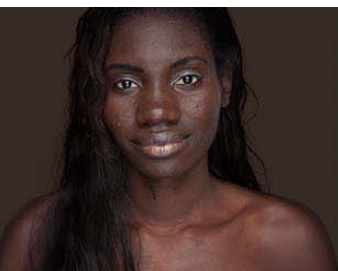


People: Estimates, Projections & Forecasting

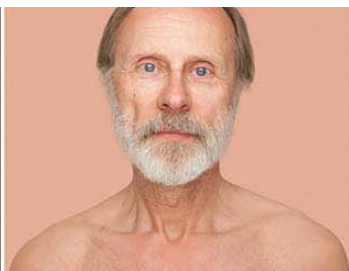
Terry Eagan – Project Manager



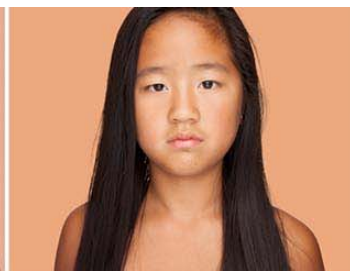
Hillsborough County
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Planning Commission



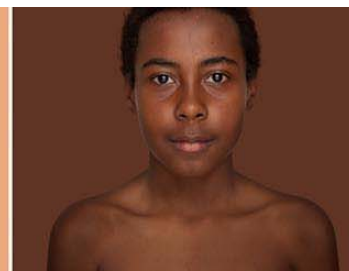
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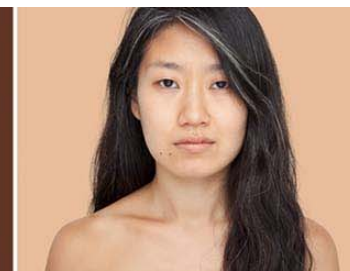
PANTONE 75-7 C



PANTONE 57-5 C



PANTONE 320-2 C



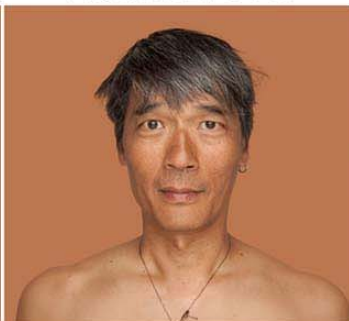
PANTONE 53-7 C



PANTONE 59-5 C



PANTONE 317-3 C



PANTONE 64-5 C



PANTONE 51-5 C



PANTONE 58-6 C



PANTONE 97-7 C



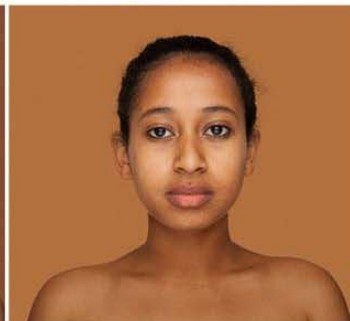
PANTONE 66-5 C



PANTONE 51-6 C



PANTONE 318-5 C



PANTONE 52-3 C



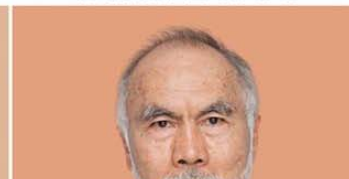
PANTONE 57-8 C



PANTONE 71-5 C



PANTONE 57-7 C





PANTONE. 66-3 C

PANTONE. 51-6 C

PANTONE. 80-6 C

PANTONE. 321-2 C

PANTONE. 59-5 C

PANTONE. 35-11 C

PANTONE. 51-4 C

PANTONE. 74-8 C

PANTONE. 44-3 C

PANTONE. 51-7 C

PANTONE. 51-7 C

PANTONE. 67-5 C

PANTONE. 91-8 C

PANTONE. 316-5 C

PANTONE. 58-7 C

PANTONE. 58-7 C

PANTONE. 55-4 C

PANTONE. 56-6 C

PANTONE. 65-5 C

PANTONE. 38-9 C

PANTONE. 321-6 C

PANTONE. 321-6 C

PANTONE. 58-4 C

PANTONE. 75-9 C

PANTONE. 38-7 C

PANTONE. 62-7 C

PANTONE. 321-7 C

PANTONE. 59-3 C

PANTONE. 62-6 C

PANTONE. 36-14 C

PANTONE. 57-6 C

PANTONE. 52-4 C

PANTONE. 52-4 C

PANTONE. 92-9 C

PANTONE. 54-7 C

PANTONE. 4625 C

PANTONE. 70-5 C

PANTONE. 50-7 C

PANTONE. 59-4 C

PANTONE. 322-1 C

PANTONE. 75-8 C

PANTONE. 70-6 C

PANTONE. 319-7 C

PANTONE. 319-7 C

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PANTONE. 38-8 C

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PANTONE. 318-3 C

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Measuring Population Change

- Annual Estimates
 1. BEBR, Census Population, American Community Survey
- Population Projections
 1. Linear
- Forecasting
 1. BEBR, Woods & Poole and others.

