## Palomar College External Scan

## 2012

## **External Scan Topics**

Population Growth



➤ 2011-12 WSCH By Population Group



Population Educational Attainment





## **Population Growth**



## District Population Growth 2012 to 2022 for Those 18 Years of Age or Older







Source: Economic Modeling Specialists Inc (EMSI)

- EMSI forecasts that the District's 18+ population will grow by almost 52,000 (8.6%) in the next 10 years.
- Next, we will explore where that 51,775 in population growth came from...

## Where the 51,775 in Age 18+ District Population Growth Came from...



#### 2012-2022 Pop Growth for Planning Area: Palomar CCD

Source: Economic Modeling Specialists Inc (EMSI)

- Over two thirds (68.1%) of the growth was attributable to those Aged 65+;
- All but 12% of the 65+ growth was attributable to Whites (40.3%) and Hispanics (15.7%);
- At the other end of the age scale, those Aged 18-20 declined by 1.0% (N=532) from 33,923 to 33,391 by year 2022;
- Multi-Ethnic 18-20 growth (3.0%) failed to balance out declines among Whites (-3.6%) & African Americans (-0.4%);
- As a group, Hispanics accounted for almost 60% (59.7%) of the District's 51,775 Age 18+ growth.

# Consistent with the Prior Slide's <u>1.0% Decline</u> in Those Aged 18-20, the CA DOF Projects Little to No Growth in H.S. Grads from 2012 to 2022



Source: CA Dept of Finance, High School Graduate Projections by County, 2012 Series. Sacramento, CA, Nov'12.

## What We've Learned So Far...



- The District 's Aged 18+ population will grow by 51,775 (8.6%) between 2012 and 2022.
- Two thirds of that growth (35,268 or 68%) comes from the 65+ age group the District grows much greyer.
- The Aged 18-20 population will <u>decline</u> by 532 (a negative 1.0% growth rate).
- 18-20 African Americans and Whites will decline between now and 2022 (by 0.4% and 3.6% respectively).
- 18-20 Multi-Ethnic growth (3.0%) failed to balance out the 4.0% decline in African Americans and Whites.
- As a group, 18+ Hispanics accounted for 30,894 (59.7%) of District population growth.







## 2011-12 WSCH By Population Group



### Are Age-Ethnicity Groups Generating WSCH in Proportion to Their Representation in the Population?





2011-12 In-District, Adult, CREDIT+NonCREDIT WSCH

- •Those aged 18-20 represent only 5.66% of District population but they generated almost half (45.10%) of 2011-12 WSCH.
- Put another way, the WSCH "share" for those aged 18-20 was 7.97 times greater than their population "share" (45.10 / 5.66).
- The WSCH share for those aged 21-24 was 3.19 times greater than their population share (24.68 / 7.73).
- WSCH share for those aged 25-34 was only 0.99 times as large as their population share (17.32 / 17.58).
- The device of dividing WSCH share by Population share makes it much easier to spot proportionality anomalies.
- As can be seen in the next slide...

## Are Age-Ethnicity Groups Generating WSCH in Proportion to Their Representation in the Population? (Cont.)



Source: Source: Economic Modeling Specialists Inc (EMSI)

#### CREDIT+NonCREDIT INDEX (% of WSCH per % of Pop)

		African	Asian/		Native	Multi-	
Age	Total	Am.	Pac.lsl.	Hispanic	Am.	Ethnic	White
65+	0.04	0.10	0.01	0.02	0.24	0.03	0.04
50-64	0.16	0.40	0.12	0.10	0.34	0.32	0.17
35-49	0.31	0.69	0.22	0.27	1.10	0.39	0.33
25-34	0.99	1.81	0.82	0.88	2.54	1.20	1.03
21-24	3.19	3.18	3.14	3.05	3.79	3.85	3.27
18-20	7.97	5.93	7.61	7.73	8.91	11.80	8.07
Total	1.00	1.35	0.81	1.30	1.78	2.29	0.82



Source: Source: FS320 Report

- If a group has exactly the same WSCH and population "shares" (e.g. 10%WSCH & 10%Pop) then the INDEX = 1.00.
- If a group generates 10% of the WSCH and represents 5% of the population, INDEX= 2.00 (i.e., they generate twice as much WSCH as their Pop share would suggest.)
- If a group generates 5% of the WSCH and represents 10% of the population, INDEX= 0.50 (i.e., they generate half as much WSCH as their Pop share would suggest.)

### Ok, But How About for Credit and Non-Credit Separately?



#### Just like what was seen in the 2009 External Scan... Younger age groups generate more than their Pop share of Credit WSCH.

#### CREDIT INDEX (% of WSCH per % of Pop)

		African	Asian/		Native	Multi-	
Age	Total	Am.	Pac.lsl.	Hispanic	Am.	Ethnic	White
65+	0.03	0.10	0.01	0.01	0.24	0.03	0.04
50-64	0.15	0.40	0.12	0.08	0.34	0.32	0.17
35-49	0.30	0.69	0.22	0.25	1.09	0.39	0.33
25-34	0.98	1.79	0.81	0.87	2.47	1.19	1.03
21-24	3.20	3.10	3.15	3.04	3.74	3.88	3.29
18-20	8.04	5.96	7.68	7.78	8.90	11.94	8.16
Total	1.00	1.34	0.81	1.29	1.76	2.32	0.83



#### 2011-12 In-District, Adult, NON-CREDIT WSCH

#### Unlike what was seen in the 2009 External Scan...

214

4.601

Tot WSCH

Older age groups don't generate more than their Pop share of NonCredit WSCH.

