San Diego | 68 | 73 | 5 |
| Glenn | 62 | 65 | 3 | Los Angeles | 64 | 70 | 6 | 11 | Napa | 70 | 72 | 2 | San Luis Obispo | 68 | 66 | -2 |
| Humboldt | 66 | 65 | -1 | Monterey | 62 | 68 | 6 | 12 | Solano | 67 | 72 | 5 | San Benito | 67 | 69 | 2 |
| Imperial | 51 | 60 | 9 | Riverside | 59 | 65 | 6 | 13 | Santa Barbara | 69 | 71 | 2 | Solano | 67 | 72 | 5 |
| Inyo | 66 | 66 | 0 | Kings | 62 | 67 | 5 | 14 | Sonoma | 67 | 71 | 4 | Sonoma | 67 | 71 | 4 |
| Kern | 60 | 66 | 6 | San Bernardin | 63 | 68 | 5 | 15 | Los Angeles | 64 | 70 | 6 | Yolo | 67 | 74 | 7 |
| Kings | 62 | 67 | 5 | San Diego | 68 | 73 | 5 | 16 | Merced | 66 | 70 | 4 | El Dorado | 66 | 61 | -5 |
| Lake | 46 | 50 | 4 | San Joaquin | 64 | 69 | 5 | 17 | Sutter | 65 | 70 | 5 | Humboldt | 66 | 65 | -1 |
| Lassen | NA | 53 | NA | San Mateo | 70 | 75 | 5 | 18 | Fresno | 63 | 69 | 6 | Inyo | 66 | 66 | 0 |
| Los Angeles | 64 | 70 | 6 | Solano | 67 | 72 | 5 | 19 | San Benito | 67 | 69 | 2 | Merced | 66 | 70 | 4 |
| Madera | 60 | 68 | 8 | Sutter | 65 | 70 | 5 | 20 | San Joaquin | 64 | 69 | 5 | Sacramento | 66 | 67 | 1 |
| Marin | 71 | 73 | 2 | Contra Costa | 71 | 75 | 4 | 21 | Shasta | 65 | 69 | 4 | Alameda | 65 | 72 | 7 |
| Mariposa | NA | 60 | NA | Lake | 46 | 50 | 4 | 22 | Madera | 60 | 68 | 8 | Santa Cruz | 65 | 67 | 2 |
| Mendocino | 59 | 59 | - | Merced | 66 | 70 | 4 | 23 | Monterey | 62 | 68 | 6 | Shasta | 65 | 69 | 4 |
| Merced | 66 | 70 | 4 | San Francisco | 64 | 68 | 4 | 24 | San Bernardino | 63 | 68 | 5 | Sutter | 65 | 70 | 5 |
| Modoc | NA | 54 | NA | Santa Clara | 71 | 75 | 4 | 25 | San Francisco | 64 | 68 | 4 | Los Angeles | 64 | 70 | 6 |
| Mono | NA | 31 | NA | Shasta | 65 | 69 | 4 | 26 | Kings | 62 | 67 | 5 | Nevada | 64 | 55 | -9 |
| Monterey | 62 | 68 | 6 | Sonoma | 67 | 71 | 4 | 27 | Placer | 68 | 67 | -1 | San Francisco | 64 | 68 | 4 |
| Napa | 70 | 72 | 2 | Tehama | 60 | 64 | 4 | 28 | Sacramento | 66 | 67 | 1 | San Joaquin | 64 | 69 | 5 |
| Nevada | 64 | 55 | -9 | Yuba | 58 | 62 | 4 | 29 | Santa Cruz | 65 | 67 | 2 | Stanislaus | 64 | 74 | 10 |
| Orange | 69 | 76 | 7 | Butte | 63 | 66 | 3 | 30 | Tulare | 60 | 67 | 7 | Butte | 63 | 66 | 3 |
| Placer | 68 | 67 | -1 | Glenn | 62 | 65 | 3 | 31 | Amador | NA | 66 | NA | Fresno | 63 | 69 | 6 |
| Plumas | NA | 48 | NA | Marin | 71 | 73 | 2 | 32 | Butte | 63 | 66 | 3 | San Bernardino | 63 | 68 | 5 |
| Riverside | 59 | 65 | 6 | Napa | 70 | 72 | 2 | 33 | Inyo | 66 | 66 | 0 | Glenn | 62 | 65 | 3 |
| Sacramento | 66 | 67 | 1 | San Benito | 67 | 69 | 2 | 34 | Kern | 60 | 66 | 6 | Kings | 62 | 67 | 5 |