Accuracy

- Decennial Census (Accurate)
- Census Population Estimates (Accurate – National)
- BEBR (Historically Accurate)
- Woods and Poole (Based on 2015 Vintage Estimates)

How accurate is accurate?

- Replicable
- April 1 vs June 1.
- Increased cost \neq increased accuracy
- Art \neq science
- Medium:Medium

How accurate is accurate?



Or, if you prefer tables...

BEBR's 2001 Forecast vs. Reality

Hillsborough County	2000	2005	2010	2015	2020	2025	2030
2000 Census	998,948						
BEBR Low	953,500	984,600	991,700	989,900	977,900	954,800	919,400
BEBR Medium	982,400	1,075,400	1,153,100	1,233,000	1,314,100	1,392,500	1,464,100
BEBR High	1,012,500	1,179,300	1,341,700	1,516,200	1,701,300	1,895,400	2,095,000
2010 Census			1,229,226				

Bureau of Economic and Business Research, Florida Population by County: 2000-2030; v.34 (1).

BEBR's 2001 Forecast vs. Reality

Pasco County	2000	2005	2010	2015	2020	2025	2030
2000 Census	344,765						
BEBR Low	322,000	343,300	348,300	349,800	347,600	341,100	329,900
BEBR Medium	331,800	374,700	404,600	435,100	466,300	496,600	524,200
BEBR High	341,900	411,200	471,300	535,800	604,800	677,200	751,800
2010 Census			464,697				

BEBR's 2001 Forecast vs. Reality

Pinellas County	2000	2005	2010	2015	2020	2025	2030
2000 Census	921,482						
BEBR Low	877,400	869,200	840,900	809,100	773,500	733,600	688,300
BEBR Medium	904,300	952,600	983,900	1,016,000	1,049,200	1,081,500	1,110,700
BEBR High	931,600	1,041,200	1,137,700	1,239,200	1,345,700	1,456,200	1,568,400
2010 Census			916,542				

Closer years are easier than further years

1. Employment Data
2. Population Data
3. Household Formation

Employment Data

1. Forecast

- BEBR (no)
- Woods and Poole (yes)
- Department of Economic Opportunity (some)
- Bureau of Labor Statistics (some)

Employment Data

2. NAICS vs Standard Occupational Classification

- Woods and Poole (yes)
- DEO (no)
- Bureau of Labor Statistics (no)

FDOT vs W&P

HILLSBOROUGH COUNTY	2010		2015	
FARM EMPLOYMENT	10095		8307	
NON-FARM EMPLOYMENT	742328		866326	
PRIVATE NON-FARM EMPLOYMENT	653982		777618	
FORESTRY, FISHING, RELATED ACTIVITIES and OTHER EMPLOYMENT	3019		2913	11300
MINING EMPLOYMENT	873	300	831	700
UTILITIES EMPLOYMENT	2665		2765	2800
CONSTRUCTION EMPLOYMENT	36309	37600	45884	43500
MANUFACTURING EMPLOYMENT	24966	42500	27887	27200
WHOLESALE TRADE EMPLOYMENT	31714	39234	37609	35700
RETAIL TRADE EMPLOYMENT	75095	82905	90830	87100
TRANSPORTATION and WAREHOUSING EMPLOYMENT	20664	19500	26311	25500
INFORMATION EMPLOYMENT	19913	19000	19554	18700
FINANCE and INSURANCE EMPLOYMENT	61206	41600	73769	68800
REAL ESTATE/RENTAL/LEASE	31980	20800	39831	34100
PROFESSIONAL/TECHNICAL SERVICES	65914	49800	78635	73800
MANAGEMENT of COMPANIES and ENTERPRISES EMPLOYMENT	7728	8100	12659	12100
ADMINISTRATIVE and WASTE SERVICES	69750	46700	79508	73700
EDUCATIONAL SERVICES	14691		17831	
HEALTH CARE and SOCIAL ASSISTANCE	79405	87200	88952	91100
ARTS, ENTERTAINMENT, and RECREATION EMPLOYMENT	19378	16000	22310	20900
ACCOMMODATION and FOOD SERVICES	49227	59100	61280	63800
OTHER SERVICES, EXCEPT PUBLIC ADMINISTRATION EMPLOYMENT	39485	31400	48259	41600
TOTAL GOVERNMENT EMPLOYMENT	88346		88708	
FEDERAL CIVILIAN GOVERNMENT	14889		14620	
FEDERAL MILITARY EMPLOYMENT	8330		8062	8100
STATE & LOCAL GOVERNMENT	65127		66026	
WOODS AND POOL				
FDOT				

