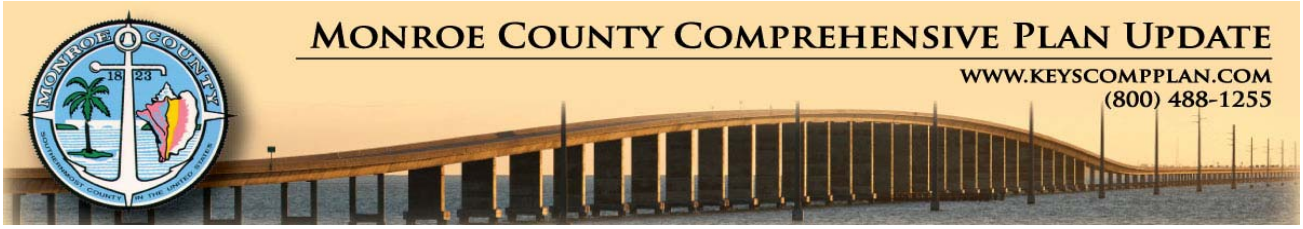
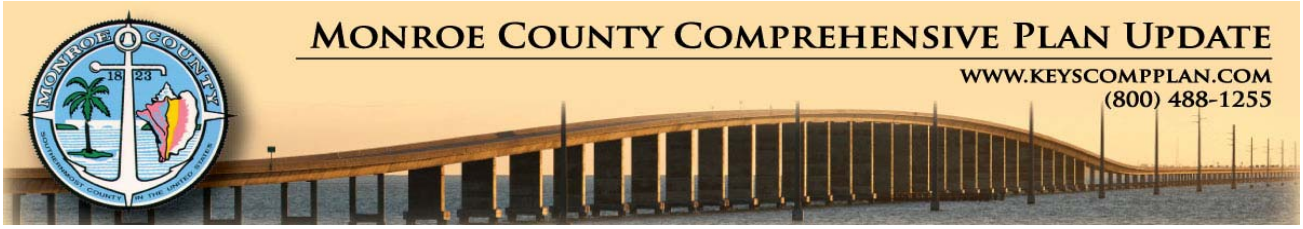


Monroe County 2010-2030

Population Projections

March 15, 2011



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Appendix 1 – Monroe County Planning Department Population Study

Appendix 2 - FKAA Seasonal Methodology

Appendix 3 - County Population with Seasonal Replacement Calculations

Appendix 4 – Response to DCA Review Notes/Request for Additional Information

1.0 Background - Forecast Approach

The population forecast was prepared[1] for unincorporated Monroe County through year 2030 for the update of the County's Comprehensive Plan. Population is identified according to upper/middle/lower (UML) keys. It is based on the countywide functional population control total forecast through 2030; functional population is the sum of permanent plus seasonal population.

The Keith and Schnars (K&S) team begins with a permanent population forecast and a seasonal population forecast at the county level. The seasonal population series is based on the Florida Keys Aqueduct Authority (FKAA) data series. This series includes estimates of seasonal residences, RV's, hotel/motel, camps, boat liveaboards, mobile home, and other. The Department of Community Affairs (DCA) has recommended using the FKAA series for the purposes of estimating the seasonal population component, with appropriate updates to the methodology.

The permanent population series is the latest published by the University of Florida, Bureau of Economic and Business Research (BEBR). In as much as ROGO has been in place since 1993, BEBR population projections reflect a ROGO constrained growth trend. This means permanent population growth projections implicitly assume the continuation of the ROGO constraint and the effects of the ROGO constraint are implicitly embedded in the history.

2.0 ROGO Based Permanent Population Series

The ROGO based permanent population series will be used in the Comp Plan update as one component of the functional population. At the county level, for control totals, DCA has recommended using the latest BEBR annual estimates and the BEBR Medium series population projections from PS 156, published March 2010 for permanent population estimates.

3.0 Analysis of Permanent Population Data

University of Florida annual population estimates for municipalities and unincorporated areas indicates permanent population fell in the Keys from 2006-2008, with some a return to growth evidenced in 2009. The effect of the short term decline is to drive the long term population projections down. Thus, both recent history and future projections from BEBR suggest a downward trend in permanent population. This is reflected in the resulting Functional Population series shown in Fi**gure 1**. This series represents the sum of the most recent BEBR permanent projection and the FKAA seasonal projection.

[1] The population forecast was prepared by Fishkind and Associates with support from Keith and Schnars, P.A.

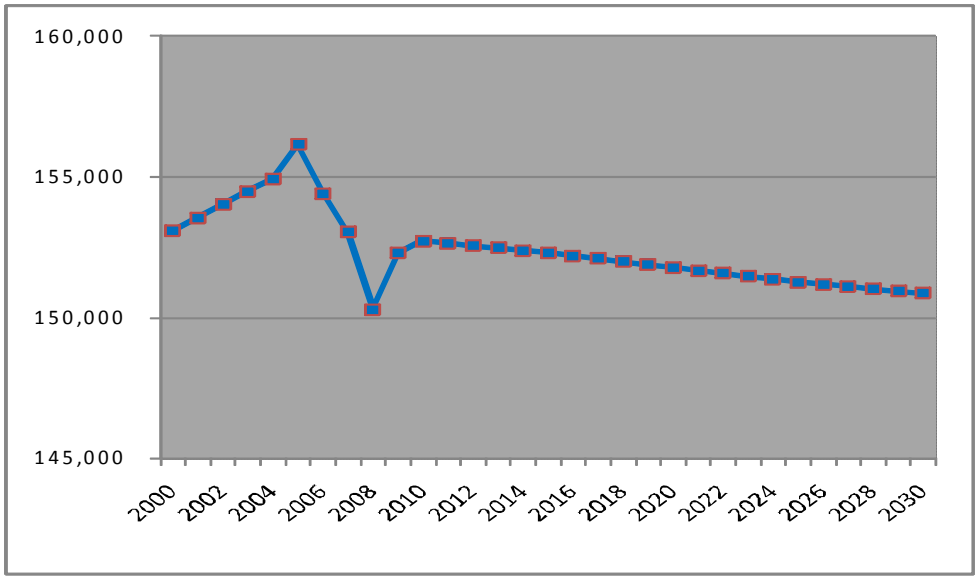

Figure 1 – Preliminary Functional Population Projection

4.0 Analysis of Seasonal Population Data

There is ongoing ROGO based residential growth and there is a substantial inventory of non-conforming, substandard, live-aboard and RV camp housing. Substandard, non-conforming units are being gradually removed from inventory, however, not at a rate fast enough to net out all residential growth. It is our view a portion of the permanent population losses have occurred as a result of the recession, a rise in foreclosures, depletion of affordable housing and increased unemployment. Nearly 3,500 units have been foreclosed throughout the Keys since 2005. The rise in home prices and threat of hurricanes has also contributed in our view to some permanent population loss. Losses associated with some of these conditions may be temporary, resulting in renewed growth after the recession. The BEBR annual permanent population estimate for 2009 indicated, net positive permanent population growth in 2009 and small losses in 2010.

On the other hand, of all the new single family housing growth in Monroe County since 1999, nearly 70% has been in non-homesteaded units. It is likely this is a function of both growth in seasonal population as well as permanent population loss, which may cause once permanently occupied existing units to become non-homesteaded. This latter aspect represents a shift from existing permanent population to seasonal population and is why the non-homesteaded mix is so high.

5.0 Seasonality

Seasonal population is one component of Functional population. K&S has researched three functional population series. The three functional series in this analysis include permanent populations based on Census, BEBR and FKAA. In each of these scenarios the same Seasonal series, from FKAA, is used. The FKAA seasonal series is the seasonal series developed by Monroe County Planning Department (MCPD). The detailed methodology for the Seasonal series is found in the MCPD report included as Appendix 1. The FKAA seasonal series methodology generated from the MCPD report is found in **Appendix 2**.

As permanent population has fallen we must examine whether and the degree to which it is replaced by seasonal population. The American Communities Survey from 2005, 2008 and the Census 2000 data indicate a substantial increase in housing units held for seasonal use. These data indicate the number of seasonal units has risen from 12,628 in 2000 to 15,262 in 2005 to 19,195 in 2008 (**Table 2**). This is an increase of 6,567 seasonal units. This would represent a shift into seasonal population by as much as 16,418 persons. During the same period permanently occupied units have fallen from 35,086 to 29,084, some 6,002 units or a decline of 15,005 persons (**Table 1**). Based on the ACS and Census data, the loss in permanent population is approximately equivalent to the gain in seasonal population since year 2000.

