

## **DECLARATION OF PETER MORRISON**

I, Peter Morrison, hereby declare under penalty of perjury that the following is true and correct:

1. I am over 18 years of age. I submit this declaration in support of Defendant City of Santa Monica's Motion for Summary Judgment. I either have personal knowledge of the matters set forth in this declaration, or the information is readily available and commonly used and relied upon by experts in my field of expertise. If called as a witness, I could and would competently testify to the matters set forth in this declaration.

### **I. INTRODUCTION**

2. I have been retained as an expert by the City of Santa Monica, CA. I am an applied demographer and am retired from The RAND Corporation, where I was Senior Demographer and the founding director of RAND's Population Research Center. I have provided testimony in litigation pertaining to the Voting Rights Act and districting plans and have constructed and/or evaluated numerous proposed local redistricting plans. I have made invited presentations on demographic aspects of redistricting to members and/or staff of the U. S. House of Representatives Subcommittee on the Census, the County Counsels' Association of California, the League of California Cities, the National League of Cities, and the Population Association of America. I have served on the U.S. Census Bureau Advisory Committee on Population Statistics, 1989-1995; and as an invited participant on the Bureau's Working Group on 2010 Race and Ethnicity. I have been elected as President of the Southern Demographic Association and to the Board of Directors of the Population Association of America, which are the two leading associations of professional demographers; and have taught students at the RAND Graduate School.

3. The City of Santa Monica has retained me to evaluate (1) Plaintiffs' complaint that the at-large method whereby the City elects its City Council members violates the California Voting Rights Act of 2001; and (2) the relief that Plaintiffs seek. My evaluation relies on the pleadings and on official sources of demographic data and electoral information from, respectively, the US Census Bureau and the City of Santa Monica.

4. I am compensated at a rate of \$250 per hour for demographic analysis and \$400 per hour for deposition and trial preparation and testimony.

5. Appendix A furnishes details of my prior work as an expert, including all cases in which I have testified by deposition or at trial in the last 10 years. Appendix B furnishes my academic c.v. and peer-reviewed publications.

## **II. SUMMARY OF FINDINGS/CONCLUSIONS**

6. Santa Monica's City Council is elected based upon a plurality of votes cast. A majority of votes is not required in order for a candidate to be elected. Instead, the top three or four vote-getters, depending on the election year, are the winners. Plaintiffs seek implementation of district-based elections.

## **III. CONCLUSIONS PERTAINING TO A POTENTIAL MAJORITY-LATINO DISTRICT**

7. My analysis demonstrates that the Latino residents of Santa Monica are not sufficiently numerous to constitute a majority of the eligible voters in any possible single-member district. It is mathematically impossible to form such a district, since Latinos cannot possibly exceed 32% of any district's eligible voters. A 32% Latino district would also necessarily have bizarre boundaries and be severely lacking in compactness.

8. Any plan incorporating a district drawn for the single-minded purpose of concentrating Latino voters in one district would necessarily relegate most Latino voters in the

City to territory outside of that district. Enacting any plan with such a district would necessarily submerge 2 of every 3 Latinos among other predominantly non-Latino voters, thereby systematically devaluing Latinos' votes everywhere else in the City.

9. My analysis further demonstrates that even were Latino and Black eligible voters combined, their collective number cannot possibly exceed 41% of any district's eligible voters. A 41% Latinos-plus-Blacks district would also necessarily have bizarre boundaries and be severely lacking in compactness.

10. Latinos and Blacks do not generally reside in the same areas within Santa Monica. Any plan drawn for the single-minded purpose of concentrating Latino voters and Black voters together in a single Latinos-plus-Blacks district would necessarily relegate 72% of all the City's Latino voters and 57% of all the City's Black voters to territory outside of that district. Here, too, enacting any plan with such a district would necessarily submerge 72% of Latinos and 57% of Black nonHispanic voters among other predominantly non-Latino voters. In effect, most Latinos in the City and most Blacks in the City would see their votes systematically devalued.

11. Demographic analysis can quantify devaluation that results from what demographers recognize as "cracking" of Latino and Black eligible voters, i.e., scattering most members of each group across six other voting districts. "Cracking" effectively dilutes each group's collective voting strength relative to that of Anglo voters. Identifying "cracking" is an important part of any demographic analysis because the systematic devaluation of votes is regarded as an unlawful form of vote dilution.

#### **IV. BACKGROUND INFORMATION ON LATINO RESIDENTS OF SANTA MONICA**

12. The Census Bureau publishes 5-year American Community Survey estimates expressly for the purpose of estimating the population of eligible voters for small areas within cities. This citizen voting-age population (hereafter, “CVAP”) is published for the areas that I use to document the size and concentration of Latino CVAP within the City of Santa Monica.<sup>1</sup>

13. First, I note that Latinos’ share of Santa Monica’s eligible voter population has risen gradually over time (see Figure 1). As shown in the blue bars, Latinos constituted less than 9% as of 2006 and rose thereafter, reaching 13%-14% as of 2013. Second, I note that Latinos’ share of eligible voters each year is several percentage points below Latinos’ corresponding share of all residents. In Santa Monica, as elsewhere in Southern California, this difference reflects the relatively higher proportion of noncitizens among all adult Latinos.

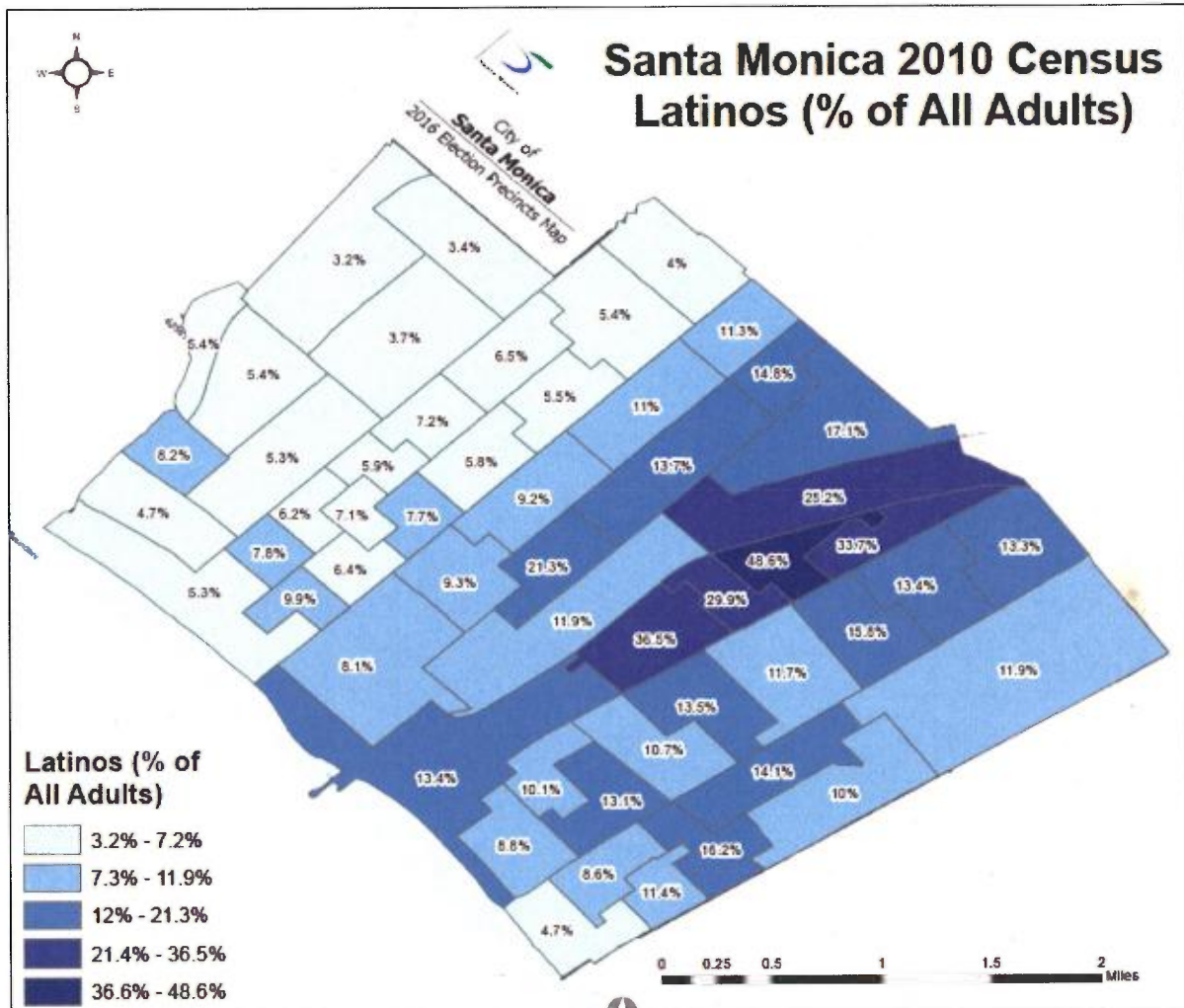
---

<sup>1</sup> The US Census Bureau publishes 5-year estimates down to the block group level. Associated margins of error (MOEs) show their reliability ( [www.census.gov/acs/www/guidance\\_for\\_data\\_users/guidance\\_main/](http://www.census.gov/acs/www/guidance_for_data_users/guidance_main/) ).

## Figure 1

Source: US Census Bureau, American Community Survey 3- and 5-year files, Tables B05003, B05003B, and B05003I (centered on year shown). Access at: <https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>

Figure 2-A

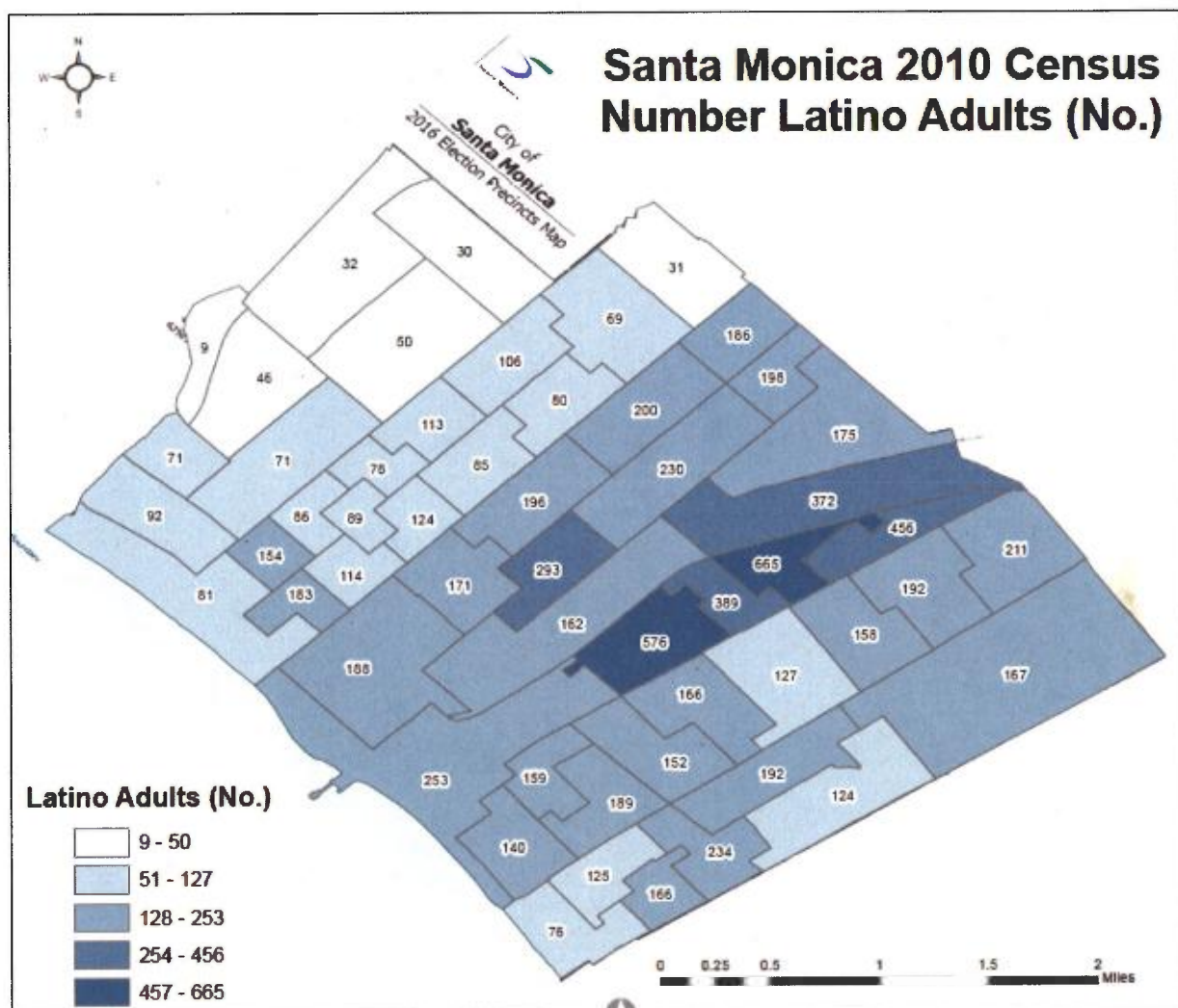


Source: US Census Bureau, 2010 Census, SF1.

<https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>

14. A third noteworthy point (shown in Figure 2-A) is that the Latino adult population is quite dispersed across much of Santa Monica. Unlike many other Southern California cities, Latinos are present in significant numbers in most of Santa Monica's election precincts, rather than highly concentrated in just a few. For example, Latinos constitute at least one in 10 adults in fully 33 of the City's 56 election precincts. The highest level of Latino concentration is observed in precinct #6250061A, where Latinos constitute 48.6% of adults; next highest is 33.7% (#6250071A).

Figure 2-B



Source: US Census Bureau, 2010 Census, SF1.

<https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>

15. Figure 2-B shows this dispersed pattern more specifically: precincts with 128 to 253 Latino adult residents far outnumber those with 254 to 665. This spread-out residential pattern (based here on 2010 decennial census full-count data) imposes practical upper limits on piecing together contiguous census blocks to concentrate Latinos in a single district that could encompass one-seventh of the City's total residents. Latinos' dispersed residential pattern alone casts considerable doubt on the possibility that any contiguous aggregation of territory within

Santa Monica could assemble a Latino majority among the eligible voter population of any such district.

**V. EVIDENCE PERTAINING TO A POTENTIAL MAJORITY-LATINO DISTRICT**

16. As a further definitive check, I have used 2010 decennial census full-count data to assess the upper limits this dispersed pattern imposes. I conducted a straightforward compactness analysis to gauge the mathematical possibility of forming a majority-Latino district.

Table 1 illustrates its logic:

**Table 1  
Mathematical Upper Limit of Latinos' Geographic Compactness**

Census Block	Total Population (all ages)	Cumulative Total Population	Eligible Voter Population			Cumulative Eligible Voter Pop'n		
			Total	Latino	% Latino	Total	Latino	% Latino
060377018011014	3	3	3	3	100.0%	3	3	100.0%
060377020021003	1	4	1	1	100.0%	4	4	100.0%
060377018013014	9	13	6	6	100.0%	10	10	100.0%
060377021024014	1	14	1	1	100.0%	11	11	100.0%
060377018013017	9	23	6	6	100.0%	17	17	100.0%
060377018022004	30	53	28	26	92.9%	45	43	95.6%
060377018013008	13	66	7	6	85.7%	52	49	94.2%
060377018015018	64	130	51	43	84.3%	103	92	89.3%
060377018021012	141	271	94	77	81.9%	197	169	85.8%
060377018011028	20	291	16	13	81.3%	213	182	85.4%
* * * * *								
060377018013002	34	12,675	25	5	20.0%	10,418	3,874	37.2%
060377023003008	64	12,739	45	9	20.0%	10,463	3,883	37.1%
060377021022015	20	12,759	15	3	20.0%	10,478	3,886	37.1%
060377013042002	5	12,764	5	1	20.0%	10,483	3,887	37.1%
060377016014019	16	12,780	10	2	20.0%	10,493	3,889	37.1%

Source: US Census Bureau, 2015 American Community Survey 5-year file (IPF-ed).  
Access at: <https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>. Appendix C contains the complete version of Table 1.



17. For each census block in Santa Monica, I can estimate the percentage of the citizen voting-age population (CVAP) who are Latino, based on the most current 5-year American Community Survey data.

18. Next, I ranked all census blocks in descending order of that percentage, from those blocks where Latinos comprise the highest percentage of CVAP (100% in the top five blocks) to those where Latinos comprised the lowest percentage.

19. Next, I calculated the cumulative percent of (a) *total population*, (b) *total eligible voters*, (c) *Latino eligible voters*, and (d) *Latinos' share* of total eligible voters. Table 1 (top panel) shows the top 10 rows of a very lengthy table. For purposes of illustration here, I note that the 10 most heavily Latino census blocks would encompass 291 residents, 213 of them eligible voters; and that Latinos would constitute 85.4% of all eligible voters in this hypothetical maximized aggregation of blocks.

20. Lastly, I scanned much further down the entire table (bottom panel of Table 1) until I reached the row at which the cumulative *total* population approaches 12,819, which is one-seventh (14.3%) of the City's 89,736 total population.

21. For this row, I noted what Latinos' share of CVAP. That share is 37.1%. Accordingly, I can conclude with certainty that 37.1% is the **arithmetic upper limit** of Latinos' share of CVAP in any potential district encompassing 14.3% of the City's total resident population. The fact that this arithmetic upper limit lies well below 50% Latino is proof that no district can possibly afford Latinos a majority of eligible voters in a district.

22. I emphasize that no actual district could possibly come close to this 37.1% arithmetic upper limit. That is because the above exercise is premised on the simplifying assumption that census blocks, as rank-ordered in Table 1, are contiguous. They definitely are

not. Any actual district (however bizarrely configured) must be composed of territory that is contiguous. That is, it must be possible for a pedestrian to walk *from* any point in the district *to* any other point without ever leaving the district.

23. To construct any actual district that concentrated Latino eligible voters, one would begin by assembling contiguous heavily-Latino election precincts that overlap the Pico neighborhood. As an illustration, I have assembled individual census blocks with a single-minded objective: to maximize Latino eligible voters within a contiguous district that encompasses one-seventh of the City's total population. This hypothetical district, shown in Figure 4, would afford Latinos a 31.6% share of the district's eligible voters. The district has bizarre boundaries; yet there is but one possible refinement. That would be to amputate the least populous leg circled on the lower right.

24. Eliminating those 900 eligible voters reduces the resident population to slightly less than one-seventh of the City's total population but still affords Latinos a 31.3% share of the district's eligible voters (shown in Figure 5). Neither of these bizarrely-shaped districts can possibly exceed a 32%-Latino share, regardless of how they might be drawn. Each is severely lacking in compactness.

25. In short, I conclude that (1) no actual district, however bizarrely configured, could possibly approach the known 37.1%-Latino mathematical upper limit; and (2) Latinos cannot possibly exceed 32% of eligible voters in any contiguous and compact district.

Figure 4

## Santa Monica 2011-2015 Latino CVAP Influence

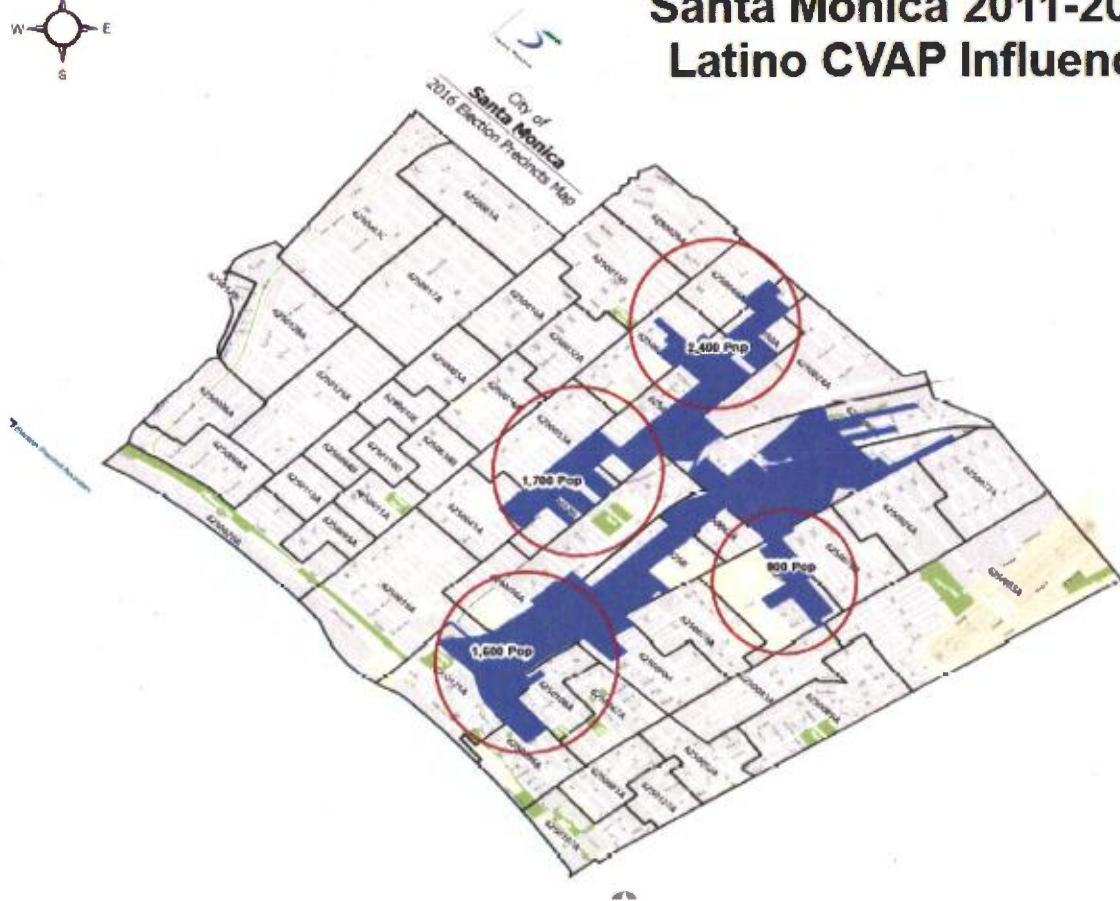


Figure 5



26. Ironically, establishing a 31.3%-Latino district like the one in Figure 5 would necessarily relegate two-thirds of Latinos to six other heavily non-Latino districts elsewhere in Santa Monica. There, fully two-thirds of all Latino voters citywide would be outnumbered by non-Latinos by 9 to 1, on average—a form of minority vote dilution known as “cracking.” That is, two-thirds of all Latino voters would necessarily find themselves scattered across six other voting districts, effectively diluting their collective voting strength relative to that of non-Latino voters.

