

APPENDIX B

**Sample copy of Los Angeles County Regional
Planning Commission Quarterly Bulletin,
Population and Housing Units**

Quarterly Bulletin, No. 131, January 1, 1976



quarterly bulletin

DEPARTMENT OF REGIONAL PLANNING · COUNTY OF LOS ANGELES, CALIFORNIA

POPULATION IN SLIGHT INCREASE GENERAL TREND UNCHANGED

The number of Los Angeles County residents remained relatively unchanged during the second half of 1975. The Department estimates that on January 1, 1976 the County had a total population of 6,994,700. This represents a July through December gain of approximately 2,400 as compared with a loss of 28,500 in the first half. However, no particular significance should be given to these 1975 countywide gains and losses. Rather, the Department continues to believe that they represent minor fluctuations along what is essen-

(Continued on page 6)

SINGLE UNITS CLIMB SHARPLY—MULTIPLE UNITS HOLD FIRM IN SECOND HALF

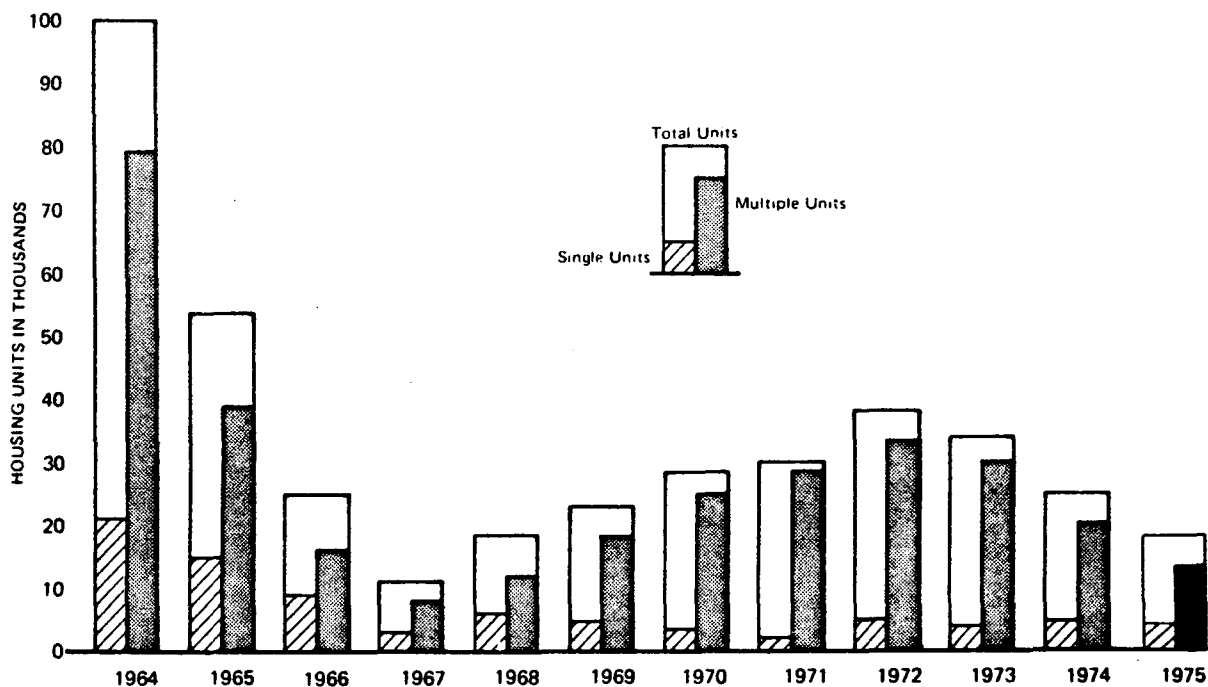
Net additions to single units climbed sharply and multiple units held firm in the second half of 1975. The 9,706 total units added in these six months fell slightly short of the 9,727 units recorded in the same period of 1974.

Single unit additions in the last six months totaled 2,924 or 1,733 units more than in the first half. This was the greatest number of single units added in any second half since 1968.

Multiple units added in last year's second half to-

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LOS ANGELES COUNTY
ANNUAL NET HOUSING UNIT CHANGE
1964-1975



*Includes Duplex Units

For Additional Information: Call or write the Population Research Section, Los Angeles County Department of Regional Planning, 320 West Temple St., Los Angeles 90012, 974-6425.

THE REGIONAL PLANNING COMMISSION OF LOS ANGELES COUNTY. Commissioners: Howard D. Martin, Chairman, Owen H. Lewis, Vice Chairman, Arthur J. Baum, Sadie B. Clark and Carolyn P. Llewellyn. Planning Director: Norman Murdoch.