Table 1- H1 – Vacant and Occupied Unit Counts

Table H1. Housing Units by Vacancy Status and Tenure by Units in Structure, 2000 - Monroe County

Monroe County Units in Structure	Occupied Units			Vacant Units	Total Units	Vacant %
	Owner	Renter	Total			
1, detached	13,866	3,496	17,362	6,850	24,212	28.29%
1, attached	1,045	1,503	2,548	1,655	4,203	39.38%
2	480	1,598	2,078	453	2,531	17.90%
3 or 4	306	1,875	2,181	589	2,770	21.26%
5 to 9	215	1,042	1,257	897	2,154	41.64%
10 to 19	403	425	828	899	1,727	52.06%
20 to 49	375	180	555	1,039	1,594	65.18%
50 or more	346	1,043	1,389	444	1,833	24.22%
Mobile home	4,468	1,945	6,413	3,401	9,814	34.65%
Boat, RV, van, etc.	396	79	475	304	779	39.02%
Total	21,900	13,186	35,086	16,531	51,617	32.03%

Table H1. Housing Units by Vacancy Status and Tenure by Units in Structure, 2005 - Monroe County

Monroe County Units in Structure	Occupied Units			Vacant Units	Total Units	Vacant %
	Owner	Renter	Total			
1, detached	16,618	2,024	18,642	7,448	26,090	28.55%
1, attached	1,427	2,106	3,533	2,978	6,511	45.74%
2	621	973	1,594	636	2,230	28.52%
3 or 4	52	1,521	1,573	638	2,211	28.86%
5 to 9	458	482	940	1,440	2,380	60.50%
10 to 19	597	46	643	505	1,148	43.99%
20 to 49	132	1,125	1,257	1,198	2,455	48.80%
50 or more	435	532	967	203	1,170	17.35%
Mobile home	2,876	1,485	4,361	3,904	8,265	47.24%
Boat, RV, van, etc.	405	46	451	0	451	0.00%
Total	23,621	10,340	33,961	18,950	52,911	35.81%

Table H1. Housing Units by Vacancy Status and Tenure by Units in Structure, 2008 - Monroe County

Monroe County Units in Structure	Occupied Units			Vacant Units	Total Units	Vacant %
	Owner	Renter	Total			
1, detached	15,019	3,344	18,363	10,351	28,714	36.05%
1, attached	490	1,233	1,723	3,209	4,932	65.06%
2	371	803	1,174	764	1,938	39.42%
3 or 4	283	699	982	1,581	2,563	61.69%
5 to 9	272	845	1,117	2,158	3,275	65.89%
10 to 19	170	202	372	1,011	1,383	73.10%
20 to 49	161	56	217	828	1,045	79.23%
50 or more	463	504	967	816	1,783	45.77%
Mobile home	2,739	1,121	3,860	4,011	7,871	50.96%
Boat, RV, van, etc.	164	145	309	0	309	0.00%
Total	20,132	8,952	29,084	24,729	53,813	45.95%

Table 2-H3

Table H3. Number of Vacant Units by Vacancy Status, 2000 - Monroe County

Monroe County Vacancy Status	Vacant Units	%
For rent	1,663	10.06%
For sale only	759	4.59%
Rented or sold, not occupied	304	1.84%
For seasonal, recreational, or occasional use	12,628	76.39%
For migrant workers	48	0.29%
Other vacant	1,129	6.83%
Total	16,531	100.00%

Table H3. Number of Vacant Units by Vacancy Status, 2005 - Monroe County

Monroe County Vacancy Status	Vacant Units	%
For rent	943	4.98%
Rented, not occupied	458	2.42%
For sale only	448	2.36%
Sold, not occupied	123	0.65%
For seasonal, recreational, or occasional use	15,738	83.05%
For migrant workers	0	0.00%
Other vacant	1,240	6.54%
Total	18,950	100.00%

Table H3. Number of Vacant Units by Vacancy Status, 2008 - Monroe County

Monroe County Vacancy Status	Vacant Units	%
For rent	1,581	6.43%
Rented, not occupied	53	0.22%
For sale only	1,545	6.28%
Sold, not occupied	441	1.79%
For seasonal, recreational, or occasional use	19,195	78.03%
For migrant workers	0	0.00%
Other vacant	1,914	7.78%
Total	24,729	100.53%

Source: US Census and American Communities Survey;
Prepared by the South Florida Regional Planning Council

Contributing to the support of the seasonal increase phenomenon is the rate of foreclosures and the Monroe County Property Appraiser data regarding homestead exemptions. It is generally believed non-homesteaded properties represent seasonal vacant, second homes, or for-rent units. Population in these should be distinguished from

short-term tourist visitors. However, in times of high foreclosure rates, a shift to non-homestead may represent a temporary loss in permanent population.

During the housing bubble from 2003-2008 in fact non-homesteaded units did rise. This coincided with a rise in foreclosures, as well as speculative investing and reported permanent population losses. There were 3,431 foreclosures in Monroe County from 2005-2009.

During the 2000-2009 period, total homesteaded units increased from 16,005 to 16,698 units, a net increase of 693 units. Non-homesteaded units moved from 20,784 to 22,197, a net increase of 1,413 units. This compares with the 3,431 foreclosures from 2005-2009, recognizing it is likely as much as half of the foreclosed units may have been resold since the initial foreclosures which began in 2005, and some tendency to for those units to return to a homesteaded status. By 2009, after speculative investing ceased, the share of non-homesteaded properties went back down, falling to 2003 levels. This is consistent with the expectation of resold foreclosures regaining homesteads (**Figure 2**). Also, as noted, permanent population increased during 2009 according to BEBR, supporting an increase in permanent population.

The non-homestead rate for all units is now 57.1%. This is essentially the same rate both pre and post bubble. Single family non-homestead rates began to move up more closely in concert with rising foreclosures (**Figure 2**). This supports our belief a considerable portion of permanent population losses may be attributable to foreclosures arising from the speculative housing bubble, and thus temporary. The expectation is some permanent population may return to these units over the course of the planning horizon – thus permanent population may increase over this period in substantially greater numbers than the growth in new housing units. To the degree this condition occurs, the BEBR medium series permanent population projection will be in error and will under-project permanent population growth. Planning for this contingency in the face of an unknown resolution to thousands of foreclosures is necessary. Thus, reflecting the population associated with portions of these foreclosed units as non-homestead and seasonal population will also correct and compensate for this potential longer term problem with the BEBR projection.

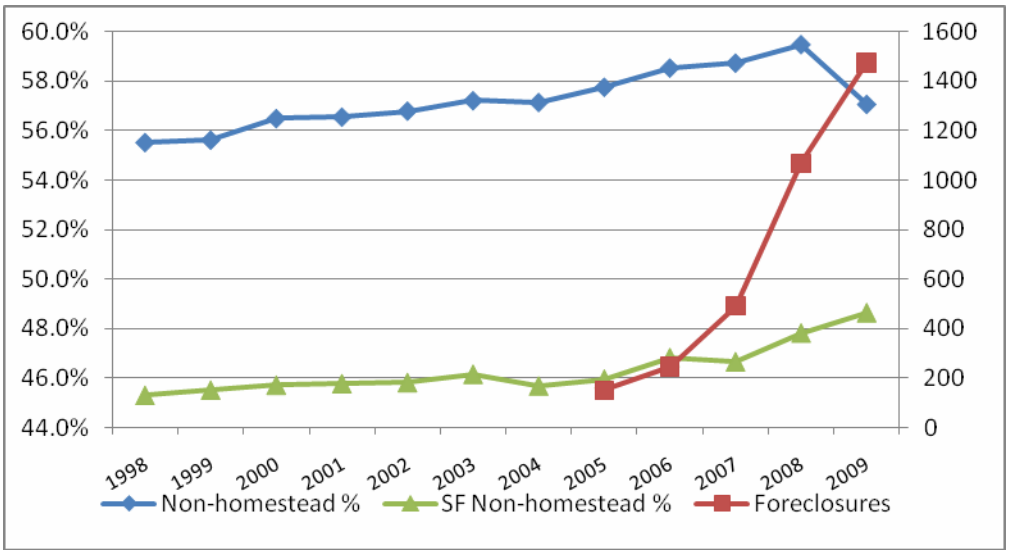

Figure 2- Monroe County – Foreclosures and The Percent of Non-Homestead Residential Units

There has been an increase in vacant units from 2005-2009. During this period both the Census and BEBR indicated permanent population loss. From 2005 to 2008 the ACS indicated an increase in seasonal vacancy of 3,457 units. During the 2005-2009 period, foreclosure data indicated there were 3,431 foreclosures, as noted earlier. Thus, the ACS data indicates, on net, the permanent population losses and associated housing vacancy is being shifted into seasonal units. Further, it is believed there is associated seasonal (non-permanent population) associated with these vacant units. With a reported permanent population growth in 2009 and increasing homestead exemptions in 2009 on one hand and coinciding numbers of foreclosures and seasonal increase through ACS, it is equally possible in our view, the permanent population loss is temporary and due as much to the end of the housing bubble, foreclosures and rising unemployment as it is due to a shift from permanent to seasonal residency. It is likely both conditions exist and are occurring.

