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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD

Before Administrative Judge:
Peter B. Bloch

In the Matter of	
ROCKWELL INTERNATIONAL CORPORATION Rocketdyne Division	Docket 70-25 - ML
(Special Material License Number SNM-21	Request to Renew For Ten Years
	ASLBP no. 89-594-01-ML

ESTELLE LIT'S AND JEROME RASKIN'S RESPONSE TO MOTION TO STRIKE PORTIONS OF INTERNENORS' WRITTEN PRESENTATIONS AND BRIEF IN SUPPORT

Rockwell International Corporation's (Applicant) Motion to Strike should not prevail because it does not contend that any substantive part of our Direct Case is faulty. The concerns expressed within our Direct Case, dated February 13, 1990, and our Amendment, dated February 19, 1990, should not be stricken because they are in compliance with Judge Bloch's Memorandum and Order, dated October 5, 1989, and 10 CFR 2.1233. Applicant's arguments are not sufficient to strike our Direct Case and Amendment. Each argument will be dealt with below separately.

A/31

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The regulations cited within our Amendment Specifically apply to each concern expressed in our Direct Case. Applicant does not deny that the regulations cited in our Amendment apply to our concerns. Initially, Applicant alleges that our Direct Case and Amendment should be stricken because we allegedly do not cite specific sections of the regulations for each specific concern, Applicant cited Judge Bloch's Memorandum and Order, dated October 5, 1989.

The Amendment was especially created to abide by Judge Bloch's request that each concern be accompanied by a regulatory violation. Within the second, third and fourth paragraphs of our Amendment the concerns are matched with regulatory violations. The five concerns within the Direct Case deal with safety and health issues. Safety is our major concern. Each regulation cited addressed safety concerns. For example, please refer to the Amendment, "[t]he regulations also require Rocketdyne to make every reasonable effort to maintain radiation exposures, and releases of radioactive materials in effluent to unrestricted areas.' 10 CFR 20.1(c). Rocketdyne has violated these safeguards mandated by the regulations. As stated in our third and fourth concerns..." (Amendment, p2, para.1)

Applicant's argument regarding specific applications of the regulation is unfounded. First, as stated above, the Amendment and our Direct Case meets this criteria. The Amendment clearly lays our the applicable regulations and the corresponding concerns which is precisely what Judge Bloch's Memorandum and

ORder prescribes. It is important to note that 10 CFR 2.1233(e) begins by emphasizing that "[s]trict rules of evidence do not apply to written submissions under this section." Therefore, the Direct Case and Amendment should not be stricken. Second, it is completely unreasonable of Applicant to imply that we must reiterate regulations when they even contend that "there is no benefit in answering the same question more than once..." (Rockwell's Motion to Strike) Throughout Applicant's Motion to Strike they are setting up unreasonable interpretations of the regulations which whey cannot meet and do not wish to apply to themselves. This behavior in unfair and rather frustrating to make responses. The focus, in our view, should be upon the substantive part of the briefs. For example, whether the substantive regulation applies. Applicant has violated Judge Bloch's Memorandum and Order by not fully acknowledging the thrust of our positions. (Bloch's Order, p.5)

Applicant bases, in part, their motion to strike our brief on a misquoted portion of Judge Bloch's Memorandum and Order, dated October 5, 1989 (pages 3-4). Applicant misquotes Judge Bloch's Memorandum by not quoting the entire rule that he set forth. Applicant writes in their brief:

> "Failure to comply with this paragraph of my order will invalidate the entire discussion of the concern, which may be treated as if it had not even been filed... (footnote omitted)"

However, Judge Bloch actually wrote:

> "Failure to comply with this paragraph of my order will invalidate the entire discussion of the concern, which may be treated as if it had not even been filed--subject only to a discretionary ruling on my part that the matter is too important (to safety or the environment) for me to disregard it." (Emphasis added)

We think that our concerns are too important to the safety and the environment for Judge Bloch to disregard them. Therefore, we respectfully request that, if we did not comply with Judge Bloch's rule, based upon the following arguments Judge Bloch e ~ise his discretion and find that in fact these concerns are too important to the safety and the environment for him to disregard.

Applicant also claims that our brief addresses "irrelevant and immaterial issues which have no bearing on the renewal application", and contains "excessive redundancy and repetition both within and between briefs." This unsubstantiated conclusion without more is incorrect.

Our brief addresses concerns not addressed by other intervenors. Applicant claims that A1 and A3 portions of our brief are "cumulative to Jon Scott's concern no. III". But intervenor Jon Scott addresses the health and safety of himself and his family while we address the health and safety of the

communities surrounding the plant. Clearly these two concerns are not cumulative. And, even if our brief uses evidence similar to evidence used by Scott, this evidence supports different concerns.

Applicant, moreover, does not make any showing as to where our brief is redundant within. This conclusory accusation has absolutely no merit.

Applicant also attacks our brief has having no bearing on the renewal application. This conclusion is also not correct. 10 CFR section 70.22 (a)(7) & (8) CONTENTS OF APPLICATIONS require that:

> "Each application for a license shall contain the following information:
>
> ***
>
> (7) A description of equipment and facilities which will be used by the applicant to protect health and minimize danger to life or property....
>
> (8) Proposed procedures to protect health and minimize danger to life or property...."

10 CFR section 70.23 (a) (3) & (4) REQUIREMENTS FOR THE APPROVAL OF APPLICATIONS sets forth:

> "An application for a license will be approved if the Commission determines that:
>
> ***

(3) The applicant's proposed equipment and facilities are adequate to protect health and minimize danger to life or property.

(4) The applicant's proposed procedures to protect health and to minimize danger to life or property are adequate:"

10 CFR section 70.31 (d) ISSUANCE OF LICENSES reads:

"No license will be issued by the Commission to any person within the United States if the Commission finds that the issuance of such license would be inimical to the common defense and security or would constitute an unreasonable risk to the health and safety of the public."

10 CFR section 70.32 (b)(2) CONDITIONS OF LICENSES, may subject a granted license to the protection of health and the minimization of danger to life or property. And, 10 CFR Part 51 requires environmental data and information to support a renewal application. These code sections require an Applicant show that the health and safety of the land and people living around Applicant's site will not be endangered, leaves no doubt but that our concern is relevant to the licensing application.

CONCERN APPLIED TO RELEVANT CFR SECTION

Point A

We make three arguments supporting Concern A, that Applicant will jeopardize the health and safety of the surrounding

communities and environment near the SSFL. 10 CFR section 70.22 (a)(7) & (8) require as a prerequisite to the granting of a license a showing of Applicant's equipment, procedures and facilities to protect the health and minimize danger to life or property. Applicant attaches two reports to their application, both of which address the health and safety of life and property of life and property surrounding the site. (Environmental Monitoring and Radiological Effluent Report R1/RD890139, attachment 6 and J. D. Moore report dated 1988 attached as Appendix B).

Our concern attacks these reports. Our concern is relevant.

Argument 1

This argument calls in to question the accuracy of the test results of these two reports. We show that Applicant uses inadequate and outdated testing procedures to monitor the surrounding environment for possible radioactive contamination both on and off-site.

Argument 2

Applicant uses demographic statistics in the Environmental Monitoring and Radiological Effluent Report, Attachment 6, to buttress their conclusion that no environmental problems exist which represent an immediate threat to human life. (Page 76 of the 1988 J. D. Moore report) Applicant states in their Motion that "(t)hese demographics are not inconsistent with today's actual population." This conclusion is not correct.

According to the January 1, 1990 report prepared by the

Planning Research section of Los Angeles City Planning Department, since 1980 "(t)he largest numerical increases (in population) were in the Metropolitan and San Fernando Valley regions." Between 1980 and 1989 the population in the San Fernando increased by 125,082 (Page I-3). It is apparent that the population of 1980 is not consistent with the population of 1989.

Moreover, Applicant projects that by 1994, 71,931 people will reside within a 5 mile distance of the site. (Page 12 Table 4 Environmental Assessment Operations Report) Yet according to the map and the Report of Residential Building Activity in Simi Valley attached as exhibits to our brief, as of January 1, 1990 the city of Simi Valley, alone, which is within a five mile distance to the plant, had a population of 106,499. Applicant's projection is flatly incorrect.

Applicant also shows the location of the site in relation to the surrounding communities by attaching an aerial map in the 1988 Moore report (page 4 and 6). This map is inadequate and misleading. We present data and a clearer map to show a realistic picture of proximity of the site to the surrounding communities.

None of the arguments that we make are irrelevant because Applicant introduces data in their application that is required by the CFR. We are attacking this data found in the application.

Argument 3

This argument also addresses our concern of the health and safety of the surrounding communities required by the CFR which

Applicant discusses in their application. Our argument is relevant and is not cumulative with intervenor Scott's argument.

Point B

Applicant contends that the conclusions of a study indicating that there are substantial health effects to low level radiation is not relevant because "the conclusion of the study have not resulted in any changes to the existing radiation standards." (Motion to Strike at p. 17) This type of response is alarming! To think that Applicant would mechanically respond that a new study regarding serious effects from low levels of radiation is not relevant simply because the government has failed to prescribe upgraded regulations is frightening. This attitude leaves us more convinced that Applicant needs to be and should not have their Application renewed. Applicant should be interested in keeping one step ahead of new regulations, rather than attempting to avoid public safety and health standards. The recent study by BEIR "Health Effects of Exposure to Low Levels of Ionizing Radiation" indicates that health effects for low levels of radiation is more harmful than was previously thought. This should concern Applicant and provoke them to take the necessary steps to avoid public health endangerment. Applicant seems to be relieved that the current regulations have not incorporated this alarming new study.

This point also addresses the health and safety requirement of the CFR. Applicant states that the possible radioactive and hazardous contamination at the site poses no immediate threat to

human life. Our point cites new research that casts serious doubt on this conclusion. By saying possible contamination poses no immediate threat to human life it is obvious Rocketdyne did not know whether or not and to what extent contamination existed at the site. So then, how could they conclude that there is no threat to human life?

Conclusion

There is no reason to dismiss the concerns of Estelle Lit and Jerome Raskin based on Applicant's Motion that they are irrelevant and cumulative. We request that Judge Bloch take in to consideration that we did not and do not have legal counsel representing us, and that if he deems that we did not comply with his memorandum, in the interests of justice and fairness this response be considered as curing any deficiencies in our brief.

We respectfully request that the Nuclear Regulatory Commission reject Applicant's request for a one-year extension of the special nuclear materials license for its Santa Susana Field Laboratory.

Estelle Lit

Dr. Estelle Lit

Jerome E. Raskin

Jerome E. Raskin

BEFORE THE
ATOMIC SAFETY AND LICENSING BOARD
U.S. NUCLEAR REGULATORY COMMISSION

DOCKETED
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In the Matter of	)	
	)	
ROCKWELL INTERNATIONAL CORPORATION	)	Docket No. 70-25-ML
	)	
(Rocketdyne Division, Special Nuclear Materials License SNM-21)	)	
	)	
	)	

CERTIFICATE OF SERVICE

I hereby certify that copies of the foregoing Response to Motion to Strike Portions of Joint Contentions and Motion _____ have been served upon the following persons by U.S. mail, first class, except as otherwise noted and in accordance with the requirements of 10 CFR 2.712.