Quarterly Bulletin, No. 131, January 1, 1976

POPULATION AND HOUSING UNITS LOS ANGELES COUNTY STATISTICAL AREAS

MSA and SA No.	Name or Jurisdiction	1970 CENSUS Revised		JANUARY 1, 1974 Estimated	
		Population	Housing Units	Population	Housing Units
	LOS ANGELES COUNTY	7,041,980	2,541,603	7,714,766	6,994,724
	TOTAL ALL CITIES	6,008,523	2,221,824	2,377,905	5,973,200
	TOTAL UNINCORPORATED	1,033,457	319,779	338,861	1,021,524
TOTAL FOR CITIES IN TWO OR MORE STATISTICAL AREAS					
	Carson	71,150	18,430	22,101	70,461
	Compton	78,547	21,929	21,673	72,538
	Industry	712	154	149	480
	Lakewood	83,025	24,263	25,418	79,492
	Los Angeles	2,811,801	1,074,173	1,131,406	2,746,135
	Rosemead	40,972	13,430	13,597	39,842
	Santa Fe Springs	14,750	3,764	4,323	15,826
	Temple City	33,034	10,998	11,240	29,110
	Torrance	134,968	45,528	49,322	133,953
	West Covina	68,034	19,154	22,931	73,277
	Whittier	72,863	25,817	27,173	70,961
1.0	ADAMS AREA	469,892	181,648	185,956	451,147
1.11	Part of Los Angeles	48,376	21,259	22,744	47,715
1.12	Part of Los Angeles	53,080	20,783	20,762	50,915
1.13	Part of Los Angeles	97,372	38,495	38,628	91,059
1.14	Part of Los Angeles	69,156	28,602	28,597	66,706
1.151	Part of Los Angeles	57,094	21,199	20,812	52,798
1.152	Part of Los Angeles	91,558	31,895	31,469	85,591
1.2	Culver City	34,451	13,075	16,465	37,666
1.311	Unincorporated	6,535	2,064	2,187	6,851
1.312	Unincorporated	12,268	4,276	4,290	11,846
2.0	AVALON AREA	1,906	1,174	1,267	1,968
2.1	Avalon	1,520	1,080	1,173	1,591
2.2	Unincorporated	386	94	94	377
3.0	BEVERLY HILLS AREA	92,800	40,517	43,979	92,800
3.1	Beverly Hills	33,416	15,092	15,412	31,825
3.21	Part of Los Angeles	9,869	3,766	4,013	9,849
3.22	Part of Los Angeles	49,466	21,641	24,536	51,077
3.3	Unincorporated	49	18	18	49
4.0	BURBANK AREA	264,922	106,276	110,966	256,271
4.1	Burbank	88,871	35,963	36,689	83,275
4.21	Part of Los Angeles	46,825	14,402	15,124	45,876
4.22	Part of Los Angeles	83,944	35,877	37,555	82,230
4.23	Part of Los Angeles	45,275	20,031	21,595	44,883
4.3	Unincorporated	7	3	3	7
5.0	CALABASAS AREA	18,935	5,838	10,488	30,546
5.111	Unincorporated	6,417	2,013	3,520	10,563
5.112	Unincorporated	4,710	1,345	3,422	10,007
5.12	Unincorporated	6,279	2,106	3,141	8,396
5.2	Hidden Hills	1,529	374	405	1,580
6.0	CHATSWORTH-WEST VALLEY AREA	175,788	51,762	60,310	190,004
6.11	Part of Los Angeles	43,668	12,937	16,679	51,012
6.12	Part of Los Angeles	84,982	25,125	28,099	89,135
6.13	Part of Los Angeles	45,712	13,170	14,206	48,491
6.2	Unincorporated	915	283	285	871
6.3	Unincorporated	511	247	241	495
7.0	CITRUS AREA	264,029	76,824	82,784	264,639
7.1	Azusa	25,217	8,175	9,263	25,194
7.2	Covina	30,395	9,803	11,242	33,104
7.3	Part of West Covina	63,830	18,114	19,889	63,075
7.4	Glendora	31,380	9,403	10,712	34,097
7.511	Unincorporated	13,920	3,517	3,799	14,045
7.512	Unincorporated	13,125	3,563	3,449	12,299
7.521	Unincorporated	23,709	6,265	6,280	22,289
7.522	Unincorporated	14,384	4,095	3,934	12,808
7.6	Baldwin Park	47,285	13,681	14,012	47,002
7.7	Irwindale	784	208	204	726
8.0	COMPTON AREA	177,215	53,139	52,514	160,111
8.1	Part of Compton	78,393	21,893	21,637	72,390
8.2	Lynwood	43,354	15,794	15,099	36,500
8.31	Unincorporated	1,055	357	357	989
8.32	Unincorporated	9,850	3,259	3,211	9,652
8.331	Unincorporated	34,835	9,346	9,545	31,264
8.332	Unincorporated	5,718	1,401	1,530	5,769