6.0 Methodological Flaw in MCPD and FKAA Regarding Seasonal Shift

The MCPD seasonal population methodology and the FKAA seasonal population methodology did not contemplate or recognize the shift of the existing population base from permanent to seasonal. The MCPD methodology considered residential unit growth only and the depletion of available buildable lots, when contemplating the future level of either permanent or seasonal populations. This is partly due to the MCPD methodology not having the benefit of the data beyond year 2000 which shows a more pronounced shift among existing units from permanent/homesteaded units to non-homesteaded units, and the American Communities Survey data, which supports the seasonal shift.

The failure to consider or incorporate the shift in the existing population base is the reason for the change that has been made to the previously approved FKAA population methodology in this update. The methodological change employed here is to both shift some of the projected dwelling unit growth into seasonal residences ***and*** account for the loss of existing permanent residents through an offsetting shift to seasonal residents. Further, in the MCPD analysis, rather than showing seasonal population increasing as it has been, on pages 32 and 33 of the MCPD report it states an assumption was employed causing the seasonal population to decline in a similar fashion to anticipated permanent population decline.

The MCPD methodology employed an assumption called the "drag factor" of .1% per year to reduce the growth of seasonal populations over time. The "drag factor" is used to illustrate the assumption of seasonal population declines from the historic actual. However there is no analysis or data which is presented to support the use of the "drag factor", nor the .1% level of the "drag factor" with respect to seasonal populations. Further there is no mention or discussion in the MCPD analysis which recognizes that the loss in the existing permanent population base may be offset by an increase in the seasonal population. The current population projections in this report correct this methodological flaw.

The discussion of the "drag factor" assumption is found in the MCPD permanent population methodology on page 30 and is excerpted below:

> A "drag" factor was applied to each year's percent increase figures by PAED. This drag factor increases by .1% each year over the ten year period, so that by 2015, the rate of increase in permanent resident population by PAED will have declined by 1.1%. This drag factor was employed as an assumption that the availability of building permits will decline as the carrying capacity of the Keys is reached. It is also likely that the availability of building sites will also decline in the early years of the twenty-first century. Analysis has shown that a 1.1% decline in mean percentage increases in population over a ten year period would not significantly affect the validity of the population forecasts. It is important to note this methodology reveals the beginnings of a decline in the total number of permanent residents in unincorporated Monroe County by 2014.

Source: Appendix 1; MCPD, Pg 30 re: discussion of permanent population

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The use of the "drag factor" assumption as applied to growth in seasonal population is found in the methodology on page 33 is excerpted below:

> A similar methodology was employed to determine the seasonal resident and vacation rental visitor population by PAED from 2005 to 2015. Essentially, the average percent increase figure was applied to the previous year's population figures. The product of this equation was then added to the previous year's population to estimate the following year's total seasonal resident and vacation rental visitor population. A "drag" factor was applied to each year's percent increase figures by PAED (similar to the one applied to the permanent resident population figures). This drag factor increases by .1% each year over the ten year period, so that by 2015, the percent increase in seasonal resident and vacation rental visitor population by PAED will have declined by 1.1%. It is important to note this methodology reveals the beginnings of a decline in the total number of seasonal residents and visitors in vacation rentals in unincorporated Monroe County by 2013, one year prior to similar declines expected for the permanent resident population forecasts.

Source: Appendix 1, MCPD; Pg 33 re: discussion of seasonal population

In this analysis the attempt has been made to analyze and determine whether and to what degree the existing permanent base has shifted to seasonal population, and to correct the population projections to reflect this phenomenon.

7.0 Seasonality in Retail Sales

In a further test of seasonal conditions K&S examined historic monthly retail sales from 1998-2009 to determine if seasonal trends were becoming more pronounced. In this investigation we conducted a regression analysis using inflation adjusted monthly gross retail sales for Monroe County as the dependent variable. The econometric model developed tests both the effects of cyclical economic conditions and seasonal variations as predictors of retail sales. We further tested this model to determine if, over time, the seasonal pattern became more pronounced.

The model's initial results indicate seasonal patterns are the strongest and most significant predictor of monthly retail sales. Cyclical factors including Gross Domestic Product, gasoline prices, unemployment and housing starts are also all significant predictors of retail sales. It is these cyclical factors which led to the 2006-2009 overall decline in sales. Thus these declines are not permanent as would be the case with a loss in permanent and seasonal population. Despite population losses in Monroe County estimated by BEBR for year 2010, retail sales did not decline, further validating the cyclical nature of sales.

The second part of the test indicates that the seasonal pattern did not increase over time compared with the average seasonality. The econometric model results are shown below in Table 3. These results indicate the overall predictive ability of the model is very high (R2=.963). Further, the seasonal dummy variable (SeasDum1), which tests seasonality over the historic test period, is highly significant (t=11.2) and finally, a second set of seasonal dummy variables to test for additional seasonality after 2005 and also for

additional peak season seasonality after 2005 (SeasDum2 and SeasDum3) both resulted in a lack of significance (t=.27 and t=.16 respectively). Thus, we conclude seasonal sales patterns are not changing nor were they becoming more pronounced from 2005-2009 compared with the 1998-2004 period. We believe this supports the theory that permanent population losses has been offset and replaced by a new type of seasonal population which spends, travels and behaves similarly to permanent population. This could be the case if a) homeowners lose a home to foreclosure and are forced to rent causing a shift to non-homesteaded (seasonal) units but still remain present in the market or b) newly built seasonal units are rented out for increasing periods and durations throughout the year, mimicking a "permanent" household. Anecdotal evidence supports both these conditions are presently occurring.

Other significant variables in the model include Gross Domestic Product, national gasoline prices, national housing starts and national unemployment rates. Interestingly, the change in Monroe County permanent population growth was not a significant predictor of retails sales, despite permanent population losses and a decline in of sales in 2007, 2008 and 2009. In such a case one would expect negative population growth would cause retail sales declines. Because this was not evident in the statistical analysis, our belief that the decline in retail sales was cyclical garners greater support. Thus we conclude economic recession and seasonal activity determine sales volumes but declining permanent population, which is not statistically significant, does not.

Again, the retail model analysis supports the view as permanent population is lost; it has been replaced by longer duration seasonal population or renters with no change in retail spending patterns. This would explain that while permanent population falls, there may be limited change in functional population due to seasonal replacement, as evidenced by retail sales.

Table 3 - Econometric Test Results for Increasing Seasonality

	SUMMARY OUTPUT			
	Regression Statistics			
	Multiple R	0.981816		
	R Square	0.9639626		
	Adjusted R S	0.9447427		
	Standard Err	9209659		
	Observations	24		
	ANOVA			
		df	*SS*	*MS*
	Regression	8	3.40318E+16	4.25E+15
	Residual	15	1.27227E+15	8.48E+13
	Total	23	3.53041E+16	
		Coefficients	*Standard Error*	*t Stat*
	Intercept	14947330	70400081.75	0.21232
GDP00	X Variable 1	28577.724	8869.439916	3.222044
WGAS	X Variable 2	-136177.6	110696.9446	-1.23018
HUSTQ	X Variable 3	27846.359	6935.672302	4.014947
RUQ	X Variable 4	-8224690	2684043.539	-3.06429
SeasDum1	X Variable 5	60680019	5395979.787	11.24541
SeasDum2	X Variable 6	2884055.9	10598795.93	0.272112
SeasDum3	X Variable 7	1368525.4	8297684.899	0.164929
Pop Ch	X Variable 8	1473.2782	2520.714671	0.584468

Table 4 - Florida Keys Visitors

Florida Keys Visitor Person-Trip Estimates

	2003	2004	2005	2006	2007	2008	2009
Key West Overnight Visitors	1,309,559	1,303,633	1,046,111	1,063,752	1,094,647	1,112,978	1,165,327
Key West Day Trippers	242,268	241,172	237,460	196,794	202,510	205,901	206,263
Cruise Ship Passengers	1,067,222	934,070	925,795	888,183	816,919	739,218	859,409
Total Key West Visitors	2,619,049	2,478,875	2,209,366	2,148,729	2,114,076	2,058,097	2,230,999
All Keys Overnight Visitors	2,425,110	2,414,135	1,937,244	2,030,062	2,089,021	2,169,565	2,092,732
All Keys Day Trippers	448,645	446,615	439,742	375,561	386,469	401,369	370,414
Cruise Ship Passengers *(Key West Only)*	1,067,222	934,070	925,795	888,183	816,919	739,218	859,409
Total All Keys Visitors	3,940,977	3,794,820	3,302,781	3,293,806	3,292,409	3,310,152	3,322,555
Monroe County Lodging Occupancy %:	72.2%	71.2%	70.0%	66.5%	68.1%	67.5%	70.3%

Sources: Monroe County Tourist Development Council; Smith Travel Research

Further, the seasonal stability and long term growth trend in retail sales is not attributed to additional retail spending by tourists or cruise ship passengers. Cruise ship and other tourists have declined over the past six years (**Table 4**) indicating the underlying retail sales growth pattern does not appear to be tourist related.