27. If, indeed, racially polarized voting is present as Plaintiffs allege (which is beyond the scope of my analysis for this declaration), any plan incorporating such a district would set the

stage for systematic Anglo bloc voting, thereby assuring the very same electoral outcomes that Plaintiffs seek to avert.

## **VI. EVIDENCE PERTAINING TO A POTENTIAL LATINOS-PLUS-BLACKS DISTRICT**

28. I was asked to consider the further possibility of forming a Latinos-plus-Blacks district. The objective here would be to concentrate Latino and nonHispanic Black eligible voters together, treating their combined numbers as though they were a single cohesive minority. Would this combined Latinos-plus-Blacks district be sufficiently numerous and compact to afford these two groups together a majority among the district's eligible voters?

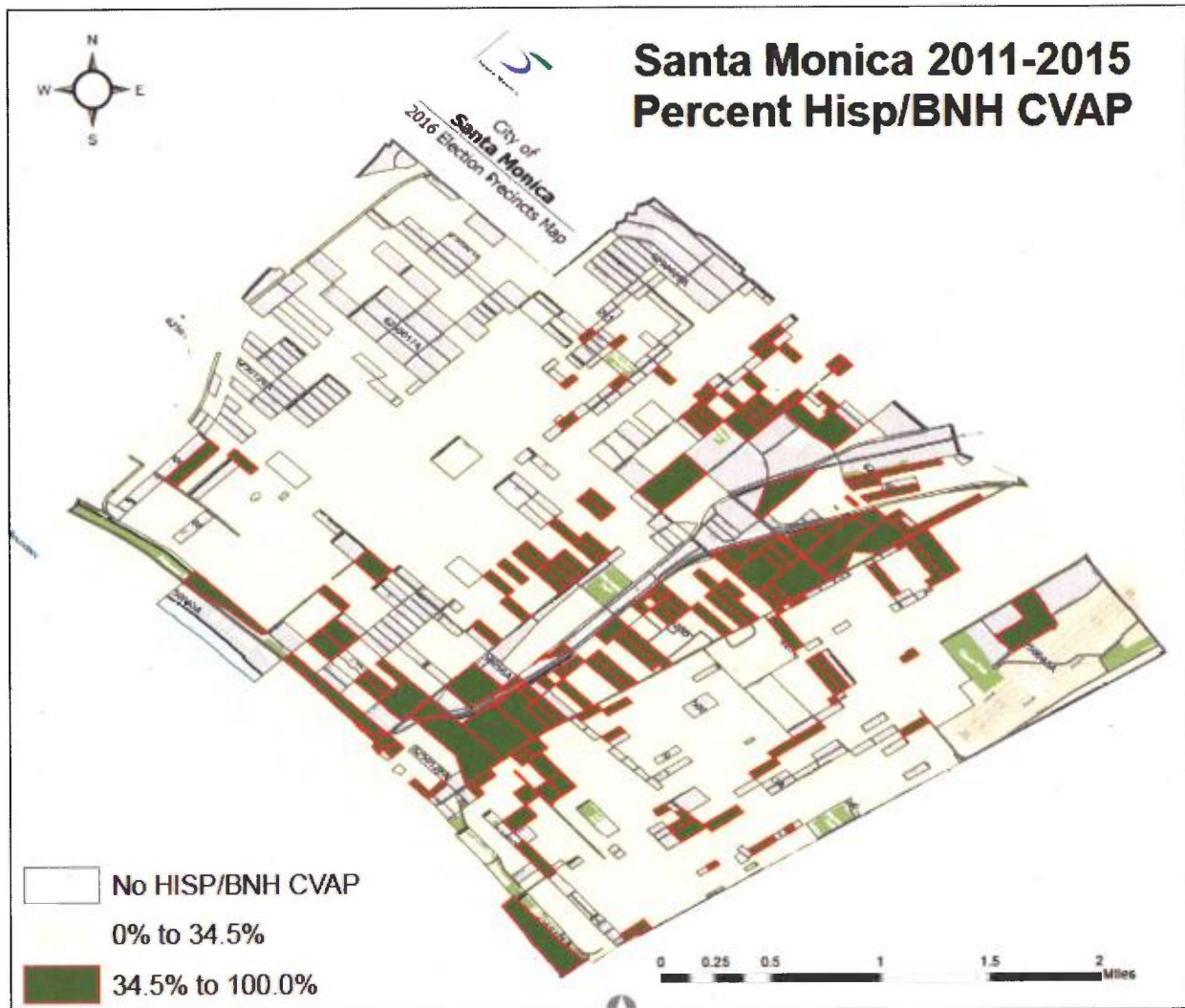
29. By way of background, nonHispanic Blacks presently account for only 3,159 (4.4%) of Santa Monica's 71,255 eligible voters, according to the ACS; the City's 9,439 Latino eligible voters presently account for 13.2%. A further noteworthy reality is that the adult Black population (like adult Hispanics) is dispersed across much of the City. Black eligible voters are present in significant numbers in many of Santa Monica's election precincts, rather than highly concentrated in just a few.

30. Most important of all, areas of the City where Blacks are concentrated do not generally overlap those where Latinos are concentrated.<sup>2</sup> This lack of overlap alone casts doubt on the possibility that any contiguous aggregation of territory within Santa Monica could assemble a Latino-plus-Black majority among the eligible voter population of any district encompassing one-seventh of Santa Monica's total resident population.

---

<sup>2</sup> I computed the Dissimilarity Index (DI) at the census block level to characterize these patterns of residential separation between Santa Monica's Latino, White nonHispanic, and Black nonHispanic eligible voters. DI is a widely used measure of residential separation. It ranges from 0 (complete integration) to 100 (complete separation). Latinos' separation from White nonHispanics registered a moderate DI value (44%), consistent with Latinos' dispersed settlement pattern across much of the City (see Figure 2-A). Latinos' separation from Black nonHispanics registered a much higher DI value (65%), showing that Blacks and Latinos tend to reside on different blocks across the City.

Figure 6



31. Figure 6 helps to visualize the practical limitations these above factors impose. This map displays census blocks classified as follows. The green areas are where at least 34.5% of the eligible voter population in each block are either Latino or Black—i.e., the necessary building blocks from which any Latinos-plus-Blacks district would be formed. The yellow areas are where less than 34.5% are Latino or Black—i.e., areas to be excluded in any effort to form such a district. The gray areas contain no Latino or Black voters.

32. The challenge to create a majority Latinos-plus-Blacks district, then, is to link together sufficient “green” territory while minimizing inclusion of “yellow” territory so as to

maximize the percentage of Latino and Black voters combined within a single contiguous district that encompasses one-seventh of the City's residents. In Figure 7, I show one possible way to delineate such a district with that aim in mind.

**Figure 7. Latino-Plus-Black District**



33. In this illustrative configuration, I have attempted to form an illustrative Latinos-plus-Blacks district whose configuration is somewhat compact. The area shown in green has a total resident population of 12,739 persons (14.2% of the citywide total). Of the 10,145 voting-age citizens within this district, 39.6% are either Latinos or nonHispanic Blacks. Further fine-tuning of its boundaries might increase that share to about 41% at most; however, in my professional opinion, no such district could exceed a 41% share under current demographic

conditions. In all likelihood, it would be necessary to improve compactness, which would only lower the share below 39.6%.

34. Establishing this district cannot possibly afford Latino plus Black voters anywhere near a majority. Yet its establishment surely would devalue the votes of both Latinos and Blacks who reside outside that district. Ironically, this territory outside of the green district in Figure 6 is where most of Santa Monica's Latino and Black voters actually reside. Considered as a whole, the rest of the City encompasses 72% of all Latino eligible voters citywide and 57% of all Black eligible voters citywide.

35. Outside that green territory, though, three of every four eligible voters (75%) are Anglo, compared with only one in seven (14%) who are either Latino and Black.

36. Ironically, establishing a Latinos-plus-Blacks district would necessarily relegate most Latinos and most Blacks to six other heavily-Anglo districts in the rest of Santa Monica, where they would be outnumbered by Anglos by over 5 to 1 on average. This would represent a classic instance of minority vote dilution through "cracking"—that is, scattering most members of each group across six other voting districts, effectively diluting each group's collective voting strength relative to that of Anglo voters.

37. If voting is racially polarized as Plaintiffs allege (which is beyond the scope of my analysis for this declaration), any plan incorporating such a district would set the stage for systematic Anglo bloc voting, thereby assuring the very same electoral outcomes that Plaintiffs seek to avert.

## **VII. CONCLUSIONS AND OPINIONS**

38. Plaintiffs are destined to fail in any effort to form a majority-Latino district. Latino residents of Santa Monica are not sufficiently numerous to constitute a majority of the eligible voters in any contiguous district. No such district is mathematically possible. Latinos



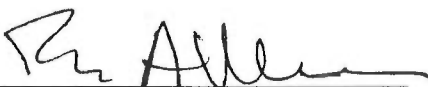
cannot possibly exceed 32% of the eligible voters in any contiguous district. Any such district would also necessarily have bizarre boundaries and lack compactness.

39. Any plan incorporating a district drawn for the single-minded purpose of concentrating Latino voters in a single district necessarily relegates most Latino voters in the City to six other districts in territory outside that district. The consequence would be to submerge most Latino voters among other predominantly non-Latino voters. In doing so, any such plan would systematically devalue the votes of most Latino voters citywide through “cracking.”

40. My analysis demonstrates that Latino and Black eligible voters tend not to reside in the same areas of Santa Monica. Even combined, such voters cannot possibly exceed 41% of the eligible voters in any contiguous single-member district (regardless of lack of compactness).

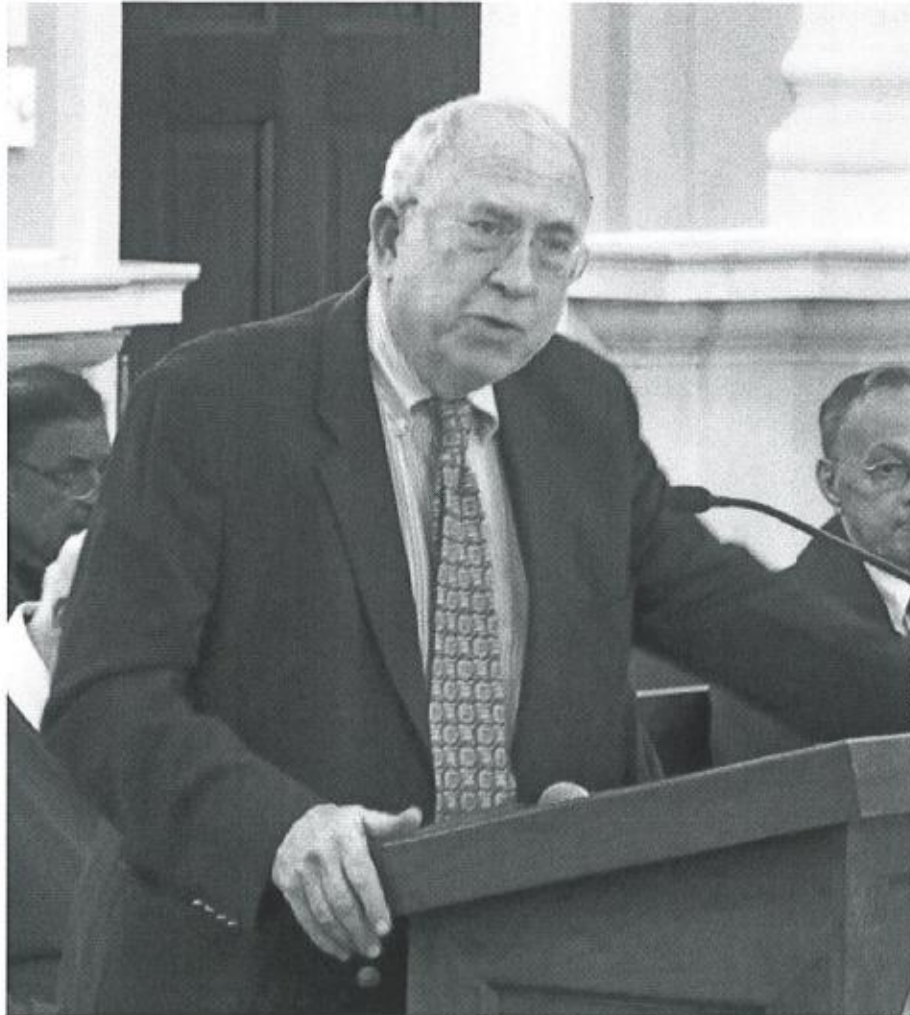
41. Any plan incorporating a district drawn for the single-minded purpose of concentrating Latino and Black voters in one district necessarily relegates 72% of all the City’s Latino voters and 57% of all the City’s Black voters to territory outside that district. The consequence would be to submerge most Latino and most Black voters among other predominantly non-Latino white voters. In doing so, any such plan would systematically devalue the votes of most Latino voters and most Black voters citywide through “cracking.”

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct on March 28, 2018.

  
Peter Morrison

# Appendix A

## QUALIFICATIONS AS EXPERT WITNESS



PETER A. MORRISON

## **EDUCATION AND PUBLICATIONS**

Peter A. Morrison is a 1962 graduate of Dartmouth College. He holds a Ph.D. from Brown University in Sociology/Demography, awarded in 1967. Selected recent publications:

- “From Legal Theory to Practical Application: A How-To for Performing Vote Dilution Analysis”
- 
- “Demographic Perspectives on the Voting Rights Act”
- “The Demographer’s Role in the Local Boundary-Drawing Process”
- “Demographic Influences on Latinos’ Political Empowerment”
- “Forecasting Enrollments During Court-Ordered Desegregation”
- “Confronting a Race-Based School Admissions Policy”
- “Unveiling the Demographic ‘Action’ in Class Actions”
- “Employment Discrimination: How Demographic Analysis Fits In”
- “Applying Demographic Analysis in Affirmative Action Disputes”
- “Evaluating Evidence of Discrimination in Multi-Ethnic Housing Markets”
- “Lingering Effects of Discrimination: Tracing Persistence Over Time in Local Populations”

See attached resume for current list of peer-reviewed publications.

## **PROFESSIONAL MEMBERSHIPS (SELECTED)**

Population Association of America: Board of Directors, 1978-80; Public Affairs Committee, 1979-1986; Chairman, Nominations Committee, 1981-82; Committee on Applied Demography, 1995-1999.

Southern Demographic Association: Board of Directors, 1999-2004; President, 2002-03.

International Union for Scientific Study of Population: Chairman, Committee on Urbanization and Population Redistribution, 1976-79.

U.S. Census Bureau Advisory Committee on Population Statistics, 1989-1995; Chair, 1990-91.

## **PROFESSIONAL EXPERIENCE**

Dr. Morrison has provided testimony in litigation pertaining to the Federal Voting Rights Act and districting plans; the validity of voter identification requirements; employment discrimination and racial disparities in hiring and promotion; class certification issues; jury pool disparities; and other topics of applied demographic analysis.

In the field of redistricting, Dr. Morrison has constructed and/or evaluated proposed redistricting plans on behalf of the following jurisdictions since 1985:

**California:** San Diego County (Board of Supervisors); the cities of Alhambra, Chula Vista, Dinuba, Downey, El Centro, Elk Grove, Modesto, Moorpark, National City, Oxnard, Salinas, San Diego, Santa Barbara, Santa Maria, Santa Monica, Santa Paula, Seaside, Stockton, and Watsonville; Hartnell Community College District; Alhambra School District, Fresno Central Unified School District; Long Beach Community College District, State Center Community College District; and San Diego Unified School District.

**Connecticut:** City of Waterbury. Designed and implemented public outreach process for establishing Aldermanic districts and constructed alternative plan options.

**Colorado:** Alamosa County.

**Florida:** City of Tampa: Litigation support for City's defense against challenge under VRA (post 2000 Census); County of Orange: Litigation support and testimony for County's defense against challenge under VRA (2012-2014). Judge ruled in favor of defendant Orange County.

**Georgia:** City of Gainesville: Litigation support for City's defense against challenge under VRA (2012- ).

**Illinois:** Testimony on behalf of plaintiffs in Committee for a Fair and Balanced Map vs. Illinois State Board of Elections pertaining to citizen voting-age population.

**Maryland:** Testimony on behalf of plaintiffs in Fletcher, et al. v. Lamone, et al. (2011). Testimony on behalf of plaintiffs' First Amendment retaliation challenge in Benisek, et al. v. Lamone, et al. (2017).

**Massachusetts:** Cities of Boston and Chelsea: Litigation support for Cities' defense against challenge under VRA (post 2000 Census)

**Mississippi:** Quitman County: Litigation support for County's defense against challenge under VRA (post 2010 Census)

**New York State:** N.Y. City Districting Commission, N.Y. State Senate, Town of Hempstead, Nassau County, Suffolk County: plan evaluation, litigation support, and outreach to city and elected officials (1990s - mid-2000s).

**North Carolina:** Jones County. Designed County Commissioner districts and constructed alternative plan options for negotiating settlement with plaintiffs.

**Washington State:** City of Yakima: Litigation support for City's defense against challenge under VRA (2012-14); City of Pasco: Public outreach for city; formation of proposed plan for adoption in 2015.

**Wisconsin:** Testimony on behalf of defendants in *Baldus et al. vs. Wisconsin Government Accountability Board* pertaining to demographics and citizen voting-age population (2012).

None of the adopted plans Dr. Morrison constructed above have been challenged in court.

In other litigation, Dr. Morrison has testified based on his demographic analysis pertaining to the validity of voter identification requirements in 2011 Wisconsin Act 23 in *Milwaukee Branch of the NAACP et al. v. Walker et al.*, No. 11-CV-5492 (Dane County Cir. Ct.).

Dr. Morrison has made invited presentations on demographic aspects of redistricting before members and/or staff of the U. S. House of Representatives Subcommittee on the Census, the County Counsels' Association of California, the League of California Cities, the National League of Cities, and the Population Association of America.

References available upon request.

(March 2018)

"From Legal Theory to Practical Application: A How-To for Performing Vote Dilution Analysis," *Social Science Quarterly* (2017), coauthor.

Assess at:

[https://www.researchgate.net/publication/315631377\\_From\\_Legal\\_Theory\\_to\\_Practical\\_Application\\_A\\_How-To\\_for\\_Performing\\_Vote\\_Dilution\\_Analyses\\_From\\_Legal\\_Theory\\_to\\_Practical\\_Application](https://www.researchgate.net/publication/315631377_From_Legal_Theory_to_Practical_Application_A_How-To_for_Performing_Vote_Dilution_Analyses_From_Legal_Theory_to_Practical_Application)



CASES I HAVE TESTIFIED IN SINCE SEPTEMBER 2007

1. *Wiley v. Advance America et al.*, Case No. 3:07-3533 (D.S.C.)
2. *Alaska Retirement Management Board v. Mercer*, Case No. 1 JU-07-974 C I (Superior Court Alaska)
3. *Kitson v. Bank of Edwardsville*, Class Action No. 3 02-L-807 (Twentieth Judicial Circuit of Illinois)
4. *Committee for a Fair and Balances Map et al. v. Illinois State Board of Elections, et al.*, Case No. 11-C-5065 (N.D. Ill.)
5. *Fletcher, et al. v. Lamone et al.*, Case No. 11-3220 (D. Md.)
6. *Baldus, et al. v. Members of the Wisconsin Government Accountability Board*, Case No. 11-CV-562 (E.D. Wis.)
7. *Milwaukee Branch of the NAACP et al. v. Walker et al.*, Case Number: 11-CV-5492 (Dane County, Wisconsin, Circuit Court)
8. *Kremmel v. Fairlife LLC*, Case No. 16-CV-00350 (S.D. Ill)
9. *Rios-Andino et al. v. Orange County*, Case No. 12-CV-1188 (M.D. Fla.)
10. *Figgs et al. v. Quitman County, Mississippi et al.*, Case No. 14-CV-00119 (N.D. Miss.)
11. *United States v. Townhomes of Kings Lake, HOA, Inc.*, Case No. 12-CV-02298 (M.D. Fla.)
12. *Evenwel v. Perry*, Case No. 14-CV-00335 (W.D. Tex.) and *Evenwel v. Abbott*, Case No. 14-940 (Supreme Court)
13. *Jain v. Coppell Independent School District, et al.*, Case No. 16-CV-02702 (N.D. Tex.)
14. *Bishop, et al. v. Shorter University, Inc.*, Case No. 4:15-CV-0033 (N.D. Ga.)
15. *Benisek, et al., v. Lamone, et al.*, Case No. 13-CV-3233 (D. Md.)

(Updated: March 27, 2018)



# **Appendix B**

## **PETER A. MORRISON**

### **CONTACT INFORMATION**

E-MAIL: [PETERMORRISON@ME.COM](mailto:PETERMORRISON@ME.COM)

VOICE: (508) 228-8018; CELL: (310) 266-9580

### **EDUCATION**

B.A., Sociology, 1962, Dartmouth College  
Ph.D., Sociology, 1967, Brown University

### **PROFESSIONAL EXPERIENCE**

2009-present — President, Peter A. Morrison & Associates, Inc., Nantucket, MA  
1969-2009 — Senior Staff Demographer and Resident Consultant, The RAND Corporation,  
Santa Monica, California  
1979-1990 — Founding Director, Population Research Center, RAND  
1967-1969 — Assistant Professor, Department of Sociology, and Research Associate,  
Population Studies Center, University of Pennsylvania, Philadelphia

### **AREAS OF EXPERTISE**

Dr. Morrison's principal expertise centers on applications of demographic analysis in tracking socioeconomic trends and envisioning their consequences for public policy and business.

Domestic applications include demographic analysis for electoral redistricting; store site selection; human resource analysis; evaluating employment discrimination claims, minority representation within jury pools, and school desegregation remedies; forecasting school enrollments; and using census and administrative data to monitor local community demographic contexts.

International applications include business concerns with corporate strategic planning, globally emerging middle-class consumer markets, and demographic precursors of expanding consumer markets; comparing and evaluating individual markets; and identifying potential business opportunities spurred by forthcoming demographic change.