2.605

69

61

1.343

310

#### NON-CREDIT INDEX (% of WSCH per % of Pop)

		African	Asian/		Native	Multi-	
Age	Total	Am.	Pac.lsl.	Hispanic	Am.	Ethnic	White
65+	0.30	0.06	0.00	0.86	0.00	0.00	0.23
50-64	0.58	0.44	0.35	1.72	0.20	0.03	0.27
35-49	0.89	0.58	0.55	1.65	2.41	0.03	0.52
25-34	1.24	3.28	0.95	1.83	7.36	1.35	0.69
21-24	2.50	9.10	2.05	3.36	7.95	1.64	1.44
18-20	2.73	3.14	2.18	3.93	9.64	1.26	1.61
Total	1.00	1.98	0.67	2.02	3.35	0.72	0.51

## **Population Participation Rates**

Participation Rate is defined to be the number of students of a given age & ethnicity enrolled at the district per 1,000 adults of that age & ethnicity in the local population.

#### **District Adult Population in Thousands**

		African	Asian/		Native	Multi-	
Age	Total	Am.	Pac.lsl.	Hispanic	Am.	Ethnic	White
65+	102.6	1.6	8.7	14.9	.4	.7	76.3
50-64	150.9	3.4	14.5	30.9	.7	1.8	99.5
35-49	160.3	4.1	19.4	52.4	.6	3.0	80.8
25-34	105.4	2.7	11.1	37.6	.5	2.9	50.6
21-24	46.4	1.3	3.9	18.1	.3	1.4	21.4
18-20	33.9	.9	2.8	14.6	.2	1.2	14.1
Total	599.5	14.1	60.4	168.4	2.7	11.1	342.9

Source: Economic Modeling Specialists Inc (EMSI)

#### District Adult Population Distribution Within Age Group

	Total	African	Asian/		Native	Multi-	
Age	Pop K	Am.	Pac.lsl.	Hispanic	Am.	Ethnic	White
65+	102.6	1.6%	8.5%	14.5%	0.4%	0.7%	74.4%
50-64	150.9	2.3%	9.6%	20.5%	0.5%	1.2%	66.0%
35-49	160.3	2.5%	12.1%	32.7%	0.4%	1.9%	50.4%
25-34	105.4	2.6%	10.5%	35.7%	0.5%	2.7%	48.0%
21-24	46.4	2.9%	8.4%	38.9%	0.6%	3.1%	46.2%
18-20	33.9	2.7%	8.4%	43.1%	0.5%	3.7%	41.7%
Total	599.5	2.3%	10.1%	28.1%	0.4%	1.8%	57.2%
Courses		ala Madali			NN N		

Source: Economic Modeling Specialists Inc (EMSI)

#### Fall 2011 In-District, Adult, Credit+NonCredit Participation Rate

		African	Asian/		Native	Multi-					
Age	Total	Am.	Pac.lsl.	Hispanic	Am.	Ethnic	White				
65+	2	4	1	1	8	3	2				
50-64	6	12	5	4	13	7	7				
35-49	11	19	8	9	38	11	12				
25-34	28	44	22	26	73	30	29				
21-24	78	77	74	74	97	88	81				
18-20	172	130	149	171	178	244	174				
Total	25	33	19	32	48	51	22				
Source	Source: FS320 Report										

#### When Credit & NonCredit students are combined:

- Participation rates are highest for those aged 18-20 (172 per thousand versus 25 for the District Pop overall).
- Participation rates decline with each step upward through the older age groups.

## Population Participation Rates Credit -v- NonCredit

Participation Rate is defined to be the number of students of a given age & ethnicity enrolled at the district per 1,000 adults of that age & ethnicity in the local population.

#### **District Adult Population in Thousands**

		African	Asian/		Native	Multi-	
Age	Total	Am.	Pac.lsl.	Hispanic	Am.	Ethnic	White
65+	102.6	1.6	8.7	14.9	.4	.7	76.3
50-64	150.9	3.4	14.5	30.9	.7	1.8	99.5
35-49	160.3	4.1	19.4	52.4	.6	3.0	80.8
25-34	105.4	2.7	11.1	37.6	.5	2.9	50.6
21-24	46.4	1.3	3.9	18.1	.3	1.4	21.4
18-20	33.9	.9	2.8	14.6	.2	1.2	14.1
Total	599.5	14.1	60.4	168.4	2.7	11.1	342.9

Source: Economic Modeling Specialists Inc (EMSI)

#### Fall 2011 In-District, Adult, Credit Participation Rate

		African	Asian/		Native	Multi-	
Age	Total	Am.	Pac.lsl.	Hispanic	Am.	Ethnic	White
65+	2	4	1		8	3	2
50-64	6	12	5	3	13	7	7
35-49	10	19	7	8	36	11	11
25-34	27	43	22	25	73	30	29
21-24	77	73	74	72	93	88	81
18-20	172	129	149	170	172	244	174
Total	25	33	19	31	47	51	22

Source: FS320 Report

- Credit participation rates are highest for those aged 18-20 (172 per thousand versus 25 overall).
- The credit participation rate of 18-20 Hispanics (170) is almost at parity with that of 18-20 Whites (174).
- Credit participation rates decline with each step <u>upward</u> through the <u>older</u> age groups.