8.0 Long term Trends in Retail Sales and Traffic

Retail sales have been trending up on an inflation adjusted basis over time (**Figure 3**). Total trend based growth is about 4% from 1998-2009. The declines in sales in 2007, 2008 and 2009 are as a result of rising gasoline prices in 2008 which reduced trips and travel and the cyclical effects of recession. As the recession ended retail sales stabilized and sales through November 2010 indicated no further loss in year over year retail sales countywide, despite a decline in permanent population in 2010 as reported by BEBR annual population estimates.

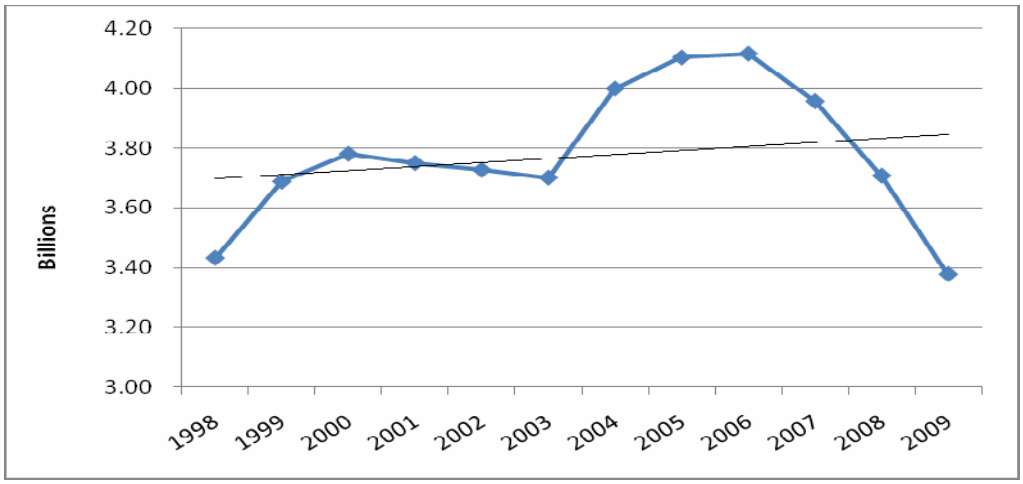

Figure 3 - Monroe County Annual Retail Sales (inflation adjusted)

Similarly, in average daily traffic flows, the long term trend has been gradually increasing. Total trend based growth is about 6% (see Figure 4). This is generally consistent with and of similar magnitude to the trend in retail sales data. Based on sales and traffic it appears that the permanent population losses are being replaced by seasonal residents and there is no permanent net decline in economic activity (sales and traffic), as would be suggested by sustained permanent population losses without replacement.

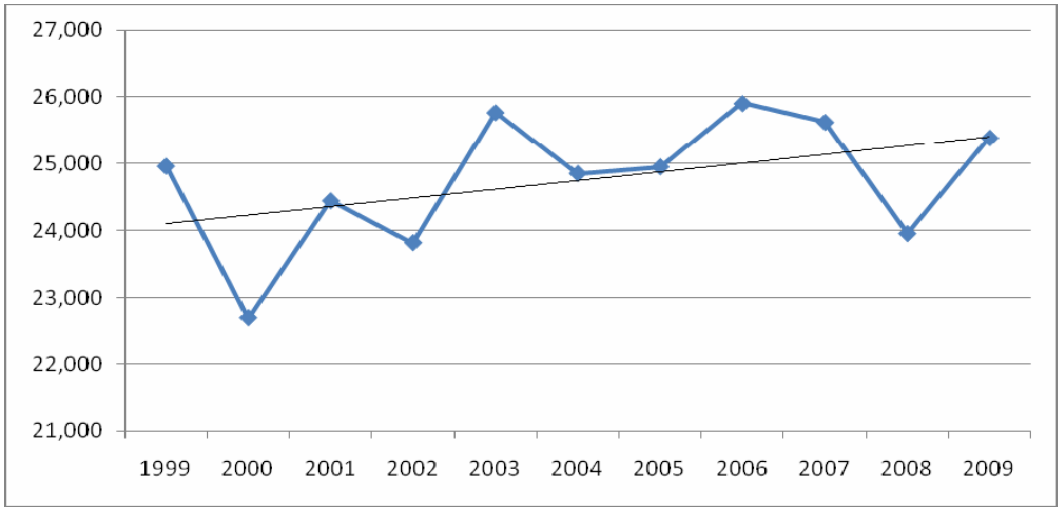

Figure 4 - Annual Average Daily Traffic Counts (Average of Selected Count Stations)

The trend analysis of traffic data was examined in a variety of ways. These included selection of data stations to reflect only single locations per Key and data for which the entire history was available in a consistent fashion. This prevented overweighting by location or the effects of changing data collection methodologies. The trend analysis was conducted looking at 1999-2009, as well as 1999-2007 (eliminating the most recent highly volatile recession years and the period of highly volatile gasoline prices). A third approach was taken comparing the average of traffic counts from 1999-2002 with 2006-2009. The average of these three methods results in a 6% growth rate over time.

The overall statistical significance of the trend line from 1999-2007 improved substantially over the 1999-2009 trend line through removal of the volatile outlying data points, however the magnitude of the trend line increase did not substantially change. After careful review of the traffic data we conclude the increasing trend in traffic counts is both valid and significant. This means traffic activity is not declining despite a decline in permanent population. We conclude then the growth in traffic is supported by a shift from permanent to seasonal population.

9.0 Countywide Functional Population

The best available data in our view indicates a loss in permanent population with likely replacement through an increase in seasonal residents. Further, both sales and traffic are trending up by similar magnitude suggesting there is limited growth, and no sustained decline in economic activity. This volume of limited growth is consistent with growth which occurs under the ROGO cap.

American Communities Survey data and homestead exemption data support the growth of seasonal population. Total non-homesteaded units are 57% today compared with 55% in 1998. Among single family units only, the non-homestead share has risen from 45% in 1998 to 49% in 2009. For single family units, 70% of the growth since 1998 has been in non-homestead units, and the American Communities Survey indicates a substantial rise in seasonal households during the 2000-2008 time period. This supports an increase in non-permanent/seasonal occupancy, which offsets the permanent population losses.

As a decline in permanent population has occurred, there is a real increase in non-permanent/seasonal replacement as evidenced by an increase in the trend in auto-traffic volume, an increase in the trend in inflation adjusted retail sales, an increase in non-homesteaded residential properties, and an increase in seasonal population shown in the American Communities Survey.

A complicating aspect is the 2008 permanent population figures from both the annual Census population and American Communities Survey population data which indicate permanent population in the Keys is now between 70,000 and 72,000; this is well below the BEBR 2009 estimate of 78,000. There is some probability the April 2010 Census count may indicate a sharply reduced permanent population level. With the understanding that permanent losses do appear to be replaced by seasonal population, and some losses in permanent population may be temporary and cyclical due to recession and foreclosures, if all of the recent Census or ACS based permanent losses were shifted into the seasonal population, the resulting 2030 functional population would still likely demonstrate small levels of growth consistent with the ROGO allocations.

Based on this analysis, K&S prepared a county level functional population series to reflect these conditions. This series begins with the medium series population projection from the BEBR medium series projection, PS156, published in 2010. Next, the FKAA seasonal series through 2025 was used and to this was applied the 2000-2025 CAGR growth rate of the FKAA seasonal series to extend the series from 2025 to 2030. In addition, from 2006-2030 K&S has added 70% of the permanent population loss as forecast by BEBR to the seasonal population. Further, we have added the equivalent of 70% of the ROGO growth to seasonal population to the FKAA seasonal series, reflecting the seasonal shift component not evidenced in FKAA's original data. The resulting functional population is seen in **Figure 5** and **Table 7**.

K&S believes this data series is the most reflective of actual economic and market conditions and is most representative of the long term functional population outlook. Our findings are based on extensive analysis of multiple data series. K&S recommends the use of this functional population data series for use in the 2010 EAR comp plan update.

It is also noted, for units shifting to seasonal status and for seasonal population associated with ROGO growth, a persons-per-household figure of 2.7 was used. On pages 34 and 36 of the MCPD population report in **Appendix 1**, it is noted the measures of seasonal persons per household were greater than 2.7.

Further supporting the use of 2.7 persons per household for seasonal population, Property Appraiser data (**Table 5**) suggests a steady increase in persons per household through year 2008, as described by an increase in the number of bedrooms per unit. This increase in bedrooms also suggests an increase in overall unit size; however, the Monroe County Property Appraiser data for unit size is unavailable. K&S believes seasonally occupied homes and rentals have a greater number of bedrooms and higher person per household occupancy due to the increasing size of newly built units. Newly built units today are primarily non-homesteaded and likely to have a higher proportion of seasonal residents. For these reasons, as well as the data analysis presented in the original MCPD population study, 2.7 persons per household was used for seasonal household size.