8.4	Part of Carson	4,010	1,098	1,135	3,547
9.0	CENTRAL AREA	90,416	48,466	48,179	82,016
9.11	Part of Los Angeles	75,555	40,591	40,464	69,385
9.12	Part of Los Angeles	14,861	7,875	7,715	12,631
10.0	DOMINGUEZ-LOS ANGELES HARBOR AREA	228,608	67,466	72,969	229,494
10.111	Part of Los Angeles	39,915	12,698	12,911	38,986
10.112	Part of Los Angeles	24,714	7,942	8,860	24,794
10.12	Part of Los Angeles	70,249	21,768	23,412	69,602
10.211	Unincorporated	15,918	4,475	5,806	17,698
10.212	Unincorporated	2,827	674	356	1,525
10.213	Unincorporated	5,980	1,948	—	—
10.221	Unincorporated	1,711	584	622	1,627
10.31	Part of Carson	39,948	10,530	11,070	37,917
10.32	Part of Carson	27,192	6,811	7,932	31,692
10.4	Part of Compton	154	36	36	148
10.5	Part of Carson	(5,980)	(1,948)	1,964	5,505
11.0	EAST AREA	203,387	58,946	58,712	192,280
11.11	Part of Los Angeles	83,840	23,459	23,369	78,347
11.12	Part of Los Angeles	26,605	9,535	9,065	23,070
11.21	Unincorporated	43,492	10,840	11,146	41,707
11.22	Unincorporated	50,250	15,112	15,132	49,156
12.0	EL MONTE AREA	107,641	35,177	34,727	102,610
12.1	El Monte	69,892	23,701	23,689	67,048
12.21	Unincorporated	5,244	1,490	1,441	4,979
12.22	Unincorporated	4,911	1,370	403	1,443
12.3	South El Monte	13,443	3,725	4,313	15,574
12.4	Part of Rosemead	14,151	4,891	4,875	13,566
12.5	Part of Whittier	(0)	(0)	0	0
13.0	ENCINO-CENTRAL VALLEY AREA	364,147	130,638	148,409	377,254
13.11	Part of Los Angeles	55,442	19,159	21,485	56,877
13.12	Part of Los Angeles	34,446	10,664	12,321	37,979
13.13	Part of Los Angeles	78,918	25,260	27,814	78,045
13.14	Part of Los Angeles	136,352	55,892	61,894	138,409
13.15	Part of Los Angeles	58,989	19,663	24,895	65,944
14.0	GLENDALE AREA	241,928	99,047	102,562	235,433
14.1	Glendale	132,664	56,455	59,418	131,234
14.21	Part of Los Angeles	53,725	19,849	19,790	51,120
14.22	Part of Los Angeles	35,919	15,942	16,428	33,895
14.3	Unincorporated	19,620	6,801	6,926	19,184
15.0	HOLLYWOOD AREA	199,715	111,930	118,502	190,137
15.1	Part of Los Angeles	165,093	90,644	94,913	155,038
15.2	Unincorporated	34,622	21,286	23,589	35,099
16.0	INGLEWOOD AREA	348,414	127,435	132,363	326,108
16.1	Gardena	41,021	14,678	17,511	43,124
16.2	Inglewood	89,985	38,346	38,769	81,641
16.3	Mawthorne	53,304	19,692	23,243	55,358
16.4	Part of Torrance	34,601	10,848	11,521	33,507
16.5	Part of Los Angeles	18,378	5,783	5,803	17,801
16.611	Unincorporated	42,707	14,484	12,221	33,218
16.612	Unincorporated	5,195	1,737	1,475	3,980
16.621	Unincorporated	16,121	6,246	6,166	15,147
16.632	Unincorporated	11,997	3,905	3,478	9,552
16.633	Unincorporated	9,846	3,546	3,494	8,774
16.64	Unincorporated	434	232	214	387
16.7	Lawndale	24,825	7,938	8,468	23,619
17.0	LONG BEACH AREA	435,413	173,852	182,329	410,492
17.1	Signal Hill	5,588	2,403	2,410	4,996
17.2	Long Beach	358,879	150,133	159,123	342,054
17.31	Unincorporated	2,477	716	0	0
17.32	Unincorporated	2,153	613	609	2,107
17.33	Unincorporated	143	46	31	89
17.4	Part of Lakewood	66,173	19,941	20,156	61,266
18.0	MONROVIA AREA	141,061	49,571	51,527	136,929
18.1	Arcadia	45,138	16,442	17,457	45,487
18.2	Monrovia	30,562	11,615	11,727	29,071
18.3	Sierra Madre	12,140	4,444	4,563	12,137
18.41	Unincorporated	11,694	3,459	3,530	10,738
18.42	Unincorporated	1,834	628	647	1,849
18.5	Bradbury	838	242	258	861
18.6	Duarte	14,981	4,545	4,942	14,645
18.7	Part of Temple City	23,874	8,196	8,403	22,141