| San Benito | 67 | 69 | 2 | Santa Barbara | 69 | 71 | 2 | 35 | San Luis Obispo | 68 | 66 | -2 | Monterey | 62 | 68 | 6 |
| San Bernardino | 63 | 68 | 5 | Santa Cruz | 65 | 67 | 2 | 36 | Glenn | 62 | 65 | 3 | Kern | 60 | 66 | 6 |
| San Diego | 68 | 73 | 5 | Sacramento | 66 | 67 | 1 | 37 | Humboldt | 66 | 65 | -1 | Madera | 60 | 68 | 8 |
| San Francisco | 64 | 68 | 4 | Inyo | 66 | 66 | 0 | 38 | Riverside | 59 | 65 | 6 | Tehama | 60 | 64 | 4 |
| San Joaquin | 64 | 69 | 5 | Mendocino | 59 | 59 | 0 | 39 | Colusa | 58 | 64 | 6 | Tulare | 60 | 67 | 7 |
| San Luis Obispo | 68 | 66 | -2 | Ventura | 76 | 76 | 0 | 40 | Tehama | 60 | 64 | 4 | Mendocino | 59 | 59 | 0 |
| San Mateo | 70 | 75 | 5 | Humboldt | 66 | 65 | -1 | 41 | Yuba | 58 | 62 | 4 | Riverside | 59 | 65 | 6 |
| Santa Barbara | 69 | 71 | 2 | Placer | 68 | 67 | -1 | 42 | El Dorado | 66 | 61 | -5 | Tuolumne | 59 | 53 | -6 |
| Santa Clara | 71 | 75 | 4 | San Luis Obispo | 68 | 66 | -2 | 43 | Imperial | 51 | 60 | 9 | Colusa | 58 | 64 | 6 |
| Santa Cruz | 65 | 67 | 2 | El Dorado | 66 | 61 | -5 | 44 | Mariposa | NA | 60 | NA | Yuba | 58 | 62 | 4 |
| Shasta | 65 | 69 | 4 | Tuolumne | 59 | 53 | -6 | 45 | Mendocino | 59 | 59 | 0 | Imperial | 51 | 60 | 9 |
| Sierra | NA | 50 | NA | Nevada | 64 | 55 | -9 | 46 | Del Norte | NA | 57 | NA | Lake | 46 | 50 | 4 |
| Siskiyou | NA | 56 | NA | Alpine | NA | 54 | NA | 47 | Calaveras | NA | 56 | NA | Alpine | NA | 54 | NA |
| Solano | 67 | 72 | 5 | Amador | NA | 66 | NA | 48 | Siskiyou | NA | 56 | NA | Amador | NA | 66 | NA |
| Sonoma | 67 | 71 | 4 | Calaveras | NA | 56 | NA | 49 | Nevada | 64 | 55 | -9 | Calaveras | NA | 56 | NA |
| Stanislaus | 64 | 74 | 10 | Del Norte | NA | 57 | NA | 50 | Alpine | NA | 54 | NA | Del Norte | NA | 57 | NA |
| Sutter | 65 | 70 | 5 | Lassen | NA | 53 | NA | 51 | Modoc | NA | 54 | NA | Lassen | NA | 53 | NA |
| Tehama | 60 | 64 | 4 | Mariposa | NA | 60 | NA | 52 | Trinity | NA | 54 | NA | Mariposa | NA | 60 | NA |
| Trinity | NA | 54 | NA | Modoc | NA | 54 | NA | 53 | Lassen | NA | 53 | NA | Modoc | NA | 54 | NA |
| Tulare | 60 | 67 | 7 | Mono | NA | 31 | NA | 54 | Tuolumne | 59 | 53 | -6 | Mono | NA | 31 | NA |
| Tuolumne | 59 | 53 | -6 | Plumas | NA | 48 | NA | 55 | Lake | 46 | 50 | 4 | Plumas | NA | 48 | NA |
| Ventura | 76 | 76 | 0 | Sierra | NA | 50 | NA | 56 | Sierra | NA | 50 | NA | Sierra | NA | 50 | NA |
| Yolo | 67 | 74 | 7 | Siskiyou | NA | 56 | NA | 57 | Plumas | NA | 48 | NA | Siskiyou | NA | 56 | NA |
| Yuba | 58 | 62 | 4 | Trinity | NA | 54 | NA | 58 | Mono | NA | 31 | NA | Trinity | NA | 54 | NA |