Table 5 - Average Number of Bedrooms per Single Family Unit by Year Built

2.1	Pre-1970
2.4	1970-1989
2.5	1990-1999
2.8	2000-2008

Source: Monroe Co. Property Appraiser, Fishkind & Associates, Inc.

The preliminary population series shown in **Figure 5** represents the BEBR medium series projection plus the FKAA seasonal series. The Final Revised series is recommended for use. This series represents this same data as the preliminary with the addition of the seasonal replacement population, which offsets the permanent population loss. The Final series is the recommended series and corrects the FKAA methodological flaw. This flaw finds the original MCPD study looked only at growth and did not contemplate the shift of the existing population from permanent to seasonal.

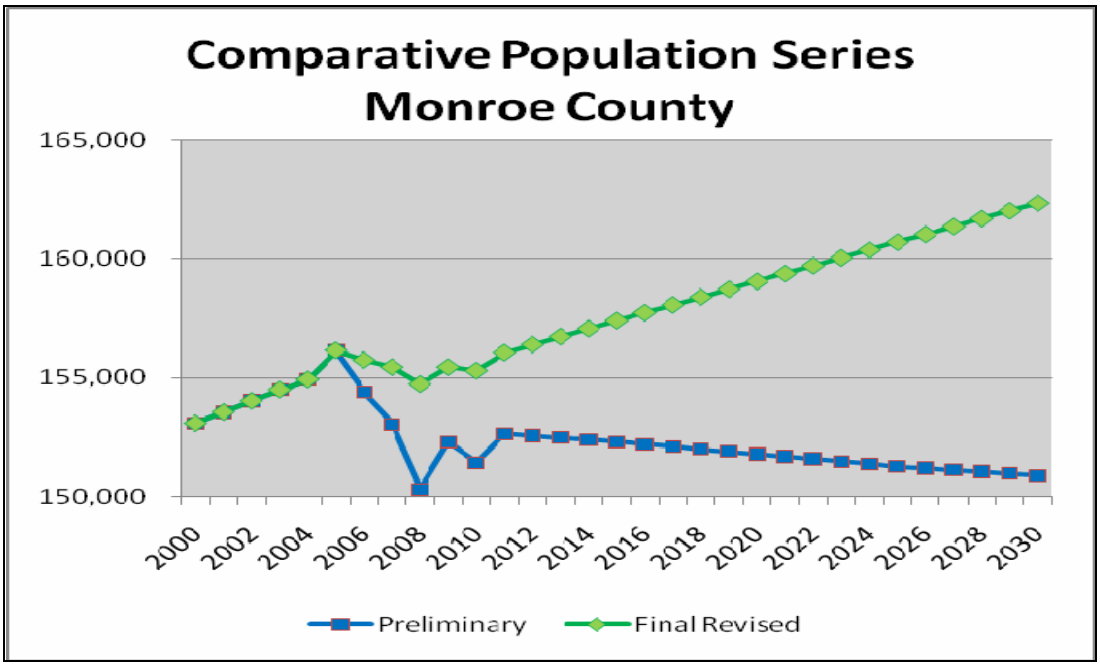

Figure 5 – Recommended Functional Population

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Table 7- Recommended Functional Population Series

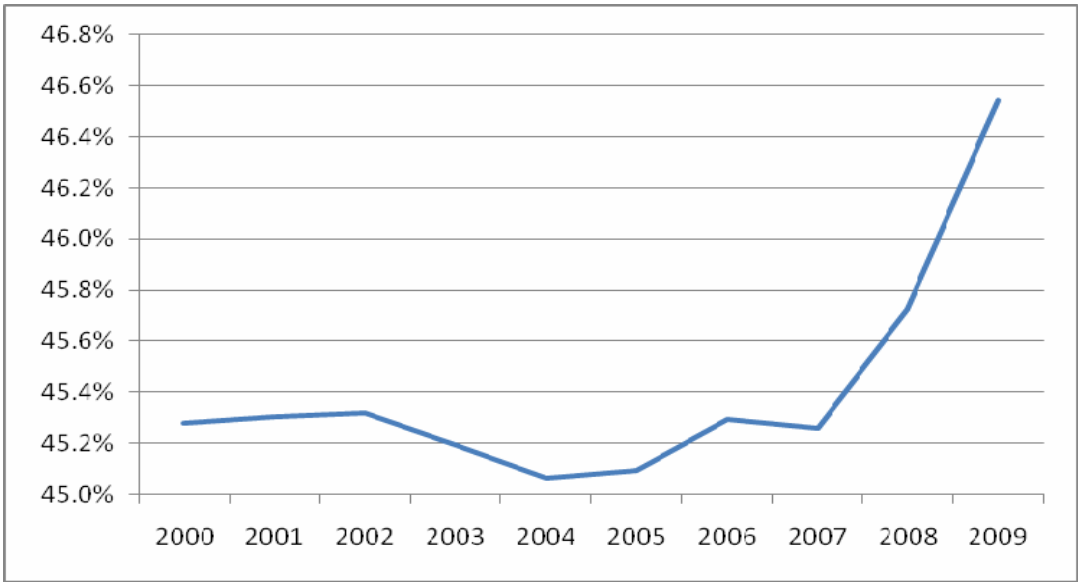
Monroe County Population Projection Seasonal Replacement Series			
YEAR	Permanent	Seasonal	Functional
2000	79,589	73,491	153,080
2001	80,011	73,540	153,551
2002	80,434	73,589	154,023
2003	80,856	73,639	154,495
2004	81,236	73,688	154,924
2005	82,413	73,737	156,150
2006	80,510	75,228	155,738
2007	78,987	76,453	155,440
2008	76,081	78,647	154,728
2009	77,925	77,516	155,441
2010	76,887	78,401	155,288
2011	78,080	77,974	156,054
2012	77,960	78,431	156,391
2013	77,840	78,887	156,727
2014	77,720	79,343	157,063
2015	77,600	79,800	157,400
2016	77,460	80,270	157,730
2017	77,320	80,740	158,060
2018	77,180	81,211	158,391
2019	77,040	81,681	158,721
2020	76,900	82,151	159,051
2021	76,760	82,622	159,382
2022	76,620	83,092	159,712
2023	76,480	83,562	160,042
2024	76,340	84,033	160,373
2025	76,200	84,503	160,703
2026	76,060	84,973	161,033
2027	75,920	85,444	161,364
2028	75,780	85,914	161,694
2029	75,640	86,384	162,024
2030	75,500	86,855	162,355

Source: Fishkind & Associates, Inc.; Fl Keys Aqueduct Authority; Univ. FL BEBR, PS 156 and annual estimates

10.0 Determination of Unincorporated Area Functional Population

Permanent Population

The unincorporated population as a share of countywide population has increased from 45.3 percent in 2002 to 46.5 percent in 2009. **Figure 6** shows the 10 year trend in the unincorporated share, based on the University of Florida annual population estimates.



Source: University of Florida, Annual Population Estimates

Figure 6 - Unincorporated Population Share of Countywide Population

The unincorporated permanent share has increased in the past three years likely due to foreclosures and conversions from permanent to seasonal in incorporated areas. As foreclosures abate, the change in unincorporated permanent population as a share of countywide totals will stabilize. Further, the permanent population share in the unincorporated area is likely to fall as unoccupied homes in municipal areas once again become occupied and come under ownership. Based on this discussion, for the future estimates of permanent population as a share of countywide totals we have used 46 percent as the stabilized figure representing the unincorporated share of permanent population over time.

Seasonal Population

The unincorporated areas contain 46 percent of all non-homesteaded residential units in Monroe County, based on 2009 Monroe County Property Appraiser Tax Roll data. This represents some 11,664 units. Using seasonal persons per household size of 2.7 the seasonal population in residential housing units is 29,160.

In addition, the unincorporated areas contain 27 percent of all hotel motel space in Monroe County. This converts to an estimated 2,197 hotel/motel rooms within the unincorporated area. With average annual hotel occupancy of 69.8% (based on Smith Travel Hotel Trends Reports 2003-2010) and average persons per room of 2.73, the hotel based seasonal population in the unincorporated areas is 5,558.

Further, the original MCPD/FKAA population methodology did not include the functional population associated with Keys Tourist Day Trips. This is a daily number which increases the functional population. Based on the average share of annual unincorporated day trips divided by 365, the number of unincorporated day trippers represents an addition of 325 persons to the functional population, as described in **Table 8**.