#### District Adult Population Distribution Within Age Group

	Total	African	Asian/		Native	Multi-	
Age	Pop K	Am.	Pac.lsl.	Hispanic	Am.	Ethnic	White
65+	102.6	1.6%	8.5%	14.5%	0.4%	0.7%	74.4%
50-64	150.9	2.3%	9.6%	20.5%	0.5%	1.2%	66.0%
35-49	160.3	2.5%	12.1%	32.7%	0.4%	1.9%	50.4%
25-34	105.4	2.6%	10.5%	35.7%	0.5%	2.7%	48.0%
21-24	46.4	2.9%	8.4%	38.9%	0.6%	3.1%	46.2%
18-20	33.9	2.7%	8.4%	43.1%	0.5%	3.7%	41.7%
Total	599.5	2.3%	10.1%	28.1%	0.4%	1.8%	57.2%

Source: Economic Modeling Specialists Inc (EMSI)

#### Fall 2011 In-District, Adult, NonCredit Participation Rate

		African	Asian/		Native	Multi-	
Age	Total	Am.	Pac.lsl.	Hispanic	Am.	Ethnic	White
65+							
50-64				1			
35-49				1	2		
25-34		1		1			
21-24	1	4		1	4		
18-20	1	1		1	6		
Total		1		1	1		
Courses	<b>FC</b> OOO	Damant					

Source: FS320 Report

• At the time of the 2009 External Scan, <u>overall</u> NonCredit participation stood at 4 per 1,000 residents and the 65+ age group claimed the highest rate (9).

• In the current scan, <u>overall</u> NonCredit participation has fallen to less than 1 per 1,000 residents and the older age groups have virtually fallen off the radar.

## Do We Have Any Productivity Metrics Like WSCH per FTEF On This?

		African	Asian/		Native	Multi-	
Age	Total	Am.	Pac.Isl.	Hispanic	Am.	Ethnic	White
65+	383	450	430	348	496	388	380
50-64	430	426	412	398	385	428	439
35-49	447	469	399	416	423	511	472
25-34	451	458	418	457	485	445	452
21-24	481	493	481	486	467	472	478
18-20	515	516	526	522	489	505	507
Total	484	480	474	491	466	487	480

#### 2011-12 In-District, Adult, CREDIT+NonCREDIT WSCH per FTEF

## Yes, we can look at Credit and NonCredit Separately.

		African	Asian/		Native	Multi-	
Age	Total	Am.	Pac.lsl.	Hispanic	Am.	Ethnic	White
65+	383	450	430	348	496	388	380
50-64	430	426	412	398	385	428	439
35-49	447	469	399	416	423	511	472
25-34	451	458	418	457	485	445	452
21-24	481	493	481	486	467	472	478
18-20	515	516	526	522	489	505	507
Total	484	480	474	491	466	487	480

#### 2011-12 In-District, Adult, CREDIT+NonCREDIT WSCH per FTEF

#### 2011-12 In-District, Adult, CREDIT WSCH per FTEF

		African	Asian/		Native	Multi-	
Age	Total	Am.	Pac.lsl.	Hispanic	Am.	Ethnic	White
65+	391	446	430	403	496	388	384
50-64	436	421	420	446	382	427	440
35-49	452	464	398	430	418	511	471
25-34	451	455	417	461	479	445	450
21-24	481	490	480	487	469	472	477
18-20	514	515	524	522	489	505	506
Total	485	477	474	496	464	487	479

#### 2011-12 In-District, Adult, NON-CREDIT WSCH per FTEF

		African	Asian/		Native	Multi-	
Age	Total	Am.	Pac.lsl.	Hispanic	Am.	Ethnic	White
65+	326			313			333
50-64	327	2,213	282	287			436
35-49	358	5,378	427	303	657		488
25-34	446	592	495	344	738	476	799
21-24	518	610	535	441	402	529	730
18-20	620	656	7,245	457	475	1,849	1,642
Total	421	690	506	348	569	593	583

## What We've Learned So Far...



- The District 's Aged 18+ population will grow by 51,775 (8.6%) between 2012 and 2022.
- Two thirds of that growth (35,268 or 68%) comes from the 65+ age group the District grows much greyer.
- The Aged 18-20 population will <u>decline</u> by 532 (a negative 1.0% growth rate).
- 18-20 African Americans and Whites will decline between now and 2022 (by 0.4% and 3.6% respectively).
- 18-20 Multi-Ethnic growth (3.0%) failed to balance out the 4.0% decline in African Americans and Whites.
- As a group, 18+ Hispanics accounted for 30,894 (59.7%) of District population growth.