1990 Mail Response Rates are from 1990 Data for Census 2000 Planning (the "Planning Database"), US Census Bureau, November 18, 1999.

Table 4: Average Characteristics of Selected Census Tracts


NA: Not Available

* Census tracts with zero population in 1990 are excluded. Of the 5,858 tracts in California, 5,642 had at least 1 resident in 1990. The Planning Database excluded data for some tracts. The total number of tracts analyzed for the following variables is:
HTC $(5,597)$, Rural $(5,624)$, Poverty $(5,474)$, Linguistic Isolation $(5,474)$.
** Not of Hispanic Origin
DATA SOURCE: Census 2000 Final Mail Response Rates were posted at http://www.census.gov/ on September 19, 2000 and include responses as of September 7, 2000 .
Race and ethnicity data are from the 1990 Census of Population and Housing, Public Law 94-171, Summary Tape File 1A.
All other variables are from 1990 Data for Census 2000 Planning (the "Planning Database" File), US Census Bureau, November 18, 1999.

Table 5
Improvement in Mail Response for California Counties and Cities with a High 1990 Net Undercount

|  |  | 1990 Mail <br> Response Rate (percent) | Final Mail <br> Response Rate 9/7/2000 (percent) | Improvement 1990 to 2000 (percentage point) | 1990 <br> Undercount Rate (percent) | 1990 Net Undercount |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Counties with a 1990 Net Undercount of more than 20,000 Persons |  |  |  |  |  |  |
| 1 | -- Los Angeles County | 64 | 70 | 6 | 3.3 | 305,772 |
| 2 | -- San Diego County | 68 | 73 | 5 | 2.4 | 62,536 |
| 3 | -- Orange County | 69 | 76 | 7 | 2.1 | 50,841 |
| 4 | -- Alameda County | 65 | 72 | 7 | 2.9 | 38,080 |
| 5 | -- San Bernardino County | 63 | 68 | 5 | 2.6 | 37,270 |
| 6 | -- Santa Clara County | 71 | 75 | 4 | 2.2 | 33,824 |
| 7 | -- Riverside County | 59 | 65 | 6 | 2.4 | 28,763 |
| 8 | -- Fresno County | 63 | 69 | 6 | 3.6 | 24,692 |
| 9 | -- Sacramento County | 66 | 67 | 1 | 2.3 | 24,027 |
| 10 | -- San Francisco County | 64 | 68 | 4 | 2.9 | 21,621 |

## Cities with a 1990 Net Undercount of more than 3,000 Persons

| -- Los Angeles city | 60 | 64 | 4 | 3.8 | 138,821 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| -- San Diego city | 67 | 73 | 6 | 2.8 | 32,513 |
| -- San Francisco city | 64 | 68 | 4 | 2.9 | 21,621 |
| -- Oakland city | 57 | 65 | 8 | 4.9 | 19,316 |
| -- San Jose city | 69 | 74 | 5 | 2.4 | 19,077 |
| -- Long Beach city | 63 | 69 | 6 | 3.7 | 16,510 |
| -- Fresno city | 63 | 68 | 5 | 3.4 | 12,317 |
| -- Santa Ana city | 61 | 75 | 14 | 3.9 | 12,076 |
| -- Sacramento city | 64 | 55 | -9 | 3.0 | 11,393 |
| -- Stockton city | 62 | 66 | 4 | 3.4 | 7,428 |
| -- Inglewood city | 53 | 66 | 13 | 6.3 | 7,386 |
| -- Anaheim city | 64 | 75 | 11 | 2.7 | 7,323 |
| -- Riverside city | 64 | 72 | 8 | 2.6 | 6,121 |
| -- San Bernardino city | 59 | 62 | 3 | 3.6 | 6,088 |
| -- Compton city | 49 | 65 | 16 | 6.2 | 6,023 |
| -- Pomona city | 62 | 72 | 10 | 3.9 | 5,396 |
| -- Oxnard city | 69 | 74 | 5 | 3.4 | 4,956 |
| -- Pasadena city | 68 | 73 | 5 | 3.5 | 4,831 |
| -- Bakersfield city | 62 | 68 | 6 | 2.6 | 4,582 |
| -- El Monte city | 61 | 75 | 14 | 4.1 | 4,581 |
| -- Glendale city | 70 | 76 | 6 | 2.4 | 4,472 |
| -- Ontario city | 61 | 71 | 10 | 3.1 | 4,290 |
| -- Modesto city | 65 | 75 | 10 | 2.4 | 4,122 |
| -- Richmond city | 59 | 67 | 8 | 4.5 | 4,104 |
| -- Salinas city | 69 | 71 | 2 | 3.5 | 3,946 |
| -- Berkeley city | 65 | 70 | 5 | 3.7 | 3,912 |
| -- Hawthorne city | 55 | 67 | 12 | 5.2 | 3,901 |
| -- South Gate city | 69 | 75 | 6 | 4.1 | 3,671 |
| -- Chula Vista city | 71 | 75 | 4 | 2.6 | 3,554 |
| -- Lynwood city | 59 | 71 | 12 | 5.3 | 3,469 |
| -- Garden Grove city | 70 | 78 | 8 | 2.3 | 3,363 |
| -- Oceanside city | 66 | 72 | 6 | 2.5 | 3,313 |
| -- Hayward city | 64 | 72 | 8 | 2.8 | 3,221 |
| -- Moreno Valley city | 60 | 70 | 10 | 2.6 | 3,143 |
| -- Huntington Beach city | 70 | 77 | 7 | 1.7 | 3,119 |
| California | 65 | 70 | 5 | 2.7 | 837,557 |