Table 8 – Day Trippers As A Component of Unincorporated Seasonal Population

	2003	2004	2005	2006	2007	2008	2009
All Keys Day Trippers	448,645	446,615	439,742	375,561	386,469	401,369	370,414
Key West Day Trippers	242,268	241,172	237,460	196,794	202,510	205,901	206,263
All Else Keys Day Trippers	206,377	205,443	202,282	178,767	183,959	195,468	164,151
Other Municipal Day Trip	69,659	69,344	68,277	60,340	62,093	65,977	55,407
Uninc Keys Day Tripers	136,718	136,099	134,005	118,427	121,866	129,491	108,744
Functional Day Trippers	***375***	***373***	***367***	***324***	***334***	***355***	***298***

Source: Monroe County Tourist Development Council, Fishkind & Associates, Inc.

Combining the household based seasonal populations, hotel based seasonal population, day trippers, and adjusting for non-standard dwelling units populations including those in camps, liveaboards and other, it is estimated there are 35,053 seasonal residents throughout unincorporated Monroe County, in 2009. This represents 45 percent of the 2009 countywide seasonal population as shown in Table 4. Applying this percentage to the countywide seasonal population projection yields a seasonal population in the unincorporated areas of 39,226 by year 2030. **Table 9** provides the permanent, seasonal and functional population for unincorporated Monroe County, through year 2030.

Total unincorporated functional population is expected to increase from 71,311 in year 2009 to 73,956 by year 2030. This represents an increase of 2,645 persons over the entire planning horizon. **Table 9** provides the determination of unincorporated permanent and seasonal population.

Table 9- Unincorporated Functional Population Series

	Unincorporated Population Projection Seasonal Replacement Series		
	Permanent	Seasonal	Functional
2000	36,036	33,241	69,277
2001	36,250	33,263	69,512
2002	36,452	33,285	69,737
2003	36,543	33,307	69,850
2004	36,606	33,329	69,935
2005	37,164	33,351	70,515
2006	36,466	34,019	70,485
2007	35,749	34,568	70,317
2008	34,788	35,550	70,338
2009	36,268	35,043	71,311
2010	35,368	35,440	70,808
2011	35,917	35,249	71,166
2012	35,862	35,453	71,315
2013	35,806	35,658	71,464
2014	35,751	35,862	71,613
2015	35,696	36,067	71,763
2016	35,632	36,277	71,909
2017	35,567	36,488	72,055
2018	35,503	36,698	72,201
2019	35,438	36,909	72,348
2020	35,374	37,120	72,494
2021	35,310	37,330	72,640
2022	35,245	37,541	72,786
2023	35,181	37,752	72,933
2024	35,116	37,962	73,079
2025	35,052	38,173	73,225
2026	34,988	38,384	73,371
2027	34,923	38,594	73,518
2028	34,859	38,805	73,664
2029	34,794	39,016	73,810
2030	34,730	39,226	73,956

Source: Fishkind & Associates, Inc.

11.0 Unincorporated Population in Upper/Middle/Lower Keys

Permanent Population - Upper/Middle/Lower

With the functional unincorporated population determined, the distribution between upper, middle and lower regions is based on the permanent population, ratio of seasonal to permanent population plus the distribution of hotel/motels by sub-area.

Permanent population is based on the on-line service I-Site which provides updated block group information based on US Census data (**Table 10**). The distribution of permanent population based on these data is shown in **Table 11**.

Table 10 - Unincorporated Monroe County-Distribution of Permanent Population

	Upper Keys	Middle Keys	Lower Keys	Total
Population (1990)	44%	3%	52%	100%
Population (2000)	42%	3%	55%	100%
Population (2009)	41%	3%	56%	100%
Population (2014)	40%	3%	57%	100%

Source: Fishkind & Associates, Inc.; I-Site online demographic database

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Table 11 – Permanent Population Distribution by Sub-Area

Unincorporated Permanent Population Projection			
	Seasonal Replacement Series		
	Upper	Middle	Lower
2000	15,135	1,081	19,820
2001	15,185	1,087	19,978
2002	15,229	1,094	20,130
2003	15,226	1,096	20,221
2004	15,212	1,098	20,296
2005	15,402	1,115	20,647
2006	15,073	1,094	20,299
2007	14,737	1,072	19,940
2008	14,263	1,044	19,481
2009	14,797	1,088	20,383
2010	14,430	1,061	19,877
2011	14,654	1,078	20,185
2012	14,632	1,076	20,154
2013	14,609	1,074	20,123
2014	14,586	1,073	20,092
2015	14,564	1,071	20,061
2016	14,538	1,069	20,025
2017	14,511	1,067	19,989
2018	14,485	1,065	19,953
2019	14,459	1,063	19,916
2020	14,433	1,061	19,880
2021	14,406	1,059	19,844
2022	14,380	1,057	19,808
2023	14,354	1,055	19,772
2024	14,327	1,053	19,735
2025	14,301	1,052	19,699
2026	14,275	1,050	19,663
2027	14,249	1,048	19,627
2028	14,222	1,046	19,591
2029	14,196	1,044	19,554
2030	14,170	1,042	19,518

Source: Fishkind & Associates, Inc.

Seasonal Population - Upper/Middle/Lower

Seasonal population within the upper/middle/lower unincorporated areas is estimated based on the ratio of unincorporated seasonal population to unincorporated permanent population, multiplied by the permanent population distributions by sub-area (**Table 12**).

Table 12- Seasonal Population Distribution by Sub-Area

Unincorporated Seasonal Population Projection			
	Seasonal Replacement Series		
	Upper	Middle	Lower
2000	14,048	1,056	18,137
2001	14,020	1,057	18,185
2002	13,993	1,058	18,234
2003	13,966	1,058	18,283
2004	13,938	1,059	18,332
2005	13,910	1,060	18,381
2006	14,150	1,080	18,789
2007	14,339	1,096	19,133
2008	14,665	1,126	19,759
2009	14,388	1,111	19,545
2010	14,550	1,122	19,768
2011	14,472	1,117	19,660
2012	14,555	1,123	19,775
2013	14,639	1,129	19,890
2014	14,722	1,135	20,005
2015	14,806	1,141	20,120
2016	14,891	1,148	20,238
2017	14,977	1,154	20,357
2018	15,063	1,160	20,475
2019	15,149	1,167	20,593
2020	15,235	1,173	20,712
2021	15,321	1,179	20,830
2022	15,407	1,185	20,948
2023	15,493	1,192	21,067
2024	15,579	1,198	21,185
2025	15,665	1,204	21,304
2026	15,751	1,211	21,422
2027	15,837	1,217	21,540
2028	15,923	1,223	21,659
2029	16,009	1,230	21,777
2030	16,095	1,236	21,896

Source: Fishkind & Associates, Inc.

Based on these data we are able to determine the functional population for unincorporated Keys according to the upper/middle/lower sub-areas of the unincorporated portion of Monroe County. **Table 13** presents the functional population for unincorporated Monroe and the sub-areas.