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		Population	Housing Units	Housing Units	Population			Population	Housing Units	Housing Units	Population
19.0	MALIBU AREA	11,709	4,535	6,213	15,409	28.0	SAN GABRIEL AREA	235,010	87,102	89,494	227,316
19.11	Unincorporated	5,637	2,049	3,227	8,355	28.1	Alhambra	62,125	25,963	26,552	58,561
19.12	Unincorporated	6,072	2,486	2,986	7,254	28.2	Monterey Park	49,166	16,337	16,918	49,563
20.0	NORTH COUNTY AREA	132,966	43,260	54,601	155,750	28.3	San Gabriel	29,336	10,774	11,106	28,084
20.111	Unincorporated	1,519	675	830	1,776	28.4	San Marino	14,177	4,630	4,640	17,459
20.112	Unincorporated	7,976	3,064	3,536	8,610	28.5	South Pasadena	22,979	9,897	10,333	23,046
20.113	Unincorporated	38,582	12,322	16,228	44,010	28.64	Unincorporated	17,203	6,592	6,762	15,484
20.114	Unincorporated	3,369	1,455	1,569	3,237	28.65	Unincorporated	6,043	1,568	1,624	5,874
20.121	Unincorporated	13,870	4,282	4,691	12,921	28.7	Part of Rosemead	26,821	8,539	8,722	26,276
20.122	Unincorporated	4,443	2,036	2,179	4,326	28.8	Part of Temple City	7,160	2,802	2,837	6,969
20.123	Unincorporated	2,686	869	914	2,685	29.0	SAN VICENTE-PALISADES AREA	44,126	14,744	15,751	43,704
20.124	Unincorporated	1,919	607	1,048	3,540	29.11	Part of Los Angeles	7,803	2,713	2,965	7,777
20.131	Unincorporated	3,966	685	1,580	6,126	29.12	Part of Los Angeles	13,268	4,019	4,155	13,118
20.132	Unincorporated	28,759	8,283	10,251	34,288	29.13	Part of Los Angeles	23,055	8,012	8,631	22,809
20.133	Unincorporated	15,353	5,151	6,953	21,109	30.0	SANTA MONICA-VENICE AREA	260,254	113,605	128,541	266,391
20.14	Unincorporated	2,013	1,023	968	1,776	30.1	Santa Monica	88,289	42,106	46,308	88,609
20.2	Palm Dale	8,511	2,816	3,854	10,354	30.21	Part of Los Angeles	41,872	21,602	23,574	41,814
21.0	NORTHEAST AREA	170,698	62,555	63,526	166,222	30.22	Part of Los Angeles	58,814	23,214	25,864	59,774
21.11	Part of Los Angeles	59,927	24,820	25,579	59,322	30.231	Part of Los Angeles	27,467	8,864	9,737	27,449
21.12	Part of Los Angeles	34,771	11,053	11,130	33,618	30.232	Part of Los Angeles	36,146	15,466	17,004	37,078
21.13	Part of Los Angeles	39,329	15,891	16,001	37,655	30.32	Unincorporated	3,693	2,311	6,012	10,165
21.14	Part of Los Angeles	36,671	10,781	10,816	35,626	30.4	Unincorporated (Sawtelle Home)	3,973	42	42	1,502
22.0	NORWALK AREA	322,677	101,687	116,748	341,742	31.0	SOUTH BAY AREA	182,904	68,174	75,004	182,175
22.1	Unincorporated	355	83	83	352	31.1	El Segundo	15,620	5,994	6,155	14,880
22.2	Cerritos	15,856	4,623	12,639	41,897	31.2	Hermosa Beach	17,412	7,942	9,264	18,325
22.3	Downey	88,573	31,494	33,571	88,180	31.3	Manhattan Beach	35,352	13,127	13,473	32,794
22.4	Paramount	34,734	11,588	11,391	30,684	31.4	Redondo Beach	57,451	20,251	24,900	63,309
22.6	Norwalk	90,164	23,785	24,976	86,815	31.51	Part of Los Angeles	49,903	17,684	17,990	46,384
22.7	Bellflower	52,334	19,293	21,009	50,204	31.52	Part of Los Angeles	4,260	1,784	1,755	3,846
22.8	Artesia	14,757	4,018	4,501	15,511	31.61	Unincorporated	1,169	753	816	1,076
22.10	Hawallan Gardens	9,052	2,481	2,916	9,853	31.62	Unincorporated	1,737	639	651	1,561
22.11	Part of Lakewood	16,852	4,322	5,262	18,246	32.0	SOUTHEAST AREA	447,656	161,766	160,982	418,692
23.0	PALOS VERDES AREA	184,898	59,719	60,028	197,771	32.1	Bell	21,836	9,052	9,246	21,751
23.1	Palos Verdes Estates	13,631	3,973	4,434	14,518	32.2	Maywood	16,996	6,873	6,815	16,466
23.2	Part of Torrance	100,367	34,680	37,801	100,446	32.3	Huntington Park	33,744	15,725	15,340	32,327