Dr. Morrison conducts studies for the private sector and offers executive briefings on these topics through his consulting firm, founded in 1984. Clients have included American Express, American Stores, Corning, Inc., Ford Motor Co., Marriott International, NBC, New Directions for News, Times Mirror, University of California, and CIBC Securities (Canada).

Previously, Dr. Morrison was a faculty member at the University of Pennsylvania. He also has taught periodically at UCLA, the RAND Graduate School, and the Helsinki School of Economics. He also lectures before academic and business audiences and gives invited testimony before subcommittees of the U.S. Senate and House of Representatives. He has made invited presentations to the National Science Board, the Conference Board, the National League of Cities, the National Conference of State Legislatures, the University of California Management Institute, the American Bar Association, American Society of Newspaper Editors, newsroom seminars for the Casey Journalism Center, County Counsels Association of California, American College of Surgeons, National Association of Homebuilders, Missouri Legislative Forum, World Future Society, and Volunteers of America.

He has served as advisor to the Committee for Economic Development, the Congressional Research Service, and committees of the National Academy of Sciences, U.S. Census Bureau, Department of Agriculture, National Institutes of Health, California Energy Commission, California Governor's Council on Growth Management, Center for California Studies, and United Way.

## **PROFESSIONAL ORGANIZATIONS/HONORS**

Invited participant, U.S. Census Bureau Working Group on 2010 Race and Ethnicity

Member, L.A. Unified School District Enrollment Analysis Technical Advisory Committee

Visiting Lecturer, Helsinki School of Economics and Business Administration, summer 2001

U.S. Census Bureau Advisory Committee on Population Statistics, 1989-1995 (Chair, 1990).

Population Association of America: Board of Directors, 1978-1980; Public Affairs Committee, 1979-1986; Chair, Nominations Committee, 1981-1982; annual Program Organizing Committee, 1995, 1998; Local Arrangements Committee, 2000; Committee on Applied Demography, 1995-1999, Chair, 1998; Development Committee, 2006-2012.

Southern Demographic Association: Board of Directors, 1999-present; Vice President, 2001; President, 2003.

Center for Spatially Integrated Social Science, UC Santa Barbara: Advisory Board, 2000-

Research Advisory Board, Committee for Economic Development, 1988-1991.

Regents' Lecturer, UCLA, Spring 1987.

Social Science Research Council's Committee on the Survey of Income and Program Participation, 1985-1988.

National Advisory Child Health and Human Development Council, National Institute of Health, 1984-1987.

Population Research Committee, National Institute of Child Health and Human Development, 1977-1979.

Committee on Behavioral and Social Aspects of Energy Consumption and Production, National Academy of Sciences, 1980-1982.

Committee on Urbanization and Population Redistribution, International Union for Scientific Study of Population, Chairman, 1976-1979.

Advisory Subcommittee for Applied Social and Behavioral Sciences, National Science Foundation, 1978-1981.

Future of Rural America Advisory Committee, FHA, 1978-1981.

Editorial Advisory Committee, *Urban Studies*, 1985-1995.

Editorial Advisory Board, *J. Australian Population Assoc.*, 1995-1998.

#### RECENT MEDIA APPEARANCES/COVERAGE:

*Interviews:* CNBC; New York Times; Los Angeles Times; USA Today; Time Magazine; Seattle Times; AMA/Marketing News

*Commentary:* Washington Post; New York Times; Wall Street Journal; International Herald Tribune; Pittsburgh Post-Gazette; Los Angeles Times; Atlanta Constitution; Houston Chronicle; San Jose Mercury News; Providence Journal; San Antonio Express-News

*Articles:* "United Nations of Nantucket," *N Magazine* (Winter 2016).  
(access at: [www.n-magazine.com/united-nations-nantucket/](http://www.n-magazine.com/united-nations-nantucket/))

#### RECENT PRESENTATIONS:

- 10/13/2016: "A Demographic Accounting Model for Class Action Litigation," presented at 2016 Southern Demographic Association meetings, Athens, GA. (coauthored with Thomas Bryan).

- 10/22/2015: At Nantucket Historical Association's "Food for Thought" series:  
"Immigration on Nantucket: What You Should Know"  
<https://www.youtube.com/watch?v=u17rINVweZs> (Morrison presentation starts at minute 2:10)

- 01/08/2015: To Waterbury, CT "Alderman by District Reapportionment Commission" Meeting  
<https://www.youtube.com/watch?v=aj6qE3JECg0&feature=youtu.be>  
(Morrison presentation start at minute 23:10)

- 01/14/2015: To Waterbury, CT "Aldermen by District Reapportionment Commission" meeting:  
[https://www.youtube.com/watch?v=98Vp4y11\\_sc](https://www.youtube.com/watch?v=98Vp4y11_sc) (Morrison presentation starts at minute 9:10)

- 12/2014: "Investing in Nantucket's Future" <http://vp.telvue.com/preview?id=T02542&video=223735>  
(Morrison presentation starts at minute 1:30)

- 11/2013: "Growing Old: How Aging Populations Will Transform Our Lives and Times"  
[http://www.youtube.com/watch?v=kJvS\\_hhgLDk&feature=c4-overview-vl&list=PLjgJVmnztYsTqYVn\\_ijBhCGxA5-7DMIgw](http://www.youtube.com/watch?v=kJvS_hhgLDk&feature=c4-overview-vl&list=PLjgJVmnztYsTqYVn_ijBhCGxA5-7DMIgw) (Morrison presentation starts at minute 1:05)

## SELECTED RECENT PUBLICATIONS/PAPERS/POLICY BRIEFS

Most of my publications (or abstracts) are accessible at these sites:

[https://www.researchgate.net/profile/Peter\\_Morrison2/publications?sorting=newest&page=2](https://www.researchgate.net/profile/Peter_Morrison2/publications?sorting=newest&page=2)

[www.rand.org/pubs/authors/m/morrison\\_peter\\_a.html](http://www.rand.org/pubs/authors/m/morrison_peter_a.html)

"A Comparison of Methods for Classifying and Modeling Respondents Who Endorse Multiple Racial/Ethnic Categories: A Healthcare Experience Application," under review by *Medical Care* (coauthor).

"Distinguishing "False Positives" Among Majority-Minority Election Districts in Statewide Congressional Redistricting," under review by *Social Science Quarterly* (coauthor).

"Can Puerto Ricans Spark a Latino Political Backlash?" op-ed in *San Antonio Express-News*, February 13, 2018 (coauthored with Charles S. Bullock, III).

Access at: <https://www.researchgate.net/publication/323200663> Can Puerto Ricans spark a Latino political backlash

"Focus on Teaching: The Legend of the Calamity-Induced Baby Boom," PAA Affairs, Spring 2017. Access at: <https://www.researchgate.net/publication/315683457> Focus on Teaching The Legend of the Calamity-Induced Baby Boom

"The Demography of Trump's Wall," *N-IUSSP*, April 3, 2017 (coauthor).

Access at: [www.niussp.org/article/demography-trumps-walle-mur-de-trump-et-ses-consequences-demographiques/](http://www.niussp.org/article/demography-trumps-walle-mur-de-trump-et-ses-consequences-demographiques/)

"Three Myths of U.S. Immigration," op-ed in *San Antonio Express-News*, March 4, 2017 (coauthored with Dudley L. Poston, Jr.).

Access at: [www.mysanantonio.com/opinion/commentary/article/Three-myths-of-U-S-immigration-10975928.php](http://www.mysanantonio.com/opinion/commentary/article/Three-myths-of-U-S-immigration-10975928.php)

"From Legal Theory to Practical Application: A How-To for Performing Vote Dilution Analysis," *Social Science Quarterly* (2017), coauthor.

Assess at: <https://www.researchgate.net/publication/315631377> From Legal Theory to Practical Application A How-To for Performing Vote Dilution Analyses From Legal Theory to Practical Application

"Foreward" to D. A. Swanson, ed., *The Frontiers of Applied Demography* (2017)

Assess at: <https://www.researchgate.net/publication/311486631> Foreward to The Frontiers of Applied Demography 2017

"Projecting Future Demand for Assisted Living in the US: A Case Study," chapter 6 in D. A. Swanson, ed., *The Frontiers Applied Demography* (2017).

Access at:

<https://www.researchgate.net/publication/311800586> Projecting Future Demand for Assisted Living chap 6 in THE FRONTIERS OF APPLIED DEMOGRAPHY

"Health Care Access: The Hollow Promise," op-ed in *Starkville Daily News*, 10/18/2016 (coauthored with Ron Cossman).

Access at: <https://www.researchgate.net/publication/309458235> Health Care Access The Hollow Promise

"We have the data to make voting fair. Let's use it." op-ed in *The Washington Post*, 10/22/2015

Access at: <http://www.washingtonpost.com/news/in-theory/wp/2015/10/22/we-have-the-data-to-make-voting-fair-lets-use-it/>

Supreme Court of the United States. "Brief of Demographers Peter A. Morrison, Thomas M. Bryan, William A. V. Clark, Jacob S. Siegel, David A. Swanson, and The Pacific Research Institute as *Amici Curiae* in Support of Appellants," in *Evenwel et al. v. Abbott et al.*

Access at: <http://www.scotusblog.com/wp-content/uploads/2015/08/Demographers-Amicus.pdf>

"Exploring the Blizzard Babies Phenomenon," op-ed in *Providence Journal*, March 3, 2015.

Access at: [www.providencejournal.com/article/20150303/OPINION/150309836](http://www.providencejournal.com/article/20150303/OPINION/150309836)

"A Method to Forecast Hispanic Voting Strength at Local Scales," presented at Applied Demography Conference, San Antonio, Texas, January 8-10, 2014.

"Quantifying the Effect of Age Structure on Voter Registration," *Social Science Quarterly* (2014).

Access at: <http://onlinelibrary.wiley.com/doi/10.1111/ssqu.12059/abstract>

"Forecasting Hispanics' Ripening Voting Strength at Local Scales," presented at 2012 Annual Meeting of Southern Demographic Association, Williamsburg, VA

"Gauging Hispanics' Effective Voting Strength in Proposed Redistricting Plans: Lessons Learned Using ACS Data," (coauthored with T. Bryan), for National Academy of Sciences Workshop on the Benefits (and Burdens) of the American Community Survey, Case Studies/Agenda Book, chap. 5 (2012). Access at: [http://sites.nationalacademies.org/cs/groups/dbassesite/documents/webpage/dbasse\\_073124.pdf](http://sites.nationalacademies.org/cs/groups/dbassesite/documents/webpage/dbasse_073124.pdf)

"Chinese Workers Could Replace Mexican Immigrants," op-ed in *Houston Chronicle*, Aug. 12, 2011 (coauthored with Dudley Poston, Jr.).

Access at: [www.chron.com/opinion/outlook/article/Chinese-workers-could-replace-Mexican-immigrants-2077827.php](http://www.chron.com/opinion/outlook/article/Chinese-workers-could-replace-Mexican-immigrants-2077827.php)

"Integrating Census Data to Support a Motion for Change of Venue," *Population Research & Policy Review* (coauthored with Dean Judson), 2011. Access at: <http://paa2011.princeton.edu/papers/111043>

"An Evaluation of Additive and Hierarchical Classifications of Race/Ethnicity as Measured on Census 2000," coauthor (under review).

"Using the Census Bureau's Surname List to Improve Estimates of Race/Ethnicity and Associated Disparities," *Health Services and Outcomes Research Methodology* 9(2), pp.69-83 (coauthor). Access at: [www.rand.org/pubs/external\\_publications/EP20090611.html](http://www.rand.org/pubs/external_publications/EP20090611.html)

"Teaching Business Demography Using Case Studies," presented at the International Union for the Scientific Study of Population Seminar on Applications of Demography in Business, Sydney Australia, October 2007 (coauthor). Appears in *Population Research & Policy Review*.

Access at: <http://link.springer.com/article/10.1007/s11113-009-9155-4>

"Targeting Spatial Clusters of Elderly Consumers in the USA," presented at the International Union for the Scientific Study of Population Seminar on Applications of Demography in Business, Sydney Australia, October 2007 (coauthored with Thomas Bryan). Appears in *Population Research & Policy Review*. Access at: <http://link.springer.com/article/10.1007/s11113-009-9149-2>

"Assessing the Need for a New Medical School: A Case Study in Applied Demography," *Population Research & Policy Review* (coauthor).

"A New Method for Estimating Race/Ethnicity and Associated Disparities Where Administrative Records Lack Self-Reported Race/Ethnicity," coauthor, *Health Services Research Journal* 43(5), Oct. 2008. Access at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2653886/>

"Forecasting the Supply of and Demand for Physicians in the Inland Southern California Area" (coauthor), RAND Technical Report TR524, 2007.

"Evaluating a Claim of Discriminatory Annexation Using Demographic Analysis: An Instructional Case," at 2005 annual Southern Demographic Association meetings.

"Evaluating Evidence of Discrimination in Multi-Ethnic Housing Markets," *Population Research & Policy Review*, 2008 (coauthored with William A. V. Clark).

"Methods for Gauging the Target Populations that Community Colleges Serve," *Population Research & Policy Review* 26(1), 2007 (coauthored with L. Santibañez, G. Gonzalez, S. J. Carroll).

"Lingering Effects of Discrimination: Tracing Persistence Over Time in Local Populations," *Population Research & Policy Review*, 2006.

"China: Bachelor Bomb," *New York Times*, op-ed 09/14/2005 (coauthored with Dudley Poston)  
Access at: <http://www.rand.org/blog/2005/09/china-bachelor-bomb.html>

"Small-Area and Business Demography," chapter in D. Poston and M. Micklin, *Handbook of Population*, 2005 (coauthored with Stan Smith).

"Future Demographic Challenges to California School Districts," presented at 2005 annual Population Association of America meetings, session on School Demography.

"Demographic Overview of California's K-12 Public School Student Population," chap. 2 in S. J. Carroll et al., *California's K-12 Public Schools: How Are They Doing?* RAND MG-186, 2005.

"Counting on Demography: Fostering Applications of the Social Sciences," invited plenary address at the 2005 Southwestern Social Science Association meetings, New Orleans

"How Migration Flows Shape the Elderly Population of Metropolitan Pittsburgh," at 2004 annual Southern Demographic Association meetings, Hilton Head, SC (coauthored with Chris Briem)

"The Bright Lights in Pittsburgh's Future," op ed appearing in *Pittsburgh Post-Gazette*, Sept. 19, 2004 (coauthored with Barry Balmat)

"New Approaches to Spotting Enclaves of the Elderly Who Have Aged in Place," presented at 2004 Population Association of America meetings (coauthored with Tom Bryan).

"Developing an Arab-American Surname List: Potential Demographic and Health Research Applications," at 2003 Southern Demographic Association meetings (coauthored with B. Kestenbaum, D. Lauderdale, A. Abrahamse, S. El-Badry).

"A Demographic Overview of Metropolitan Pittsburgh," RAND Issue Paper IP-256 (2003).

"Confronting a Race-Based School Admissions Policy," *Chance* 16(1), 2003.

"An Overview of Business Demography in the U.S.A.," invited paper for the Australian Population Association's 11<sup>th</sup> Biennial Conference, Sydney, October 2002.

"Internal Migration and Short-Distance Mobility," Chapter 19 in D. Swanson, et al., *The Methods*

and *Materials of Demography*, rev. ed., 2003 (coau. with T.M. Bryan and D.A. Swanson).

"Business Demography," in P. Demeny and J. McNicholl, eds., *Encyclopedia of Population*, 2003 (coauthored with Stan Smith).

"A National Legacy of Migration," in Carla Blank, *Rediscovering America* (2003).

Review of J. S. Siegel, *Applied Demography: Applications to Business, Government, Law, and Public Policy* in *Population and Development Review* 28(1), 2002.

"A Demographic Perspective on Our Nation's Future," RAND Documented Briefing, 2001.

"Using First Names to Estimate Racial Proportions in Populations," presented at the 2001 Population Association of America meetings.

"At-Large Elections Under Legal Challenge: Where Demographic Analysis Fits In," presented at the 2000 Population Association of America meetings.

"Meeting Local Information Needs: A Case Study in Team Applied Demography," *Applied Demography Newsletter*, Population Association of America, Spring 2002 (coauthored).

"Gauging Future Prospects for a Neighborhood Vehicle: Where Demographic Analysis Fits In," at 1999 Southern Demographic Association meetings, San Antonio.

"Forecasting Enrollments for Immigrant Entry-Port School Districts," *Demography*, Nov. 2000.

"Charting Alternatives to a Segregated School Admissions Policy: Where Demographic Analysis Fits In," at 1998 Population Association of America meetings, Chicago (abridged version appears in *Chance*).

"Unveiling the Demographic 'Action' in Class Actions," *Population Research and Policy Review*, 1999.

"Family Policies and Demographic Realities," chapter in J.W. Hughes and J.J. Seneca, eds., *America's Demographic Tapestry: Baseline for the New Millennium*, Rutgers Univ. Press, 1999.

"Applying Demographic Analysis in Affirmative Action Disputes: An Instructional Case," *Population Research and Policy Review*, 1998.

"Demographic Influences on Latinos' Political Empowerment: Comparative Local Illustrations," *Population Research and Policy Review*, 1998.

"Demographic Change and School District Response: Assessing Alleged Discriminatory Effects of Boundary Changes," under review (with W.A.V. Clark).

"Forecasting Enrollments During Court-Ordered Desegregation," *Population Research and Policy Review*, 1996.



"Applying Demographic Analysis to Store Site Selection," *Population Research and Policy Review*, 1996 (with A. F. Abrahamse).

"Tracking Growth of Emerging Consumer Markets Worldwide: Where Demographic Analysis Fits In," presented at Sixth International Conference on Applied and Business Demography, Bowling Green, OH (coauthored).

"Tying Knots in the American Tapestry," Op-ed article, *Los Angeles Times*, Sept. 18, 1995.  
Access at: [http://articles.latimes.com/1995-09-18/local/me-47167\\_1\\_ethnic-identity](http://articles.latimes.com/1995-09-18/local/me-47167_1_ethnic-identity)

"Broadening Client Perspectives on Business Concerns," *Applied Demography*, Summer 1995.

"Demographic Foundations of Political Empowerment in Multi-Minority Cities," *Demography*, May, 1995 (with W.A.V. Clark).

"Demographic Perspectives on the Voting Rights Act," RAND P-7905, 1995 (briefing cohosted by U. S. House Subcommittee on Census and The Population Resource Center, Oct. 19, 1994).

*Demographics: A Casebook for Business and Government*, Westview Press, 1994 (coeditor).

"Empowered or Disadvantaged? Applications of Demographic Analysis to Political Redistricting," chapter in *Demographics* (cited above).

"A Riot of Color: The Demographic Setting of Civil Disturbance in Los Angeles," RAND P-7819 (with Ira S. Lowry). Condensed version appears in Mark Baldassare (ed.), *The Los Angeles Riots: Lessons for the Urban Future*, Westview, 1994.  
Access at: [https://www.researchgate.net/publication/311800927\\_A\\_Riot\\_of\\_Color\\_The\\_Demographic\\_Setting](https://www.researchgate.net/publication/311800927_A_Riot_of_Color_The_Demographic_Setting)

"Surname Analysis for Estimating Local Concentration of Hispanics and Asians," *Population Research and Policy Review*, 1994 (with A. F. Abrahamse).  
Access at: [https://www.researchgate.net/publication/270279296\\_Surname\\_Analysis\\_for\\_Estimating\\_Local\\_Concentrations](https://www.researchgate.net/publication/270279296_Surname_Analysis_for_Estimating_Local_Concentrations)

"The Demographic Context of Army Family Support Policy," chapter in M.J. Eitelberg and S.L. Mehay (eds.), *Marching Toward the 21st Century* (Greenwood Press, 1994).

"Strategic Sleuths," *Forecast Magazine*, Nov/Dec 1993.

"Congress and the Year 2000: Peering into the Demographic Future," *Business Horizons*, Nov/Dec 1993 (condensation of RAND N-3279 cited below).

"A California That Can Work: People, Productivity, and Energy," RAND P-7828 (invited testimony before the California Energy Commission, June 1993).

"Goodbye Past, Hello Future: California's Demographic Shift," Op-ed article, *Los Angeles Times*, September 13, 1993.

"More than Meets the Eye," *Chance*, May 1993.

"Employment Discrimination: How Demographic Analysis Fits In," presented at Fourth International Conf. on Applied Demography, Bowling Green, Ohio, September 1992.

"Is 'Aging in Place' a Blueprint for the Future?" Association of American Geographers Meeting, San Diego, RAND, P-7794, 1992.

"Gauging Hispanic Voting Strength: Pitfalls and Paradoxes," *Population Research and Policy Review*, 1992 (with W.A.V. Clark).

"Local Redistricting: The Demographic Context of Local Boundary Drawing," *National Civic Review*, Winter/Spring 1992 (with W.A.V. Clark).

"Mirroring the Mosaic: Redistricting in a Context of Cultural Pluralism," RAND, P-7789, 1992.

"Testimony before House Subcommittee on Census and Population," RAND, P-7784, 1992.

"Healthier Childhoods and Family Responsibility: Two Issue Papers," RAND, P-7788, 1992.

"How Demographic Analysis Supports Redistricting," for Mandatory Continuing Legal Education course sponsored by County Counsels Association of California, January 1992.

"California's Future: More to Come," Op-ed article, *The Los Angeles Times*, Dec. 3, 1991.  
Access at: [http://articles.latimes.com/1991-12-03/local/me-416\\_1\\_future-growth](http://articles.latimes.com/1991-12-03/local/me-416_1_future-growth)

*Soldiers' Families: Tracking Their Well-Being During Peacetime and War*, RAND, N-3405-A, 1992 (coauthor).

"California's Demographic Outlook: Implications for Growth Management," RAND, P-7738, 1991.

"The Changing Demographic Context of Postsecondary Education," RAND, P-7737, 1991.

"The Demographer's Role in the Local Boundary-Drawing Process," RAND, P-7711, 1991 (coauthor).

"Looking In From Outside: Enhancing Demographic Perspectives on Business Concerns," given at 1991 Population Association of America meetings.

"Demographic Paradoxes in the Los Angeles Voting Rights Case," *Evaluation Review*, 1991 (with W.A.V. Clark).

"Future Images—Childhood, The Workplace, Our Communities," RAND P-7656, 1990.