Jurisdictions that met their '90 Plus Five target rate are highlighted in bold.
DATA SOURCE: Census 2000 Final Mail Response Rates for Interim Census Tracts, updated September 19, 2000 on the internet: http://www.census.gov/. Census 2000 data include responses received as of September 7, 2000. 1990 Response Rates are from 1990 Data for Census 2000 Planning ("Planning Database"), US Census Bureau, November 18, 1999.

## Table 6: Mail Response Rates by 1990 Net Undercount Quartiles

|  | Number of Comparison Tracts | Number of tracts with a Census 2000 mail response rate that meets its '90 Plus Five Target | Tracts meeting their target as a percentage of comparison tracts | Average level of mail response for tracts in each quartile |  | Improvement 1990 to 2000 (percentage point) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 1990 | $\underline{2000}$ |  |
| 4th quartile (tracts with the highest 1990 undercount) | 1,346 | 991 | 74\% | 58\% | 65\% | 7 |
| 3rd quartile | 1,346 | 795 | 59\% | 63\% | 69\% | 6 |
| 2nd quartile | 1,346 | 635 | 47\% | 68\% | 73\% | 5 |
| 1st quartile (tracts with the lowest 1990 undercount) | 1,346 | 429 | 32\% | 74\% | 76\% | 2 |
| California | 5,384 | 2,850 | 53\% | 65.7\% | 70.7\% | 5 |

DATA SOURCE: Census 2000 Final Mail Response Rates for Interim Census Tracts,
updated September 19, 2000 on the internet: http://www.census.gov/. Census 2000 data include responses received as of September 7, 2000
1990 mail response rates and undercount data are from 1990 Data for Census 2000 Planning (the "Planning Database"), US Census Bureau, November 18, 1999.

California Deparment of Finance, Demographic Research Unit

## Table 7

## Improvement in Mail Response in the 250 Tracts with the Highest Concentrations of Selected Groups:

 1990 Undercount, Race/Ethnic Groups and Rural Population| Consider the 250 comparison census tracts with the largest number of persons in each of the following groups of people: | Tracts with Census 2000 mail response rates that meet their ' 90 Plus Five Target |  | Average level of mail response for tracts in each group$\qquad$ of 250 tracts |  | $\begin{gathered} \text { Improvement } \\ 1990 \text { to } 2000 \\ \text { (percentage point) } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of tracts meeting their target out of the top 250 tracts in each group | Number of tracts meeting their target as a percentage of the top 250 tracts in each group | 1990 | $\underline{2000}$ |  |
| 1990 Net Undercount | 211 | 84\% | 54\% | 64\% | 10 |
| African American | 212 | 85\% | 53\% | 62\% | 9 |
| Hispanic | 204 | 82\% | 59\% | 69\% | 10 |
| Asian or Pacific Islander | 165 | 66\% | 67\% | 74\% | 7 |
| American Indian, Eskimo or Aleut | 146 | 58\% | 60\% | 65\% | 5 |
| White, not of Hispanic |  |  |  |  |  |
| Origin | 154 | 62\% | 67\% | 73\% | 6 |
| 1990 Rural Population | 124 | 50\% | 58\% | 62\% | 4 |
| DATA SOURCE: Census 200 Census 2000 data include r Race and ethnicity data are All other 1990 data (mail res | 0 Final Mail Response Rates fo esponses received as of Septe from the 1990 Census of Popu sponse rates, undercount, and | Interim Census Tracts, mber 7, 2000. <br> ation and Housing, Public <br> rual) are from 1990 Data fo | mber 19, 2 <br> Summary <br> 00 Plannin | on the in <br> File 1A. <br> Census | t: http://www.census. <br> eau November 18, 19 |