23.311	Unincorporated	29,433	7,770	873	2,229	32.4	Montebello	42,807	14,449	16,755	46,502
23.312	Unincorporated	12,898	3,448	2,610	9,804	32.5	South Gate	56,909	23,541	23,892	52,707
23.4	Rolling Hills	2,050	568	611	2,125	32.6	Vernon	261	109	105	263
23.5	Rolling Hills Estates	6,735	1,766	2,335	8,447	32.71	Part of Los Angeles	75,888	28,192	27,233	67,210
23.6	Lomita	19,784	7,514	7,866	19,382	32.721	Part of Los Angeles	29,283	8,130	7,509	24,088
23.7	Rancho Palos Verdes (Incorp. 9/7/73)			11,498	40,820	32.722	Part of Los Angeles	49,665	16,098	14,851	41,724
24.0	PASADENA AREA	185,454	70,989	73,335	179,603	32.81	Unincorporated	262	108	106	255
24.1	Pasadena	112,951	46,923	49,180	107,940	32.82	Unincorporated	11,139	4,003	4,024	10,423
24.21	Unincorporated	20,714	6,141	6,279	20,918	32.831	Unincorporated	24,606	7,932	7,762	24,504
24.22	Unincorporated	2,027	889	878	1,874	32.832	Unincorporated	18,294	5,708	5,570	16,529
24.231	Unincorporated	42,415	14,331	14,315	41,816	32.833	Unincorporated	8,925	3,704	3,693	8,737
24.232	Unincorporated	1,409	420	427	1,318	32.84	Unincorporated	0	0	—	—
24.233	Unincorporated	5,938	2,285	2,254	5,737	32.9	Commerce	10,635	3,131	3,075	10,197
25.0	POMONA AREA	149,654	46,616	51,951	155,147	32.10	Cudahy	16,998	5,459	5,461	16,818
25.1	Pomona	87,384	28,864	29,809	83,784	32.11	Bell Gardens	29,308	9,552	9,545	28,191
25.2	Claremont	23,998	8,788	7,475	25,200	33.0	TUJUNGA AREA	53,630	17,270	17,368	51,528
25.3	La Verne	12,965	4,135	6,001	17,545	33.1	Part of Los Angeles	53,630	17,270	17,368	51,528
25.41	Unincorporated	1,064	278	280	1,015	34.0	WHITTIER AREA	269,173	78,470	83,275	267,884
25.42	Unincorporated	6,476	1,892	2,120	7,578	34.1	Part of Whittier	72,863	25,817	27,173	70,961
25.43	Unincorporated	2,075	284	303	2,668	34.21	Unincorporated	2,283	553	706	2,775
25.5	San Dimas	15,692	4,375	5,963	17,957	34.22	Unincorporated	20,845	6,154	6,218	19,545
26.0	PUEENTE HILLS AREA	177,014	43,172	55,802	213,449	34.23	Unincorporated	4,695	1,388	1,515	4,837
26.11	Unincorporated	21,452	4,713	4,769	21,004	34.241	Unincorporated	43,008	11,766	12,475	43,497
26.121	Unincorporated	11,793	3,192	3,413	12,036	34.242	Unincorporated	12,339	3,333	3,102	11,293
26.122	Unincorporated	37,794	9,270	12,267	46,429	34.25	Unincorporated	13,384	3,228	1,762	7,182
26.131	Unincorporated	17,189	4,066	4,110	16,849	34.31	Part of Santa Fe Springs	6,939	1,728	2,193	8,247
26.132	Unincorporated	12,386	2,703	3,012	13,160	34.32	Part of Santa Fe Springs	7,811	2,036	2,130	7,579
26.141	Unincorporated	21,125	5,469	8,820	33,042	34.4	Pico Rivera	54,170	14,647	15,222	51,390
26.142	Unincorporated	13,303	3,330	5,642	21,207	34.5	La Mirada	30,808	7,811	10,770	40,550
26.3	La Puente	31,092	7,652	8,173	30,460	34.6	Part of Industry	28	9	9	28
26.4	Part of Industry	684	147	140	652	35.0	WILSHIRE AREA	172,424	89,431	94,987	161,682
26.5	Walnut	5,992	1,590	2,404	8,608	35.11	Part of Los Angeles	37,150	19,442	20,266	33,378
26.6	Part of West Covina	4,204	1,040	3,042	10,202	35.12	Part of Los Angeles	37,566	22,387	25,969	37,630
27.0	SAN FERNANDO AREA	215,516	80,794	63,023	219,612	35.13	Part of Los Angeles	51,207	26,657	27,627	49,107
27.1	San Fernando	16,571	5,559	5,524	15,240	35.14	Part of Los Angeles	46,501	20,943	21,123	41,567
27.21	Part of Los Angeles	40,349	11,182	11,836	41,349	35.2	Unincorporated	0	2	2	0
27.22	Part of Los Angeles	60,275	16,195	19,104	67,118						
27.23	Part of Los Angeles	32,671	8,714	9,015	37,032						
27.24	Part of Los Angeles	65,650	17,144	17,544	64,873						