"The Changing Demographic Context of Municipal Governance," RAND P-7654, 1990.

"Pitfalls in Estimating Eligible Voters Among Hispanics," coauthored, given at 1990 Population Association of America meetings.

"Demographic Factors Reshaping Ties to Family and Place," *Research on Aging*, Dec. 1990.

"Applied Demography: Its Growing Scope and Future Direction," *The Futurist*, March/April 1990.

"A Demographic Perspective on Future Issues," *Congressional Research Service CRS Review*, Jan/Feb 1990.

"Leaving School Early: 'Stopping Out' and Dropping Out Among American Youth," given at the 1989 American Sociological Association meetings (with Jane Mauldon).

*A Taste of the Country: A Collection of Calvin Beale's Writings*, editor and author of introduction (Penn State Univ. Press), 1990.

*Families in the Army: Looking Ahead*, RAND, R-3691-A, 1989 (coauthor).

"Quantifying Legal Standards in Section 2 Voting Rights Cases," paper given at Population Association of America.

*Congress and the Year 2000: A Demographic Perspective on Future Issues*, RAND, N-3279, March 1991.

"What Tomorrow's Demographers Will Be Called Upon to Do," RAND P-7469, 1988.

*Beyond Stereotypes: Who Becomes a Single Teenage Mother?*, RAND R-3489, 1988 (coau.).

"Government Must Help Families With Long-term Care for Elderly," op-ed article, *The Atlanta Constitution*, April 19, 1988.

"Teens Willing to Consider Single Parenthood: Who is at Greatest Risk?" *Family Planning Perspectives*, Jan/Feb, 1988 (coauthor).

*The Current Demographic Context of Federal Social Programs*, RAND, N-2785, 1988.

"Demographic Factors Reshaping the U.S. Market for New Housing," RAND, P-7467, 1988.

"Applied Demography: Its Current Scope and Future Direction in the United States," RAND Paper, 1988.

*Public Libraries Face California's Ethnic and Racial Diversity*, RAND, R-3656, 1988 (coauthor, Chapter 4).

"Changing Demographics: What to Watch For," *Business Economics*, 1987.

"Continuity and Change Across the Population Sciences," RAND, P-7281, 1986.

"Pro-Family Laws May Miss the Mark," op-ed article in *The Wall Street Journal*, Dec. 5, 1986.

*Changing Family Structure: Who Cares for America's Dependents?* RAND, N-2518, 1986.

"Accounting for the Educational Shortfalls of Mothers," *Journal of Marriage and the Family*, 1986 (coauthored).

"The Prism of Migration," *Social Science Quarterly*, 1986 (with Julie DaVanzo).

Access at: <https://www.researchgate.net/publication/284957921> The prism of migration Dissimilarities between return and onward movers

*How Demographic Shifts Will Affect the IRS and Its Mission*, RAND, P-7170, 1985.

Access at: <http://www.poline.org/node/421417>

"Characteristics of Migrants from Metropolitan to Nonmetropolitan Areas in the U.S.A.," *Espace Populations Societes*, 1985 (with Kevin McCarthy).

*Demographics and Business Decisionmaking: Prospects and Possibilities for the 1980s*, RAND, P-7017, 1984. Appears in *Marketing Review*, Fall 1985.

"Tracking People," *Group Practice Journal*, July/August 1984.

*Demographic Forces Reshaping Small Communities in the 1980s*, RAND, N-1887, 1982 (coauthor). Appears in *Southwestern Review of Management and Economics*, 1984.

*Population Movements: Their Forms and Functions in Urbanization and Development*, published by Ordina for International Union for the Scientific Study of Population, 1983 (editor and author of Chap. 1).

*Current Demographic Trends and Federal Policy: An Overview*, RAND, N-2030, 1983.

"Is Population Deconcentration Lengthening Commuting Distances?" *Population Research and Policy Review*, 1983 (with Kevin McCarthy).

*Migration Sequences: Who Moves Back and Who Moves On?*, RAND, R-2548-NICHD, 1982 (with Julie DaVanzo).

*Demographic Challenges in America's Future*, RAND, R-2911, 1982 (with William P. Butz).

"Different Approaches to Monitoring Local Demographic Change," chapter in E. S. Lee and H. F. Goldsmith, eds., *Population Estimates: Methods for Small Area Analysis*, Sage, 1982.

"The Energy Situation and the World of Californians," in *Regional Perspectives on Energy Issues*, (The Conference Board, July 1982).

*Demographic Certainties and Uncertainties in the Future of Social Security*, RAND, N-1742-NICHD, 1981 (invited Senate testimony). Appears in *Challenge: The Magazine of Economic Affairs*, Jan.-Feb., 1982.

"There Are Just Too Many Uncertainties," op-ed article, *The Sacramento Bee*, 9/20/81.

*Teenage Parenthood: A Review of Risks and Consequences*, RAND N-1714, 1981 (coau.).

*Teenage Parents: Their Ambitions and Attainments*, RAND, R-2771, 1981 (coau.).

"Return and Other Sequences of Migration in the U.S.," *Demography*, 1981 (coau.).

"How Demographers Can Help Legislators," *Policy Analysis*, 1980.

*Accommodating the Demography of the 1980s*, Midcontinent Perspective Series, Midwest Research Institute, December 1980.

*City Data: A Catalog of Data Sources for Small Cities*, RAND, R-2612, 1980 (coauthored).

Access at: <https://www.rand.org/content/dam/rand/pubs/reports/2008/R2612.pdf>

*Consequences of Parenthood in Late Adolescence: Findings from the National Longitudinal Study of High School Seniors*, RAND, N-1343-NICHD, 1979 (coauthored).

"Demographic Trends Impinging on Energy Use," chapter in Charles T. Unsel et al., *Sociopolitical Effects of Energy Use and Policy*, National Academy of Sciences, Washington, D.C., 1979.

*The Future Demographic Context of the Health Care Delivery System*, RAND, N-1347, 1979.

"The Transition to Zero Population Growth in the Midwest," chapter in C. C. Roseman (ed.), *Population Redistribution in the Midwest*.

"Current Demographic Change in Regions of the United States," chapter in V. L. Arnold (ed.), *Alternatives to Confrontation: A National Policy Toward Regional Change*; condensed version appears in *American Demographics*, May 1979.

*Overview of Demographic Trends Shaping the Nation's Future*, RAND, P-6128, 1978 (testimony before Joint Economic Committee of Congress).

Access at: <http://www.ponline.org/node/440950>

*The Current Demographic Context of National Growth and Development*, RAND, P-5514, 1975 (Congressional testimony); published in condensed form in L. S. Bourne and J. W. Simmons (eds.), *Systems of Cities*, Oxford Univ. Press, 1978, Chap. 6.6.

"Emerging Public Concerns Over U.S. Population Movements in an Era of Slowing Growth," in T. Espenshade and W. Serow (eds.), *The Economic Consequences of Slowing Population Growth*, 1978.

"The Image of 'Elsewhere' in the American Tradition of Migration" (coauthored), in W. H. McNeill and R. S. Adams (eds.), *Human Migration: Patterns, Policies, Implications*, Indiana University Press, Bloomington, Indiana, 1978.

"New York State's Transition to Stability: The Demographic Outlook," in Ben Chinitz (ed.), *The Declining of New York in the 1970s: A Demographic and Economic Analysis*, Praeger, 1978.

*Toward A Policy Planner's View of the Urban Settlement System*, RAND, P-5357, 1975; condensed version appears in L. S. Bourne and J. W. Simmons (eds.), *Systems of Cities*, Oxford University Press, 1978, Chap. 7.3.

"The Changing Demographic and Economic Structure of Nonmetropolitan Areas in the U.S.," *International Regional Science Review*, 2(2), 1977 (with Kevin McCarthy).

"Forecasting Population of Small Areas: An Overview," in *Population Forecasting for Small Areas*, Oak Ridge Associated Universities, Oak Ridge, Tennessee, 1977.

"Demographic Trends That Will Shape Future Housing Demand," *Policy Sciences*, 1977.

"The Functions and Dynamics of the Migration Process" (Chap. 4); and "Urban Growth and Decline in the U.S.: A Study of Migration's Effects in Two Cities" (Chap. 14), in A. Brown and E. Neuberger (eds.), *Internal Migration: A Comparative Perspective*, Academic Press, 1977.

*San Jose and St. Louis in the 1960s: A Case Study of Changing Urban Populations*, RAND, R-1313-NSF, 1973; adaptation appears in S. Goldstein and D. Sly (eds.), *Patterns of Urbanization: Comparative Country Studies*, International Union for Scientific Study of Population, Liege, Belgium, 1977.

*Rural Renaissance in America? The Revival of Population Growth in Remote Areas*, Population Reference Bureau, Inc., 1976.

*National Longitudinal Study of High School Seniors: An Agenda for Policy Research*, RAND, R-1964-HEW, 1976 (coauthored).

*The Demographic Context of Educational Policy Planning*, Occasional Paper of the Aspen Institute for Humanistic Studies, 1976.

"A Method for Monitoring Small-Area Population Changes in Cities," *Review of Public Data Use*, April 1975 (coauthored).

*Recent Research Insights into Local Migration Flows*, RAND, P-5379, 1975 (coauthored).

*Population Movements and the Shape of Urban Growth: Implications for Public Policy*, RAND, R-1072-CPG, 1972 (Commission on Population Growth and the American Future, *Research Reports*, Vol. V, 1973); adaptation appears in J. Friedmann and W. Alonso, *Regional Policy: Readings in Theory and Applications*, MIT Press, 1975.

"Urban Growth and Decline: San Jose and St. Louis in the 1960s," *Science*, 1974.

*Review of Federal Programs to Alleviate Rural Deprivation*, RAND, R-1651, 1974 (coauth.).

"Guiding Urban Growth: Policy Issues and Demographic Constraints," RAND P-5212, 1974.

Access at: [https://www.academia.edu/29836028/Guiding\\_urban\\_growth\\_Policy\\_issues\\_and\\_demographic\\_constraints](https://www.academia.edu/29836028/Guiding_urban_growth_Policy_issues_and_demographic_constraints)

"A Demographic Assessment of New Cities and Growth Centers as Population Redistribution Strategies," *Public Policy*, 1973.

*Dimensions of the Population Problem in the United States* RAND, R-864-CPG, 1972 (Comm. on Population Growth and the Amer. Future, *Research Reports*, Vol. V, 1973).

*How Population Movements Shape National Growth*, RAND, P-5007, 1973 (Congressional Seminar on National Growth Policy).

*Migration from Distressed Areas: Its Meaning for Regional Policy*, RAND, R-1103, 1973.

"Theoretical Issues in the Design of Population Mobility Models," *Environment and Planning*, 1973.

*The Impact and Significance of the Rural-Urban Migration in the United States*, RAND, P-4752, 1972 (testimony before U.S. Senate Subcommittee on Migratory Labor and Public Welfare).

"Chronic Movers and the Future Redistribution of Population," *Demography*, 1971.

*Demographic Information for Cities: A Manual for Estimating and Projecting Local Population Characteristics*, RAND R-618, 1971. <https://www.rand.org/pubs/reports/R0618.html>

"The Role of Migration in California's Growth," in K. Davis and F. Styles (eds.), *California's Twenty Million: Research Contributions to Public Policy*, Institute of International Studies, University of California, Berkeley, 1971.

"Duration of Residence and Prospective Migration," *Demography*, 1967.

(Updated: March, 2018)

# Appendix C



Census Block	Total Population (all ages)	Cumulative Total Population	Eligible Voter Population			Cumulative Eligible Voter Pop'n		
			Total	Latino	% Latino	Total	Latino	% Latino
060377018011014	3	3	3	3	100.0%	3	3	100.0%
06037702021003	1	4	1	1	100.0%	4	4	100.0%
060377018013014	9	13	6	6	100.0%	10	10	100.0%
060377021024014	1	14	1	1	100.0%	11	11	100.0%
060377018013017	9	23	6	6	100.0%	17	17	100.0%
060377018022004	30	53	28	26	92.9%	45	43	95.6%
060377018013008	13	66	7	6	85.7%	52	49	94.2%
060377018015016	64	130	51	43	84.3%	103	92	89.3%
060377018021012	141	271	94	77	81.9%	197	169	85.8%
060377018011028	20	291	16	13	81.3%	213	182	85.4%
060377018015016	27	318	23	18	78.3%	236	200	84.7%
060377018013018	251	569	207	139	67.1%	443	339	76.5%
060377018014021	3	572	3	2	66.7%	446	341	76.5%
060377017013005	6	578	6	4	66.7%	452	345	76.3%
060377019023010	3	581	3	2	66.7%	455	347	76.3%
060377017022000	80	661	61	40	65.6%	516	387	75.0%
060377018024012	92	753	72	47	65.3%	588	434	73.8%
060377018015026	98	851	84	54	64.3%	672	488	72.6%
060377018012017	29	880	22	14	63.6%	694	502	72.3%
060377018012004	98	978	84	51	60.7%	778	553	71.1%
060377018015025	64	1,042	53	32	60.4%	831	585	70.4%
060377018011026	102	1,144	85	51	60.0%	916	636	69.4%
060377023004028	10	1,154	10	6	60.0%	926	642	69.3%
060377018015022	120	1,274	103	59	57.3%	1,029	701	68.1%
060377018021016	152	1,426	88	49	55.7%	1,117	750	67.1%
060377018011019	9	1,435	9	5	55.6%	1,126	755	67.1%
060377023003004	59	1,494	49	26	53.1%	1,175	781	66.5%
060377018012003	81	1,575	70	37	52.9%	1,245	818	65.7%
060377022021007	59	1,634	56	29	51.8%	1,301	847	65.1%
060377018021011	119	1,753	94	48	51.1%	1,395	895	64.2%
060377018013005	9	1,762	8	4	50.0%	1,403	899	64.1%
060377018012006	100	1,862	86	43	50.0%	1,489	942	63.3%
060377020204013	6	1,868	4	2	50.0%	1,493	944	63.2%
060377018021017	7	1,875	6	3	50.0%	1,499	947	63.2%
060377018022001	105	1,980	80	39	48.8%	1,579	986	62.4%
060377018015024	574	2,554	452	220	48.7%	2,031	1,206	59.4%
060377018012013	34	2,588	31	15	48.4%	2,062	1,221	59.2%
060377018023006	66	2,654	54	26	48.1%	2,116	1,247	58.9%
060377018015020	129	2,783	109	52	47.7%	2,225	1,299	58.4%
060377018022014	160	2,943	97	46	47.4%	2,322	1,345	57.9%
060377017022010	61	3,004	56	26	46.4%	2,378	1,371	57.7%
060377018021010	105	3,109	87	40	46.0%	2,465	1,411	57.2%
060377018012011	57	3,166	46	21	45.7%	2,511	1,432	57.0%
060377018012010	31	3,197	31	14	45.2%	2,542	1,446	56.9%
060377019023034	9	3,206	9	4	44.4%	2,551	1,450	56.8%
060377021021003	9	3,215	9	4	44.4%	2,560	1,454	56.8%
060377018013012	94	3,309	68	30	44.1%	2,628	1,484	56.5%
060377022013011	72	3,381	53	23	43.4%	2,681	1,507	56.2%
060377018011030	18	3,399	14	6	42.9%	2,695	1,513	56.1%
060377018013003	16	3,415	14	6	42.9%	2,709	1,519	56.1%
060377018024014	41	3,456	28	12	42.9%	2,737	1,531	55.9%
060377018022008	218	3,674	178	75	42.1%	2,915	1,606	55.1%
060377021023008	18	3,692	12	5	41.7%	2,927	1,611	55.0%
060377022021003	249	3,941	207	85	41.1%	3,134	1,696	54.1%
060377018014003	446	4,387	362	147	40.6%	3,496	1,843	52.7%
060377014021002	5	4,392	5	2	40.0%	3,501	1,845	52.7%
060377018024004	8	4,400	5	2	40.0%	3,506	1,847	52.7%
060377018014003	540	4,940	463	183	39.5%	3,969	2,030	51.1%
060377017022013	183	5,123	119	47	39.5%	4,088	2,077	50.8%
060377022013003	31	5,154	28	11	39.3%	4,116	2,088	50.7%
060377017022005	99	5,253	87	34	39.1%	4,203	2,122	50.5%
060377018015028	45	5,298	41	16	39.0%	4,244	2,138	50.4%
060377013041005	24	5,322	18	7	38.9%	4,262	2,145	50.3%
060377018021013	187	5,509	145	56	38.6%	4,407	2,201	49.9%
060377018015028	69	5,578	58	22	37.9%	4,465	2,223	49.8%
060377017021008	84	5,662	66	25	37.9%	4,531	2,248	49.6%
060377018021014	188	5,850	152	57	37.5%	4,683	2,305	49.2%
060377018012012	33	5,883	27	10	37.0%	4,710	2,315	49.2%
060377018021015	177	6,060	146	54	37.0%	4,856	2,369	48.8%
060377023003003	65	6,125	60	22	36.7%	4,916	2,391	48.6%
060377021022001	49	6,174	41	15	36.6%	4,957	2,406	48.5%
060377018011012	58	6,232	50	18	36.0%	5,007	2,424	48.4%
060377014023012	210	6,442	178	64	36.0%	5,185	2,488	48.0%
060377018023004	15	6,457	14	5	35.7%	5,199	2,493	48.0%
060377018024031	20	6,477	14	5	35.7%	5,213	2,498	47.9%
060377023004016	57	6,534	42	15	35.7%	5,255	2,513	47.8%
060377018021008	98	6,632	79	28	35.4%	5,334	2,541	47.6%
060377018012002	40	6,672	29	10	34.5%	5,363	2,551	47.6%
060377021022002	46	6,718	41	14	34.1%	5,404	2,565	47.5%
060377018022000	3	6,721	3	1	33.3%	5,407	2,566	47.5%
060377022013008	30	6,751	27	9	33.3%	5,434	2,575	47.4%
060377022024019	3	6,754	3	1	33.3%	5,437	2,576	47.4%
060377018021002	51	6,805	39	13	33.3%	5,476	2,589	47.3%
060377018022021	3	6,808	3	1	33.3%	5,479	2,590	47.3%
060377018021006	168	6,976	132	44	33.3%	5,611	2,634	46.9%
060377021023004	13	6,989	12	4	33.3%	5,623	2,638	46.9%
060377018023000	3	6,992	3	1	33.3%	5,626	2,639	46.9%
060377018013011	55	7,047	39	13	33.3%	5,665	2,652	46.8%
060377023004001	152	7,199	118	39	33.1%	5,783	2,691	46.5%
060377013042005	57	7,256	43	14	32.6%	5,826	2,705	46.4%
060377022015010	36	7,292	28	9	32.1%	5,854	2,714	46.4%
060377018024011	138	7,430	112	36	32.1%	5,966	2,750	46.1%
060377017021003	83	7,513	78	25	32.1%	6,044	2,775	45.9%
060377018022005	118	7,631	101	32	31.7%	6,145	2,807	45.7%
060377017021004	21	7,652	16	5	31.3%	6,161	2,812	45.6%
06037702023003	94	7,746	77	24	31.2%	6,238	2,836	45.5%
060377017012008	39	7,785	36	11	30.6%	6,274	2,847	45.4%
060377018012007	43	7,828	36	11	30.6%	6,310	2,858	45.3%
060377018024025	59	7,887	59	18	30.5%	6,369	2,876	45.2%
060377018013009	26	7,913	23	7	30.4%	6,392	2,883	45.1%
060377017011002	90	8,003	79	24	30.4%	6,471	2,907	44.9%