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Washington, D.C. 20555

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Physicians for Social Responsibility
1431 Ocean Avenue, Suite B
Santa Monica, CA 90401

* by express

Dated at Northridge, California
this 7th day of March, 1990

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VICE-PRESIDENT
WILLIAM R. CHRISTOPHER
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January 1, 1990

To Whom It May Concern:

1989 POPULATION ESTIMATE AND HOUSING INVENTORY

The attached report presents the Population Estimate and Housing Inventory for the City of Los Angeles as of October 1, 1989. The report is in three parts, as follows:

Part I: Population and Housing by Planning Area Within Four Major Geographic Regions

Part II: Population and Housing by Planning Area by Housing Type Within Four Major Geographic Regions

Part III: Population and Housing by Council District

The estimated total population of 3,310,057 as of October 1, 1989 does not include any allowance for an undercount in the 1980 census upon which this estimate is based. Questions concerning the report may be directed to:

Planning Research Section
Los Angeles City Planning Department
200 North Spring Street
Room 605B, City Hall
Los Angeles, CA 90012
Phone: (213) 485-5386

KENNETH C. TOPPING
Director of Planning

KCT:JMB:rmv

CTY598

CITY OF LOS ANGELES DEPARTMENT OF CITY PLANNING

POPULATION ESTIMATE AND HOUSING INVENTORY FOR THE CITY OF LOS ANGELES AS OF OCTOBER 1, 1989

Planning Research Section
Department Systems Division
Room 605B, Los Angeles City Hall
Los Angeles, CA 90012

January 1990

CITY OF LOS ANGELES
DEPARTMENT OF CITY PLANNING

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CITY OF LOS ANGELES

OCTOBER 1989 POPULATION ESTIMATE AND HOUSING INVENTORY

On October 1, 1989, the City of Los Angeles had an estimated population of 3,310,057 and a total housing stock of 1,310,013 units. These figures were derived by adjusting the 1980 Federal Census of Population and Housing for subsequent housing completions and demolitions, for observed trends in average household size, and for current occupancy factors as deduced from data on active and inactive residential electric meters.

Separate values of average household size for single-family and for multiple-family residences were determined for each of the four major geographic areas of the City by correcting national regional household size data for economic and density factors, and for racial/ethnic population trends. The household size assumptions are critical because they are applied to the entire housing stock, not just to the net increase in dwelling units.

The City's estimated population growth of 343,207 (11.6%) in the nine and one-half years since the Census represents an average annual growth rate of 1.16 percent. The number of occupied housing units has increased by 10.2 percent during the same period (1.03% per year). Of the total estimated increase in population between April 1, 1980 and October 1, 1989, more than 80 percent is attributable to the increase in the number of occupied dwellings, and the rest to the trend toward increasing household size. The overall vacancy rate in housing has increased from 4.5 percent in 1980 to 5.5 percent in 1989. On estimate date, 71,424 dwelling units were unoccupied.

POPULATION AND HOUSING SUMMARY
1980 Census and 1989 Estimates

	4-1-80 Federal Census	10-1-89 City Estimate	1980 to 1989 Increase	1980 to 1989 % Change	1980 to 1989 Annual Rate (%)
Total Population:					
Metropolitan Region	1,450,135	1,612,618	162,483	11.2	1.1
San Fernando Valley	1,017,365	1,142,447	125,082	12.2	1.2
Westside Region	346,338	374,989	28,651	8.2	0.8
Southbay-Harbor Region	153,012	180,003	26,991	17.6	1.7
City Total	2,966,850*	3,310,057	343,207	11.5	1.2
Total Housing Units					
Metropolitan Region	572,406	605,115	32,709	5.7	0.6
San Fernando Valley	398,274	457,189	58,915	14.7	1.5
Westside Region	163,220	181,298	18,078	11.8	1.1
Southbay-Harbor Region	55,022	66,411	11,389	20.6	2.0
City Total	1,188,922	1,310,013	121,091	10.2	1.0
% Vacant	4.5	5.5			

*NOTE: Minor adjustments in census tract boundary definition would add 2,008 persons to the census count within the City limits. Adjusted total City population would then be 2,968,858 on April 1, 1980. The "official" count does not reflect this adjustment.

Each of the four major geographic regions has grown in population since 1980. The largest numerical increases were in the Metropolitan and San Fernando Valley regions. The largest increase in housing units was in the San Fernando Valley, with 58,915 units added since the 1980 Census; an increase of 14.8 percent.

The estimated vacancy rate was highest in the Westside region (5.9%), and lowest in the San Fernando Valley (4.9%). Apparent anomolies between population and housing units, as in the Metropolitan Los Angeles region result from shifts in the number of persons per household and in occupied dwelling units.

This estimate ignores persons not counted in the 1980 Census. It is reasonable to assume that in any census, some of the population will be missed or will evade census enumerators. Since there is no comparable likelihood of being counted more than once, any imperfection in the census tends toward an undercount.

There has been local concern over the number of undocumented residents living within the City. The Census Bureau makes no distinction between documented and undocumented persons, but tries to count all residents impartially. It appears likely that large numbers of those residing in the City illegally at the time of the census, were counted along with the rest of the population.

No allowance for either a census undercount or an undocumented (and uncounted) element of the population is included in the figures presented here because (a) their inclusion would make it impossible to compare the current estimate with previous estimates, and (b) the figures in the current estimate attempt to reflect the total population that would have been counted had another enumeration been conducted on October 1, 1989.

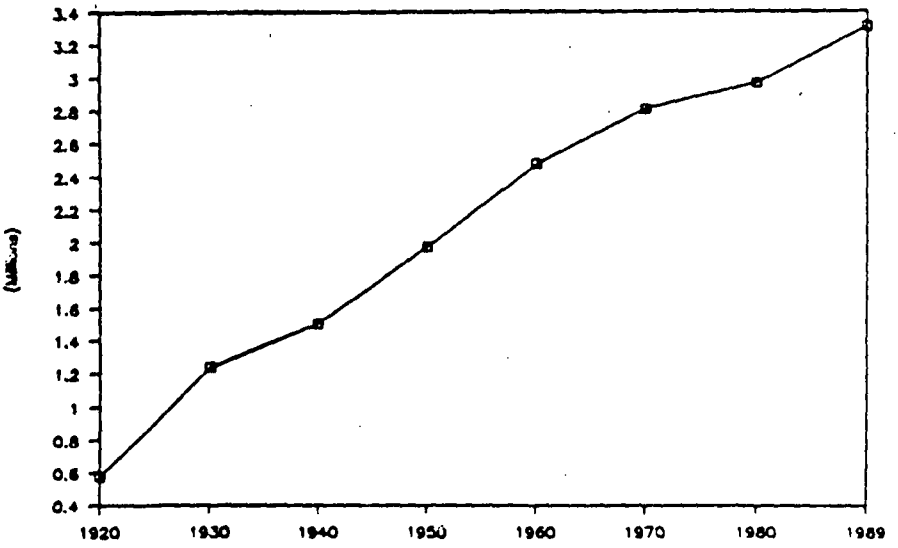
The estimates of population, total housing units and occupied housing units are tabulated on the following pages. They are aggregated to the level of the City's 35 planning areas and four major geographic regions (Parts I and II); and the 15 Council Districts (Part III).

A plot of the City's total population from 1930 to the present appears on Page iii, preceding Part I.

GROWTH HISTORY: CITY OF LOS ANGELES

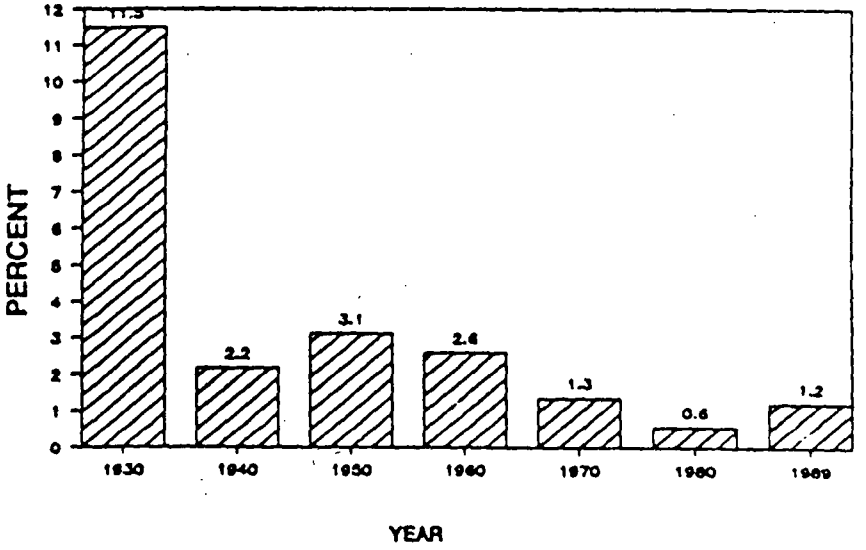
YEAR	POPULATION	SQUARE MILES
1850	1610	28.1
1860	4385	30.3
1870	5728	30.3
1880	11183	30.3
1890	50395	30.3
1900	102479	44.35
1910	319198	88.25
1920	576573	363.85
1930	1238048	441.74
1940	1504277	450.83
1950	1970358	453.51
1960	2479015	457.92
1970	2811801	463.9
1980	2966850	465.8
1989	3310057	467.4

POPULATION IN MILLIONS



AVERAGE ANNUAL GROWTH	
1920–1930	11.5%
1930–1940	2.2%
1940–1950	3.1%
1950–1960	2.6%
1960–1970	1.3%
1970–1980	0.6%
1980–1989	1.2%