LOS ANGELES COUNTY HOUSING TRENDS* NET CHANGES COMPARED JULY THROUGH DECEMBER

	Housing Units		Change	
	1975	1974	From Year Ago Number	Percent
Single Units**	2,924	1,951	973	49.9
Multiple Units	6,782	7,776	-994	-12.8
Total Units	9,706	9,727	-21	-0.2

*These figures are compiled from a survey of residential new construction, move-ins, removals, demolitions and alterations reported by each of the permit issuing agencies in Los Angeles County. Housing unit changes are entered in the housing inventory either upon completion or after an assumed completion date.

**Includes single units, duplex units and mobile homes.

HOUSING (Continued from page 1)

taled 6,782. This was a slight gain of 123 units over the number added in the previous six months, but 994 units or 12.8 percent below those added in the same period of the previous year.

Single units accounted for 30 percent of the net units added in the second half as compared with 15 percent in the first six months. While this resurgence of single family home construction may foreshadow the beginning of a trend, the major finding which emerges from a review of the 1975 housing records is that 77 percent of the net units added were in multiple structures. The overwhelming character and longevity of this dominance is clearly shown in the bar graph on page 1. The April 1976 issue will contain a more complete review of the housing changes in 1975.

POPULATION (Continued from page 1)

tially a horizontal trend line centered upon a total population of 7,000,000.

Generally, population changes within the County continued to follow the long established pattern of gains in the outlying suburban areas and losses or little change in the central urban districts. For example, twelve of the thirteen Major Statistical Areas and twenty-two of the thirty cities which registered population increases in 1975 are located in the suburbs. Population changes in the unincorporated areas also reflected this pattern, increasing approximately 10,300 to a January 1, 1976 total of 1,021,500. At the same time, those living in cities declined approximately 36,300 to a total of 5,973,200.

A review of the 1975 population changes within a fifteen mile radius of downtown Los Angeles shows that this central urban area lost approximately 38,000 inhabitants. However, not all cities and unincorporated places within this radius experienced losses. In fact, in the southeastern quadrant of this radius, a counter trend may be emerging.

A notable example is the Compton Area (MSA 8.0), an area which has been in continuous decline since the 1970 Census, losing an estimated 17,800 residents in this period. However, in 1975, the decline was halted and the Compton Area experienced a small net gain.

Some other older urban areas have also experienced a steady decline in housing vacancies which suggests that similar turnarounds have or are about to occur. However, there is not yet sufficient corroborative evidence to determine whether these declining vacancies foreshadow a reversal of past trends or merely reflect short-term local conditions.

CENSUS TRACTS UNDER REVIEW PART OF 1980 CENSUS PREPARATIONS

A review of Los Angeles County census tracts has begun in preparation for their use in the 1980 Census. No major changes are contemplated in the overall tract design. However, some of the existing 1,576 census tracts now have populations in excess of 8,000 and physical changes have occurred which require a re-examination of the boundaries of several others.

A preliminary survey indicates that, in updating the Los Angeles County Census Tract Plan for the 1980 Census, thirty to forty census tracts may be divided and perhaps as many minor boundary adjustments made. Although some changes will be necessary, every effort will be made to preserve the integrity of the existing boundaries so that comparability of the 1980 census tract data with that of earlier censuses will not be impaired.

The original numbering plan of one to three digits with an alphabetical suffix was replaced in 1960 by a four digit system, which in turn was expanded to six digits in 1970. No basic change in the existing numbering system for the 1980 Census is anticipated.

POPULATION AND HOUSING TABLE NOTES

Housing unit adjustments contained in this issue include the following:

Statistical Area No.	Jurisdiction	Housing Units			*
		Single	Mobile Homes	Multiple	
14.1	Glendale	5			(2)
		-96			(1)
18.1	Arcadia	12			(2)
18.42		-12			(3)
20.2	Palmdale	1	39	4	(2)
20.121	Unincorporated	-1	-39	-4	(3)
24.21	Unincorporated	-5			(3)
25.2	Claremont	11			(2)
25.42	Unincorporated	-11			(3)

*Reason adjusted: (1) Demolitions in redevelopment area; (2) Annexation; (3) Annexed to adjacent city.

Adjustments were made in the population estimates of the following cities in order to recognize the results of recent special censuses: Pasadena (SA 24.1), Claremont (SA 25.2) Carson (SA's 8.4, 10.213, 10.31 and 10.32), and Pico Rivera (SA 34.4). The housing counts for these cities will be adjusted in the July 1976 issue.

EDITOR'S NOTE

During the past seventeen years, Laura Mowrey has worked in or been in charge of the unit responsible for updating the housing inventory. In this capacity, she has initiated or supervised the implementation of many changes which have improved the quality and widened the scope of this file.