060377020023005	96	8,099		25	30.1%	6,554	2,932	44.7%
060377010021019	11	8,110	10	3	30.0%	6,564	2,935	44.7%
060377023004011	36	8,146	30	9	30.0%	6,594	2,944	44.6%
060377022015001	28	8,174	20	6	30.0%	6,614	2,950	44.6%
060377017021001	30	8,204	20	6	30.0%	6,634	2,956	44.6%
060377017021001	29	8,233	27	8	29.6%	6,661	2,964	44.5%
060377018014004	188	8,421	162	47	29.0%	6,823	3,011	44.1%
060377020022007	327	8,748	252	73	29.0%	7,075	3,084	43.6%
060377016022016	53	8,801	42	12	28.6%	7,117	3,096	43.5%
060377022011001	7	8,808	7	2	28.6%	7,124	3,098	43.5%
06037701801	56	8,864	49	14	28.6%	7,173	3,112	43.4%
06037701901	8	8,872	7	2	28.6%	7,180	3,114	43.4%
060377022101	9	8,881	7	2	28.6%	7,187	3,116	43.4%
06037701901	43	8,924	32	9	28.1%	7,219	3,125	43.3%
06037702301	33	8,957	32	9	28.1%	7,251	3,134	43.2%
06037702201	69	9,026	62	17	27.4%	7,313	3,151	43.1%
06037702101	65	9,091	55	15	27.3%	7,368	3,166	43.0%
06037702001	55	9,146	48	13	27.1%	7,416	3,179	42.9%
06037702001	239	9,385	196	53	27.0%	7,612	3,232	42.5%
06037701701	63	9,448	52	14	26.9%	7,664	3,246	42.4%
06037701701	35	9,483	26	7	26.9%	7,690	3,253	42.3%
06037702101	80	9,563	71	19	26.8%	7,761	3,272	42.2%
06037701701	65	9,628	60	16	26.7%	7,821	3,288	42.0%
06037701801	36	9,664	27	7	25.9%	7,848	3,295	42.0%
06037701901	31	9,695	31	8	25.8%	7,879	3,303	41.9%
06037701801	42	9,737	35	9	25.7%	7,914	3,312	41.8%
06037701701	60	9,797	55	14	25.5%	7,969	3,326	41.7%
06037702201	127	9,924	114	29	25.4%	8,083	3,355	41.5%
06037702201	29	9,953	20	5	25.0%	8,103	3,360	41.5%
06037702201	13	9,966	12	3	25.0%	8,115	3,363	41.4%
06037702301	54	10,020	44	11	25.0%	8,159	3,374	41.4%
06037701901	4	10,024	4	1	25.0%	8,163	3,375	41.3%
06037701301	14	10,038	12	3	25.0%	8,175	3,378	41.3%
06037701801	39	10,077	36	9	25.0%	8,211	3,387	41.2%
06037701801	64	10,141	52	13	25.0%	8,263	3,400	41.1%
06037702201	18	10,159	16	4	25.0%	8,279	3,404	41.1%
06037701701	23	10,182	20	5	25.0%	8,299	3,409	41.1%
06037701801	41	10,223	29	7	24.1%	8,328	3,416	41.0%
06037701801	189	10,412	174	42	24.1%	8,502	3,458	40.7%
06037701701	67	10,479	58	14	24.1%	8,560	3,472	40.6%
06037702201	69	10,548	54	13	24.1%	8,614	3,485	40.5%
06037702201	55	10,603	46	11	23.9%	8,660	3,496	40.4%
06037701801	48	10,651	42	10	23.8%	8,702	3,506	40.3%
06037702101	91	10,742	72	17	23.6%	8,774	3,523	40.2%
06037701801	62	10,804	51	12	23.5%	8,825	3,535	40.1%
06037701801	43	10,847	34	8	23.5%	8,859	3,543	40.0%
06037701701	51	10,898	43	10	23.3%	8,902	3,553	39.9%
06037701801	13	10,911	13	3	23.1%	8,915	3,556	39.9%
06037701701	83	10,994	79	18	22.8%	8,994	3,574	39.7%
06037701701	49	11,043	44	10	22.7%	9,038	3,584	39.7%
06037702201	77	11,120	72	16	22.2%	9,110	3,600	39.5%
06037701801	9	11,129	9	2	22.2%	9,119	3,602	39.5%
06037701701	40	11,169	36	8	22.2%	9,155	3,610	39.4%
06037701801	177	11,346	150	33	22.0%	9,305	3,643	39.2%
06037702201	48	11,394	41	9	22.0%	9,346	3,652	39.1%
06037702101	38	11,432	28	6	21.4%	9,374	3,658	39.0%
06037701801	157	11,589	132	28	21.2%	9,506	3,686	38.8%
06037701801	171	11,760	147	31	21.1%	9,653	3,717	38.5%
06037702201	20	11,780	19	4	21.1%	9,672	3,721	38.5%
06037702001	47	11,827	43	9	20.9%	9,715	3,730	38.4%
06037702301	157	11,984	120	25	20.8%	9,835	3,755	38.2%
06037702201	30	12,014	24	5	20.8%	9,859	3,760	38.1%
06037702201	56	12,070	53	11	20.8%	9,912	3,771	38.0%
06037701801	102	12,172	82	17	20.7%	9,994	3,788	37.9%
06037701701	35	12,207	34	7	20.6%	10,028	3,795	37.8%
06037702301	37	12,244	34	7	20.6%	10,062	3,802	37.8%
06037701701	97	12,341	83	17	20.5%	10,145	3,819	37.6%
06037702301	148	12,489	123	25	20.3%	10,268	3,844	37.4%
06037702201	55	12,544	50	10	20.0%	10,318	3,854	37.4%
06037701701	27	12,571	25	5	20.0%	10,343	3,859	37.3%
06037702201	35	12,606	25	5	20.0%	10,368	3,864	37.3%
06037702201	30	12,636	20	4	20.0%	10,388	3,868	37.2%
06037702101	5	12,641	5	1	20.0%	10,393	3,869	37.2%
06037701801300	34	12,675	25	5	20.0%	10,418	3,874	37.2%
06037702300300	64	12,739	45	9	20.0%	10,463	3,883	37.1%
06037702102201	20	12,759	15	3	20.0%	10,478	3,886	37.1%
06037701804200	5	12,764	5	1	20.0%	10,483	3,887	37.1%
06037701601401	16	12,780	10	2	20.0%	10,493	3,889	37.1%
06037701701102	82	12,862	66	13	19.7%	10,559	3,902	37.0%
06037701802100	77	12,939	67	13	19.4%	10,626	3,915	36.8%
06037701802403	73	13,012	62	12	19.4%	10,688	3,927	36.7%
06037701902200	47	13,059	47	9	19.1%	10,735	3,936	36.7%
06037701701100	47	13,106	47	9	19.1%	10,782	3,945	36.6%
06037701601	27	13,133	21	4	19.0%	10,803	3,949	36.6%
06037701701	45	13,178	42	8	19.0%	10,845	3,957	36.5%
06037702201	25	13,203	21	4	19.0%	10,866	3,961	36.5%
06037701901	256	13,459	247	47	19.0%	11,113	4,008	36.1%
06037702301	82	13,541	74	14	18.9%	11,187	4,022	36.0%
06037701701	88	13,629	69	13	18.8%	11,256	4,035	35.8%
06037702201	209	13,838	186	35	18.8%	11,442	4,070	35.6%
06037701301	35	13,873	32	6	18.8%	11,474	4,076	35.5%
06037701301	42	13,915	32	6	18.8%	11,506	4,082	35.5%
06037702101	303	14,218	257	48	18.7%	11,763	4,130	35.1%
06037702201	57	14,275	43	8	18.6%	11,806	4,138	35.0%
06037701501	108	14,383	97	18	18.6%	11,903	4,156	34.9%
06037701301	32	14,415	27	5	18.5%	11,930	4,161	34.9%
06037701601	67	14,482	49	9	18.4%	11,979	4,170	34.8%
06037702201	63	14,545	49	9	18.4%	12,028	4,179	34.7%
06037701801	129	14,674	109	20	18.3%	12,137	4,199	34.6%
06037702201	66	14,740	60	11	18.3%	12,197	4,210	34.5%
06037701701	29	14,769	22	4	18.2%	12,219	4,214	34.5%
06037702201	46	14,815	44	8	18.2%	12,263	4,222	34.4%
06037702301	26	14,841	22	4	18.2%	12,285	4,226	34.4%

0603770170:	11	14,852	11	2	18.2%	12,296	4,228	34.4%
0603770150:	13	14,865	11	2	18.2%	12,307	4,230	34.4%
0603770130:	16	14,881	11	2	18.2%	12,318	4,232	34.4%
0603770230:	199	15,080	160	29	18.1%	12,478	4,261	34.1%
0603770230:	298	15,378	222	40	18.0%	12,700	4,301	33.9%
0603770150:	54	15,432	50	9	18.0%	12,750	4,310	33.8%
0603770150:	94	15,526	78	14	17.9%	12,828	4,324	33.7%
0603770180:	83	15,609	67	12	17.9%	12,895	4,336	33.6%
0603770210:	34	15,643	28	5	17.9%	12,923	4,341	33.6%
0603770220:	29	15,672	28	5	17.9%	12,951	4,346	33.6%
0603770230:	56	15,728	45	8	17.8%	12,996	4,354	33.5%
0603770170:	138	15,866	124	22	17.7%	13,120	4,376	33.4%
0603770210:	110	15,976	96	17	17.7%	13,216	4,393	33.2%
0603770170:	20	15,996	17	3	17.6%	13,233	4,396	33.2%
0603770180:	83	16,079	74	13	17.6%	13,307	4,409	33.1%
0603770220:	67	16,146	57	10	17.5%	13,364	4,419	33.1%
0603770220:	30	16,176	23	4	17.4%	13,387	4,423	33.0%
0603770180:	94	16,270	75	13	17.3%	13,462	4,436	33.0%
0603770200:	150	16,420	134	23	17.2%	13,596	4,459	32.8%
0603770220:	56	16,476	41	7	17.1%	13,637	4,466	32.7%
0603770180:	103	16,579	94	16	17.0%	13,731	4,482	32.6%
0603770230:	190	16,769	165	28	17.0%	13,896	4,510	32.5%
0603770230:	244	17,013	195	33	16.9%	14,091	4,543	32.2%
0603770170:	61	17,074	54	9	16.7%	14,145	4,552	32.2%
0603770130:	24	17,098	18	3	16.7%	14,163	4,555	32.2%
0603770230:	61	17,159	42	7	16.7%	14,205	4,562	32.1%
0603770170:	76	17,235	66	11	16.7%	14,271	4,573	32.0%
0603770190:	6	17,241	6	1	16.7%	14,277	4,574	32.0%
0603770210:	40	17,281	30	5	16.7%	14,307	4,579	32.0%
0603770230:	18	17,299	18	3	16.7%	14,325	4,582	32.0%
0603770150:	131	17,430	126	21	16.7%	14,451	4,603	31.9%
0603770210:	25	17,455	24	4	16.7%	14,475	4,607	31.8%
0603770170:	46	17,501	36	6	16.7%	14,511	4,613	31.8%
0603770230:	17	17,518	12	2	16.7%	14,523	4,615	31.8%
0603770230:	19	17,537	12	2	16.7%	14,535	4,617	31.8%
0603770200:	35	17,572	24	4	16.7%	14,559	4,621	31.7%
0603770230:	26	17,598	24	4	16.7%	14,583	4,625	31.7%
0603770170:	110	17,708	97	16	16.5%	14,680	4,641	31.6%
0603770170:	64	17,772	55	9	16.4%	14,735	4,650	31.6%
0603770170:	130	17,902	110	18	16.4%	14,845	4,668	31.4%
0603770200:	67	17,969	55	9	16.4%	14,900	4,677	31.4%
0603770170:	97	18,066	86	14	16.3%	14,986	4,691	31.3%
0603770200:	320	18,386	283	46	16.3%	15,269	4,737	31.0%
0603770220:	39	18,425	31	5	16.1%	15,300	4,742	31.0%
0603770230:	31	18,456	25	4	16.0%	15,325	4,746	31.0%
0603770130:	33	18,489	25	4	16.0%	15,350	4,750	30.9%
0603770160:	88	18,577	75	12	16.0%	15,425	4,762	30.9%
0603770180:	162	18,739	138	22	15.9%	15,563	4,784	30.7%
0603770150:	99	18,838	82	13	15.9%	15,645	4,797	30.7%
0603770150:	155	18,993	139	22	15.8%	15,784	4,819	30.5%
0603770190:	173	19,166	152	24	15.8%	15,936	4,843	30.4%
0603770170:	40	19,206	38	6	15.8%	15,974	4,849	30.4%
0603770220:	152	19,358	140	22	15.7%	16,114	4,871	30.2%
0603770190:	51	19,409	51	8	15.7%	16,165	4,879	30.2%
0603770170:	50	19,459	45	7	15.6%	16,210	4,886	30.1%
0603770160:	51	19,510	45	7	15.6%	16,255	4,893	30.1%
0603770170:	65	19,575	58	9	15.5%	16,313	4,902	30.0%
0603770160:	80	19,655	71	11	15.5%	16,384	4,913	30.0%
0603770220:	98	19,753	78	12	15.4%	16,462	4,925	29.9%
0603770130:	22	19,775	13	2	15.4%	16,475	4,927	29.9%
0603770160:	18	19,793	13	2	15.4%	16,488	4,929	29.9%
0603770230:	53	19,846	39	6	15.4%	16,527	4,935	29.9%
0603770160:	86	19,932	72	11	15.3%	16,599	4,946	29.8%
0603770160:	50	19,982	46	7	15.2%	16,645	4,953	29.8%
0603770170:	86	20,068	66	10	15.2%	16,711	4,963	29.7%
0603770170:	107	20,175	86	13	15.1%	16,797	4,976	29.6%
0603770130:	28	20,203	20	3	15.0%	16,817	4,979	29.6%
0603770220:	28	20,231	20	3	15.0%	16,837	4,982	29.6%
0603770220:	91	20,322	87	13	14.9%	16,924	4,995	29.5%
0603770180:	181	20,503	161	24	14.9%	17,085	5,019	29.4%
0603770220:	58	20,561	47	7	14.9%	17,132	5,026	29.3%
0603770210:	276	20,837	243	36	14.8%	17,375	5,062	29.1%
0603770220:	28	20,865	27	4	14.8%	17,402	5,066	29.1%
0603770220:	61	20,926	61	9	14.8%	17,463	5,075	29.1%
0603770160:	120	21,046	102	15	14.7%	17,565	5,090	29.0%
0603770210:	35	21,081	34	5	14.7%	17,599	5,095	29.0%
0603770210:	68	21,149	68	10	14.7%	17,667	5,105	28.9%
0603770170:	68	21,217	68	10	14.7%	17,735	5,115	28.8%
0603770220:	90	21,307	75	11	14.7%	17,810	5,126	28.8%
0603770230:	277	21,584	232	34	14.7%	18,042	5,160	28.6%
0603770180:	148	21,732	124	18	14.5%	18,166	5,178	28.5%
0603770180:	187	21,919	153	22	14.4%	18,319	5,200	28.4%
0603770130:	29	21,948	21	3	14.3%	18,340	5,203	28.4%
0603770230:	54	22,002	42	6	14.3%	18,382	5,209	28.3%
0603770190:	29	22,031	28	4	14.3%	18,410	5,213	28.3%
0603770210:	14	22,045	14	2	14.3%	18,424	5,215	28.3%
0603770230:	8	22,053	7	1	14.3%	18,431	5,216	28.3%
0603770170:	26	22,079	21	3	14.3%	18,452	5,219	28.3%
0603770220:	22	22,101	14	2	14.3%	18,466	5,221	28.3%
0603770120:	7	22,108	7	1	14.3%	18,473	5,222	28.3%
0603770180:	79	22,187	78	11	14.1%	18,551	5,233	28.2%
0603770150:	123	22,310	114	16	14.0%	18,665	5,249	28.1%
0603770150:	60	22,370	50	7	14.0%	18,715	5,256	28.1%
0603770160:	116	22,486	100	14	14.0%	18,815	5,270	28.0%
0603770120:	52	22,538	43	6	14.0%	18,858	5,276	28.0%
0603770200:	91	22,629	86	12	14.0%	18,944	5,288	27.9%
0603770120:	99	22,728	79	11	13.9%	19,023	5,299	27.9%
0603770230:	50	22,778	36	5	13.9%	19,059	5,304	27.8%
0603770200:	37	22,815	29	4	13.8%	19,088	5,308	27.8%
0603770190:	30	22,845	29	4	13.8%	19,117	5,312	27.8%
0603770220:	61	22,906	51	7	13.7%	19,168	5,319	27.7%
0603770160:	25	22,931	22	3	13.6%	19,190	5,322	27.7%
0603770180:	23	22,954	22	3	13.6%	19,212	5,325	27.7%

0603770220:	26	22,980	22	3	13.6%	19,234	5,328	27.7%
0603770130:	29	23,009	22	3	13.6%	19,256	5,331	27.7%
0603770220:	63	23,072	59	8	13.6%	19,315	5,339	27.6%
0603770170:	40	23,112	37	5	13.5%	19,352	5,344	27.6%
0603770170:	64	23,176	52	7	13.5%	19,404	5,351	27.6%
0603770170:	57	23,233	52	7	13.5%	19,456	5,358	27.5%
0603770160:	115	23,148	97	13	13.4%	19,553	5,371	27.5%
0603770230:	51	23,399	45	6	13.3%	19,598	5,377	27.4%
0603770230:	22	23,421	15	2	13.3%	19,613	5,379	27.4%
0603770160:	21	23,442	15	2	13.3%	19,628	5,381	27.4%
0603770220:	17	23,459	15	2	13.3%	19,643	5,383	27.4%
0603770210:	127	23,586	113	15	13.3%	19,756	5,398	27.3%
0603770170:	91	23,677	83	11	13.3%	19,839	5,409	27.3%
0603770160:	81	23,758	68	9	13.2%	19,907	5,418	27.2%
0603770220:	54	23,812	53	7	13.2%	19,960	5,425	27.2%
0603770170:	59	23,871	53	7	13.2%	20,013	5,432	27.1%
0603770220:	59	23,930	53	7	13.2%	20,066	5,439	27.1%
0603770190:	41	23,971	38	5	13.2%	20,104	5,444	27.1%
0603770130:	81	24,052	76	10	13.2%	20,180	5,454	27.0%
0603770170:	43	24,095	38	5	13.2%	20,218	5,459	27.0%
0603770170:	43	24,138	38	5	13.2%	20,256	5,464	27.0%
0603770230:	208	24,346	168	22	13.1%	20,424	5,486	26.9%
0603770220:	26	24,372	23	3	13.0%	20,447	5,489	26.8%
0603770220:	76	24,448	69	9	13.0%	20,516	5,498	26.8%
0603770220:	27	24,475	23	3	13.0%	20,539	5,501	26.8%
0603770170:	49	24,524	46	6	13.0%	20,585	5,507	26.8%
0603770160:	73	24,597	54	7	13.0%	20,639	5,514	26.7%
0603770230:	145	24,742	116	15	12.9%	20,755	5,529	26.6%
0603770170:	38	24,780	31	4	12.9%	20,786	5,533	26.6%
0603770230:	83	24,863	62	8	12.9%	20,848	5,541	26.6%
0603770130:	114	24,977	70	9	12.9%	20,918	5,550	26.5%
0603770150:	195	25,172	148	19	12.8%	21,066	5,569	26.4%
0603770160:	52	25,224	39	5	12.8%	21,105	5,574	26.4%
0603770220:	108	25,332	102	13	12.7%	21,207	5,587	26.3%
0603770220:	121	25,453	102	13	12.7%	21,309	5,600	26.3%
0603770190:	56	25,509	55	7	12.7%	21,364	5,607	26.2%
0603770200:	71	25,580	63	8	12.7%	21,427	5,615	26.2%
0603770210:	69	25,649	63	8	12.7%	21,490	5,623	26.2%
0603770120:	76	25,725	63	8	12.7%	21,553	5,631	26.1%
0603770180:	174	25,899	150	19	12.7%	21,703	5,650	26.0%
0603770160:	111	26,010	103	13	12.6%	21,806	5,663	26.0%
0603770190:	58	26,068	56	7	12.5%	21,862	5,670	25.9%
0603770170:	113	26,181	104	13	12.5%	21,966	5,683	25.9%
0603770220:	165	26,346	144	18	12.5%	22,110	5,701	25.8%
0603770210:	109	26,455	96	12	12.5%	22,206	5,713	25.7%
0603770120:	24	26,479	16	2	12.5%	22,222	5,715	25.7%
0603770220:	23	26,502	16	2	12.5%	22,238	5,717	25.7%
0603770220:	25	26,527	24	3	12.5%	22,262	5,720	25.7%
0603770180:	20	26,547	16	2	12.5%	22,278	5,722	25.7%
0603770170:	52	26,599	40	5	12.5%	22,318	5,727	25.7%
0603770130:	39	26,638	24	3	12.5%	22,342	5,730	25.6%
0603770120:	76	26,714	57	7	12.3%	22,399	5,737	25.6%
0603770160:	57	26,771	49	6	12.2%	22,448	5,743	25.6%
0603770220:	46	26,817	41	5	12.2%	22,489	5,748	25.6%
0603770140:	225	27,042	205	25	12.2%	22,694	5,773	25.4%
0603770230:	291	27,333	263	32	12.2%	22,957	5,805	25.3%
0603770220:	47	27,380	33	4	12.1%	22,990	5,809	25.3%
0603770130:	44	27,424	33	4	12.1%	23,023	5,813	25.2%
0603770130:	40	27,464	33	4	12.1%	23,056	5,817	25.2%
0603770120:	100	27,564	91	11	12.1%	23,147	5,828	25.2%
0603770200:	183	27,747	149	18	12.1%	23,296	5,846	25.1%
0603770170:	95	27,842	83	10	12.0%	23,379	5,856	25.0%
0603770120:	85	27,927	75	9	12.0%	23,454	5,865	25.0%
0603770230:	36	27,963	25	3	12.0%	23,479	5,868	25.0%
0603770220:	53	28,016	42	5	11.9%	23,521	5,873	25.0%
0603770150:	70	28,086	59	7	11.9%	23,580	5,880	24.9%
0603770170:	107	28,193	93	11	11.8%	23,673	5,891	24.9%
0603770210:	300	28,493	271	32	11.8%	23,944	5,923	24.7%
0603770120:	48	28,541	34	4	11.8%	23,978	5,927	24.7%
0603770220:	99	28,640	68	8	11.8%	24,046	5,935	24.7%
0603770220:	23	28,663	17	2	11.8%	24,063	5,937	24.7%
0603770210:	125	28,788	111	13	11.7%	24,174	5,950	24.6%
0603770150:	118	28,906	103	12	11.7%	24,277	5,962	24.6%
0603770120:	121	29,027	103	12	11.7%	24,380	5,974	24.5%
0603770170:	50	29,077	43	5	11.6%	24,423	5,979	24.5%
0603770230:	55	29,132	43	5	11.6%	24,466	5,984	24.5%
0603770120:	100	29,232	86	10	11.6%	24,552	5,994	24.4%
0603770150:	28	29,260	26	3	11.5%	24,578	5,997	24.4%
0603770160:	31	29,291	26	3	11.5%	24,604	6,000	24.4%
0603770230:	95	29,386	87	10	11.5%	24,691	6,010	24.3%
0603770180:	77	29,463	61	7	11.5%	24,752	6,017	24.3%
0603770140:	144	29,607	131	15	11.5%	24,883	6,032	24.2%
0603770150:	207	29,814	201	23	11.4%	25,084	6,055	24.1%
0603770180:	39	29,853	35	4	11.4%	25,119	6,059	24.1%
0603770130:	43	29,896	35	4	11.4%	25,154	6,063	24.1%
0603770210:	48	29,944	35	4	11.4%	25,189	6,067	24.1%
0603770140:	47	29,991	44	5	11.4%	25,233	6,072	24.1%
0603770190:	182	30,173	168	19	11.3%	25,401	6,091	24.0%
0603770140:	83	30,256	80	9	11.3%	25,481	6,100	23.9%
0603770130:	82	30,338	80	9	11.3%	25,561	6,109	23.9%
0603770190:	51	30,389	45	5	11.1%	25,606	6,114	23.9%
0603770170:	111	30,500	99	11	11.1%	25,705	6,125	23.8%
0603770220:	61	30,561	54	6	11.1%	25,759	6,131	23.8%
0603770120:	39	30,600	36	4	11.1%	25,795	6,135	23.8%
0603770150:	151	30,751	135	15	11.1%	25,930	6,150	23.7%
0603770160:	32	30,783	18	2	11.1%	25,948	6,152	23.7%
0603770170:	80	30,863	72	8	11.1%	26,020	6,160	23.7%
0603770200:	102	30,965	90	10	11.1%	26,110	6,170	23.6%
0603770220:	20	30,985	18	2	11.1%	26,128	6,172	23.6%
0603770150:	115	31,100	99	11	11.1%	26,227	6,183	23.6%
0603770230:	24	31,124	18	2	11.1%	26,245	6,185	23.6%
0603770220:	18	31,142	18	2	11.1%	26,263	6,187	23.6%
0603770160:	52	31,194	45	5	11.1%	26,308	6,192	23.5%