- 18-20's represent only 5.66% of District Pop but generated almost half (45.50%) of 2011-12 Credit WSCH.
- That is to say, 18-20 Credit WSCH "share" was 8.04 times greater than their population share (45.5 / 5.66).
- For 18-20 Hispanics, their Credit WSCH share was 7.78 times greater than their Pop share (18.97 / 2.44).
- That 7.78 multiple for 18-20 Hispanics falls only slightly short of the 8.16 multiple for 18-20 Whites.
- The Credit participation rate of 18-20 Hispanics (170) is almost at parity with that of 18-20 Whites (174).
- As shown in the prior section, EMSI forecasts a 1% decline in the District's18-20 population group by 2022.
- While 18-20 Whites will decline 3.6% by 2022, 18-20 Hispanics will remain flat -- only declining by 0.1%.





## **Population Educational Attainment**



## Planning Area Educational Attainment 2011

- Almost two-fifths (38.2%) of the District's Aged 25+ population had an AA/AS or higher;
- About one-quarter (24.5%) had at least "some" college;
- Roughly one-fifth (21.9%) had graduated from high school;
- Slightly under one-sixth (15.4%) had less than a high school education.



#### Educational Attainment of Those Aged 25+ By Planning Area

The South Planning Area stands out as having 52% AA/AS or higher versus an average of 32% in the other Areas.

Transfer

Academy?

South

Source: U.S. Census Bureau, 2007-2011 American Community Survey

- Central San Marcos, Oceanside, and most of Escondido and Vista
- North primarily Fallbrook, Valley Center, & parts of Escondido and Vista
- South primarily Poway, San Diego, and Ramona

## Limitations To Ethnic Drill Down On Educational Attainment

Due to sample size issues, the Census Bureau limits ethnic drill down on the ACS zip code level educational attainment data to <u>four education levels</u> and only the <u>two largest ethnic segments</u>...



Educational Attainment of Those Aged 25+ By Planning Area

Source: U.S. Census Burrau, 2007-2011 American Community Survey





Source: Economic Modeling Specialists Inc (EMSI)

Two Largest Ethnic Segments of the District's 25+ Population

## Planning Area Educational Attainment 2011 For Major Ethnic Group <u>1 of 2</u>



Source: U.S. Census Bureau, 2007-2011 American Community Survey

#### **WHITES**

• 48.3% in the South have a BA or higher vs. a mean of 33.6% in the other areas

- 31.7% in South have some college or AA vs. a mean of 40% in the other areas
- 16.6% in South are HS grads vs. a mean of 21.5% in the other areas
- 3.4% in South aren't HS grads roughly on par with North(5%) & Central(5%)

## Planning Area Educational Attainment 2011 For Both Major Ethnic Groups



Educational Attainment of Those Aged 25+ By Planning Area



Educational Attainment of Those Aged 25+ By Planning Area

Ethnicity = WHITE

100%

Source: U.S. Census Bureau, 2007-2011 American Community Survey

#### **HISPANICS**

- 27.6% in the South have a BA or higher vs. a mean of 8.4% in the other areas
- 28.1% in South have some college or AA vs. a mean of 19% in the other areas
- 21.3% in South are HS grads roughly on par with North(23.1%) & Cntrl(22.1%)
- 22.9% in South aren't HS grads vs. a mean of 50% in the other areas

Source: U.S. Census Bureau, 2007-2011 American Community Survey

#### WHITES

- 48.3% in the South have a BA or higher vs. a mean of 33.6% in the other areas
- 31.7% in South have some college or AA vs. a mean of 40% in the other areas
- 16.6% in South are HS grads vs. a mean of 21.5% in the other areas
- 3.4% in South aren't HS grads roughly on par with North(5%) & Central(5%)

# San Diego County Educational Attainment 2012 & Ten Years from Now (2022)

201	2 Educatio	onal Attain	ment of T	nose Aged	25+ in Sa	n Diego Co	ounty
100% -							
80% -							
60% -							
40% -							
20% -							
0% -	County Total	African Am.	Asian/ Pac.Isl.	Hispanic	Multi- Ethnic	Native Am.	White
■BA+	33.5%	22.5%	44.8%	14.3%	32.3%	14.1%	41.8%
AA Deg	8.6%	11.2%	9.3%	6.5%	9.1%	9.0%	9.3%
■Some Coll	23.1%	32.4%	18.3%	18.9%	28.7%	27.3%	25.3%
■HS Grad	19.0%	23.8%	15.3%	21.3%	18.4%	24.7%	18.3%
Less than HS	15.8%	10.0%	12.3%	39.1%	11.6%	24.9%	5.3%
% Total Pop	100.0%	4.6%	12.1%	27.3%	1.9%	0.4%	53.7%
Total Pop	2,075,400	95,083	251,842	566,096	39,664	9,167	1,113,548

Source: Economic Modeling Specialists Inc (EMSI)



2022 Educational Attainment of Those Aged 25+ in San Diego County

Source: Economic Modeling Specialists Inc (EMSI)

- EMSI forecasts that the county's 25+ population will grow by over 216,000 (10.4%) in the next 10 years.
- Next, we will explore where that 216,435 in population growth came from...