The housing estimates in this and the April issues are the last to be compiled under her supervision. Now retired, she has left us a valuable legacy in the procedures, techniques, and qualitative standards she established.

Two other changes also should be noted. Both Richard Kawasaki, Assistant Section Head, and Pamela Holt have been transferred to other departmental functions, while Bill Dunlap, Patricia Emmons and Marcelle Mehlinger have joined Faye Howard on the staff.

APPENDIX C

**Principles of the Mineral Resources Classification
System of the U.S. Bureau of Mines and the U.S.
Geological Survey (From U.S. Geological Survey Bulletin 1450A)**

Principles of the Mineral Resource Classification System of the U.S. Bureau of Mines and U.S. Geological Survey

MINERAL RESOURCE CLASSIFICATION SYSTEMS OF THE
U.S. BUREAU OF MINES AND U.S. GEOLOGICAL SURVEY

GEOLOGICAL SURVEY BULLETIN 1450-A

*A report published jointly by the
U.S. Bureau of Mines and
U.S. Geological Survey*

*Definitions of mineral resource classification
terms used by the U.S. Bureau of Mines and
U.S. Geological Survey*



UNITED STATES DEPARTMENT OF THE INTERIOR

THOMAS S. KLEPPE, *Secretary*

GEOLOGICAL SURVEY

V. E. McKelvey, *Director*

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MINERAL RESOURCE CLASSIFICATION SYSTEMS OF THE
U.S. BUREAU OF MINES AND U.S. GEOLOGICAL SURVEY

PRINCIPLES OF THE MINERAL RESOURCES CLASSIFICATION SYSTEM OF THE U.S. BUREAU OF MINES AND U.S. GEOLOGICAL SURVEY

GENERAL DEFINITION OF MINERAL AND ENERGY RESOURCES

The dictionary definition of resource "something in reserve or ready if needed" has been extended for mineral and energy resources to comprise all materials surmised to exist having present or future values. In geologic terms a mineral or energy resource is a concentration of naturally occurring solid, liquid, or gaseous materials in or on the Earth's crust in such form that economic extraction of a commodity is currently or potentially feasible. Material classified as a reserve is that portion of an identified resource producible at a profit at the time of classification.

Total Resources are materials that have present or future value and comprise identified or known materials plus those not yet identified, but which on the basis of geologic evidence are presumed to exist.

PHILOSOPHIC BASIS FOR A RESOURCE CLASSIFICATION

Public attention usually is focused on current economic availability of mineral or energy materials (reserves). Long-term public and commercial planning, however, must be based on the probability of geologic identification of resources in as yet undiscovered deposits and of technologic development of economic extraction processes for presently unworkable deposits. Thus, all the components of Total Resources must be continuously reassessed in the light of new geologic knowledge, of progress in science, and of shifts in economic and political conditions.

Another requirement of long-term planning is the weighing of total or multi-commodity resource availability against a particular need. To achieve this the general classification system must be uniformly applicable to all commodities so that data for alternate or substitute commodities can be compared.

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To serve these planning purposes Total Resources are classified both in terms of economic feasibility and of the degree of geologic assurance. The factors involved are incorporated in figure 1 to provide a graphic classification of Total Resources.

General guides for the use of this classification system are as follows:

1. Resource categories and definitions in the classification, as specified in the glossary, should be applicable to all naturally occurring concentrations of metals, nonmetals, and fossil fuels. The categories may be subdivided for special purposes.

2. Definitions may be amplified, where necessary, to make them more precise and conformable with accepted usage for particular commodities or types of resource evaluations.

3. Quantities and qualities may be expressed in a variety of terms and units to suit different purposes, but must be clearly stated and defined.

GLOSSARY OF RESOURCE TERMS

Resource.—A concentration of naturally occurring solid, liquid, or gaseous materials in or on the Earth's crust in such form

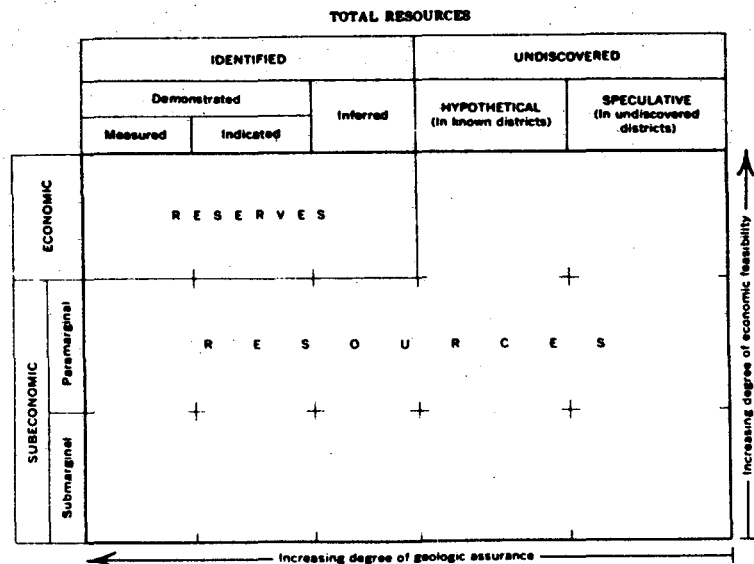


FIGURE 1.—Classification of mineral resources.

that economic extraction of a commodity is currently or potentially feasible.