0603770140:	233	31,427	220	24	10.9%	26,528	6,216	23.4%
0603770170:	122	31,549	101	11	10.9%	26,629	6,227	23.4%
0603770140:	173	31,722	166	18	10.8%	26,795	6,245	23.3%
0603770140:	135	31,857	120	13	10.8%	26,915	6,258	23.3%
0603770160:	76	31,933	65	7	10.8%	26,980	6,265	23.2%
0603770120:	142	32,075	121	13	10.7%	27,101	6,278	23.2%
0603770130:	171	32,246	149	16	10.7%	27,250	6,294	23.1%
0603770220:	243	32,489	205	22	10.7%	27,455	6,316	23.0%
0603770130:	39	32,528	28	3	10.7%	27,483	6,319	23.0%
0603770210:	37	32,565	28	3	10.7%	27,511	6,322	23.0%
0603770220:	69	32,634	56	6	10.7%	27,567	6,328	23.0%
0603770230:	106	32,740	75	8	10.7%	27,642	6,336	22.9%
0603770150:	101	32,841	94	10	10.6%	27,736	6,346	22.9%
0603770200:	51	32,892	47	5	10.6%	27,783	6,351	22.9%
0603770170:	73	32,965	66	7	10.6%	27,849	6,358	22.8%
0603770150:	167	33,132	151	16	10.6%	28,000	6,374	22.8%
0603770230:	187	33,319	161	17	10.6%	28,161	6,391	22.7%
0603770230:	54	33,373	38	4	10.5%	28,199	6,395	22.7%
0603770140:	208	33,581	190	20	10.5%	28,389	6,415	22.6%
0603770170:	65	33,646	57	6	10.5%	28,446	6,421	22.6%
0603770230:	23	33,669	19	2	10.5%	28,465	6,423	22.6%
0603770210:	243	33,912	219	23	10.5%	28,684	6,446	22.5%
0603770170:	93	34,005	86	9	10.5%	28,770	6,455	22.4%
0603770150:	52	34,057	48	5	10.4%	28,818	6,460	22.4%
0603770210:	35	34,092	29	3	10.3%	28,847	6,463	22.4%
0603770210:	81	34,173	68	7	10.3%	28,915	6,470	22.4%
0603770180:	67	34,240	39	4	10.3%	28,954	6,474	22.4%
0603770220:	53	34,293	49	5	10.2%	29,003	6,479	22.3%
0603770220:	66	34,359	49	5	10.2%	29,052	6,484	22.3%
0603770160:	142	34,501	128	13	10.2%	29,180	6,497	22.3%
0603770190:	192	34,693	190	19	10.0%	29,370	6,516	22.2%
0603770160:	20	34,713	20	2	10.0%	29,390	6,518	22.2%
0603770230:	49	34,762	40	4	10.0%	29,430	6,522	22.2%
0603770120:	29	34,791	20	2	10.0%	29,450	6,524	22.2%
0603770190:	189	34,980	180	18	10.0%	29,630	6,542	22.1%
0603770120:	34	35,014	30	3	10.0%	29,660	6,545	22.1%
0603770160:	81	35,095	60	6	10.0%	29,720	6,551	22.0%
0603770220:	31	35,126	20	2	10.0%	29,740	6,553	22.0%
0603770120:	31	35,157	20	2	10.0%	29,760	6,555	22.0%
0603770160:	50	35,207	40	4	10.0%	29,800	6,559	22.0%
0603770120:	15	35,222	10	1	10.0%	29,810	6,560	22.0%
0603770230:	37	35,259	30	3	10.0%	29,840	6,563	22.0%
0603770120:	12	35,271	10	1	10.0%	29,850	6,564	22.0%
0603770230:	441	35,712	402	40	10.0%	30,252	6,604	21.8%
0603770150:	130	35,842	121	12	9.9%	30,373	6,616	21.8%
0603770180:	253	36,095	242	24	9.9%	30,615	6,640	21.7%
0603770170:	83	36,178	71	7	9.9%	30,686	6,647	21.7%
0603770120:	68	36,246	51	5	9.8%	30,737	6,652	21.6%
0603770170:	63	36,309	51	5	9.8%	30,788	6,657	21.6%
0603770230:	128	36,437	92	9	9.8%	30,880	6,666	21.6%
0603770160:	133	36,570	133	13	9.8%	31,013	6,679	21.5%
0603770150:	53	36,623	41	4	9.8%	31,054	6,683	21.5%
0603770220:	130	36,753	103	10	9.7%	31,157	6,693	21.5%
0603770180:	34	36,787	31	3	9.7%	31,188	6,696	21.5%
0603770130:	29	36,816	21	2	9.5%	31,209	6,698	21.5%
0603770160:	69	36,885	63	6	9.5%	31,272	6,704	21.4%
0603770220:	26	36,911	21	2	9.5%	31,293	6,706	21.4%
0603770160:	154	37,065	137	13	9.5%	31,430	6,719	21.4%
0603770130:	313	37,378	285	27	9.5%	31,715	6,746	21.3%
0603770160:	207	37,585	170	16	9.4%	31,885	6,762	21.2%
0603770160:	39	37,624	32	3	9.4%	31,917	6,765	21.2%
0603770150:	104	37,728	96	9	9.4%	32,013	6,774	21.2%
0603770210:	33	37,761	32	3	9.4%	32,045	6,777	21.1%
0603770150:	129	37,890	118	11	9.3%	32,163	6,788	21.1%
0603770130:	165	38,055	151	14	9.3%	32,314	6,802	21.0%
0603770230:	132	38,187	108	10	9.3%	32,422	6,812	21.0%
0603770220:	61	38,248	54	5	9.3%	32,476	6,817	21.0%
0603770220:	81	38,329	65	6	9.2%	32,541	6,823	21.0%
0603770170:	70	38,399	65	6	9.2%	32,606	6,829	20.9%
0603770190:	272	38,671	261	24	9.2%	32,867	6,853	20.9%
0603770190:	250	38,921	240	22	9.2%	33,107	6,875	20.8%
0603770210:	127	39,048	120	11	9.2%	33,227	6,886	20.7%
0603770130:	319	39,367	274	25	9.1%	33,501	6,911	20.6%
0603770130:	30	39,397	22	2	9.1%	33,523	6,913	20.6%
0603770130:	136	39,533	121	11	9.1%	33,644	6,924	20.6%
0603770160:	17	39,550	11	1	9.1%	33,655	6,925	20.6%
0603770160:	46	39,596	44	4	9.1%	33,699	6,929	20.6%
0603770220:	39	39,635	33	3	9.1%	33,732	6,932	20.6%
0603770210:	37	39,672	33	3	9.1%	33,765	6,935	20.5%
0603770120:	32	39,704	22	2	9.1%	33,787	6,937	20.5%
0603770160:	17	39,721	11	1	9.1%	33,798	6,938	20.5%
0603770160:	15	39,736	11	1	9.1%	33,809	6,939	20.5%
0603770170:	24	39,760	22	2	9.1%	33,831	6,941	20.5%
0603770150:	147	39,907	132	12	9.1%	33,963	6,953	20.5%
0603770160:	14	39,921	11	1	9.1%	33,974	6,954	20.5%
0603770140:	105	40,026	100	9	9.0%	34,074	6,963	20.4%
0603770130:	134	40,160	123	11	8.9%	34,197	6,974	20.4%
0603770190:	52	40,212	45	4	8.9%	34,242	6,978	20.4%
0603770170:	42	40,254	34	3	8.8%	34,276	6,981	20.4%
0603770220:	43	40,297	34	3	8.8%	34,310	6,984	20.4%
0603770160:	37	40,334	34	3	8.8%	34,344	6,987	20.3%
0603770190:	40	40,374	34	3	8.8%	34,378	6,990	20.3%
0603770130:	51	40,425	34	3	8.8%	34,412	6,993	20.3%
0603770220:	118	40,543	102	9	8.8%	34,514	7,002	20.3%
0603770210:	93	40,636	91	8	8.8%	34,605	7,010	20.3%
0603770120:	153	40,789	126	11	8.7%	34,731	7,021	20.2%
0603770220:	62	40,851	46	4	8.7%	34,777	7,025	20.2%
0603770220:	36	40,887	29	2	8.7%	34,800	7,027	20.2%
0603770200:	148	41,035	138	12	8.7%	34,938	7,039	20.1%
0603770150:	130	41,165	115	10	8.7%	35,053	7,049	20.1%
0603770120:	36	41,201	23	2	8.7%	35,076	7,051	20.1%
0603770170:	25	41,226	23	2	8.7%	35,099	7,053	20.1%
0603770120:	143	41,369	115	10	8.7%	35,214	7,063	20.1%

0603770170:	48	41,417	46	4	8.7%	35,260	7,067	20.0%
0603770230:	56	41,473	46	4	8.7%	35,306	7,071	20.0%
0603770130:	108	41,581	93	8	8.6%	35,399	7,079	20.0%
0603770130:	154	41,735	128	11	8.6%	35,527	7,090	20.0%
0603770210:	209	41,944	198	17	8.6%	35,725	7,107	19.9%
0603770130:	117	42,061	105	9	8.6%	35,830	7,116	19.9%
0603770200:	114	42,175	105	9	8.6%	35,935	7,125	19.8%
0603770220:	54	42,229	35	3	8.6%	35,970	7,128	19.8%
0603770210:	42	42,271	35	3	8.6%	36,005	7,131	19.8%
0603770220:	130	42,401	117	10	8.5%	36,122	7,141	19.8%
0603770170:	94	42,495	82	7	8.5%	36,204	7,148	19.7%
0603770140:	231	42,726	211	18	8.5%	36,415	7,166	19.7%
0603770130:	64	42,790	47	4	8.5%	36,462	7,170	19.7%
0603770140:	143	42,933	130	11	8.5%	36,592	7,181	19.6%
0603770140:	209	43,142	191	16	8.4%	36,783	7,197	19.6%
0603770220:	38	43,180	24	2	8.3%	36,807	7,199	19.6%
0603770150:	93	43,273	84	7	8.3%	36,891	7,206	19.5%
0603770160:	16	43,289	12	1	8.3%	36,903	7,207	19.5%
0603770220:	57	43,346	36	3	8.3%	36,939	7,210	19.5%
0603770200:	131	43,477	108	9	8.3%	37,047	7,219	19.5%
0603770160:	16	43,493	12	1	8.3%	37,059	7,220	19.5%
0603770230:	13	43,506	12	1	8.3%	37,071	7,221	19.5%
0603770230:	45	43,551	36	3	8.3%	37,107	7,224	19.5%
0603770150:	94	43,645	72	6	8.3%	37,179	7,230	19.4%
0603770160:	234	43,879	206	17	8.3%	37,385	7,247	19.4%
0603770190:	88	43,967	85	7	8.2%	37,470	7,254	19.4%
0603770160:	94	44,061	85	7	8.2%	37,555	7,261	19.3%
0603770220:	57	44,118	49	4	8.2%	37,604	7,265	19.3%
0603770210:	51	44,169	49	4	8.2%	37,653	7,269	19.3%
0603770130:	133	44,302	123	10	8.1%	37,776	7,279	19.3%
0603770210:	38	44,340	37	3	8.1%	37,813	7,282	19.3%
0603770140:	158	44,498	148	12	8.1%	37,961	7,294	19.2%
0603770180:	37	44,535	37	3	8.1%	37,998	7,297	19.2%
0603770170:	111	44,646	99	8	8.1%	38,097	7,305	19.2%
0603770130:	124	44,770	112	9	8.0%	38,209	7,314	19.1%
0603770190:	25	44,795	25	2	8.0%	38,234	7,316	19.1%
0603770210:	52	44,847	50	4	8.0%	38,284	7,320	19.1%
0603770220:	30	44,877	25	2	8.0%	38,309	7,322	19.1%
0603770220:	35	44,912	25	2	8.0%	38,334	7,324	19.1%
0603770120:	67	44,979	50	4	8.0%	38,384	7,328	19.1%
0603770150:	119	45,098	113	9	8.0%	38,497	7,337	19.1%
0603770210:	124	45,222	113	9	8.0%	38,610	7,346	19.0%
0603770120:	76	45,298	63	5	7.9%	38,673	7,351	19.0%
0603770210:	67	45,365	63	5	7.9%	38,736	7,356	19.0%
0603770130:	181	45,546	164	13	7.9%	38,900	7,369	18.9%
0603770220:	106	45,652	76	6	7.9%	38,976	7,375	18.9%
0603770220:	41	45,693	38	3	7.9%	39,014	7,378	18.9%
0603770120:	89	45,782	77	6	7.8%	39,091	7,384	18.9%
0603770140:	171	45,953	168	13	7.7%	39,259	7,397	18.8%
0603770200:	15	45,968	13	1	7.7%	39,272	7,398	18.8%
0603770220:	36	46,004	26	2	7.7%	39,298	7,400	18.8%
0603770220:	13	46,017	13	1	7.7%	39,311	7,401	18.8%
0603770200:	187	46,204	169	13	7.7%	39,480	7,414	18.8%
0603770150:	164	46,368	143	11	7.7%	39,623	7,425	18.7%
0603770170:	39	46,407	39	3	7.7%	39,662	7,428	18.7%
0603770150:	169	46,576	143	11	7.7%	39,805	7,439	18.7%
0603770170:	13	46,589	13	1	7.7%	39,818	7,440	18.7%
0603770220:	52	46,641	39	3	7.7%	39,857	7,443	18.7%
0603770210:	54	46,695	52	4	7.7%	39,909	7,447	18.7%
0603770140:	113	46,808	104	8	7.7%	40,013	7,455	18.6%
0603770120:	72	46,880	65	5	7.7%	40,078	7,460	18.6%
0603770130:	161	47,041	144	11	7.6%	40,222	7,471	18.6%
0603770160:	135	47,176	105	8	7.6%	40,327	7,479	18.5%
0603770150:	153	47,329	132	10	7.6%	40,459	7,489	18.5%
0603770200:	170	47,499	159	12	7.5%	40,618	7,501	18.5%
0603770160:	60	47,559	53	4	7.5%	40,671	7,505	18.5%
0603770170:	108	47,667	93	7	7.5%	40,764	7,512	18.4%
0603770150:	115	47,782	93	7	7.5%	40,857	7,519	18.4%
0603770130:	47	47,829	40	3	7.5%	40,897	7,522	18.4%
0603770150:	94	47,923	80	6	7.5%	40,977	7,528	18.4%
0603770150:	114	48,037	107	8	7.5%	41,084	7,536	18.3%
0603770180:	542	48,579	482	36	7.5%	41,566	7,572	18.2%
0603770150:	150	48,729	134	10	7.5%	41,700	7,582	18.2%
0603770210:	217	48,946	201	15	7.5%	41,901	7,597	18.1%
0603770160:	39	48,985	27	2	7.4%	41,928	7,599	18.1%
0603770130:	118	49,103	108	8	7.4%	42,036	7,607	18.1%
0603770220:	29	49,132	27	2	7.4%	42,063	7,609	18.1%
0603770130:	171	49,303	162	12	7.4%	42,225	7,621	18.0%
0603770160:	35	49,338	27	2	7.4%	42,252	7,623	18.0%
0603770130:	94	49,432	81	6	7.4%	42,333	7,629	18.0%
0603770150:	114	49,546	95	7	7.4%	42,428	7,636	18.0%
0603770150:	89	49,635	82	6	7.3%	42,510	7,642	18.0%
0603770230:	101	49,736	82	6	7.3%	42,592	7,648	18.0%
0603770180:	184	49,920	178	13	7.3%	42,770	7,661	17.9%
0603770150:	170	50,090	137	10	7.3%	42,907	7,671	17.9%
0603770140:	237	50,327	206	15	7.3%	43,113	7,686	17.8%
0603770140:	235	50,562	221	16	7.2%	43,334	7,702	17.8%
0603770190:	326	50,888	319	23	7.2%	43,653	7,725	17.7%
0603770130:	152	51,040	125	9	7.2%	43,778	7,734	17.7%
0603770160:	18	51,058	14	1	7.1%	43,792	7,735	17.7%
0603770160:	22	51,080	14	1	7.1%	43,806	7,736	17.7%
0603770150:	16	51,096	14	1	7.1%	43,820	7,737	17.7%
0603770220:	18	51,114	14	1	7.1%	43,834	7,738	17.7%
0603770160:	64	51,178	56	4	7.1%	43,890	7,742	17.6%
0603770120:	56	51,234	42	3	7.1%	43,932	7,745	17.6%
0603770220:	15	51,249	14	1	7.1%	43,946	7,746	17.6%
0603770160:	82	51,331	70	5	7.1%	44,016	7,751	17.6%
0603770160:	66	51,397	56	4	7.1%	44,072	7,755	17.6%
0603770170:	233	51,630	225	16	7.1%	44,297	7,771	17.5%
0603770150:	97	51,727	85	6	7.1%	44,382	7,777	17.5%
0603770220:	136	51,863	114	8	7.0%	44,496	7,785	17.5%
0603770120:	137	52,000	114	8	7.0%	44,610	7,793	17.5%
0603770150:	121	52,121	114	8	7.0%	44,724	7,801	17.4%

0603770200:	94	52,215	86	6	7.0%	44,810	7,807	17.4%
0603770130:	190	52,405	172	12	7.0%	44,982	7,819	17.4%
0603770220:	51	52,456	43	3	7.0%	45,025	7,822	17.4%
0603770180:	52	52,508	43	3	7.0%	45,068	7,825	17.4%
0603770150:	140	52,648	115	8	7.0%	45,183	7,833	17.3%
0603770180:	144	52,792	144	10	6.9%	45,327	7,843	17.3%
0603770170:	106	52,898	101	7	6.9%	45,428	7,850	17.3%
0603770190:	319	53,217	303	21	6.9%	45,731	7,871	17.2%
0603770210:	89	53,306	87	6	6.9%	45,818	7,877	17.2%
0603770220:	68	53,374	58	4	6.9%	45,876	7,881	17.2%
0603770160:	34	53,408	29	2	6.9%	45,905	7,883	17.2%
0603770150:	219	53,627	219	15	6.8%	46,124	7,898	17.1%
0603770130:	368	53,995	336	23	6.8%	46,460	7,921	17.0%
0603770120:	65	54,060	44	3	6.8%	46,504	7,924	17.0%
0603770120:	68	54,128	44	3	6.8%	46,548	7,927	17.0%
0603770130:	213	54,341	192	13	6.8%	46,740	7,940	17.0%
0603770200:	99	54,440	89	6	6.7%	46,829	7,946	17.0%
0603770190:	140	54,580	134	9	6.7%	46,963	7,955	16.9%
0603770140:	149	54,729	135	9	6.7%	47,098	7,964	16.9%
0603770190:	15	54,744	15	1	6.7%	47,113	7,965	16.9%
0603770220:	15	54,758	15	1	6.7%	47,128	7,966	16.9%
0603770230:	63	54,822	45	3	6.7%	47,173	7,969	16.9%
0603770200:	80	54,902	75	5	6.7%	47,248	7,974	16.9%
0603770230:	20	54,922	15	1	6.7%	47,263	7,975	16.9%
0603770220:	22	54,944	15	1	6.7%	47,278	7,976	16.9%
0603770120:	20	54,964	15	1	6.7%	47,293	7,977	16.9%
0603770200:	203	55,167	196	13	6.6%	47,489	7,990	16.8%
0603770190:	182	55,349	181	12	6.6%	47,670	8,002	16.8%
0603770140:	282	55,631	272	18	6.6%	47,942	8,020	16.7%
0603770170:	128	55,759	121	8	6.6%	48,063	8,028	16.7%
0603770140:	208	55,967	197	13	6.6%	48,260	8,041	16.7%
0603770140:	82	56,049	76	5	6.6%	48,336	8,046	16.6%
0603770120:	88	56,137	76	5	6.6%	48,412	8,051	16.6%
0603770160:	73	56,210	61	4	6.6%	48,473	8,055	16.6%
0603770120:	65	56,275	46	3	6.5%	48,519	8,058	16.6%
0603770220:	59	56,334	46	3	6.5%	48,565	8,061	16.6%
0603770120:	41	56,375	31	2	6.5%	48,596	8,063	16.6%
0603770120:	86	56,461	62	4	6.5%	48,658	8,067	16.6%
0603770170:	67	56,528	62	4	6.5%	48,720	8,071	16.6%
0603770220:	150	56,678	141	9	6.4%	48,861	8,080	16.5%
0603770140:	183	56,861	173	11	6.4%	49,034	8,091	16.5%
0603770150:	75	56,936	63	4	6.3%	49,097	8,095	16.5%
0603770200:	72	57,008	63	4	6.3%	49,160	8,099	16.5%
0603770140:	249	57,257	237	15	6.3%	49,397	8,114	16.4%
0603770140:	97	57,354	95	6	6.3%	49,492	8,120	16.4%
0603770220:	40	57,394	32	2	6.3%	49,524	8,122	16.4%
0603770120:	24	57,418	16	1	6.3%	49,540	8,123	16.4%
0603770120:	113	57,531	96	6	6.3%	49,636	8,129	16.4%
0603770150:	97	57,628	80	5	6.3%	49,716	8,134	16.4%
0603770220:	39	57,667	32	2	6.3%	49,748	8,136	16.4%
0603770120:	19	57,686	16	1	6.3%	49,764	8,137	16.4%
0603770130:	24	57,710	16	1	6.3%	49,780	8,138	16.3%
0603770150:	121	57,831	113	7	6.2%	49,893	8,145	16.3%
0603770130:	100	57,931	97	6	6.2%	49,990	8,151	16.3%
0603770130:	84	58,015	81	5	6.2%	50,071	8,156	16.3%
0603770200:	90	58,105	81	5	6.2%	50,152	8,161	16.3%
0603770150:	146	58,251	130	8	6.2%	50,282	8,169	16.2%
0603770130:	146	58,397	130	8	6.2%	50,412	8,177	16.2%
0603770210:	58	58,455	49	3	6.1%	50,461	8,180	16.2%
0603770160:	65	58,520	49	3	6.1%	50,510	8,183	16.2%
0603770160:	65	58,585	49	3	6.1%	50,559	8,186	16.2%
0603770130:	63	58,648	49	3	6.1%	50,608	8,189	16.2%
0603770120:	107	58,755	82	5	6.1%	50,690	8,194	16.2%
0603770150:	104	58,859	82	5	6.1%	50,772	8,199	16.1%
0603770140:	37	58,896	33	2	6.1%	50,805	8,201	16.1%
0603770220:	168	59,064	149	9	6.0%	50,954	8,210	16.1%
0603770150:	96	59,160	83	5	6.0%	51,037	8,215	16.1%
0603770210:	83	59,243	83	5	6.0%	51,120	8,220	16.1%
0603770120:	104	59,347	83	5	6.0%	51,203	8,225	16.1%
0603770170:	114	59,461	100	6	6.0%	51,303	8,231	16.0%
0603770150:	103	59,564	100	6	6.0%	51,403	8,237	16.0%
0603770200:	53	59,617	50	3	6.0%	51,453	8,240	16.0%
0603770160:	70	59,687	50	3	6.0%	51,503	8,243	16.0%
0603770160:	121	59,808	101	6	5.9%	51,604	8,249	16.0%
0603770230:	164	59,972	152	9	5.9%	51,756	8,258	16.0%
0603770160:	18	59,990	17	1	5.9%	51,773	8,259	16.0%
0603770160:	46	60,036	34	2	5.9%	51,807	8,261	15.9%
0603770220:	38	60,074	34	2	5.9%	51,841	8,263	15.9%
0603770120:	23	60,097	17	1	5.9%	51,858	8,264	15.9%
0603770130:	18	60,115	17	1	5.9%	51,875	8,265	15.9%
0603770170:	18	60,133	17	1	5.9%	51,892	8,266	15.9%
0603770200:	53	60,186	51	3	5.9%	51,943	8,269	15.9%
0603770220:	24	60,210	17	1	5.9%	51,960	8,270	15.9%
0603770130:	21	60,231	17	1	5.9%	51,977	8,271	15.9%
0603770180:	20	60,251	17	1	5.9%	51,994	8,272	15.9%
0603770160:	26	60,277	17	1	5.9%	52,011	8,273	15.9%
0603770160:	23	60,300	17	1	5.9%	52,028	8,274	15.9%
0603770120:	123	60,423	103	6	5.8%	52,131	8,280	15.9%
0603770200:	71	60,494	69	4	5.8%	52,200	8,284	15.9%
0603770190:	70	60,564	69	4	5.8%	52,269	8,288	15.9%
0603770160:	70	60,634	52	3	5.8%	52,321	8,291	15.8%
0603770230:	48	60,682	39	2	5.7%	52,356	8,293	15.8%
0603770120:	50	60,732	39	2	5.7%	52,391	8,295	15.8%
0603770160:	78	60,810	53	3	5.7%	52,444	8,298	15.8%
0603770120:	164	60,974	142	8	5.6%	52,586	8,306	15.8%
0603770190:	71	61,045	71	4	5.6%	52,657	8,310	15.8%
0603770130:	22	61,067	18	1	5.6%	52,675	8,311	15.8%
0603770210:	45	61,112	36	2	5.6%	52,711	8,313	15.8%
0603770150:	105	61,217	90	5	5.6%	52,801	8,318	15.8%
0603770160:	53	61,270	36	2	5.6%	52,837	8,320	15.7%
0603770160:	81	61,351	72	4	5.6%	52,909	8,324	15.7%
0603770150:	97	61,448	90	5	5.6%	52,999	8,329	15.7%
0603770220:	27	61,475	18	1	5.6%	53,017	8,330	15.7%