Hillsborough Employment Forecast

HILLSBOROUGH COUNTY	2006	2010	2015	2020	2025	2030	2035	2040	2045	2050
FARM EMPLOYMENT	9757	10095	8307	8521	8675	8772	8811	8794	8720	8592
NON-FARM EMPLOYMENT	800783	742328	866326	954562	1044014	1131289	1213876	1294521	1376519	1460429
PRIVATE NON-FARM EMPLOYMENT	716873	653982	777618	860465	944613	1026737	1104351	1180193	1257479	1336712
FORESTRY, FISHING, RELATED ACTIVITIES and OTHER EMPLOYMENT	3608									
		3019	2913	3172	3448	3732	4026	4330	4635	4922
MINING EMPLOYMENT	835	873	831	864	899	934	969	1006	1043	1081
UTILITIES EMPLOYMENT	3159	2665	2765	2903	3112	3329	3537	3728	3903	4066
CONSTRUCTION EMPLOYMENT	58679	36309	45884	53536	59955	64166	66855	69045	71684	74823
MANUFACTURING EMPLOYMENT	34758	24966	27887	27867	27652	27365	27046	26708	26359	26003
WHOLESALE TRADE EMPLOYMENT	35718	31714	37609	40155	41951	43602	44997	46035	46764	47269
RETAIL TRADE EMPLOYMENT	84235	75095	90830	101980	111380	121219	131640	142649	154233	166460
TRANSPORTATION and WAREHOUSING EMPLOYMENT	23672									
		20664	26311	25092	25494	26121	26665	27042	27262	27358
INFORMATION EMPLOYMENT	24274	19913	19554	20505	21452	22396	23342	24293	25251	26219

Department of Economic Employment

FASTEST-GROWING OCCUPATIONS

Workforce Development Area 15 - Hillsborough County								2016	
			2016 - 2024				Median		
Occupation			Employment		Percent	Total Job	Hourly		
Rank	Code	Title	2016	2024	Growth	Growth	Openings*	Wage (\$)**	Education Level
1	536021	Parking Lot Attendants	892	1,304	412	46.2	819	9.59	Less than High School
2	392021	Nonfarm Animal Caretakers	998	1,350	352	35.3	511	11.53	Less than High School
3	291071	Physician Assistants	501	677	176	35.1	264	44.92	Bachelor's Degree
4	291171	Nurse Practitioners	688	921	233	33.9	361	44.81	Master's or Higher Degree
5	311011	Home Health Aides	1,365	1,783	418	30.6	661	10.81	Postsecondary Vocational
6	152031	Operations Research Analysts	647	839	192	29.7	279	29.69	Master's or Higher Degree
7	151121	Computer Systems Analysts	2,855	3,648	793	27.8	1,077	38.57	Associate Degree
8	251071	Health Specialties Teachers, Postsecondary	1,280	1,633	353	27.6	530	39.74	Master's or Higher Degree
9	251072	Nursing Instructors and Teachers, Postsecondary	425	541	116	27.3	175	42.96	Master's or Higher Degree
10	472051	Cement Masons and Concrete Finishers	1,057	1,342	285	27.0	390	14.51	Postsecondary Vocational

Alternative

- Population to Job Ratios

<i>Hillsborough County</i>			
Year	Population	Employment	<i>Empl:Pop Ratio</i>
2010	1,229,226	711,400	58%
2030	1,643,481	986,046	60%
2040	1,815,964	1,112,059	61%

<i>Pinellas County</i>		<i>Trend Forecast</i>		
Year	Population	Employment	<i>Empl:Pop Ratio</i>	
2010	916,542	516,900	56%	
2030	958,401	549,003	57%	
2040	980,440	566,366	58%	

People: Estimates, Projections & Forecasting

Terry Eagan – Project Manager



Hillsborough County
City-County
Planning Commission