# Where the 216,435 in Age 25+ Population Growth Came from...



2012-2022 Growth in Educational Attainment Counts of Those Aged 25+ in San Diego County

Source: Economic Modeling Specialists Inc (EMSI)

- 23.4% of the growth was attributable to those attaining a Bachelor's or higher;
- The lion's share of that BA+ growth was attributable to Asians (9.2%), Multi-Ethnics (7%) and Hispanics (5.6%);
- At the other end of the education scale, those with Less Than High School accounted for 32.2% of growth;
- By far the majority of that 32.2% Less Than HS growth was attributable to Hispanics (26.5%);
- As a group, Hispanics accounted for over half (52.5%) of the 216,435 Age 25+ growth.

## What We've Learned So Far...



Pop Group WSCH

- The District 's Aged 18+ population will grow by 51,775 (8.6%) between 2012 and 2022.
- Two thirds of that growth (35,268 or 68%) comes from the 65+ age group the District grows much greyer.
- The Aged 18-20 population will <u>decline</u> by 532 (a negative 1.0% growth rate).
- 18-20 African Americans and Whites will decline between now and 2022 (by 0.4% and 3.6% respectively).
- 18-20 Multi-Ethnic growth (3.0%) failed to balance out the 4.0% decline in African Americans and Whites.
- As a group, 18+ Hispanics accounted for 30,894 (59.7%) of District population growth.
- 18-20's represent only 5.66% of District Pop but generated almost half (45.50%) of 2011-12 Credit WSCH.
- That is to say, 18-20 Credit WSCH "share" was **8.04** times greater than their population share (45.5 / 5.66).
- For 18-20 Hispanics, their Credit WSCH share was 7.78 times greater than their Pop share (18.97 / 2.44).
- That **7.78** multiple for 18-20 Hispanics falls only slightly short of the **8.16** multiple for 18-20 Whites.
- The Credit participation rate of 18-20 Hispanics (170) is almost at parity with that of 18-20 Whites (174).
- As shown in the prior section, EMSI forecasts a 1% decline in the District's18-20 population group by 2022.
- Per the Census Bureau's 2007-11 American Community Survey:
  - almost two-fifths (38.2%) of the District's Aged 25+ population had an AA/AS or higher;
  - about one-quarter (24.5%) had at least "some" college;
  - over one-fifth (21.9%) had graduated from high school;
  - fewer than one of every six (15.4%) had less than a high school education.
- The South Planning Area stood out as having 52% AA/AS or higher versus 32% in the other Areas.
- EMSI forecasts growth of 216,435 (10.4%) for San Diego County's 25+ Pop between 2012 & 2022.
- 23.4% of that growth was attributable to those who had attained a Bachelor's or higher.
- The lion's share of that BA+ growth was attributable to Asians (9.2%), Multi-Ethnics (7%) and Hispanics (5.6%).
- Those with less than high school accounted for 32.2% of growth of which 26.5% was Hispanic.
- As a group, Hispanics accounted for over half (52.5%) of the 216,435 San Diego County's Age 25+ growth.



Pop Ed Level - fr • The Sou • EMSI fo

## Job Growth



## San Diego County Job Growth By Industry

(Literally EVERY San Diego Business Is Classified Into One of the 21 Industry Groups Below)

NAICS		Jobs	Jobs		Pct
Code	Industry	2012	2022	Change	Change
62	1. Health Care and Social Assistance	154,737	185,731	30,994	20%
54	2. Professional, Scientific, and Technical Services	190,013	220,353	30,340	16%
72	3. Accommodation and Food Services	144,646	171,352	26,706	18%
52	4. Finance and Insurance	92,959	116,405	23,446	25%
44-45	5. Retail Trade	168,722	188,605	19,883	12%
56	6. Admin & Support & Waste Mgmnt & Remediation Svcs	115,830	134,766	18,936	16%
53	7. Real Estate and Rental and Leasing	105,325	123,033	17,708	17%
23	8. Construction	84,981	102,196	17,215	20%
81	9. Other Services (except Public Administration)	115,493	130,388	14,895	13%
61	10. Educational Services (Private)	40,962	53,568	12,606	31%
42	11. Wholesale Trade	46,053	53,066	7,013	15%
71	12. Arts, Entertainment, and Recreation	46,020	51,783	5,763	13%
31-33	13. Manufacturing	97,790	102,432	4,642	5%
55	14. Management of Companies and Enterprises	18,902	22,803	3,901	21%
48-49	15. Transportation and Warehousing	29,006	32,835	3,829	13%
11	16. Agriculture, Forestry, Fishing and Hunting	17,548	18,560	1,012	6%
22	17. Utilities	7,436	8,402	966	13%
99	18. Unclassified Industry	6,037	6,963	926	15%
51	19. Information	31,120	31,881	761	2%
21	20. Mining, Quarrying, and Oil and Gas Extraction	993	1,171	178	18%
90	21. Government	335,892	335,108	-784	0%
	Totals:	1,850,465	2,091,401	240,935	13%

Source: Economic Modeling Specialists Inc (EMSI)::Complete Employment - 2013.1 Final Release

- EMSI forecasts that San Diego County industries will add 241,000 new jobs in the next 10 years.
- However "new" jobs don't tell the whole story...

## County Job Openings 2012 to 2022



San Diego County Job Openings 2012 to 2022

Source: Economic Modeling Specialists Inc (EMSI)::Complete Employment - 2013.1 Final Release

- EMSI forecasts that New (241K) plus Replacement (428K) jobs will grow to 669,000 by the year 2022.
- That 10-year growth number translates into 66,900 annual job openings (669,000 / 10).