Identified resources.—Specific bodies of mineral-bearing material whose location, quality, and quantity are known from geologic evidence supported by engineering measurements with respect to the demonstrated category.

Undiscovered resources.—Unspecified bodies of mineral-bearing material surmised to exist on the basis of broad geologic knowledge and theory.

Reserve.—That portion of the identified resource from which a usable mineral and energy commodity can be economically and legally extracted at the time of determination. The term *ore* is used for reserves of some minerals.

The following definitions for measured, indicated, and inferred are applicable to both the Reserve and Identified-Subeconomic resource components.¹

Measured.—Reserves or resources for which tonnage is computed from dimensions revealed in outcrops, trenches, workings, and drill holes and for which the grade is computed from the results of detailed sampling. The sites for inspection, sampling, and measurement are spaced so closely and the geologic character is so well defined that size, shape, and mineral content are well established. The computed tonnage and grade are judged to be accurate within limits which are stated, and no such limit is judged to be different from the computed tonnage or grade by more than 20 percent.

Indicated.—Reserves or resources for which tonnage and grade are computed partly from specific measurements, samples, or production data and partly from projection for a reasonable distance on geologic evidence. The sites available for inspection, measurement, and sampling are too widely or otherwise inappropriately spaced to permit the mineral bodies to be outlined completely or the grade established throughout.

Demonstrated.—A collective term for the sum of measured and indicated reserves or resources.

Inferred.—Reserves or resources for which quantitative estimates are based largely on broad knowledge of the geologic charac-

¹ The terms proved, probable, and possible (used by the industry and economic evaluations of ore in specific deposits or districts) commonly have been used loosely and interchangeably with the terms measured, indicated, or inferred (used by the Department of the Interior mainly for regional or national estimates). The terms "proved" and "measured" are essentially synonymous. The terms "probable" and "possible," however, are not synonymous with "indicated" and "inferred." "Probable" and "possible" describe estimates of partly sampled deposits—in some definitions, for example, "probable" is used to describe deposits sampled on two or three sides, and "possible" for deposits sampled only on one side; in the Bureau-Survey definitions, both would be described by the term "indicated."

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ter of the deposit and for which there are few, if any, samples or measurements. The estimates are based on an assumed continuity or repetition, of which there is geologic evidence; this evidence may include comparison with deposits of similar type. Bodies that are completely concealed may be included if there is specific geologic evidence of their presence. Estimates of inferred reserves or resources should include a statement of the specific limits within which the inferred material may lie.

Identified-Subeconomic.—Resources that are not Reserves, but may become so as a result of changes in economic and legal conditions.

Paramarginal.—The portion of Subeconomic Resources that (1) borders on being economically producible or (2) is not commercially available solely because of legal or political circumstances.

Submarginal.—The portion of Subeconomic Resources which would require a substantially higher price (more than 1.5 times the price at the time of determination) or a major cost-reducing advance in technology.

Hypothetical resources.—Undiscovered resources that may reasonably be expected to exist in a known mining district under known geologic conditions. Exploration that confirms their existence and reveals quantity and quality will permit their reclassification as a Reserve or Identified-Subeconomic resource.

Speculative resources.—Undiscovered resources that may occur either in known types of deposits in a favorable geologic setting where no discoveries have been made, or in as yet unknown types of deposits that remain to be recognized. Exploration that confirms their existence and reveals quantity and quality will permit their reclassification as Reserves or Identified-Subeconomic resources.

AREAS OF RESPONSIBILITY AND OPERATIONAL PROCEDURES

U.S. Bureau of Mines.—The Bureau appraises, analyzes, and publishes reserve estimates from base data supplied by the mineral and energy materials industry, the U.S. Geological Survey, and other governmental agencies. The Bureau judges commodity recoverability on existing economic and legal factors.

PRINCIPLES OF THE CLASSIFICATION SYSTEM A5

U.S. Geological Survey.—The Survey appraises, analyzes, and publishes estimates of Total Resources. It reports such measurable parameters of significance to resource evaluation as location, quality, quantity, and situation of Identified resources.

Annual Resource Summation.—The U.S. Bureau of Mines and U.S. Geological Survey will confer and agree annually on estimates in all of the resource categories defined above. These data will be in Bureau or Survey publications and will be available for inclusion in the Secretary's Annual Report required by the Mining and Minerals Policy Act of 1970.

Ad Hoc Joint Conferences.—The Directors will convene ad hoc joint work groups to resolve problems in the resource area.