Table 13 – Unincorporated Functional Population Distribution by Sub-Area

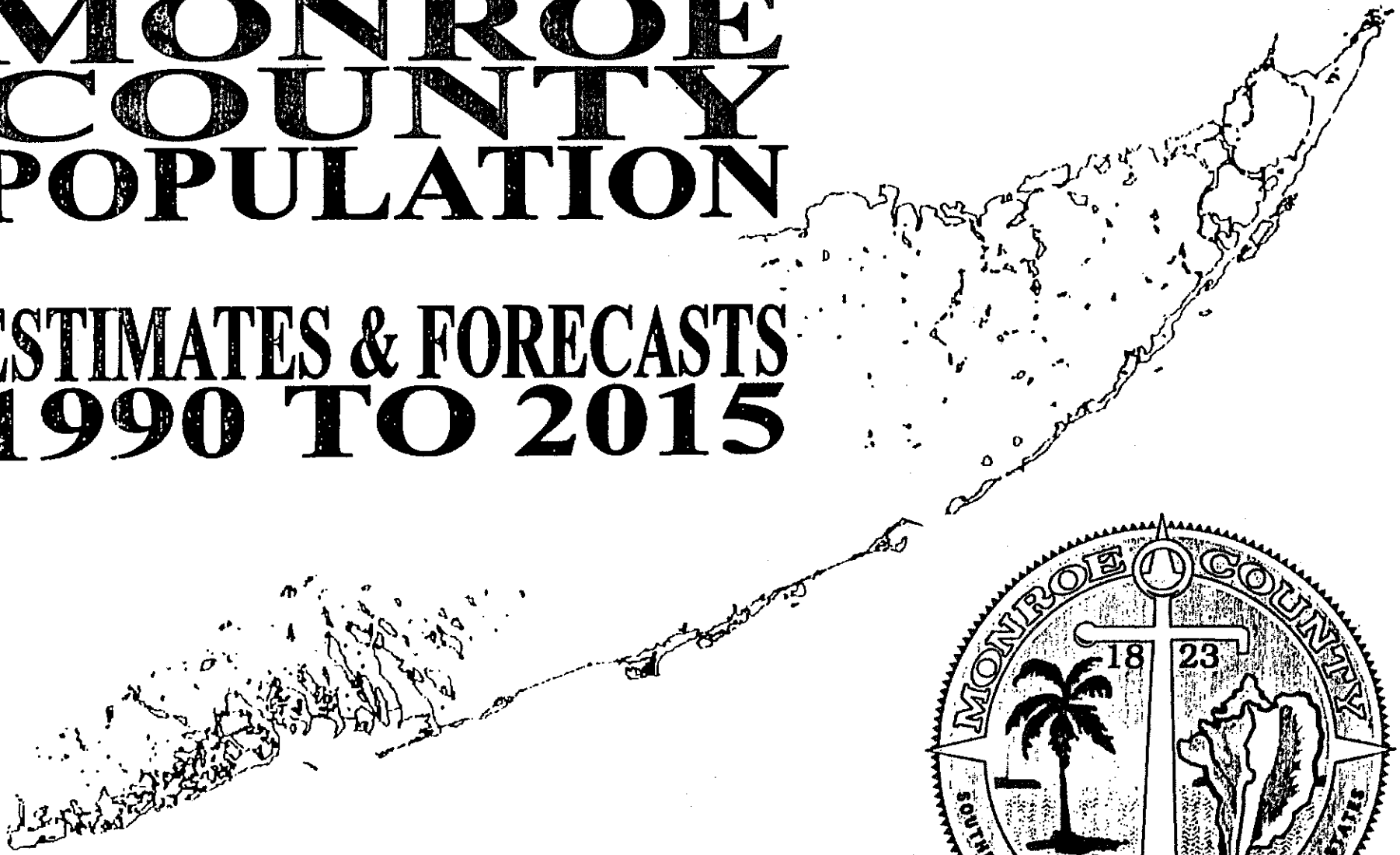
Unincorporated Functional Population Projection Seasonal Replacement Series				
	Upper	Middle	Lower	TOTAL
2000	29,183	2,138	37,957	69,277
2001	29,205	2,145	38,163	69,512
2002	29,222	2,151	38,364	69,737
2003	29,192	2,155	38,504	69,850
2004	29,150	2,157	38,628	69,935
2005	29,313	2,175	39,027	70,515
2006	29,222	2,174	39,089	70,485
2007	29,075	2,169	39,073	70,317
2008	28,928	2,169	39,240	70,338
2009	29,185	2,199	39,927	71,311
2010	28,980	2,183	39,645	70,808
2011	29,126	2,194	39,846	71,166
2012	29,187	2,199	39,929	71,315
2013	29,248	2,203	40,013	71,464
2014	29,309	2,208	40,097	71,613
2015	29,370	2,212	40,181	71,763
2016	29,429	2,217	40,263	71,909
2017	29,489	2,221	40,345	72,055
2018	29,549	2,225	40,427	72,201
2019	29,608	2,230	40,510	72,348
2020	29,668	2,234	40,592	72,494
2021	29,728	2,238	40,674	72,640
2022	29,787	2,243	40,756	72,786
2023	29,847	2,247	40,838	72,933
2024	29,907	2,252	40,921	73,079
2025	29,966	2,256	41,003	73,225
2026	30,026	2,260	41,085	73,371
2027	30,086	2,265	41,167	73,518
2028	30,145	2,269	41,249	73,664
2029	30,205	2,274	41,332	73,810
2030	30,265	2,278	41,414	73,956

Source: Fishkind & Associates, Inc.

APPENDIX 1

MONROE COUNTY POPULATION

ESTIMATES & FORECASTS 1990 TO 2015



February, 2000

Monroe County Planning Department

MONROE COUNTY POPULATION

ESTIMATES AND FORECASTS 1990 TO 2015

February, 2000

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EXECUTIVE SUMMARY

This report will present and discuss the population estimates and forecasts for Monroe County for the years 1990 to 2015. The report considers the functional, permanent resident, and peak seasonal populations. Information on the population in both incorporated and unincorporated areas of the county is presented. This report was developed to update the tables on population found in the Year 2010 Comprehensive Plan Technical Document. The report has five major sections: background, analysis, methodology, assumptions, and appendices. The report also contains twelve summary charts on population trends in the County.

The background section explains why this report was prepared, and how the information is organized. It also presents some preliminary information on how to interpret the information.

The analysis section indicates that the functional population is expected to grow by more than 16,000 people from 1990 to 2015, an increase of almost eleven percent (11%) over the twenty-five year period. In 1999, over sixty percent (60%) of the functional population is located within unincorporated portions of Monroe County, but by 2000, the incorporated portions of the county will contain fifty-three percent (53%) of total functional population. Throughout the years under study, the Upper Keys sub-district will have the largest portion of the functional population in unincorporated Monroe County, however, the Lower Keys is expected to have the highest growth rates over the twenty-five year period. In terms of the composition of the functional population, there are more permanent residents than the peak seasonal population on any given evening. However, permanent resident figures are annual while peak seasonal population figures are for any given evening. If seasonal population figures were annual, they would far exceed permanent resident population figures. The growth rates for permanent residents are expected to

out pace the growth rates in the peak seasonal population as a percentage of the functional population. PAED 4a is expected to have the largest numerical increases in population as well as the highest rates of population increase for permanent residents. PAED 22 is expected to have the slowest growth rates. The drag factors applied to the permanent and seasonal resident data indicate that these population's growth rates will begin to level-off and decline after the year 2014 if current trends continue.

The methodology section explains the various steps taken to prepare and present the data contained in the report.

The assumptions section explains the assumptions made in the preparation of these estimates and forecasts, and why the assumptions had to be made.

The appendices contain the summary tables of all the data developed as a part of this report. There are eleven appendices, one containing original population data, one containing PAED maps, eight containing data developed for this report, and one containing footnotes on the data collected.

The information in this report is the best available, but as new data and/or dimensions of the population become apparent, the Planning Department may update it. Errata sheets may also be prepared from time to time. Any questions regarding this data or analysis can be directed to the Monroe County Planning Department.

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BACKGROUND

This report is an update of Monroe County's official population estimates currently contained within Tables 2.28, 2.29, and 2.30 of the Year 2010 Comprehensive Plan Technical Document. These tables are attached as Appendix 1. The information presented in the tables was compiled in 1991 as part of the data and analysis required for the preparation of the Monroe County Year 2010 Comprehensive Plan. The data was drawn from a variety of sources, including the 1990 Census of Population, previous Monroe County planning documents, the work of several consultants, and studies prepared by the State of Florida.

The information contained within the Tables 2.28, 2.29, and 2.30 is organized by Planning Area Enumeration District, or PAED. These PAEDs are the combination of the previously utilized Monroe County "Planning Areas" and the US Census Bureau's "Enumeration Districts". These two units of geographical analysis were combined by the Planning Department in 1987 for ease of use. A map of the PAEDs is included as Appendix 2.

The information in Tables 2.28, 2.29, and 2.30 deals with the time span from 1990 up to 2010, and is summarized by sub-district (Upper, Middle, and Lower Keys). It is important to note that the tables do not include population information for Key West, Key Colony Beach, and Layton.

Table 2.28 presents information on the number of permanent residents. These are people who live in unincorporated Monroe County throughout the year. Table 2.29 quantifies the seasonal population in unincorporated Monroe County. This is the *peak* number of people in unincorporated Monroe County who are seasonal residents and visitors on *any given night*. Table 2.30

represents the functional population. The functional population is the sum of permanent residents and the peak number of seasonal residents and visitors.

During 1999, the Planning Department updated the population estimates and forecasts to ensure that the numbers are as accurate as possible. This report contains the results of that update.

The updated Monroe County population estimates and forecasts are contained within several appendices to this report. Appendix 3 is the summary table showing the permanent resident, peak seasonal resident/visitor, and functional population by PAED for Monroe County from 1990 to 2015. Appendix 3 is composed of information taken from the tables in Appendices 4 and 5. Appendix 4 is the permanent resident population table, and Appendix 5 is the summary table for the peak number of seasonal residents and visitors in Monroe County. The information in the table in Appendix 5 comes from five subsidiary tables:

- Appendix 6: Table of Peak Number of Seasonal Residents
- Appendix 7: Table of Peak Number of People in Hotels & Motels
- Appendix 8: Table of Peak Number of People in Campsites & Recreational Vehicles
- Appendix 9: Table of Peak Number of People Staying with Friends/Relatives
- Appendix 10: Table of Peak Number of People on Live Aboard Vessels

Appendix 11 is a series of footnotes relating to the tables found in Appendices 4-10. Each of these appendices will be discussed in greater detail in the Methodology Section of this report.

Each table of data found in the appendices has some common features. Each column in a table is numbered at its top. Below this column number is the column's heading, which describes what the data in the column represents. Below the heading of some of the columns is an operation shown in parenthesis "( )", which describes the calculations performed to derive the data in the column. The numbers in parenthesis correspond to the column numbers in the table. For example, the column heading for column # 6 may read "*Total Population (4 x 5)*". This means that the numbers found in column 6 were derived by multiplying the numbers in column 4 by the numbers in column 5.