## Openings With Required Education: On-The-Job Training

(Openings at This Ed Level Represent 43,767 (65.5%) of the 66,900 Annual Openings.)

	The Top-	25 Such Occupations in Terms of <b>Most Openings</b> Are as Follows:		Median	52 Wks
			Annual	Hourly	@ 40 Hrs
	SOC	Occupation Description	Openings	Earnings	Per Wk
(1)	41-2031	Retail Salespersons	2,114	\$11.27	\$23.4K
(2)	35-3031	Waiters and Waitresses	1,868	\$8.89	\$18.5K
(3)	41-2011	Cashiers	1,860	\$9.42	\$19.6K
(4)	35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	1,475	\$9.14	\$19.0K
(5)	43-9061	Office Clerks, General	1,127	\$14.18	\$29.5K
(6)	37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	1,011	\$11.43	\$23.8K
(7)	37-2012	Maids and Housekeeping Cleaners	999	\$10.12	\$21.0K
(8)	39-9011	Childcare Workers	903	\$8.91	\$18.5K
(9)	43-4051	Customer Service Representatives	889	\$17.04	\$35.4K
(10)	53-7062	Laborers and Freight, Stock, and Material Movers, Hand	820	\$12.22	\$25.4K
(11)	11-9141	Property, Real Estate, and Community Association Managers	663	\$17.75	\$36.9K
(12)	11-9199	Managers, All Other	633	\$25.54	\$53.1K
(13)	43-5081	Stock Clerks and Order Fillers	615	\$10.64	\$22.1K
(14)	41-1011	First-Line Supervisors of Retail Sales Workers	596	\$15.69	\$32.6K
(15)	43-1011	First-Line Supervisors of Office and Administrative Support Workers	591	\$24.86	\$51.7K
(16)	35-2021	Food Preparation Workers	575	\$9.56	\$19.9K
(17)	37-3011	Landscaping and Groundskeeping Workers	541	\$11.44	\$23.8K
(18)	43-4171	Receptionists and Information Clerks	507	\$13.85	\$28.8K
(19)	35-2014	Cooks, Restaurant	507	\$11.39	\$23.7K
(20)	35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	495	\$9.19	\$19.1K
(21)	43-3031	Bookkeeping, Accounting, and Auditing Clerks	483	\$18.49	\$38.5K
(22)	41-3099	Sales Representatives, Services, All Other	427	\$25.92	\$53.9K
(23)	39-9021	Personal Care Aides	421	\$10.39	\$21.6K
(24)	33-9032	Security Guards	415	\$11.83	\$24.6K
(25)	49-9071	Maintenance and Repair Workers, General	408	\$16.46	\$34.2K

Me	Median Hourly Earnings				
Low	<u>High</u>				
\$29.63	\$91.66	Top 25%			
\$20.49	\$29.36	Upper Middle 25%			
\$14.59	\$20.47	Lower Middle 25%			
\$6.24	\$14.57	Bottom 25%			

Source: Economic Modeling Specialists Inc (EMSI)::Complete Employment - 2013.1 Final Release

Note: Highlighted occupations are ones for which Palomar offers awards in CIP code(s) that feed into that SOC code.

## Openings With Required Education: Postsecondary Certificate

(Openings at This Ed Level Represent 4,826 (7.2%) of the 66,900 annual openings.)

	The Top-	25 Such Occupations in Terms of <b>Most Openings</b> Are as Follows:		Median	52 Wks
			Annual	Hourly	@ 40 Hrs
	SOC	Occupation Description	Openings	Earnings	Per Wk
(1)	41-9022	Real Estate Sales Agents	1,903	\$13.95	\$29.0K
(2)	31-1012	Nursing Aides, Orderlies, and Attendants	388	\$12.29	\$25.6K
(3)	39-5012	Hairdressers, Hairstylists, and Cosmetologists	359	\$11.02	\$22.9K
(4)	29-2061	Licensed Practical and Licensed Vocational Nurses	266	\$23.30	\$48.5K
(5)	49-3023	Automotive Service Technicians and Mechanics	230	\$17.16	\$35.7K
(6)	49-2022	Telecom Equipment Installers and Repairers, Except Line Installers	134	\$25.46	\$53.0K
(7)	31-9011	Massage Therapists	123	\$14.29	\$29.7K
(8)	39-5092	Manicurists and Pedicurists	120	\$8.83	\$18.4K
(9)	31-9091	Dental Assistants	116	\$17.53	\$36.5K
(10)	51-4121	Welders, Cutters, Solderers, and Brazers	104	\$19.63	\$40.8K
(11)	39-9031	Fitness Trainers and Aerobics Instructors	101	\$17.94	\$37.3K
(12)	33-2011	Firefighters	100	\$30.44	\$63.3K
(13)	49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	88	\$22.59	\$47.0K
(14)	29-2041	Emergency Medical Technicians and Paramedics	76	\$12.63	\$26.3K
(15)	43-6012	Legal Secretaries	67	\$21.73	\$45.2K
(16)	25-4031	Library Technicians	64	\$17.60	\$36.6K
(17)	29-2071	Medical Records and Health Information Technicians	61	\$17.71	\$36.8K
(18)	49-2011	Computer, Automated Teller, and Office Machine Repairers	57	\$16.58	\$34.5K
(19)	49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	50	\$21.84	\$45.4K
(20)	29-2799	Health Technologists and Technicians, All Other	44	\$22.40	\$46.6K
(21)	39-5094	Skincare Specialists	39	\$13.85	\$28.8K
(22)	39-5011	Barbers	35	\$12.42	\$25.8K
(23)	49-3011	Aircraft Mechanics and Service Technicians	34	\$26.21	\$54.5K
(24)	31-9094	Medical Transcriptionists	34	\$16.59	\$34.5K
(25)	49-2094	Electrical & Electronics Repairers, Commercial & Industrial Equipment	29	\$25.15	\$52.3K