AVERAGE ANNUAL GROWTH



CITY OF LOS ANGELES

POPULATION ESTIMATE AND HOUSING INVENTORY

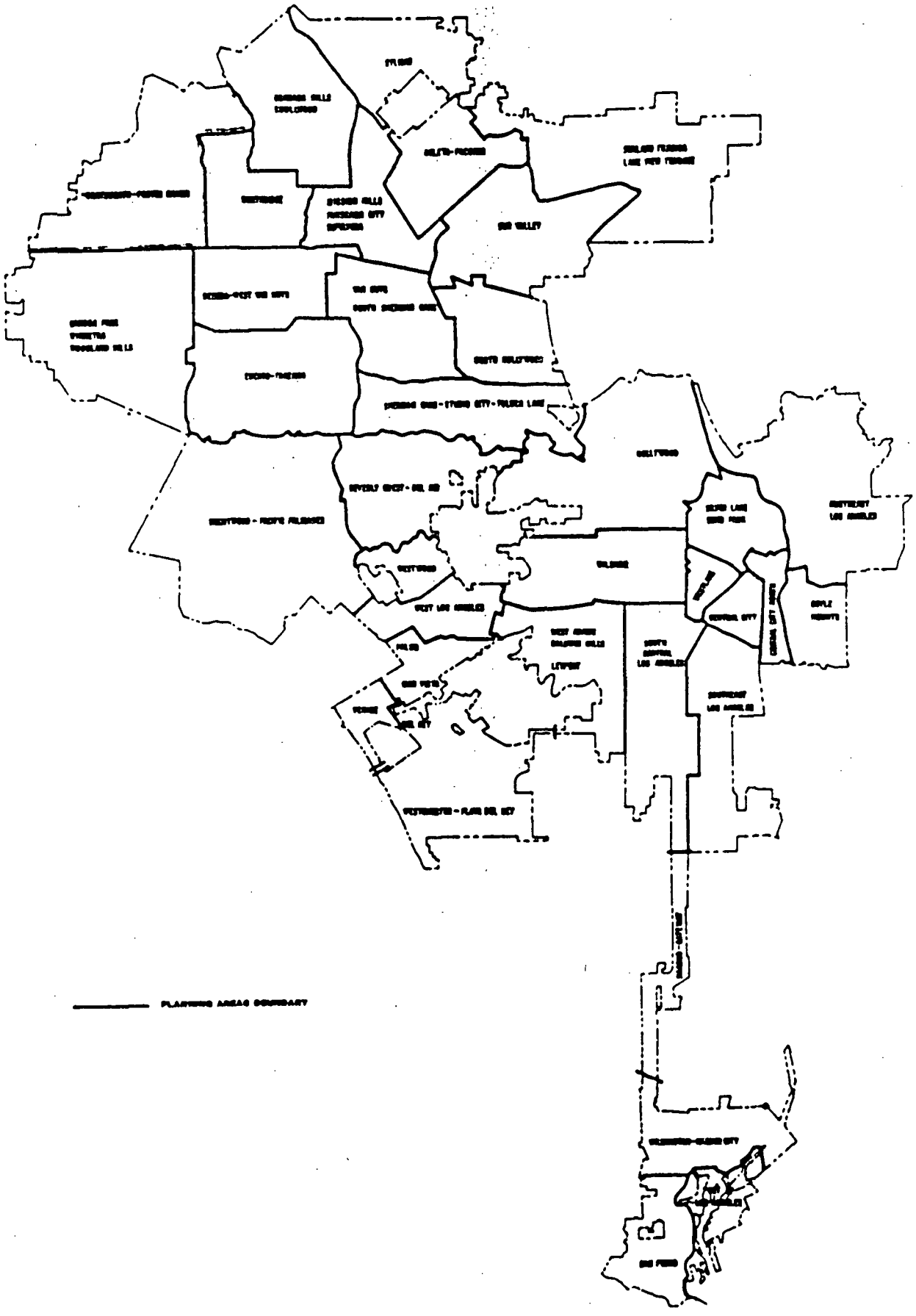
AS OF OCTOBER 1, 1989

PART I

35 COMMUNITY PLANNING AREAS WITHIN FOUR MAJOR GEOGRAPHIC REGIONS

Census Date: April 1, 1980

Estimate Date: October 1, 1989


PLANNING AREAS BOUNDARY

CITY OF LOS ANGELES
SUMMARY OF POPULATION AND HOUSING BY PLANNING DISTRICT
CENSUS DATE (4/1/80) AND ESTIMATE DATE (10/1/89)

	POPULATION				HOUSING			
	4/1/80	10/1/89	INCREASE	ANNUAL GROWTH	10/1/80	10/1/89	INCREASE	ANNUAL GROWTH
NORTHEAST LOS ANGELES	198229	230348	32119	1.59	66624	72416	5792	0.88
BOYLE HEIGHTS	81279	89324	8045	1.00	22134	22860	726	0.34
SOUTHEAST LOS ANGELES	185521	205023	19502	1.06	61080	62306	1226	0.21
WEST ADAMS-BALDWIN HILLS-LEIMERT PARK	151528	164048	12520	0.84	63985	65097	1112	0.18
SOUTH CENTRAL	220971	238117	17146	0.79	77415	78661	1246	0.17
WILSHIRE	225400	254096	28696	1.27	109769	117385	7617	0.71
HOLLYWOOD	181002	205567	24565	1.35	92412	101091	8678	0.95
SILVERLAKE-ECHO PARK	76054	86603	10549	1.38	29045	31216	2171	0.76
WESTLAKE	89224	96180	6956	0.79	36012	37275	1263	0.36
CENTRAL CITY	27480	27936	456	0.17	11887	14160	2273	1.86
N&E CENTRAL CITY	13447	15376	1929	1.42	2044	2648	604	2.76
METROPOLITAN LOS ANGELES----->>>	1450135	1612618	162483	1.12	572406	605115	32709	0.59
SHERMAN OAKS-STUDIO CITY	64392	71649	7257	1.13	33948	38910	4961	1.45
NORTH HOLLYWOOD	95763	107177	11414	1.19	44169	50954	6785	1.52
ARLETA-PACOIMA	68345	81157	12812	1.83	17665	20891	3226	1.78
VAN NUYS-NORTH SHERMAN OAKS	108333	120401	12068	1.12	50115	57495	7380	1.46
MISSION HILLS-PANORAMA CITY-SEPULVEDA	78800	88791	9991	1.26	30414	35641	5228	1.68
SUN VALLEY	60349	65811	5462	0.92	20505	22644	2140	1.05
SYLMAR	41922	54779	12858	2.86	13120	17284	4164	2.94
GRANADA HILLS-KNOLLWOOD	53488	56694	3207	0.61	18393	19375	982	0.55
CANOGA PARK-WINNETKA-WOODLAND HILLS	134844	150952	16107	1.19	50485	58442	7957	1.55
CHATSWORTH-PORTER RANCH	67899	78885	10986	1.59	24499	29916	5417	2.13
NORTHRIDGE	53873	60469	6596	1.22	19221	21893	2672	1.38
RESEDA	77035	81877	4842	0.64	31009	34068	3059	1.00
ENCINO-TARZANA	66503	70041	3539	0.55	27981	29664	1683	0.62
SUNLAND-TUJUNGA	45819	53762	7943	1.70	16750	20011	3261	1.89
SAN FERNANDO VALLEY----------->>>	1017365	1142447	125082	1.23	398274	457189	58915	1.46
WESTWOOD	34534	40022	5488	1.56	16609	20918	4309	2.46
WEST LOS ANGELES	62747	67937	5190	0.84	32866	36680	3814	1.16
PALMS-MAR VISTA-DEL REY	94964	101329	6365	0.69	43729	47615	3886	0.90
VENICE	36553	39275	2722	0.76	18379	19639	1260	0.70
WESTCHESTER-PLAYA DEL REY	43743	43560	4817	1.11	19225	21712	2487	1.29
BRENTWOOD-PACIFIC PALISADES	53794	56365	2570	0.49	24171	25857	1686	0.71
BEL AIR-BEVERLY CREST	20003	21501	1499	0.76	8241	8877	636	0.79
WESTSIDE----------->>>	346338	374989	28651	0.84	163220	181298	18078	1.11
WILMINGTON-HARBOR CITY	60438	68589	8151	1.34	19876	22738	2862	1.43
SAN PEDRO	62336	75834	13498	2.08	25053	31858	6805	2.56
HARBOR GATEWAY	30238	35580	5342	1.73	10093	11815	1722	1.67
SOUTHBAY-HARBOR----------->>>	153012	180003	26991	1.72	55022	66411	11389	2.00
CITYWIDE GRAND TOTAL	2966850	3310057	343207	1.16	1188922	1310013	121091	1.03

CITY OF LOS ANGELES
SUMMARY OF POPULATION AND HOUSING UNITS BY PLANNING DISTRICT
CENSUS DATE (4/1/80) AND ESTIMATE DATE (10/1/89)

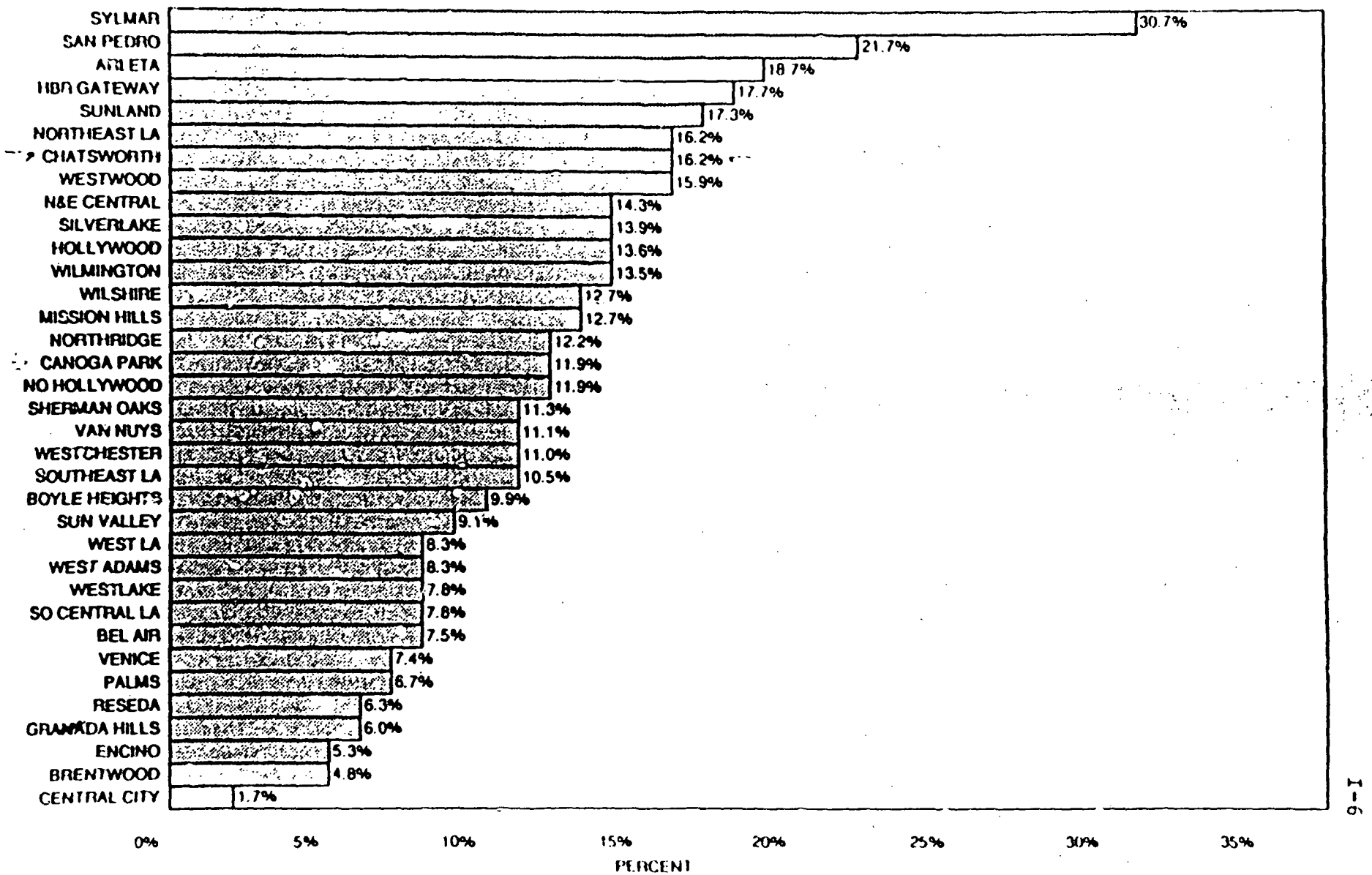
	<<-- POPULATION -->>		<<<------ DWELLING UNITS ESTIMATE DATE ----->>>				<<-- OCCUPIED -->>	
	4/1/80	10/1/89	4/1/80	TOTAL	SINGLES	MULTIPLES	4/1/80	10/1/89
NORTHEAST LOS ANGELES	198229	230348	66624	72416	40799	31618	64098	69604
BOYLE HEIGHTS	81279	89324	22134	22860	9024	13836	21598	22269
SOUTHEAST LOS ANGELES	185521	205023	61080	62306	31794	30518	57617	58851
WEST ADAMS-BALDWIN HILLS-LEIMERT PARK	151528	164048	63985	65097	26083	39014	61497	62253
SOUTH CENTRAL	220971	238117	77415	78661	35635	43026	73837	74490
WILSHIRE	225400	254096	109769	117385	18554	98826	105012	110013
HOLLYWOOD	181002	205567	92412	101091	20659	80431	87724	93704
SILVERLAKE-ECHO PARK	76054	86603	29045	31216	12047	19169	27663	29517
WESTLAKE	89224	96180	36012	37275	2341	34931	34083	34521
CENTRAL CITY	27480	27936	11887	14160	314	13846	10309	12410
H&E CENTRAL CITY	13447	15376	2044	2648	194	2454	1995	2464
METROPOLITAN LOS ANGELES------>>>	1450135	1612618	572406	605115	197444	407669	545433	570096
SHERMAN OAKS-STUDIO CITY	64392	71649	33948	38910	15611	23299	32450	36776
NORTH HOLLYWOOD	95763	107177	44169	50954	16111	34843	42327	48226
ARLETA-PACOIMA	68345	81157	17665	20891	15302	5589	17191	20285
VAN NUYS-NORTH SHERMAN OAKS	108333	120401	50115	57495	18870	38625	48097	54210
MISSION HILLS-PANORAMA CITY-SEPULVEDA	78800	88791	30414	35641	16327	19314	29342	33708
SUN VALLEY	60349	65811	20505	22644	14716	7928	19762	21654
SYLMAR	41922	54779	13120	17284	12094	5190	12612	16974
GRANADA HILLS-KNOLLWOOD	53488	56694	18393	19375	15322	4053	17899	18829
CANOGA PARK-WINNETKA-WOODLAND HILLS	134844	150952	50485	58442	36146	22296	48206	54965
CHATSWORTH-PORTER RANCH	67899	78885	24499	29916	18986	10930	23434	28356
NORTHRIDGE	53873	60469	19221	21893	12848	9045	18528	20917
RESEDA	77035	81877	31009	34068	20581	13487	29969	32539
ENCINO-TARZANA	66503	70041	27981	29664	15445	14219	26456	28221
SUNLAND-TUJUNGA	45819	53762	16750	20011	15098	4913	16127	19216
SAN FERNANDO VALLEY---------->>>	1017365	1142447	398274	457189	243457	213732	382401	434876
WESTWOOD	34534	40022	16609	20918	3582	17336	15127	18778
WEST LOS ANGELES	62747	67937	32866	36680	10213	26466	31094	34344
PALMS-MAR VISTA-DEL REY	94964	101329	43729	47615	14531	33082	42143	45337
VENICE	36553	39275	18379	19639	6534	13106	17154	18453
WESTCHESTER-PLAYA DEL REY	43743	48560	19225	21712	10068	11644	18366	20736
BRENTWOOD-PACIFIC PALISADES	53794	56365	24171	25857	13691	12164	23099	24515
BEL AIR-BEVERLY CREST	20003	21501	8241	8877	7876	1001	7805	8386
WESTSIDE---------->>>	346338	374989	163220	181298	66495	114799	154788	170549
WILMINGTON-HARBOR CITY	60438	68589	19876	22738	11968	10770	19230	21880
SAN PEDRO	62336	75834	25053	31858	12057	19801	23854	29942
HARBOR GATEWAY	30238	35580	10093	11815	5651	6163	9785	11246
SOUTHBAY-HARBOR---------->>>	153012	180003	55022	66411	29676	36734	52869	63068
CITYWIDE GRAND TOTAL	2966850	3310057	1188922	1310013	537072	772934	1135491	1238589