0603770130:	159	61,634	144	8	5.6%	53,161	8,338	15.7%
0603770150:	44	61,678	36	2	5.6%	53,197	8,340	15.7%
0603770130:	19	61,697	18	1	5.6%	53,215	8,341	15.7%
0603770160:	111	61,808	91	5	5.5%	53,306	8,346	15.7%
0603770200:	81	61,889	73	4	5.5%	53,379	8,350	15.6%
0603770120:	86	61,975	55	3	5.5%	53,434	8,353	15.6%
0603770200:	96	62,071	92	5	5.4%	53,526	8,358	15.6%
0603770150:	124	62,195	111	6	5.4%	53,637	8,364	15.6%
0603770210:	42	62,237	37	2	5.4%	53,674	8,366	15.6%
0603770190:	74	62,311	74	4	5.4%	53,748	8,370	15.6%
0603770120:	103	62,414	93	5	5.4%	53,841	8,375	15.6%
0603770200:	109	62,523	93	5	5.4%	53,934	8,380	15.5%
0603770150:	124	62,647	112	6	5.4%	54,046	8,386	15.5%
0603770150:	98	62,745	94	5	5.3%	54,140	8,391	15.5%
0603770190:	180	62,925	170	9	5.3%	54,310	8,400	15.5%
0603770210:	23	62,948	19	1	5.3%	54,329	8,401	15.5%
0603770220:	119	63,067	95	5	5.3%	54,424	8,406	15.4%
0603770120:	26	63,093	19	1	5.3%	54,443	8,407	15.4%
0603770120:	28	63,121	19	1	5.3%	54,462	8,408	15.4%
0603770230:	43	63,164	38	2	5.3%	54,500	8,410	15.4%
0603770230:	20	63,184	19	1	5.3%	54,519	8,411	15.4%
0603770160:	69	63,253	57	3	5.3%	54,576	8,414	15.4%
0603770200:	154	63,407	135	7	5.2%	54,711	8,421	15.4%
0603770140:	171	63,578	155	8	5.2%	54,866	8,429	15.4%
0603770140:	192	63,770	175	9	5.1%	55,041	8,438	15.3%
0603770150:	122	63,892	117	6	5.1%	55,158	8,444	15.3%
0603770130:	129	64,021	118	6	5.1%	55,276	8,450	15.3%
0603770160:	63	64,084	59	3	5.1%	55,335	8,453	15.3%
0603770130:	467	64,551	415	21	5.1%	55,750	8,474	15.2%
0603770210:	171	64,722	159	8	5.0%	55,909	8,482	15.2%
0603770120:	30	64,752	20	1	5.0%	55,929	8,483	15.2%
0603770160:	29	64,781	20	1	5.0%	55,949	8,484	15.2%
0603770230:	24	64,805	20	1	5.0%	55,969	8,485	15.2%
0603770130:	22	64,827	20	1	5.0%	55,989	8,486	15.2%
0603770150:	112	64,939	100	5	5.0%	56,089	8,491	15.1%
0603770230:	24	64,963	20	1	5.0%	56,109	8,492	15.1%
0603770220:	23	64,986	20	1	5.0%	56,129	8,493	15.1%
0603770180:	43	65,029	40	2	5.0%	56,169	8,495	15.1%
0603770160:	93	65,122	80	4	5.0%	56,249	8,499	15.1%
0603770220:	51	65,173	40	2	5.0%	56,289	8,501	15.1%
0603770120:	28	65,201	20	1	5.0%	56,309	8,502	15.1%
0603770220:	206	65,407	161	8	5.0%	56,470	8,510	15.1%
0603770130:	133	65,540	121	6	5.0%	56,591	8,516	15.0%
0603770150:	109	65,649	101	5	5.0%	56,692	8,521	15.0%
0603770150:	85	65,734	81	4	4.9%	56,773	8,525	15.0%
0603770200:	106	65,840	102	5	4.9%	56,875	8,530	15.0%
0603770160:	49	65,889	41	2	4.9%	56,916	8,532	15.0%
0603770120:	57	65,946	41	2	4.9%	56,957	8,534	15.0%
0603770190:	111	66,057	103	5	4.9%	57,060	8,539	15.0%
0603770160:	104	66,161	83	4	4.8%	57,143	8,543	15.0%
0603770130:	176	66,337	146	7	4.8%	57,289	8,550	14.9%
0603770120:	28	66,365	21	1	4.8%	57,310	8,551	14.9%
0603770200:	131	66,496	126	6	4.8%	57,436	8,557	14.9%
0603770130:	95	66,591	84	4	4.8%	57,520	8,561	14.9%
0603770120:	59	66,650	42	2	4.8%	57,562	8,563	14.9%
0603770220:	47	66,697	42	2	4.8%	57,604	8,565	14.9%
0603770120:	122	66,819	105	5	4.8%	57,709	8,570	14.9%
0603770130:	200	67,019	190	9	4.7%	57,899	8,579	14.8%
0603770140:	197	67,216	191	9	4.7%	58,090	8,588	14.8%
0603770150:	86	67,302	64	3	4.7%	58,154	8,591	14.8%
0603770140:	368	67,670	365	17	4.7%	58,519	8,608	14.7%
0603770120:	68	67,738	43	2	4.7%	58,562	8,610	14.7%
0603770230:	52	67,790	43	2	4.7%	58,605	8,612	14.7%
0603770130:	122	67,912	108	5	4.6%	58,713	8,617	14.7%
0603770220:	33	67,945	22	1	4.5%	58,735	8,618	14.7%
0603770230:	82	68,027	66	3	4.5%	58,801	8,621	14.7%
0603770200:	296	68,323	265	12	4.5%	59,066	8,633	14.6%
0603770230:	116	68,439	89	4	4.5%	59,155	8,637	14.6%
0603770210:	241	68,680	223	10	4.5%	59,378	8,647	14.6%
0603770210:	80	68,760	67	3	4.5%	59,445	8,650	14.6%
0603770160:	55	68,815	45	2	4.4%	59,490	8,652	14.5%
0603770130:	374	69,189	338	15	4.4%	59,828	8,667	14.5%
0603770140:	159	69,348	158	7	4.4%	59,986	8,674	14.5%
0603770160:	106	69,454	92	4	4.3%	60,078	8,678	14.4%
0603770130:	32	69,486	23	1	4.3%	60,101	8,679	14.4%
0603770150:	78	69,564	69	3	4.3%	60,170	8,682	14.4%
0603770130:	54	69,618	46	2	4.3%	60,216	8,684	14.4%
0603770130:	30	69,648	23	1	4.3%	60,239	8,685	14.4%
0603770130:	41	69,689	23	1	4.3%	60,262	8,686	14.4%
0603770130:	26	69,715	23	1	4.3%	60,285	8,687	14.4%
0603770220:	33	69,748	23	1	4.3%	60,308	8,688	14.4%
0603770150:	171	69,919	162	7	4.3%	60,470	8,695	14.4%
0603770170:	81	70,000	70	3	4.3%	60,540	8,698	14.4%
0603770130:	154	70,154	141	6	4.3%	60,681	8,704	14.3%
0603770160:	57	70,211	47	2	4.3%	60,728	8,706	14.3%
0603770180:	57	70,268	47	2	4.3%	60,775	8,708	14.3%
0603770140:	168	70,436	142	6	4.2%	60,917	8,714	14.3%
0603770170:	80	70,516	71	3	4.2%	60,988	8,717	14.3%
0603770150:	130	70,646	119	5	4.2%	61,107	8,722	14.3%
0603770200:	50	70,696	48	2	4.2%	61,155	8,724	14.3%
0603770200:	26	70,722	24	1	4.2%	61,179	8,725	14.3%
0603770230:	31	70,753	24	1	4.2%	61,203	8,726	14.3%
0603770230:	24	70,777	24	1	4.2%	61,227	8,727	14.3%
0603770210:	28	70,805	24	1	4.2%	61,251	8,728	14.2%
0603770170:	137	70,942	121	5	4.1%	61,372	8,733	14.2%
0603770120:	120	71,062	97	4	4.1%	61,469	8,737	14.2%
0603770150:	165	71,227	146	6	4.1%	61,615	8,743	14.2%
0603770130:	297	71,524	268	11	4.1%	61,883	8,754	14.1%
0603770150:	118	71,642	98	4	4.1%	61,981	8,758	14.1%
0603770200:	213	71,855	196	8	4.1%	62,177	8,766	14.1%
0603770160:	51	71,906	49	2	4.1%	62,226	8,768	14.1%
0603770220:	61	71,967	49	2	4.1%	62,275	8,770	14.1%
0603770120:	114	72,081	98	4	4.1%	62,373	8,774	14.1%



0603770150:	146	72,227	123	5	4.1%	62,496	8,779	14.0%
0603770150:	122	72,349	99	4	4.0%	62,595	8,783	14.0%
0603770210:	29	72,378	25	1	4.0%	62,620	8,784	14.0%
0603770160:	30	72,408	25	1	4.0%	62,645	8,785	14.0%
0603770130:	34	72,442	25	1	4.0%	62,670	8,786	14.0%
0603770220:	35	72,477	25	1	4.0%	62,695	8,787	14.0%
0603770160:	82	72,559	75	3	4.0%	62,770	8,790	14.0%
0603770120:	32	72,591	25	1	4.0%	62,795	8,791	14.0%
0603770160:	81	72,672	75	3	4.0%	62,870	8,794	14.0%
0603770120:	29	72,701	25	1	4.0%	62,895	8,795	14.0%
0603770120:	72	72,773	51	2	3.9%	62,946	8,797	14.0%
0603770160:	60	72,833	51	2	3.9%	62,997	8,799	14.0%
0603770230:	57	72,890	51	2	3.9%	63,048	8,801	14.0%
0603770160:	119	73,009	102	4	3.9%	63,150	8,805	13.9%
0603770200:	164	73,173	154	6	3.9%	63,304	8,811	13.9%
0603770150:	94	73,267	77	3	3.9%	63,381	8,814	13.9%
0603770160:	115	73,382	103	4	3.9%	63,484	8,818	13.9%
0603770120:	119	73,501	103	4	3.9%	63,587	8,822	13.9%
0603770130:	112	73,613	104	4	3.8%	63,691	8,826	13.9%
0603770220:	33	73,646	26	1	3.8%	63,717	8,827	13.9%
0603770120:	33	73,679	26	1	3.8%	63,743	8,828	13.8%
0603770120:	31	73,710	26	1	3.8%	63,769	8,829	13.8%
0603770180:	31	73,741	26	1	3.8%	63,795	8,830	13.8%
0603770120:	35	73,776	26	1	3.8%	63,821	8,831	13.8%
0603770210:	64	73,840	52	2	3.8%	63,873	8,833	13.8%
0603770230:	67	73,907	52	2	3.8%	63,925	8,835	13.8%
0603770120:	45	73,952	26	1	3.8%	63,951	8,836	13.8%
0603770160:	107	74,059	105	4	3.8%	64,056	8,840	13.8%
0603770130:	115	74,174	106	4	3.8%	64,162	8,844	13.8%
0603770150:	117	74,291	107	4	3.7%	64,269	8,848	13.8%
0603770150:	60	74,351	54	2	3.7%	64,323	8,850	13.8%
0603770120:	41	74,392	27	1	3.7%	64,350	8,851	13.8%
0603770160:	35	74,427	27	1	3.7%	64,377	8,852	13.8%
0603770120:	41	74,468	27	1	3.7%	64,404	8,853	13.7%
0603770140:	235	74,703	217	8	3.7%	64,621	8,861	13.7%
0603770210:	1,246	75,949	1,194	44	3.7%	65,815	8,905	13.5%
0603770120:	94	76,043	82	3	3.7%	65,897	8,908	13.5%
0603770140:	146	76,189	137	5	3.6%	66,034	8,913	13.5%
0603770150:	126	76,315	110	4	3.6%	66,144	8,917	13.5%
0603770160:	62	76,377	55	2	3.6%	66,199	8,919	13.5%
0603770160:	131	76,508	110	4	3.6%	66,309	8,923	13.5%
0603770120:	39	76,547	29	1	3.4%	66,338	8,924	13.5%
0603770230:	34	76,581	29	1	3.4%	66,367	8,925	13.4%
0603770130:	107	76,688	88	3	3.4%	66,455	8,928	13.4%
0603770150:	102	76,790	89	3	3.4%	66,544	8,931	13.4%
0603770140:	251	77,041	239	8	3.3%	66,783	8,939	13.4%
0603770130:	37	77,078	30	1	3.3%	66,813	8,940	13.4%
0603770130:	41	77,119	30	1	3.3%	66,843	8,941	13.4%
0603770230:	44	77,163	30	1	3.3%	66,873	8,942	13.4%
0603770230:	40	77,203	30	1	3.3%	66,903	8,943	13.4%
0603770130:	36	77,239	30	1	3.3%	66,933	8,944	13.4%
0603770220:	40	77,279	30	1	3.3%	66,963	8,945	13.4%
0603770130:	38	77,317	30	1	3.3%	66,993	8,946	13.4%
0603770220:	33	77,350	30	1	3.3%	67,023	8,947	13.3%
0603770160:	39	77,389	30	1	3.3%	67,053	8,948	13.3%
0603770120:	110	77,499	92	3	3.3%	67,145	8,951	13.3%
0603770130:	42	77,541	31	1	3.2%	67,176	8,952	13.3%
0603770120:	85	77,626	62	2	3.2%	67,238	8,954	13.3%
0603770150:	67	77,693	62	2	3.2%	67,300	8,956	13.3%
0603770190:	31	77,724	31	1	3.2%	67,331	8,957	13.3%
0603770130:	101	77,825	95	3	3.2%	67,426	8,960	13.3%
0603770120:	41	77,866	32	1	3.1%	67,458	8,961	13.3%
0603770210:	40	77,906	32	1	3.1%	67,490	8,962	13.3%
0603770120:	71	77,977	64	2	3.1%	67,554	8,964	13.3%
0603770130:	194	78,171	161	5	3.1%	67,715	8,969	13.2%
0603770130:	140	78,311	129	4	3.1%	67,844	8,973	13.2%
0603770200:	140	78,451	130	4	3.1%	67,974	8,977	13.2%
0603770150:	118	78,569	98	3	3.1%	68,072	8,980	13.2%
0603770230:	37	78,606	33	1	3.0%	68,105	8,981	13.2%
0603770120:	56	78,662	33	1	3.0%	68,138	8,982	13.2%
0603770160:	69	78,731	67	2	3.0%	68,205	8,984	13.2%
0603770200:	41	78,772	34	1	2.9%	68,239	8,985	13.2%
0603770160:	42	78,814	34	1	2.9%	68,273	8,986	13.2%
0603770230:	110	78,924	102	3	2.9%	68,375	8,989	13.1%
0603770150:	69	78,993	69	2	2.9%	68,444	8,991	13.1%
0603770120:	44	79,037	35	1	2.9%	68,479	8,992	13.1%
0603770120:	43	79,080	35	1	2.9%	68,514	8,993	13.1%
0603770160:	79	79,159	71	2	2.8%	68,585	8,995	13.1%
0603770160:	44	79,203	36	1	2.8%	68,621	8,996	13.1%
0603770220:	42	79,245	36	1	2.8%	68,657	8,997	13.1%
0603770130:	50	79,295	36	1	2.8%	68,693	8,998	13.1%
0603770130:	47	79,342	36	1	2.8%	68,729	8,999	13.1%
0603770120:	42	79,384	36	1	2.8%	68,765	9,000	13.1%
0603770220:	44	79,428	36	1	2.8%	68,801	9,001	13.1%
0603770150:	84	79,512	74	2	2.7%	68,875	9,003	13.1%
0603770150:	76	79,588	74	2	2.7%	68,949	9,005	13.1%
0603770120:	136	79,724	111	3	2.7%	69,060	9,008	13.0%
0603770120:	58	79,782	37	1	2.7%	69,097	9,009	13.0%
0603770120:	54	79,836	38	1	2.6%	69,135	9,010	13.0%
0603770120:	82	79,918	78	2	2.6%	69,213	9,012	13.0%
0603770120:	59	79,977	39	1	2.6%	69,252	9,013	13.0%
0603770200:	238	80,215	237	6	2.5%	69,489	9,019	13.0%
0603770160:	53	80,268	40	1	2.5%	69,529	9,020	13.0%
0603770130:	141	80,409	121	3	2.5%	69,650	9,023	13.0%
0603770160:	47	80,456	41	1	2.4%	69,691	9,024	12.9%
0603770130:	46	80,502	42	1	2.4%	69,733	9,025	12.9%
0603770130:	95	80,597	84	2	2.4%	69,817	9,027	12.9%
0603770120:	59	80,656	42	1	2.4%	69,859	9,028	12.9%
0603770120:	102	80,758	84	2	2.4%	69,943	9,030	12.9%
0603770190:	44	80,802	42	1	2.4%	69,985	9,031	12.9%
0603770220:	46	80,848	42	1	2.4%	70,027	9,032	12.9%
0603770160:	55	80,903	42	1	2.4%	70,069	9,033	12.9%
0603770120:	53	80,956	42	1	2.4%	70,111	9,034	12.9%