Me	Median Hourly Earnings				
Low	<u>High</u>				
\$29.63	\$91.66	Top 25%			
\$20.49	\$29.36	Upper Middle 25%			
\$14.59	\$20.47	Lower Middle 25%			
\$6.24	\$14.57	Bottom 25%			

Source: Economic Modeling Specialists Inc (EMSI)::Complete Employment - 2013.1 Final Release

Note: Highlighted occupations are ones for which Palomar offers awards in CIP code(s) that feed into that SOC code.

## Openings With Required Education: Associate's Degree

(Openings at This Ed Level Represent 2,466 (3.7%) of the 66,900 annual openings.)

	The Top-	25 Such Occupations in Terms of <b>Most Openings</b> Are as Follows:		Median	52 Wks
			Annual	Hourly	@ 40 Hrs
	<u>SOC</u>	Occupation Description	Openings	Earnings	Per Wk
(1)	29-1111	Registered Nurses	780	\$40.01	\$83.2K
(2)	15-1159	Computer Support Specialists	279	\$23.41	\$48.7K
(3)	25-2011	Preschool Teachers, Except Special Education	168	\$14.30	\$29.7K
(4)	13-2021	Appraisers and Assessors of Real Estate	152	\$19.28	\$40.1K
(5)	23-2011	Paralegals and Legal Assistants	122	\$29.09	\$60.5K
(6)	19-4099	Life, Physical, and Social Science Technicians, All Other	88	\$25.53	\$53.1K
(7)	17-3023	Electrical and Electronics Engineering Technicians	81	\$28.11	\$58.5K
(8)	29-2037	Radiologic Technologists and Technicians	73	\$31.88	\$66.3K
(9)	29-2012	Medical and Clinical Laboratory Technicians	57	\$18.57	\$38.6K
(10)	29-2021	Dental Hygienists	55	\$43.56	\$90.6K
(11)	19-4031	Chemical Technicians	52	\$24.39	\$50.7K
(12)	19-4091	Environmental Science and Protection Technicians, Including Health	46	\$21.70	\$45.1K
(13)	29-2056	Veterinary Technologists and Technicians	45	\$17.26	\$35.9K
(14)	17-3029	Engineering Technicians, Except Drafters, All Other	42	\$31.33	\$65.2K
(15)	29-1126	Respiratory Therapists	40	\$30.13	\$62.7K
(16)	29-2032	Diagnostic Medical Sonographers	30	\$40.77	\$84.8K
(17)	17-3022	Civil Engineering Technicians	27	\$27.72	\$57.7K
(18)	17-3011	Architectural and Civil Drafters	27	\$25.10	\$52.2K
(19)	31-2021	Physical Therapist Assistants	24	\$23.96	\$49.8K
(20)	17-3026	Industrial Engineering Technicians	24	\$23.59	\$49.1K
(21)	49-9062	Medical Equipment Repairers	24	\$23.56	\$49.0K
(22)	17-3013	Mechanical Drafters	19	\$24.88	\$51.8K
(23)	53-2021	Air Traffic Controllers	17	\$64.04	\$133.2K
(24)	17-3024	Electro-Mechanical Technicians	17	\$26.69	\$55.5K
(25)	17-3027	Mechanical Engineering Technicians	16	\$22.03	\$45.8K

Median Hourly Earnings				
Low	<u>High</u>			
\$29.63	\$91.66	Top 25%		
\$20.49	\$29.36	Upper Middle 25%		
\$14.59	\$20.47	Lower Middle 25%		
\$6.24	\$14.57	Bottom 25%		

Source: Economic Modeling Specialists Inc (EMSI)::Complete Employment - 2013.1 Final Release

Note: Highlighted occupations are ones for which Palomar offers awards in CIP code(s) that feed into that SOC code.

## Openings With Required Education: Bachelor's or Higher

(Openings at This Ed Level Represent 15,790 (23.6%) of the 66,900 annual openings.)