CITY OF LOS ANGELES
SUMMARY OF POPULATION AND HOUSING BY PLANNING DISTRICT
CENSUS DATE (4/1/80) AND ESTIMATE DATE (10/1/89)

	<<<- POPULATION ->>>			<- HOUSING ->		<<-- PERCENTAGE -->> <GROWTH 80/EST DATE>	
	10/1/89	IN HSG UNITS	DENSITY PER ACRE	10/1/89	DENSITY PER ACRE	POP	HOUSING
ORTHEAST LOS ANGELES	230348	226110	14.8	72416	4.7	16.2	8.7
BOYLE HEIGHTS	89324	88277	22.9	22860	5.9	9.9	3.3
SOUTHEAST LOS ANGELES	205023	204093	21.1	62306	6.4	10.5	2.0
WEST ADAMS-BALDWIN HILLS-LEIMERT PARK	164048	162735	20.0	65097	8.0	8.3	1.7
SOUTH CENTRAL	238117	228680	23.1	78661	7.9	7.8	1.6
WILSHIRE	254096	250451	28.3	117385	13.2	12.7	6.9
HOLLYWOOD	205567	201594	12.7	101091	6.4	13.6	9.4
SILVERLAKE-ECHO PARK	86603	85780	18.6	31216	6.8	13.9	7.5
WESTLAKE	96180	92878	47.6	37275	19.1	7.8	3.5
CENTRAL CITY	27936	18998	9.0	14160	6.7	1.7	19.1
N&E CENTRAL CITY	15376	8727	4.6	2648	1.4	14.3	29.5
ROPOLITAN LOS ANGELES------>>>	1612618	1568323	19.1	605115	7.4	11.2	5.7
SHERMAN OAKS-STUDIO CITY	71649	71256	8.1	38910	4.4	11.3	14.6
NORTH HOLLYWOOD	107177	106155	15.8	50954	7.6	11.9	15.4
ARLETA-PACOIMA	81157	80866	11.8	20891	3.0	18.7	18.3
VAN NUYS-NORTH SHERMAN OAKS	120401	118679	14.8	57495	7.1	11.1	14.7
MISSION HILLS-PANORAMA CITY-SEPULVEDA	88791	87652	12.2	35641	5.0	12.7	17.2
SUN VALLEY	65811	65448	5.5	22644	1.9	9.1	10.4
SYLMAR	54779	53756	6.7	17284	2.1	30.7	31.7
GRANADA HILLS-KNOLLWOOD	56694	56364	5.5	19375	1.9	6.0	5.3
CANOGA PARK-WINNETKA-WOODLAND HILLS	150952	149595	8.5	58442	3.3	11.9	15.8
CHATSWORTH-PORTER RANCH	78885	78335	5.5	29916	2.1	16.2	22.1
NORTHRIDGE	60469	59722	9.1	21893	3.3	12.2	13.9
RESEDA	81877	80488	10.6	34068	4.5	6.3	9.9
ENCINO-TARZANA	70041	69533	5.4	29664	2.3	5.3	6.0
SUNLAND-TUJUNGA	53762	52709	3.6	20011	1.4	17.3	19.5
N FERNANDO VALLEY---------->>>	1142447	1130558	8.0	457189	3.2	12.3	14.8
WESTWOOD	40022	33738	13.4	20918	8.3	15.9	25.9
WEST LOS ANGELES	67937	67039	14.8	36680	8.1	8.3	11.6
PALMS-MAR VISTA-DEL REY	101329	100822	19.8	47615	9.3	6.7	8.9
VENICE	39275	39194	19.3	19639	9.7	7.4	6.9
WESTCHESTER-PLAYA DEL REY	48560	47547	5.7	21712	2.6	11.0	12.9
BRENTWOOD-PACIFIC PALISADES	56365	55809	2.3	25857	1.1	4.8	7.0
BEL AIR-BEVERLY CREST	21501	21494	2.2	8877	0.9	7.5	7.7
STSIDE---------->>>	374989	365643	6.5	181298	3.2	8.3	11.1
WILMINGTON-HARBOR CITY	68589	68390	8.1	22738	2.7	13.5	14.4
SAN PEDRO	75834	74029	11.4	31858	4.9	21.7	27.2
HARBOR GATEWAY	35580	35566	11.0	11815	3.6	17.7	17.1
UTHBAY-HARBOR---------->>>	180003	177985	9.8	66411	3.6	17.6	20.7
CITYWIDE GRAND TOTAL	3310057	3242509	10.9	1310013	4.4	11.6	10.2