0603770120:	61	81,017	43	1	2.3%	70,154	9,035	12.9%
0603770120:	69	81,086	43	1	2.3%	70,197	9,036	12.9%
0603770160:	58	81,144	43	1	2.3%	70,240	9,037	12.9%
0603770210:	47	81,191	43	1	2.3%	70,283	9,038	12.9%
0603770220:	51	81,242	44	1	2.3%	70,327	9,039	12.9%
0603770140:	92	81,334	89	2	2.2%	70,416	9,041	12.8%
0603770130:	150	81,484	134	3	2.2%	70,550	9,044	12.8%
0603770160:	57	81,541	45	1	2.2%	70,595	9,045	12.8%
0603770230:	59	81,600	46	1	2.2%	70,641	9,046	12.8%
0603770220:	111	81,711	93	2	2.2%	70,734	9,048	12.8%
0603770160:	51	81,762	47	1	2.1%	70,781	9,049	12.8%
0603770120:	67	81,829	47	1	2.1%	70,828	9,050	12.8%
0603770120:	54	81,883	47	1	2.1%	70,875	9,051	12.8%
0603770160:	57	81,940	49	1	2.0%	70,924	9,052	12.8%
0603770160:	136	82,076	99	2	2.0%	71,023	9,054	12.7%
0603770130:	66	82,142	50	1	2.0%	71,073	9,055	12.7%
0603770160:	58	82,200	50	1	2.0%	71,123	9,056	12.7%
0603770130:	76	82,276	52	1	1.9%	71,175	9,057	12.7%
0603770120:	66	82,342	54	1	1.9%	71,229	9,058	12.7%
0603770220:	64	82,406	54	1	1.9%	71,283	9,059	12.7%
0603770130:	114	82,520	109	2	1.8%	71,392	9,061	12.7%
0603770120:	82	82,602	58	1	1.7%	71,450	9,062	12.7%
0603770210:	69	82,671	58	1	1.7%	71,508	9,063	12.7%
0603770140:	132	82,803	116	2	1.7%	71,624	9,065	12.7%
0603770200:	59	82,862	59	1	1.7%	71,683	9,066	12.6%
0603770220:	86	82,948	59	1	1.7%	71,742	9,067	12.6%
0603770140:	203	83,151	182	3	1.6%	71,924	9,070	12.6%
0603770230:	66	83,217	61	1	1.6%	71,985	9,071	12.6%
0603770190:	137	83,354	124	2	1.6%	72,109	9,073	12.6%
0603770160:	67	83,421	62	1	1.6%	72,171	9,074	12.6%
0603770130:	66	83,487	62	1	1.6%	72,233	9,075	12.6%
0603770130:	74	83,561	65	1	1.5%	72,298	9,076	12.6%
0603770200:	71	83,632	67	1	1.5%	72,365	9,077	12.5%
0603770160:	87	83,719	72	1	1.4%	72,437	9,078	12.5%
0603770170:	82	83,801	74	1	1.4%	72,511	9,079	12.5%
0603770150:	96	83,897	79	1	1.3%	72,590	9,080	12.5%
0603770170:	109	84,006	88	1	1.1%	72,678	9,081	12.5%
0603770160:	99	84,105	92	1	1.1%	72,770	9,082	12.5%
0603770200:	9	84,114	7	0	0.0%	72,777	9,082	12.5%
0603770220:	31	84,145	17	0	0.0%	72,794	9,082	12.5%
0603770220:	48	84,193	18	0	0.0%	72,832	9,082	12.5%
0603770160:	4	84,197	4	0	0.0%	72,836	9,082	12.5%
0603770160:	1	84,198	1	0	0.0%	72,837	9,082	12.5%
0603770120:	58	84,256	48	0	0.0%	72,885	9,082	12.5%
0603770160:	21	84,277	14	0	0.0%	72,899	9,082	12.5%
0603770150:	4	84,281	4	0	0.0%	72,903	9,082	12.5%
0603770220:	12	84,293	10	0	0.0%	72,913	9,082	12.5%
0603770230:	21	84,314	18	0	0.0%	72,931	9,082	12.5%
0603770120:	21	84,335	18	0	0.0%	72,949	9,082	12.4%
0603770160:	1	84,336	1	0	0.0%	72,950	9,082	12.4%
0603770120:	27	84,363	15	0	0.0%	72,965	9,082	12.4%
0603770160:	20	84,383	12	0	0.0%	72,977	9,082	12.4%
0603770160:	47	84,430	37	0	0.0%	73,014	9,082	12.4%
0603770120:	13	84,443	7	0	0.0%	73,021	9,082	12.4%
0603770180:	1	84,444	1	0	0.0%	73,022	9,082	12.4%
0603770190:	1	84,445	1	0	0.0%	73,023	9,082	12.4%
0603770230:	23	84,468	19	0	0.0%	73,042	9,082	12.4%
0603770220:	23	84,491	19	0	0.0%	73,061	9,082	12.4%
0603770220:	36	84,527	21	0	0.0%	73,082	9,082	12.4%
0603770180:	7	84,534	7	0	0.0%	73,089	9,082	12.4%
0603770130:	35	84,569	27	0	0.0%	73,116	9,082	12.4%
0603770180:	5	84,574	2	0	0.0%	73,118	9,082	12.4%
0603770200:	5	84,579	5	0	0.0%	73,123	9,082	12.4%
0603770210:	4	84,583	3	0	0.0%	73,126	9,082	12.4%
0603770210:	12	84,595	11	0	0.0%	73,137	9,082	12.4%
0603770190:	1	84,596	1	0	0.0%	73,138	9,082	12.4%
0603770220:	24	84,620	20	0	0.0%	73,158	9,082	12.4%
0603770220:	2	84,622	2	0	0.0%	73,160	9,082	12.4%
0603770130:	27	84,649	18	0	0.0%	73,178	9,082	12.4%
0603770130:	23	84,672	17	0	0.0%	73,195	9,082	12.4%
0603770130:	44	84,716	32	0	0.0%	73,227	9,082	12.4%
0603770120:	58	84,774	39	0	0.0%	73,266	9,082	12.4%
0603770120:	18	84,792	17	0	0.0%	73,283	9,082	12.4%
0603770120:	61	84,853	40	0	0.0%	73,323	9,082	12.4%
0603770120:	49	84,902	41	0	0.0%	73,364	9,082	12.4%
0603770120:	27	84,929	21	0	0.0%	73,385	9,082	12.4%
0603770130:	46	84,975	36	0	0.0%	73,421	9,082	12.4%
0603770150:	40	85,015	36	0	0.0%	73,457	9,082	12.4%
0603770120:	11	85,026	11	0	0.0%	73,468	9,082	12.4%
0603770130:	45	85,071	35	0	0.0%	73,503	9,082	12.4%
0603770120:	35	85,106	25	0	0.0%	73,528	9,082	12.4%
0603770160:	41	85,147	36	0	0.0%	73,564	9,082	12.3%
0603770160:	20	85,167	13	0	0.0%	73,577	9,082	12.3%
0603770190:	1	85,168	1	0	0.0%	73,578	9,082	12.3%
0603770190:	3	85,171	3	0	0.0%	73,581	9,082	12.3%
0603770200:	59	85,230	56	0	0.0%	73,637	9,082	12.3%
0603770180:	2	85,232	2	0	0.0%	73,639	9,082	12.3%
0603770130:	12	85,244	10	0	0.0%	73,649	9,082	12.3%
0603770160:	20	85,264	13	0	0.0%	73,662	9,082	12.3%
0603770130:	18	85,282	12	0	0.0%	73,674	9,082	12.3%
0603770130:	53	85,335	41	0	0.0%	73,715	9,082	12.3%
0603770180:	5	85,340	3	0	0.0%	73,718	9,082	12.3%
0603770210:	20	85,360	15	0	0.0%	73,733	9,082	12.3%
0603770210:	3	85,363	3	0	0.0%	73,736	9,082	12.3%
0603770180:	1	85,364	1	0	0.0%	73,737	9,082	12.3%
0603770200:	19	85,383	18	0	0.0%	73,755	9,082	12.3%
0603770210:	39	85,422	39	0	0.0%	73,794	9,082	12.3%
0603770120:	46	85,468	41	0	0.0%	73,835	9,082	12.3%
0603770130:	29	85,497	29	0	0.0%	73,858	9,082	12.3%
0603770160:	18	85,515	13	0	0.0%	73,871	9,082	12.3%
0603770160:	21	85,536	10	0	0.0%	73,881	9,082	12.3%
0603770120:	68	85,604	49	0	0.0%	73,930	9,082	12.3%
0603770160:	36	85,640	26	0	0.0%	73,956	9,082	12.3%

0603770160:	57	85,697	36	0	0.0%	73,992	9,082	12.3%
0603770170:	1	85,698	1	0	0.0%	73,993	9,082	12.3%
0603770130:	172	85,870	167	0	0.0%	74,160	9,082	12.2%
0603770190:	9	85,879	9	0	0.0%	74,169	9,082	12.2%
0603770200:	81	85,960	61	0	0.0%	74,230	9,082	12.2%
0603770170:	23	85,983	22	0	0.0%	74,252	9,082	12.2%
0603770140:	3	85,986	2	0	0.0%	74,254	9,082	12.2%
0603770190:	1	85,987	1	0	0.0%	74,255	9,082	12.2%
0603770220:	29	86,016	21	0	0.0%	74,276	9,082	12.2%
0603770220:	11	86,027	9	0	0.0%	74,285	9,082	12.2%
0603770210:	62	86,089	53	0	0.0%	74,338	9,082	12.2%
0603770190:	2	86,091	2	0	0.0%	74,340	9,082	12.2%
0603770200:	1	86,092	1	0	0.0%	74,341	9,082	12.2%
0603770160:	19	86,111	15	0	0.0%	74,356	9,082	12.2%
0603770160:	17	86,128	14	0	0.0%	74,370	9,082	12.2%
0603770220:	29	86,157	24	0	0.0%	74,394	9,082	12.2%
0603770220:	32	86,189	24	0	0.0%	74,418	9,082	12.2%
0603770190:	5	86,194	4	0	0.0%	74,422	9,082	12.2%
0603770230:	15	86,209	13	0	0.0%	74,435	9,082	12.2%
0603770140:	7	86,216	7	0	0.0%	74,442	9,082	12.2%
0603770180:	5	86,221	5	0	0.0%	74,447	9,082	12.2%
0603770130:	28	86,249	21	0	0.0%	74,468	9,082	12.2%
0603770190:	2	86,251	2	0	0.0%	74,470	9,082	12.2%
0603770180:	1	86,252	1	0	0.0%	74,471	9,082	12.2%
0603770130:	16	86,268	14	0	0.0%	74,485	9,082	12.2%
0603770130:	36	86,304	24	0	0.0%	74,509	9,082	12.2%
0603770220:	27	86,331	19	0	0.0%	74,528	9,082	12.2%
0603770220:	9	86,340	5	0	0.0%	74,533	9,082	12.2%
0603770190:	2	86,342	2	0	0.0%	74,535	9,082	12.2%
0603770200:	1	86,343	1	0	0.0%	74,536	9,082	12.2%
0603770220:	20	86,363	19	0	0.0%	74,555	9,082	12.2%
0603770220:	8	86,371	7	0	0.0%	74,562	9,082	12.2%
0603770190:	7	86,378	7	0	0.0%	74,569	9,082	12.2%
0603770130:	37	86,415	29	0	0.0%	74,598	9,082	12.2%
0603770130:	44	86,459	30	0	0.0%	74,628	9,082	12.2%
0603770130:	32	86,491	26	0	0.0%	74,654	9,082	12.2%
0603770220:	26	86,517	19	0	0.0%	74,673	9,082	12.2%
0603770230:	10	86,527	5	0	0.0%	74,678	9,082	12.2%
0603770160:	22	86,549	16	0	0.0%	74,694	9,082	12.2%
0603770120:	28	86,577	23	0	0.0%	74,717	9,082	12.2%
0603770120:	27	86,604	22	0	0.0%	74,739	9,082	12.2%
0603770160:	30	86,634	24	0	0.0%	74,763	9,082	12.1%
0603770160:	39	86,673	32	0	0.0%	74,795	9,082	12.1%
0603770120:	70	86,743	49	0	0.0%	74,844	9,082	12.1%
0603770160:	56	86,799	40	0	0.0%	74,884	9,082	12.1%
0603770120:	75	86,874	55	0	0.0%	74,939	9,082	12.1%
0603770120:	32	86,906	23	0	0.0%	74,962	9,082	12.1%
0603770190:	7	86,913	7	0	0.0%	74,969	9,082	12.1%
0603770120:	53	86,966	36	0	0.0%	75,005	9,082	12.1%
0603770180:	1	86,967	1	0	0.0%	75,006	9,082	12.1%
0603770230:	15	86,982	11	0	0.0%	75,017	9,082	12.1%
0603770160:	39	87,021	33	0	0.0%	75,050	9,082	12.1%
0603770130:	35	87,056	26	0	0.0%	75,076	9,082	12.1%
0603770120:	6	87,062	5	0	0.0%	75,081	9,082	12.1%
0603770160:	61	87,123	41	0	0.0%	75,122	9,082	12.1%
0603770220:	32	87,155	22	0	0.0%	75,144	9,082	12.1%
0603770130:	31	87,186	22	0	0.0%	75,166	9,082	12.1%
0603770220:	17	87,203	11	0	0.0%	75,177	9,082	12.1%
0603770190:	1	87,204	1	0	0.0%	75,178	9,082	12.1%
0603770220:	23	87,227	16	0	0.0%	75,194	9,082	12.1%
0603770150:	30	87,257	30	0	0.0%	75,224	9,082	12.1%
0603770180:	1	87,258	1	0	0.0%	75,225	9,082	12.1%
0603770130:	36	87,294	26	0	0.0%	75,251	9,082	12.1%
0603770160:	19	87,313	17	0	0.0%	75,268	9,082	12.1%
0603770180:	12	87,325	11	0	0.0%	75,279	9,082	12.1%
0603770130:	26	87,351	21	0	0.0%	75,300	9,082	12.1%
0603770130:	78	87,429	54	0	0.0%	75,354	9,082	12.1%
0603770180:	1	87,430	1	0	0.0%	75,355	9,082	12.1%
0603770180:	30	87,460	25	0	0.0%	75,380	9,082	12.0%
0603770130:	18	87,478	15	0	0.0%	75,395	9,082	12.0%
0603770130:	24	87,502	18	0	0.0%	75,413	9,082	12.0%
0603770170:	1	87,503	1	0	0.0%	75,414	9,082	12.0%
0603770210:	9	87,512	6	0	0.0%	75,420	9,082	12.0%
0603770200:	1	87,513	1	0	0.0%	75,421	9,082	12.0%
0603770190:	13	87,526	13	0	0.0%	75,434	9,082	12.0%
0603770220:	35	87,561	22	0	0.0%	75,456	9,082	12.0%
0603770210:	6	87,567	6	0	0.0%	75,462	9,082	12.0%
0603770220:	55	87,622	40	0	0.0%	75,502	9,082	12.0%
0603770120:	10	87,632	7	0	0.0%	75,509	9,082	12.0%
0603770210:	16	87,648	16	0	0.0%	75,525	9,082	12.0%
0603770210:	4	87,652	4	0	0.0%	75,529	9,082	12.0%
0603770190:	2	87,654	2	0	0.0%	75,531	9,082	12.0%
0603770230:	1	87,655	1	0	0.0%	75,532	9,082	12.0%
0603770130:	20	87,675	15	0	0.0%	75,547	9,082	12.0%
0603770130:	56	87,731	35	0	0.0%	75,582	9,082	12.0%
0603770180:	8	87,739	8	0	0.0%	75,590	9,082	12.0%
0603770120:	23	87,762	13	0	0.0%	75,603	9,082	12.0%
0603770130:	33	87,795	22	0	0.0%	75,625	9,082	12.0%
0603770170:	1	87,796	1	0	0.0%	75,626	9,082	12.0%
0603770190:	2	87,798	2	0	0.0%	75,628	9,082	12.0%
0603770210:	39	87,837	32	0	0.0%	75,660	9,082	12.0%
0603770210:	13	87,850	13	0	0.0%	75,673	9,082	12.0%
0603770220:	13	87,863	13	0	0.0%	75,686	9,082	12.0%
0603770210:	8	87,871	4	0	0.0%	75,690	9,082	12.0%
0603770220:	25	87,896	16	0	0.0%	75,706	9,082	12.0%
0603770220:	57	87,953	47	0	0.0%	75,753	9,082	12.0%
0603770180:	1	87,954	1	0	0.0%	75,754	9,082	12.0%
0603770130:	36	87,990	34	0	0.0%	75,788	9,082	12.0%
0603770130:	52	88,042	38	0	0.0%	75,826	9,082	12.0%
0603770120:	64	88,106	53	0	0.0%	75,879	9,082	12.0%
0603770120:	32	88,138	21	0	0.0%	75,900	9,082	12.0%
0603770120:	69	88,207	48	0	0.0%	75,948	9,082	12.0%
0603770120:	55	88,262	47	0	0.0%	75,995	9,082	12.0%

0603770120:	59	88,321	48	0	0.0%	76,043	9,082	11.9%
0603770130:	23	88,344	19	0	0.0%	76,062	9,082	11.9%
0603770120:	34	88,378	31	0	0.0%	76,093	9,082	11.9%
0603770130:	80	88,458	63	0	0.0%	76,156	9,082	11.9%
0603770180:	10	88,468	9	0	0.0%	76,165	9,082	11.9%
0603770190:	3	88,471	3	0	0.0%	76,168	9,082	11.9%
0603770180:	4	88,475	2	0	0.0%	76,170	9,082	11.9%
0603770120:	38	88,513	30	0	0.0%	76,200	9,082	11.9%
0603770220:	1	88,514	1	0	0.0%	76,201	9,082	11.9%
0603770220:	15	88,529	14	0	0.0%	76,215	9,082	11.9%
0603770230:	3	88,532	2	0	0.0%	76,217	9,082	11.9%
0603770190:	18	88,550	18	0	0.0%	76,235	9,082	11.9%
0603770190:	6	88,556	6	0	0.0%	76,241	9,082	11.9%
0603770180:	4	88,560	4	0	0.0%	76,245	9,082	11.9%
0603770130:	31	88,591	23	0	0.0%	76,268	9,082	11.9%
0603770160:	58	88,649	51	0	0.0%	76,319	9,082	11.9%
0603770120:	26	88,675	15	0	0.0%	76,334	9,082	11.9%
0603770230:	44	88,719	36	0	0.0%	76,370	9,082	11.9%
0603770210:	39	88,758	37	0	0.0%	76,407	9,082	11.9%
0603770190:	2	88,760	2	0	0.0%	76,409	9,082	11.9%
0603770220:	5	88,765	3	0	0.0%	76,412	9,082	11.9%
0603770190:	6	88,771	5	0	0.0%	76,417	9,082	11.9%
0603770230:	1	88,772	1	0	0.0%	76,418	9,082	11.9%
0603770190:	3	88,775	3	0	0.0%	76,421	9,082	11.9%
0603770150:	1	88,776	1	0	0.0%	76,422	9,082	11.9%
0603770160:	15	88,791	11	0	0.0%	76,433	9,082	11.9%
0603770120:	63	88,854	44	0	0.0%	76,477	9,082	11.9%
0603770160:	18	88,872	13	0	0.0%	76,490	9,082	11.9%
0603770160:	58	88,930	46	0	0.0%	76,536	9,082	11.9%
0603770120:	27	88,957	21	0	0.0%	76,557	9,082	11.9%
0603770120:	71	89,028	47	0	0.0%	76,604	9,082	11.9%
0603770120:	73	89,101	58	0	0.0%	76,662	9,082	11.8%
0603770210:	10	89,111	10	0	0.0%	76,672	9,082	11.8%
0603770220:	4	89,115	4	0	0.0%	76,676	9,082	11.8%
0603770220:	28	89,143	21	0	0.0%	76,697	9,082	11.8%
0603770200:	3	89,146	3	0	0.0%	76,700	9,082	11.8%
0603770180:	6	89,152	6	0	0.0%	76,706	9,082	11.8%
0603770190:	16	89,168	12	0	0.0%	76,718	9,082	11.8%
0603770140:	20	89,188	16	0	0.0%	76,734	9,082	11.8%
0603770130:	29	89,217	22	0	0.0%	76,756	9,082	11.8%
0603770130:	35	89,252	27	0	0.0%	76,783	9,082	11.8%
0603770120:	48	89,300	39	0	0.0%	76,822	9,082	11.8%
0603770130:	34	89,334	26	0	0.0%	76,848	9,082	11.8%
0603770120:	73	89,407	50	0	0.0%	76,898	9,082	11.8%
0603770230:	8	89,415	7	0	0.0%	76,905	9,082	11.8%
0603770160:	35	89,450	30	0	0.0%	76,935	9,082	11.8%
0603770160:	38	89,488	36	0	0.0%	76,971	9,082	11.8%
0603770190:	7	89,495	5	0	0.0%	76,976	9,082	11.8%
0603770220:	8	89,503	5	0	0.0%	76,981	9,082	11.8%
0603770230:	5	89,508	5	0	0.0%	76,986	9,082	11.8%
0603770190:	4	89,512	3	0	0.0%	76,989	9,082	11.8%
0603770180:	11	89,523	11	0	0.0%	77,000	9,082	11.8%
0603770160:	45	89,568	31	0	0.0%	77,031	9,082	11.8%
0603770160:	13	89,581	8	0	0.0%	77,039	9,082	11.8%
0603770130:	40	89,621	25	0	0.0%	77,064	9,082	11.8%
flipped 1,000--								
0603770160:	14	89,635	11	0	0.0%	77,075	9,082	11.8%
0603770130:	51	89,686	42	0	0.0%	77,117	9,082	11.8%
0603770130:	48	89,734	39	0	0.0%	77,156	9,082	11.8%
0603770190:	0	0	0					
0603770200:	0	0	0					
0603770190:	0	0	0					
0603770150:	0	0	0					
0603770150:	0	0	0					
0603770160:	0	0	0					
0603770160:	0	0	0					
0603770180:	0	0	0					
0603770180:	0	0	0					
0603770180:	0	0	0					
0603770150:	0	0	0					
0603770180:	0	0	0					
0603770140:	0	0	0					
0603770130:	0	0	0					
0603770190:	0	0	0					
0603770150:	0	0	0					
0603770230:	0	0	0					
0603770190:	0	0	0					
0603770230:	0	0	0					
0603770170:	0	0	0					
0603770220:	0	0	0					
0603770160:	0	0	0					
0603770130:	0	0	0					
0603770130:	0	0	0					
0603770130:	0	0	0					
0603770180:	0	0	0					
0603770210:	0	0	0					
0603770190:	0	0	0					
0603770200:	0	0	0					
0603770190:	0	0	0					
0603770190:	0	0	0					
0603770230:	0	0	0					
0603770230:	0	0	0					
0603770140:	0	0	0					
0603770180:	0	0	0					
0603770120:	0	0	0					
0603770160:	0	0	0					
0603770160:	0	0	0					
0603770180:	0	0	0					
0603770170:	0	0	0					
0603770140:	0	0	0					
0603770180:	0	0	0					
0603770180:	0	0	0					





0603770180:	0	0	0					
0603770160:	0	0	0					
0603770140:	0	0	0					
0603770230:	0	0	0					
0603770140:	0	0	0					
0603770180:	0	0	0					
0603770140:	0	0	0					
0603770180:	0	0	0					
0603770180:	0	0	0					
0603770120:	0	0	0					
0603770180:	0	0	0					
0603770180:	0	0	0					
0603770190:	0	0	0					
0603770220:	0	0	0					
0603770190:	0	0	0					
0603770220:	0	0	0					
0603770190:	0	0	0					
0603770180:	0	0	0					
0603770180:	0	0	0					
0603770180:	0	0	0					
0603770180:	0	0	0					
0603770230:	0	0	0					
0603770180:	0	0	0					
0603770160:	0	0	0					
0603770180:	0	0	0					
0603770130:	0	0	0					
0603770130:	0	0	0					
0603770180:	0	0	0					
<b>TOTALS</b>	<b>89,736</b>	<b>77,156</b>	<b>9,082</b>	<b>11.8%</b>	<b>77,156</b>	<b>9,082</b>	<b>11.8%</b>	