	The Top-	25 Such Occupations in Terms of <b>Most Openings</b> Are as Follows:		Median	52 Wks
			Annual	Hourly	@ 40 Hrs
	SOC	Occupation Description	Openings	Earnings	Per Wk
(1)	13-2052	Personal Financial Advisors	1,019	\$30.01	\$62.4K
(2)	41-3031	Securities, Commodities, and Financial Services Sales Agents	877	\$23.98	\$49.9K
(3)	13-1111	Management Analysts	583	\$31.86	\$66.3K
(4)	25-1099	Postsecondary Teachers	559	\$34.77	\$72.3K
(5)	13-2011	Accountants and Auditors	536	\$30.73	\$63.9K
(6)	11-1021	General and Operations Managers	470	\$52.20	\$108.6K
(7)	13-1161	Market Research Analysts and Marketing Specialists	400	\$29.23	\$60.8K
(8)	25-3999	Teachers and Instructors, All Other	393	\$20.09	\$41.8K
(9)	23-1011	Lawyers	359	\$49.45	\$102.9K
(10)	11-3031	Financial Managers	330	\$44.49	\$92.5K
(11)	25-2021	Elementary School Teachers, Except Special Education	280	\$31.47	\$65.5K
(12)	25-2031	Secondary School Teachers, Except Special & Career/Technical Ed	257	\$32.49	\$67.6K
(13)	15-1132	Software Developers, Applications	237	\$44.45	\$92.5K
(14)	11-2022	Sales Managers	224	\$43.83	\$91.2K
(15)	27-1024	Graphic Designers	224	\$19.61	\$40.8K
(16)	15-1133	Software Developers, Systems Software	213	\$47.32	\$98.4K
(17)	19-1042	Medical Scientists, Except Epidemiologists	199	\$37.29	\$77.6K
(18)	15-1121	Computer Systems Analysts	197	\$37.00	\$77.0K
(19)	41-4011	Sales Reps, Wholesale and Manufacturing, Tech & Scientific Products	188	\$33.70	\$70.1K
(20)	39-9032	Recreation Workers	185	\$11.23	\$23.4K
(21)	27-3091	Interpreters and Translators	180	\$21.19	\$44.1K
(22)	11-1011	Chief Executives	173	\$60.33	\$125.5K
(23)	27-3043	Writers and Authors	172	\$17.22	\$35.8K
(24)	13-2051	Financial Analysts	169	\$35.04	\$72.9K
(25)	11-2021	Marketing Managers	164	\$48.81	\$101.5K

Median Hourly Earnings					
Low	<u>High</u>				
\$29.63	\$91.66	Top 25%			
\$20.49	\$29.36	Upper Middle 25%			
\$14.59	\$20.47	Lower Middle 25%			
\$6.24	\$14.57	Bottom 25%			

Source: Economic Modeling Specialists Inc (EMSI)::Complete Employment - 2013.1 Final Release

Note: Highlighted occupations are ones for which Palomar offers awards in CIP code(s) that feed into that SOC code.

## What We've Learned So Far...



Pop Group WSCH

Pop Ed Level

- The District 's Aged 18+ population will grow by 51,775 (8.6%) between 2012 and 2022.
- Two thirds of that growth (35,268 or 68%) comes from the 65+ age group the District grows much greyer.
- The Aged 18-20 population will <u>decline</u> by 532 (a negative 1.0% growth rate).
- 18-20 African Americans and Whites will decline between now and 2022 (by 0.4% and 3.6% respectively).
- 18-20 Multi-Ethnic growth (3.0%) failed to balance out the 4.0% decline in African Americans and Whites.
- As a group, 18+ Hispanics accounted for 30,894 (59.7%) of District population growth.
- 18-20's represent only 5.66% of District Pop but generated almost half (45.50%) of 2011-12 Credit WSCH.
- That is to say, 18-20 Credit WSCH "share" was **8.04** times greater than their population share (45.5 / 5.66).
- For 18-20 Hispanics, their Credit WSCH share was 7.78 times greater than their Pop share (18.97 / 2.44).
- That **7.78** multiple for 18-20 Hispanics falls only slightly short of the **8.16** multiple for 18-20 Whites.
- The Credit participation rate of 18-20 Hispanics (170) is almost at parity with that of 18-20 Whites (174).
- As shown in the prior section, EMSI forecasts a 1% decline in the District's18-20 population group by 2022.
- Per the Census Bureau's 2007-11 American Community Survey:
  - almost two-fifths (38.2%) of the District's Aged 25+ population had an AA/AS or higher;
  - about one-quarter (24.5%) had at least "some" college;
  - over one-fifth (21.9%) had graduated from high school;
  - fewer than one of every six (15.4%) had less than a high school education.
- The South Planning Area stood out as having 52% AA/AS or higher versus 32% in the other Areas.
- EMSI forecasts growth of 216,435 (10.4%) for San Diego County's 25+ Pop between 2012 & 2022.
- 23.4% of that growth was attributable to those who had attained a Bachelor's or higher.
- The lion's share of that BA+ growth was attributable to Asians (9.2%), Multi-Ethnics (7%) and Hispanics (5.6%).
- Those with less than high school accounted for 32.2% of growth of which 26.5% was Hispanic.
- As a group, Hispanics accounted for over half (52.5%) of the 216,435 San Diego County's Age 25+ growth.
- EMSI forecasts that New (241K) plus Replacement (428K) jobs will grow to 669,000 by the year 2022.
- That 10-year growth number translates into 66,900 annual job openings.
- Looking at those 66,900 annual openings in terms of the level of education they require reveals that:
  - 65.5% require only On-the-Job Training; 3.7% require an Associate's Degree;
  - 7.2% require a Postsecondary Certificate; 23.6% require a Bachelor's or Higher.
- As we've always known, each step up the education ladder is associated with increased earnings.









## **Thank You**