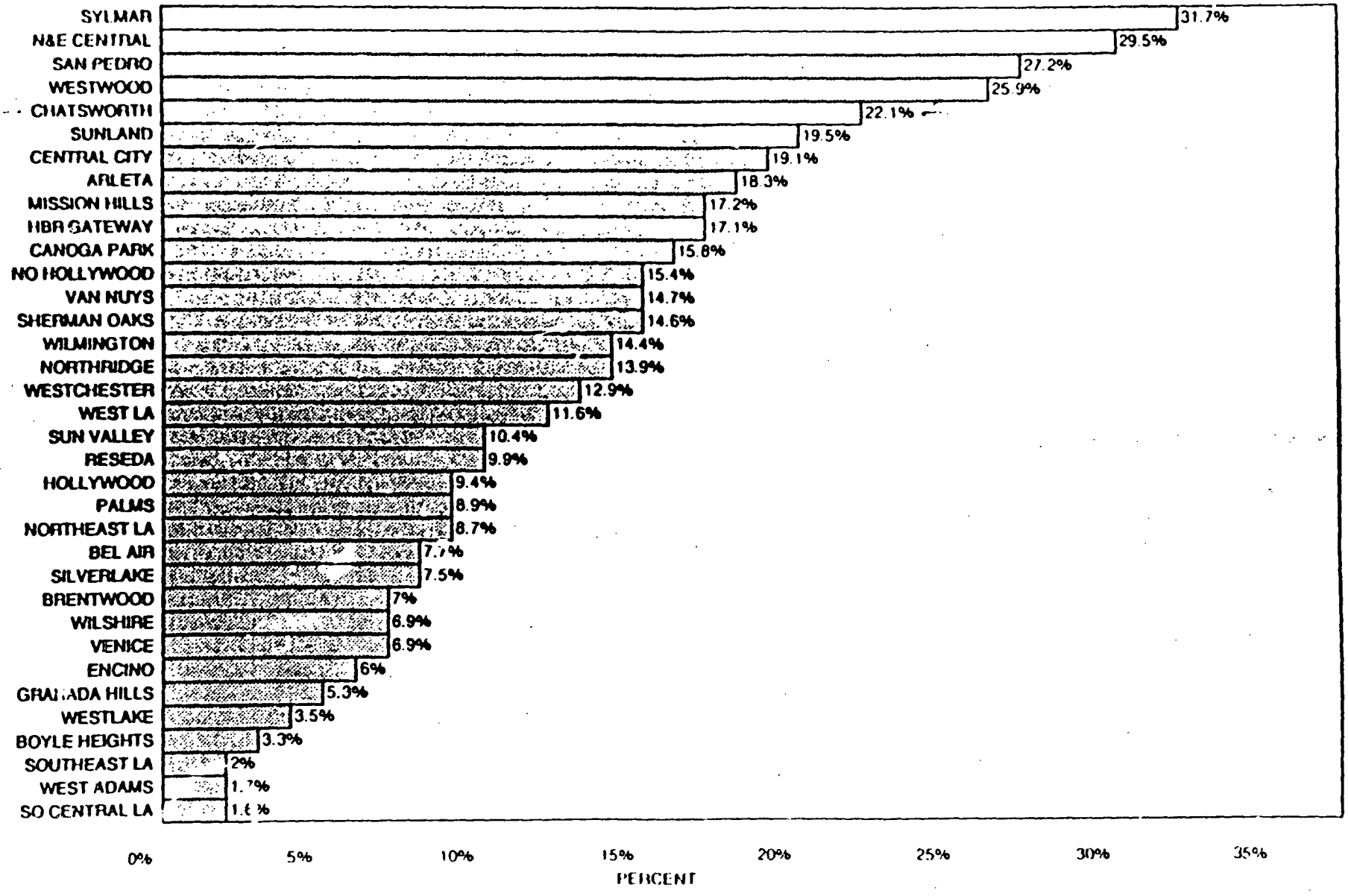
POPULATION GROWTH

APRIL 1, 1980 TO OCTOBER 1, 1989



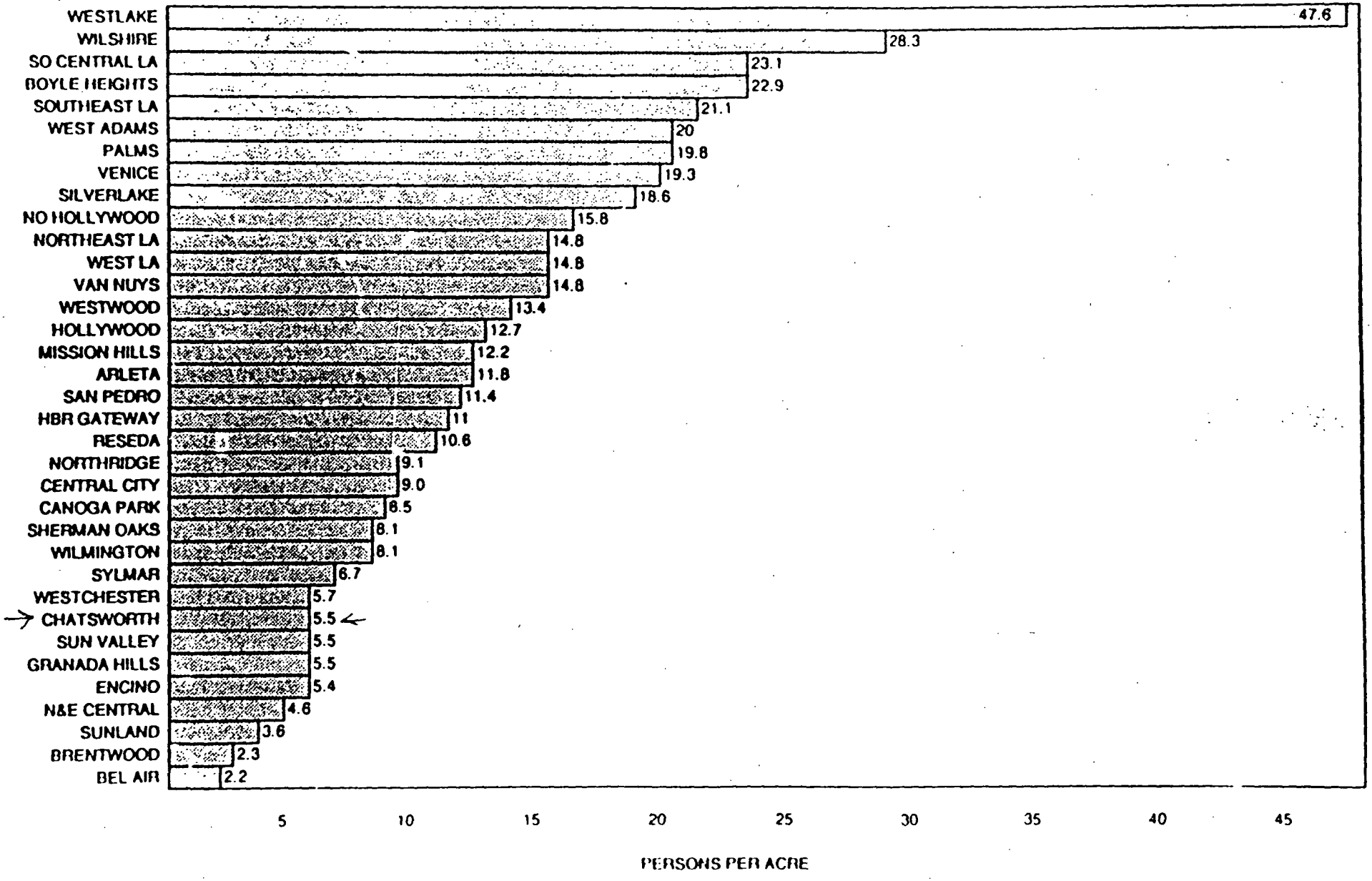
HOUSING GROWTH

APRIL 1, 1980 TO OCTOBER 1, 1989



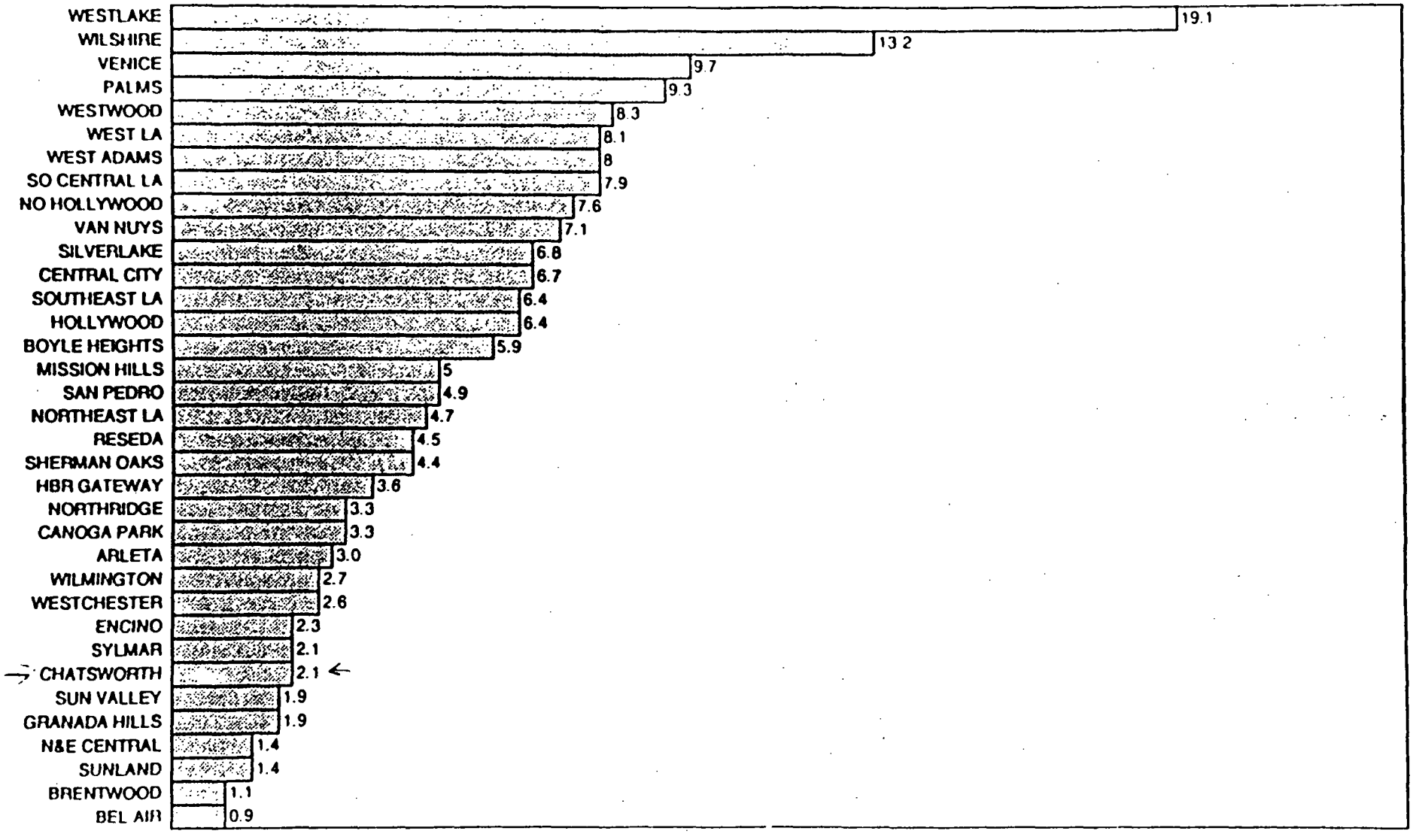
RELATIVE POPULATION DENSITY

AS OF OCTOBER 1, 1989



RELATIVE HOUSING DENSITY

AS OF OCTOBER 1, 1989



CITY OF LOS ANGELES

POPULATION ESTIMATE AND HOUSING INVENTORY

AS OF OCTOBER 1, 1989

PART II

35 COMMUNITY PLANNING AREAS WITHIN FOUR MAJOR GEOGRAPHIC REGIONS

BY HOUSING TYPE

Census Date: April 1, 1980

Estimate Date: October 1, 1989

CITY OF LOS ANGELES
SUMMARY OF POPULATION AND HOUSING UNITS BY PLANNING DISTRICT
CENSUS DATE (4/1/80) AND ESTIMATE DATE (10/1/89)

	<<-- SINGLE FAMILY DWELLING UNITS -- <<-- BASE YEAR(1980) -->>				<<-- ESTIMATE DATE -->>				POP%SHI
	POP	% OF POP	OCCUPIED	VACANCY RATE	POP	% OF POP	OCCUPIED	VACANCY RATE	BASE->1
NORTHEAST LOS ANGELES	121037	61.1	38886	3.91	132148	57.4	39533	3.10	-3.7
BOYLE HEIGHTS	33815	41.6	8777	2.79	36692	41.1	8842	2.02	-0.5
SOUTHEAST LOS ANGELES	97258	52.4	29704	5.64	107190	52.3	30499	4.07	-0.1
WEST ADAMS-BALDWIN HILLS-LEIMERT PARK	71803	47.4	25400	2.64	75859	46.2	25585	1.91	-1.1
SOUTH CENTRAL	107312	48.6	34167	4.25	113842	47.8	34487	3.22	-0.8
WILSHIRE	53199	23.6	18352	3.76	53565	21.1	17936	3.33	-2.5
HOLLYWOOD	48474	26.8	20094	4.01	50920	24.8	19956	3.40	-2.0
SILVERLAKE-ECHO PARK	32412	42.6	11410	4.83	35127	40.6	11561	4.04	-2.1
WESTLAKE	8640	9.7	2541	4.29	7973	8.3	2256	3.63	-1.4
CENTRAL CITY	1272	4.6	327	1.81	1069	3.8	312	0.55	-0.8
N&E CENTRAL CITY	715	5.3	193	1.57	748	4.9	191	1.40	-0.5
METROPOLITAN LOS ANGELES------>>>	575937	39.7	189851	4.08	615133	38.1	191158	3.18	-1.6
SHERMAN OAKS-STUDIO CITY	35923	55.8	15104	3.20	35930	50.1	15134	3.06	-5.6
NORTH HOLLYWOOD	42409	44.3	16163	3.25	40907	38.2	15656	2.82	-6.1
ARLETA-PACOIMA	55344	81.0	14095	2.44	58433	72.0	14969	2.18	-9.0
VAN NUYS-NORTH SHERMAN OAKS	49408	45.6	18668	3.08	48497	40.3	18343	2.79	-5.3
MISSION HILLS-PANORAMA CITY-SEPULVEDA	48815	61.9	15890	1.82	49326	55.6	16000	2.00	-6.4
SUN VALLEY	44389	73.6	14178	2.06	44858	68.2	14458	1.75	-5.4
SYLMAR	35231	84.0	10584	2.82	38752	70.7	11788	2.53	-13.3
GRANADA HILLS-KNOLLWOOD	46011	86.0	14414	2.25	48370	85.3	14947	2.44	-0.7
CANOGA PARK-WINNETKA-WOODLAND HILLS	105011	77.9	33342	2.43	111273	73.7	35251	2.48	-4.2
CHATSWORTH-PORTER RANCH	51524	75.9	15852	3.19	57329	72.7	18157	4.37	-3.2
NORTHRIDGE	39100	72.6	12057	1.78	40817	67.5	12604	1.90	-5.1
RESEDA	55408	71.9	19433	1.94	56929	69.5	20200	1.85	-2.4
ENCINO-TARZANA	43953	66.1	14773	2.87	44266	63.2	14924	3.37	-2.9
SUNLAND-TUJUNGA	39166	85.5	13517	3.10	42563	79.2	14705	2.60	-6.3
SAN FERNANDO VALLEY---------->>>	691692	68.0	228070	2.58	718249	62.9	237136	2.60	-5.1
WESTWOOD	9725	28.2	3524	3.00	9428	23.6	3484	2.74	-4.6
WEST LOS ANGELES	26706	42.6	10372	2.53	25690	37.8	10034	1.75	-4.7
PALMS-MAR VISTA-DEL REY	41358	43.6	14591	2.14	39760	39.2	14255	1.89	-4.3
VENICE	15036	41.1	5949	6.03	15352	39.1	6198	5.14	-2.0
WESTCHESTER-PLAYA DEL REY	26566	60.7	9753	1.23	27133	55.9	9975	0.92	-4.9
BRENTWOOD-PACIFIC PALISADES	35691	66.3	12764	2.61	36380	64.5	13298	2.87	-1.8
BEL AIR-BEVERLY CREST	18569	92.8	7071	5.19	19714	91.7	7451	5.39	-1.1
WESTSIDE---------->>>	173651	50.1	64024	2.92	173457	46.3	64696	2.71	-3.9
WILMINGTON-HARBOR CITY	36069	59.7	10916	2.61	37723	55.0	11717	2.10	-4.7
SAN PEDRO	32330	51.9	11637	3.28	33149	43.7	11714	2.84	-8.2
HARBOR GATEWAY	17330	57.3	5456	1.84	17793	50.0	5556	1.68	-7.3
SOUTHBAY-HARBOR---------->>>	85729	56.0	28009	2.74	88665	49.3	28987	2.32	-6.8
CITYWIDE GRAND TOTAL	1527009	51.5	509954	3.20	1595504	48.2	521977	2.81	-3.3