## Table 8: Mail Response Rates and the 1990 Hard-to-Count Score*

|  | Hard-To-Count Score (HTC)* | Number of Comparison Tracts | Number of tracts with a 2000 mail response rate meets the ' 90 Plus Five Target | Tracts that "maintain or improve" as a percentage of comparison tracts | Average resp comparis each H | of mail for acts in roup | Improvement 1990 to 2000 (percentage point)* |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| California |  |  |  |  | 1990 | $\underline{2000}$ |  |
| hard to count | HTC > $=70$ | 948 | 680 | 72\% | 53\% | 61\% | 8 |
| moderately difficult to count | $30<=$ HTC $<70$ | 2268 | 1359 | 60\% | 63\% | 69\% | 6 |
| easier to count | HTC < 30 | $\frac{2168}{5384}$ | $\frac{811}{2850}$ | $\frac{37 \%}{53 \%}$ | 74\% | 77\% | 3 |
| Los Angeles County |  |  |  |  |  |  |  |
| hard to count | HTC > $=70$ | 432 | 341 | 79\% | 53\% | 62\% | 9 |
| moderately difficult to count | $30<=$ HTC $<70$ | 684 | 433 | 63\% | 64\% | 70\% | 6 |
| easier to count | HTC < 30 | $\frac{515}{1631}$ | $\frac{173}{947}$ | $\frac{34 \%}{58 \%}$ | 75\% | 78\% | 3 |

*The Hard-To-Count score (HTC) summarizes attributes of each tract in terms of enumeration difficulty. The HTC is a composite of 12 variables: housing indicators, such as percent renter, multi-units, crowded housing, lack of telephones, vacancy rates, as well as population chracteristics such as poverty, high school dropout, unemployment, complex household, mobility, linguistic isolation. The HTC scores ranges from 0 to 132.

DATA SOURCE: Census 2000 Final Mail Response Rates for Interim Census Tracts, updated September 19, 2000 on the internet: http://www.census.gov/. Census 2000 data include responses received as of September 7, 2000.
1990 Mail Response Rates and Hard-to-Count Data are from 1990 Data for Census 2000 Planning (the "Planning Database"), US Census Bureau, November 18 , 1999.

## Graph 1: Mail Response by 1990 Net Undercount Quartiles





Note: the first undercount quartile is comprised of the 1346 comparison tracts with the lowest undercount in 1990; the fourth undercount quartile has the 1346 tracts with the highest number of persons undercounted.

Data Source: Census 2000 Final Mail Response Rates, updated at http://www.census.gov/ on September 19, 2000. These data include responses as of September 7, 2000. 1990 mail response and undercount data are from the Planning Database, November 18, 1999. California Department of Finance, Demographic Research Unit, October 1, 2000.

## 1990 Mail Response Rate

| $\square$ |
| :--- |
|  |
|  |
| $46-57 \%$ |
|  |
| $58-64 \%$ |
| $65-69 \%$ |
| $70-76 \%$ |



## 1990 Mail Response Rate California by County

## Census 2000 <br> Final Mail Response Rate September 7, 2000

| $31 \%$ |
| :---: |
| 48-57\% |
| 58-64\% |
| 65-69\% |
| 70-76\% |

$80 \quad 160 \quad 240 \quad 320 \quad 400$ Miles

## Map 2

## 1990 Mail Response Rate California by Census Tract



## Map 3

## Census 2000 Final Mail Response Rate California by Census Tract



65-69\%
70-100\%


Source: 1990 Census; Census 2000 final mail response rates, responses received as of September 7, 2000. Map prepared by the California DEPARTMENT OF FINANCE, Demographic Research Unit, October 1, 2000