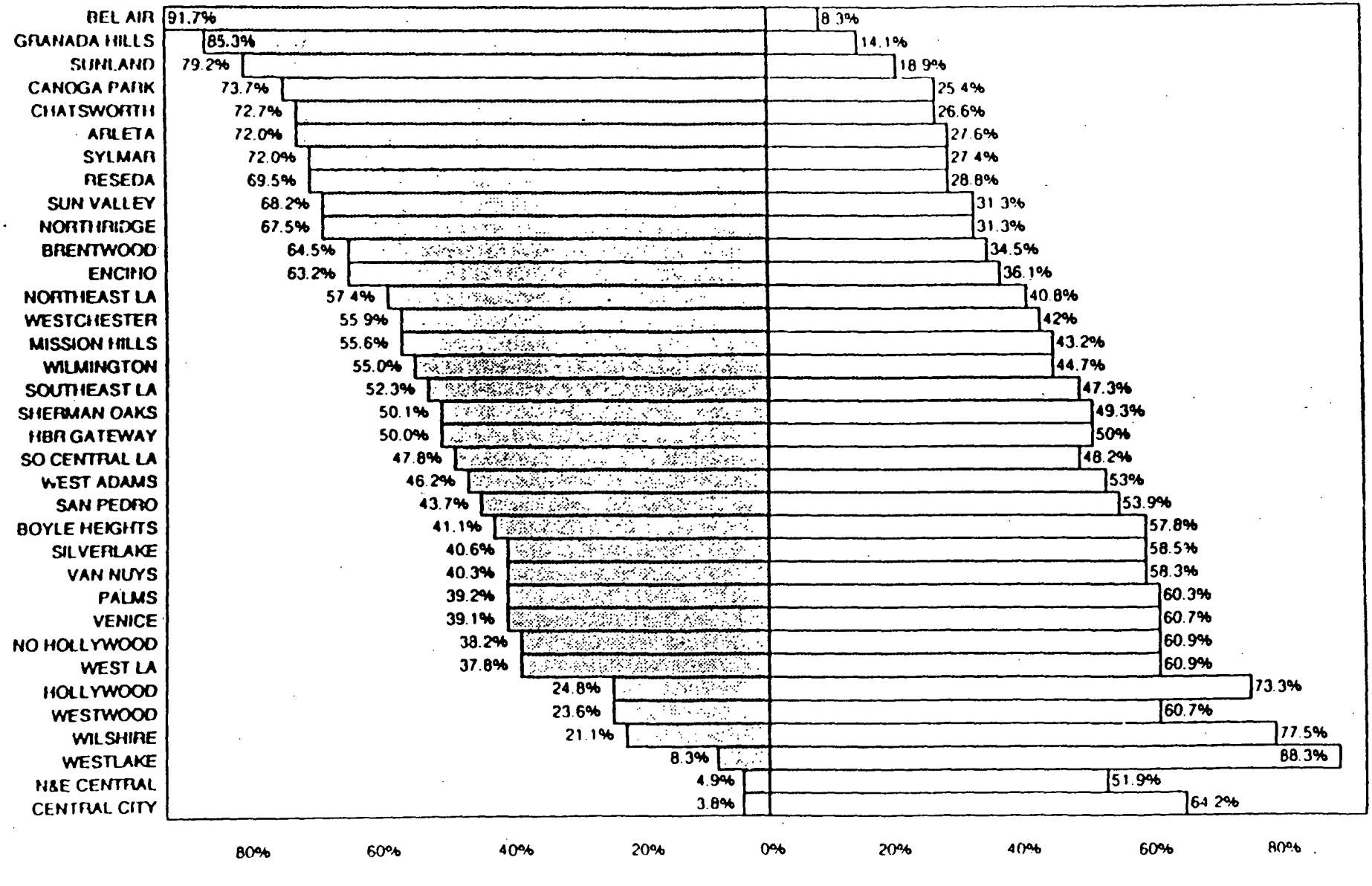
C I T Y O F L O S A N G E L E S

SUMMARY OF POPULATION AND HOUSING UNITS BY PLANNING DISTRICT
CENSUS DATE (4/1/80) AND ESTIMATE DATE (10/1/89)

	<< M U L T I P L E F A M I L Y D W E L L I N G U N I T S								
	<<-- B A S E Y E A R (1980) -->>				<<-- E S T I M A T E D A T E -->>				POP%SH
	POP	% OF POP	OCCUPIED	VACANCY RATE	POP	% OF POP	OCCUP.	VACANCY RATE	BASE->1
NORTHEAST LOS ANGELES	72960	36.8	25212	3.61	93962	40.8	30070	4.90	4.0
BOYLE HEIGHTS	46419	57.1	12821	2.17	51585	57.8	13427	2.96	0.6
SOUTHEAST LOS ANGELES	87333	47.1	27913	5.70	96903	47.3	28343	7.13	0.2
WEST ADAMS-BALDWIN HILLS-LEIMERT PARK	78414	51.7	36097	4.75	86876	53.0	36672	6.00	1.2
SOUTH CENTRAL	104221	47.2	39670	4.94	114836	48.2	40003	7.03	1.1
WILSHIRE	168558	74.8	86660	4.45	196889	77.5	92079	6.83	2.7
HOLLYWOOD	128557	71.0	67630	5.38	150672	73.3	73747	8.31	2.3
SILVERLAKE-ECHO PARK	42820	56.3	16253	4.71	50652	58.5	17955	6.34	2.2
WESTLAKE	77282	86.6	31542	5.44	84907	88.3	32266	7.63	1.7
CENTRAL CITY	17258	62.8	9982	13.60	17929	64.2	12097	12.63	1.4
N&E CENTRAL CITY	6082	45.2	1802	2.46	7979	51.9	2273	7.36	6.7
METROPOLITAN LOS ANGELES------>>>	829904	57.2	355582	5.05	953190	59.1	378931	7.05	1.9
SHERMAN OAKS-STUDIO CITY	28075	43.6	17346	5.45	35326	49.3	21642	7.11	5.7
NORTH HOLLYWOOD	52333	54.6	26163	4.73	65246	60.9	32574	6.51	6.2
ARLETA-PACOIMA	12710	18.6	3096	3.76	22429	27.6	5315	4.91	9.0
VAN NUYS-NORTH SHERMAN OAKS	57204	52.8	29429	4.62	70179	58.3	35864	7.15	5.5
MISSION HILLS-PANORAMA CITY-SEPULVEDA	28845	36.6	13452	5.46	38327	43.2	17712	8.30	6.6
SUN VALLEY	15597	25.8	5584	7.37	20591	31.3	7197	9.22	5.4
SYLMAR	5667	13.5	2028	9.02	15004	27.4	5185	0.09	13.9
GRANADA HILLS-KNOLLWOOD	7145	13.4	3485	4.44	7992	14.1	3882	4.22	0.7
CANOGA PARK-WINNETKA-WOODLAND HILLS	28454	21.1	14864	8.88	38321	25.4	19718	11.56	4.3
CHATSWORTH-PORTER RANCH	15818	23.3	7582	6.67	21007	26.6	10198	6.70	3.3
NORTHRIDGE	14026	26.0	6471	6.83	18905	31.3	8317	8.05	5.2
RESEDA	20236	26.3	10536	5.85	23557	28.8	12336	8.53	2.5
ENCINO-TARZANA	22042	33.1	11683	8.52	25268	36.1	13297	6.48	2.9
SUNLAND-TUJUNGA	5605	12.2	2611	6.79	10148	18.9	4510	8.21	6.6
SAN FERNANDO VALLEY---------->>>	313756	30.8	154331	5.99	412300	36.1	197747	7.48	5.2
WESTWOOD	18525	53.6	11603	10.58	24309	60.7	15294	11.78	7.1
WEST LOS ANGELES	35143	56.0	20722	6.76	41345	60.9	24312	8.14	4.9
PALMS-MAR VISTA-DEL REY	53100	55.9	27552	4.40	61065	60.3	31083	6.04	4.3
VENICE	21436	58.6	11205	7.00	23845	60.7	12254	6.50	2.1
WESTCHESTER-PLAYA DEL REY	16161	36.9	8613	7.89	20415	42.0	10759	7.60	5.1
BRENTWOOD-PACIFIC PALISADES	17548	32.6	10336	6.60	19424	34.5	11215	7.80	1.8
BEL AIR-BEVERLY CREST	1426	7.1	733	6.26	1781	8.3	935	6.62	1.2
WESTSIDE---------->>>	163339	47.2	90764	6.69	192184	51.3	105852	7.79	4.1
WILMINGTON-HARBOR CITY	24158	40.0	8314	4.07	30665	44.7	10163	5.64	4.7
SAN PEDRO	28200	45.2	12217	6.17	40881	53.9	18228	7.94	8.7
HARBOR GATEWAY	12894	42.6	4329	4.54	17773	50.0	5691	7.66	7.3
SOUTHBAY-HARBOR---------->>>	65252	42.6	24860	5.20	89319	49.6	34082	7.22	7.0
CITYWIDE GRAND TOTAL	1372251	46.3	625537	5.53	1646993	49.8	716612	7.29	3.5

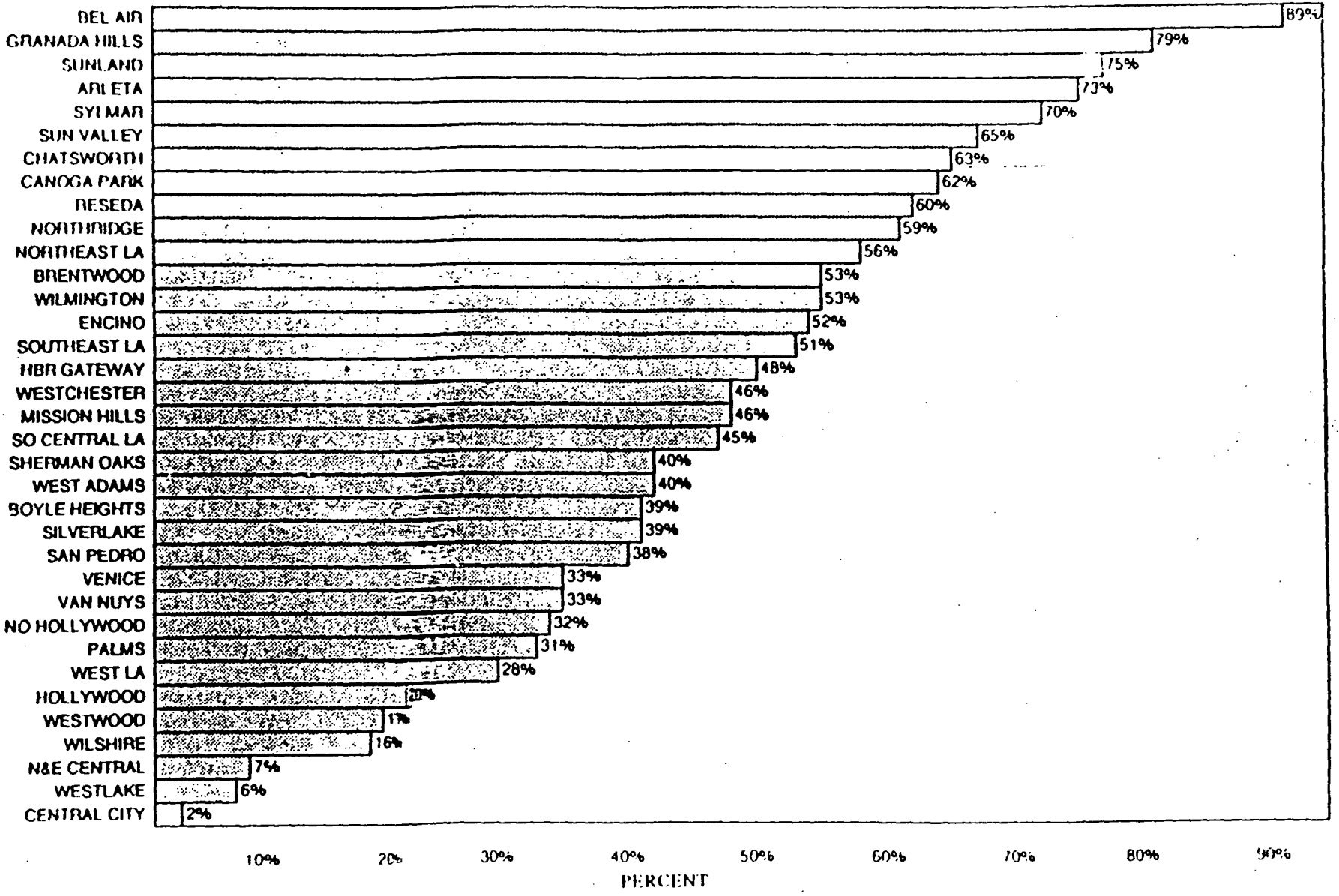
HOUSING SPLITS by POPULATION as of October 1, 1989

(Does not include group quarters)



SINGLE FAMILY: TOTAL DWELLING UNITS

AS OF OCTOBER 1, 1989



CITY OF LOS ANGELES

POPULATION ESTIMATE AND HOUSING INVENTORY

AS OF OCTOBER 1, 1989

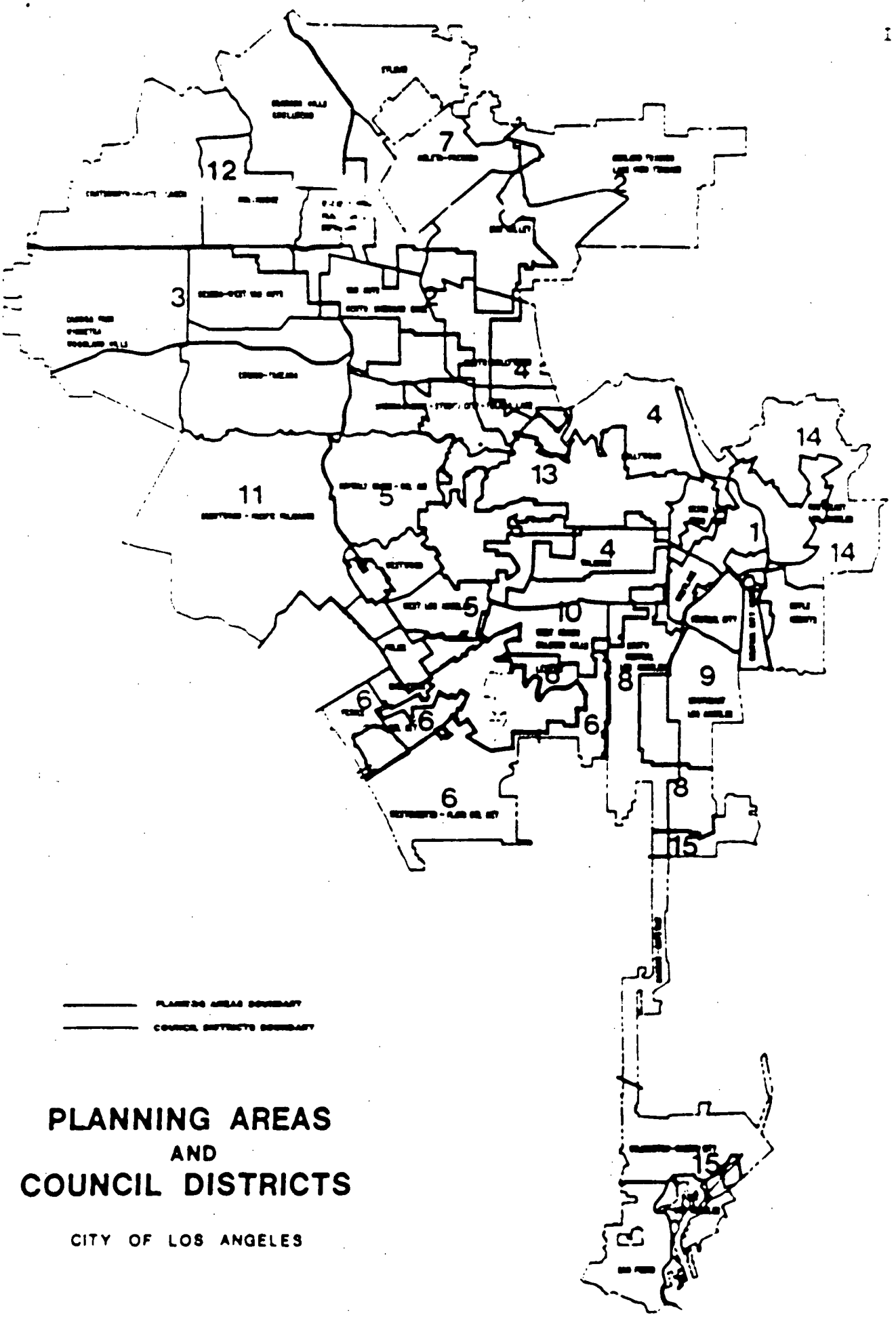
PART III

15 COUNCIL DISTRICTS

Census Date: April 1, 1980

Estimate Date: October 1, 1989

CTY598



PLANNING AREAS
AND
COUNCIL DISTRICTS

CITY OF LOS ANGELES

PREPARED BY THE GRAPHICS SECTION - LOS ANGELES CITY PLANNING DEPARTMENT - NOVEMBER 1987

CITY OF LOS ANGELES
SUMMARY OF POPULATION AND HOUSING UNITS BY COUNCIL DISTRICT
CENSUS DATE (4/1/80) AND ESTIMATE DATE (10/1/89)

	TOTAL POP 4/1/80	TOTAL POP 10/1/89	TOTAL UNITS 4/1/80	TOTAL UNITS 10/1/89	TOTAL SINGLES 10/1/89	TOTAL MULTS 10/1/89	OCCUPIED UNITS 4/1/80	OCCUPIED UNITS 10/1/89
CD1 - COUNCILWOMAN MOLINA	201036	223204	67294	71031	16934	54095	64421	67081
CD2 - COUNCILMAN WACHS	199448	221250	85038	97082	43383	53699	81680	91946
CD3 - COUNCILWOMAN PICUS	198019	217448	78771	89039	48660	40380	75314	84068
CD4 - COUNCILMAN FERRARO	197488	225096	98651	108880	24831	84050	94348	102419
CD5 - COUNCILMAN YAROSLAVSKY	203337	222720	99113	110073	36594	73482	94025	102863
CD6 - COUNCILWOMAN GALANTER	196250	212550	86496	92394	36603	55791	82450	87817
CD7 - COUNCILMAN BERNARDI	197288	235670	61401	74055	46735	27320	59296	71417
CD8 - COUNCILMAN FARRELL	195077	211856	60037	69452	34007	35445	64835	65850
CD9 - COUNCILMAN LINDSAY	192852	208688	69768	73081	26689	46395	64869	67749
CD10 - COUNCILMAN HOLDEN	194350	212838	86880	91257	22255	68998	82960	85939
CD11 - COUNCILMAN BRAUDE	195102	211137	86335	96071	44259	51808	82584	91218
CD12 - COUNCILMAN BERNSON	199141	220704	69993	79471	54268	25203	67599	76191
CD13 - COUNCILMAN WOO	201039	228414	100505	110619	28832	81785	95365	102847
CD14 - COUNCILMAN ALATORRE	198614	228164	62181	67139	35952	31187	60129	64864
CD15 - COUNCILWOMAN FLORES	197809	230318	68460	80368	37072	43297	65621	76321
CITYWIDE TOTALS:	2966850	3310057	1188922	1310013	537072	772934	1135[illegible]	1238589

C I T Y O F L O S A N G E L E S

SUMMARY OF POPULATION AND HOUSING UNITS BY COUNCIL DISTRICT
CENSUS DATE (4/1/80) AND ESTIMATE DATE (10/1/89)

	POPULATION				HOUSING			
	4/1/80	10/1/89	INCREASE	ANNUAL GROWTH	4/1/80	10/1/89	INCREASE	ANNUAL GROWTH
CD1 - COUNCILWOMAN MOLINA	201036	223204	22169	1.11	67294	71031	3737	0.57
CD2 - COUNCILMAN WACHS	199448	221250	21802	1.10	85038	97082	1204[illegible]	1.40
CD3 - COUNCILWOMAN PICUS	198019	217448	19428	0.99	78771	89039	10268	1.30
CD4 - COUNCILMAN FERRARO	197488	225096	27608	1.39	98651	108880	10230	1.04
CD5 - COUNCILMAN YAROSLAVSKY	203337	222720	19383	0.96	99113	110073	10960	1.11
CD6 - COUNCILWOMAN GALANTER	196250	212550	16301	0.84	86496	92394	5897	0.70
CD7 - COUNCILMAN BERNARDI	197288	235670	38382	1.89	61401	74055	12654	1.99
CD8 - COUNCILMAN FARRELL	195077	211856	16779	0.87	68037	69452	1415	0.22
CD9 - COUNCILMAN LINDSAY	192852	208688	15836	0.83	69768	73081	3313	0.49
CD10 - COUNCILMAN HOLDEN	194350	212838	18488	0.96	86880	91257	4377	0.52
CD11 - COUNCILMAN BRAUDE	195102	211137	16035	0.83	86335	96071	9736	1.13
CD12 - COUNCILMAN BERNSON	199141	220704	21563	1.09	69993	79471	9478	1.35
CD13 - COUNCILMAN WOO	201039	228414	27376	1.35	100505	110619	10114	1.01
CD14 - COUNCILMAN ALATORRE	198614	228164	29550	1.47	62181	67139	4958	0.81
CD15 - COUNCILWOMAN FLORES	197809	230318	32508	1.61	68460	80368	11909	1.70
CITYWIDE TOTALS:	2966850	3310057	343207	1.16	1188922	1310013	121091	1.03