$\mathbf{5}$ or more percentage points higher in Census 2000 than in 1990

Number of Questionnaire Assistance Centers (QACs) Funded by the California Complete Count Committee* State of California by ZIP Code


County Boundary Zíp Code Boundary
Number of QACs by Zip Code

| $\begin{aligned} & 0 \\ & 1-2 \\ & 3-5 \\ & 6-10 \end{aligned}$ |
| :---: |
|  |  |
|  |  |
|  |  |

Los Angeles Area Inset


San Francisco Bay Area Inset

$\square$

1-2
3-5
6-10


San Diego Area Inset



Source: 1990 US Census of Population and Housing, Public Law 94-171 Data.
Map prepared by the California DEPARTMENT OF FINANCE, Demographic Research Unit, October 1, 2000.

Difference in Mail Response Rates between the 1990 Census and Census 2000 for Tracts with a High Net Undercount in 1990 4th Undercount Quartile for Comparison Census Tracts in California


## Difference in Mail Response Rates between the 1990 Census and Census 2000 for Tracts with a High Net Undercount in 1990 (4th Undercount Quartile) Selected Southern California Counties by Census Tract



Response data missing or tract in the 1st, 2nd or 3rd Quartile
5 or more percentage points lower in Census 2000 than in 1990
1 to 4 percentage points lower in Census 2000 than in 1990
0 to $\mathbf{4}$ percentage points lower in Census 2000 than in 1990
5 or more percentage points higher in Census 2000 than in 1990
60
0

## Map 11

## Difference in Mail Response Rates between the 1990 Census and Census 2000 for Tracts with a High Net Undercount in 1990 (4th Undercount Quartile) Los Angeles County by Census Tract



## Map 12

Difference in Mail Response Rates between the 1990 Census and Census 2000 for Tracts with a High Net Undercount in 1990 (4th Undercount Quartile) San Francisco Bay Area Counties by Census Tract



[^0]:    ${ }^{1}$ The undercount figures referred to in this report are the net undercount, which represent the gross undercount (people missed) minus the overcount (people counted more than once). The U.S. Census Bureau estimated the 1990 undercount using the results of a sample survey after the actual enumeration.
    ${ }^{2}$ U.S. General Accounting Office, February 1999.
    ${ }^{3}$ The U.S. Census Bureau currently plans to release both adjusted and unadjusted numbers by April 1, 2001. The undercount is the difference between the adjusted and unadjusted counts.

[^1]:    ${ }^{4}$ An improvement in mail response does not necessarily mean a lower undercount. An increase in the mail response rate can mean a change in the timing of when people respond to the census or it can mean that individuals mailed in their form who would not have otherwise participated at all. If the latter were the case and as a result more people were counted, then the improvement in mail response would result in a smaller undercount. If the effect of the campaign were to encourage mail response among people who would have eventually cooperated anyway with door-to-door enumerators during non-response follow-up, then census outreach saved the federal government money by reducing the non-response follow-up case load but it ${ }_{5}$ would not reduce the undercount. In general, improvement in mail response in an area usually does result in a lower undercount.
    ${ }^{5}$ Data source: U.S. Census Bureau, Census 2000 final mail response rates. State, city, and county data were posted on the Bureau's website http://www.census.gov/ on September 19, 2000. These data include census forms received through the mail, internet or over the phone as of September 7, 2000. The mail response rate is defined as the number of mail returns divided by the mail out universe, which includes occupied plus vacant units. The mail return rate, which includes only occupied units in the denominator, is a better indicator of census participation, but will not be available until 2001.
    ${ }^{6}$ A jurisdiction's '90 Plus Five target rate is 5 percentage points higher than its 1990 mail response rate.

[^2]:    ${ }^{7}$ There were 458 tracts with a stationary QAC funded by the California CCC. Most tracts had only one or two QACs, but some had more, up to a maximum of nine per tract. Mobile QACs were not included in the analysis due to incomplete addresses in the master file. QACs administered by the U.S. Census Bureau were not included either.

[^3]:    ${ }^{8}$ Not of Hispanic Origin.
    ${ }^{9}$ The HTC is a composite of 12 variables: housing indicators, such as percent renter, multi-units, crowded housing, lack of telephones, vacancy, and population characteristics, such as poverty, high school dropout, unemployment, complex household, mobility, linguistic isolation. The HTC score ranges from 0 to 132.

[^4]:    States in bold maintained or improved their 1990 mail response rate in Census 2000.