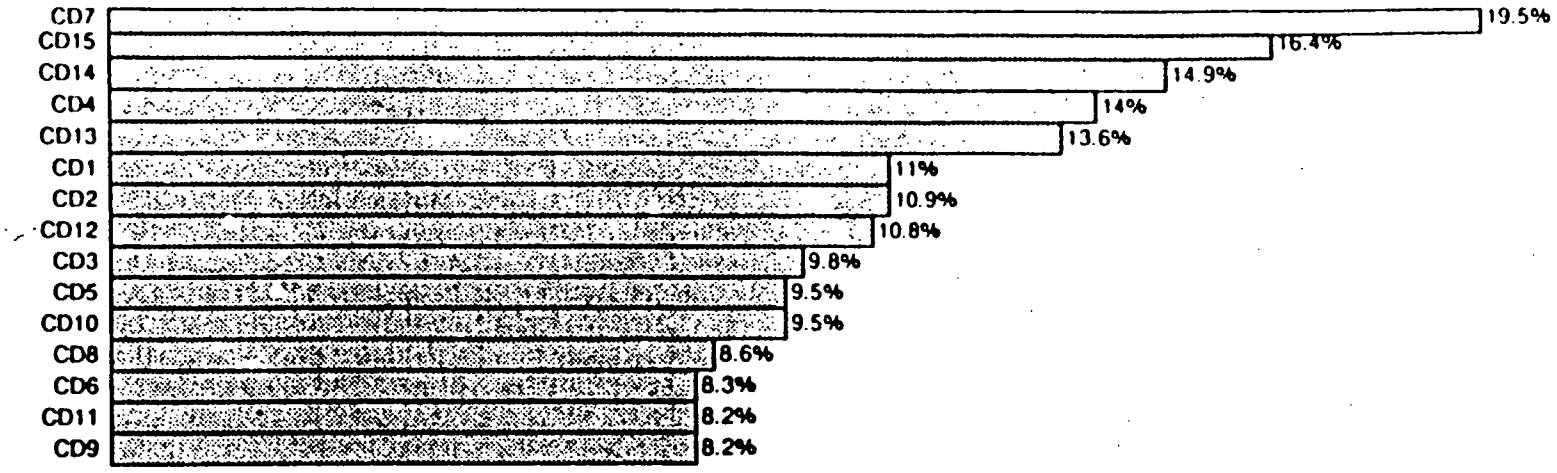
C I T Y O F L O S A N G E L E S
SUMMARY OF POPULATION AND HOUSING UNITS BY COUNCIL DISTRICT
CENSUS DATE (4/1/80) AND ESTIMATE DATE (10/1/89)

	<<<- P O P U L A T I O N ->>> 10/1/89	IN HSG UNITS	DENSITY PER ACRE	<- H O U S I N G -> 10/1/89	DENSITY PER ACRE	<<-- PERCENTAGE -->> <GROWTH 80/EST DATE> POP	HOUSING
CD1 - COUNCILWOMAN MOLINA	223204	213061	24.2	71031	8.1	11.0	5.6
CD2 - COUNCILMAN WACHS	221250	218543	7.0	97082	3.1	10.9	14.2
CD3 - COUNCILWOMAN PICUS	217448	215193	10.3	89039	4.3	9.8	13.0
CD4 - COUNCILMAN FERRARO	225096	223381	13.2	108880	6.5	14.0	10.4
CD5 - COUNCILMAN YAROSLAVSKY	222720	212888	9.7	110073	5.0	9.5	11.1
CD6 - COUNCILWOMAN GALANTER	212550	210782	12.5	92394	5.5	8.3	6.8
CD7 - COUNCILMAN BERNARDI	235670	233501	9.4	74055	3.0	19.5	20.6
CD8 - COUNCILMAN FARRELL	211856	204140	22.5	69452	7.6	8.6	2.1
CD9 - COUNCILMAN LINDSAY	208688	198110	17.9	73081	6.6	8.2	4.7
CD10 - COUNCILMAN HOLDEN	212838	209249	24.7	91257	10.8	9.5	5.0
CD11 - COUNCILMAN BRAUDE	211137	209095	4.7	96071	2.2	8.2	11.3
CD12 - COUNCILMAN BERNSON	220704	218318	6.5	79471	2.4	10.8	13.5
CD13 - COUNCILMAN WOO	228414	225048	14.8	110619	7.3	13.6	10.1
CD14 - COUNCILMAN ALATORRE	228164	223211	16.2	67139	4.9	14.9	8.0
CD15 - COUNCILWOMAN FLORES	230318	227991	11.0	80368	3.9	16.4	17.4
CITYWIDE TOTALS:	3310057	3242509	10.9	1310013	4.4	11.6	10.2

POPULATION GROWTH

APRIL 1, 1980 TO OCTOBER 1, 1989

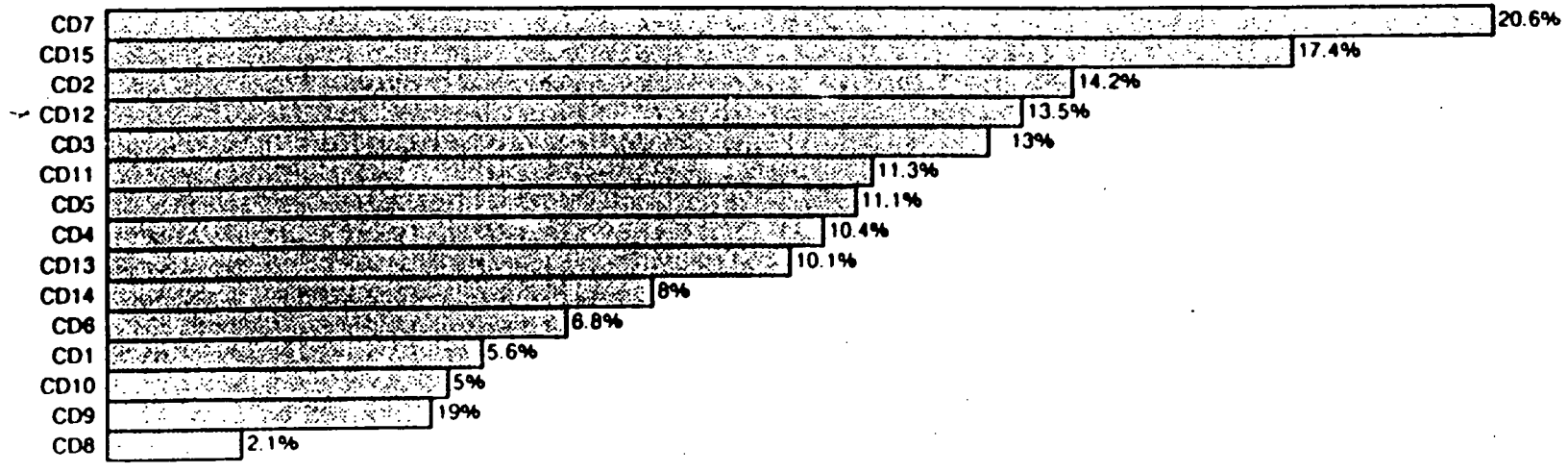
COUNCIL DISTRICT



HOUSING GROWTH

APRIL 1, 1980 TO OCTOBER 1, 1989

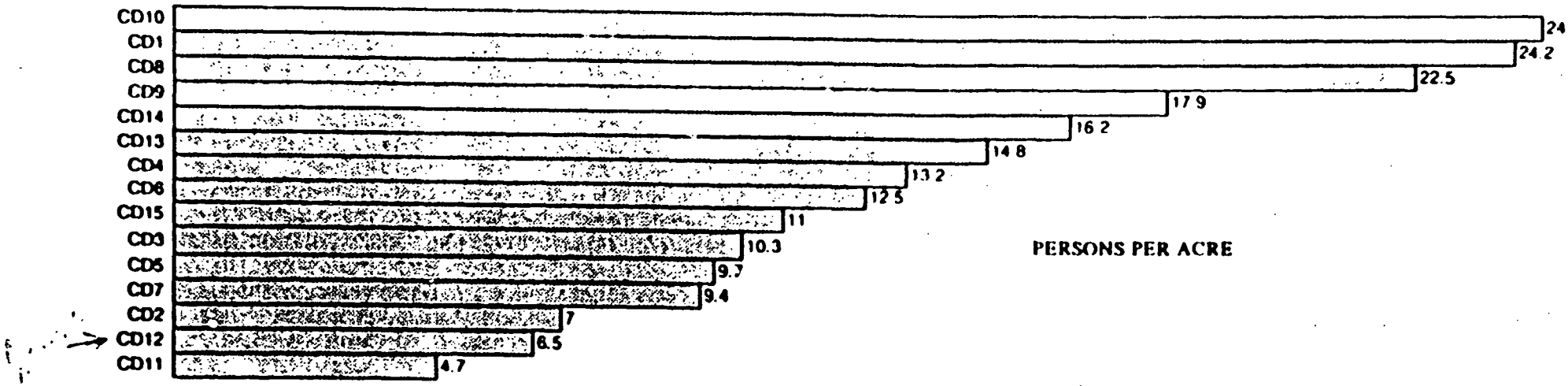
COUNCIL DISTRICT



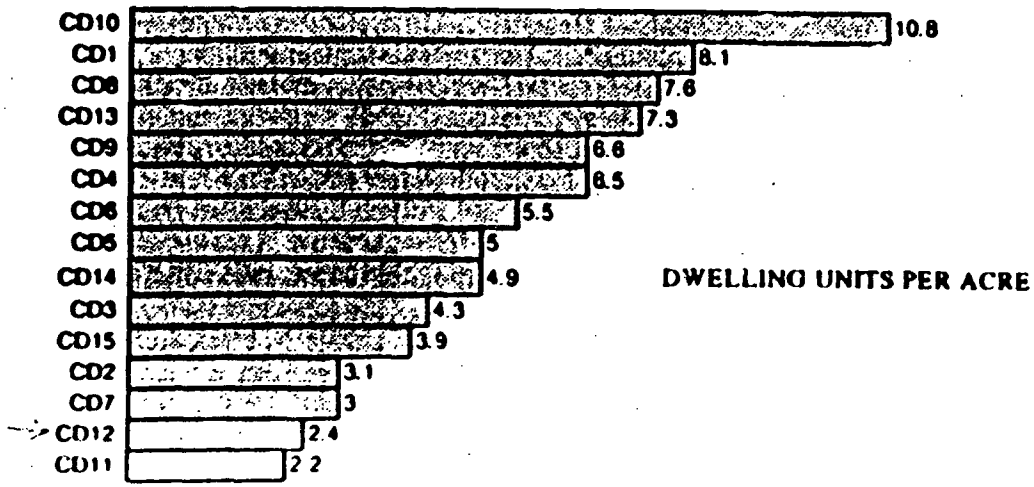
RELATIVE POPULATION DENSITY

COUNCIL DISTRICT

AS OF OCTOBER 1, 1989



RELATIVE HOUSING DENSITY

COUNCIL DISTRICT

AS OF OCTOBER 1, 1989