The data found in a table is the result of an equation, not the verbatim typing of a particular number. As a result, the numbers found in the tables are carried out several decimal places, but have been rounded by the computer for display purposes. As a result, some of the numbers found in the tables may not add up. This is a function of the rounding performed by the computer, not an error in the equations.

One item to note in the tables is that four of the PAEDs (12a, 12b, 13, and 14) are removed from the unincorporated Monroe County population figures after 1997 to account for the incorporation of Islamorada, Village of Islands. Likewise, the data for three additional PAEDs (7, 8, and 9) are removed from the unincorporated Monroe County population figures after 1999 to account for the incorporation of Marathon. Another item of note is that the population found in the mainland portion of Monroe County and the Dry Tortugas is <u>not</u> included in these estimates and forecasts. Neither of these areas is included within a PAED, and both are under the jurisdiction of the National Park Service.

GENERAL ANALYSIS

This section of the report presents an analysis of the population estimates and forecasts. This section will provide the following:

- a discussion of the functional population trends in Monroe County
- a comparison of the permanent resident and peak seasonal populations
- an analysis of the fastest and slowest growing areas of Unincorporated Monroe County

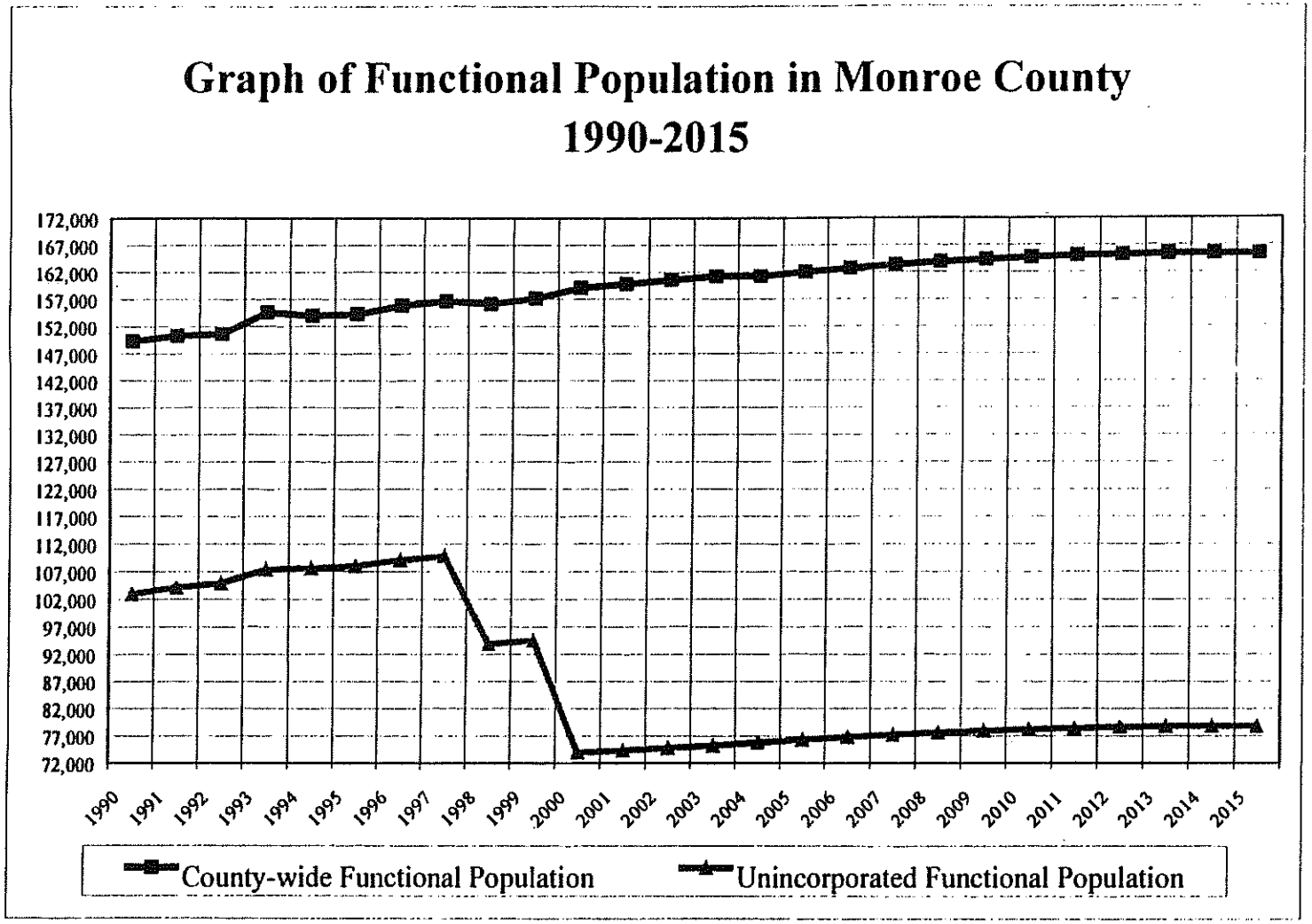
Functional Population Trends in Monroe County

This section will examine the functional population trends for all of Monroe County, including the incorporated areas. This section will also explore the different trends in functional population between the incorporated and unincorporated areas, and compare regional trends in functional population inside the unincorporated areas. The functional population is the sum of the number of permanent residents plus the peak number of seasonal residents and visitors in Monroe County on any given evening.

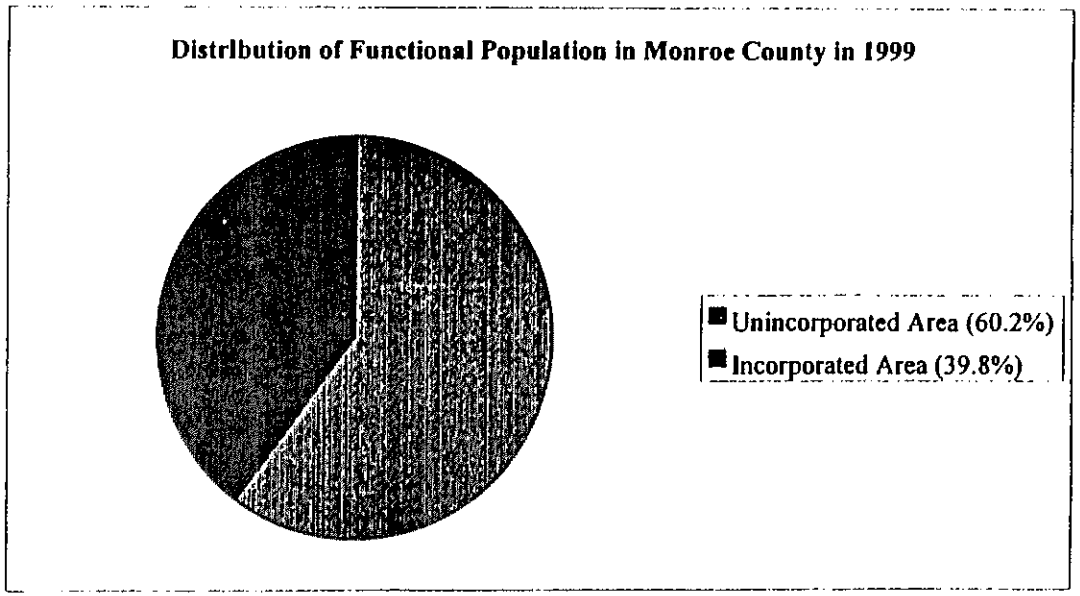
Functional Population of Monroe County 1990-2015

Year	Functional Population	Numerical Change	Percent Change
1990	149,348	*	*
1995	154,255	4,907	3.29%
2000	159,113	4,857	3.15%
2005	162,041	2,929	1.84%
2010	164,769	2,727	1.68%
2015	165,366	597	0.36%

According to the table above, the functional population of Monroe County is expected to grow by more than 16,000 people from 1990 to 2015. This represents an increase of almost eleven percent (11%) over the twenty–five year period. However, the numerical and percent change columns show that the *rate* of increase is expected to slow dramatically over the same time period. In other words, the growth rate in the Monroe County functional population is beginning to level off by the year 2000. It is important to note that the Summary Table of Functional Population in Appendix 3 predicts a yearly decrease in functional population after the year 2014. The graph on the next page shows the trends in functional population over the period from 1990 to 2015. It also compares the functional population in unincorporated areas to that in the incorporated areas of Monroe County.


Graph of Functional Population in Monroe County
1990-2015
172,000
167,000
162,000
157,000
152,000
147,000
142,000
137,000
132,000
127,000
122,000
117,000
112,000
107,000
102,000
97,000
92,000
87,000
82,000
77,000
72,000
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
County-wide Functional Population
Unincorporated Functional Population

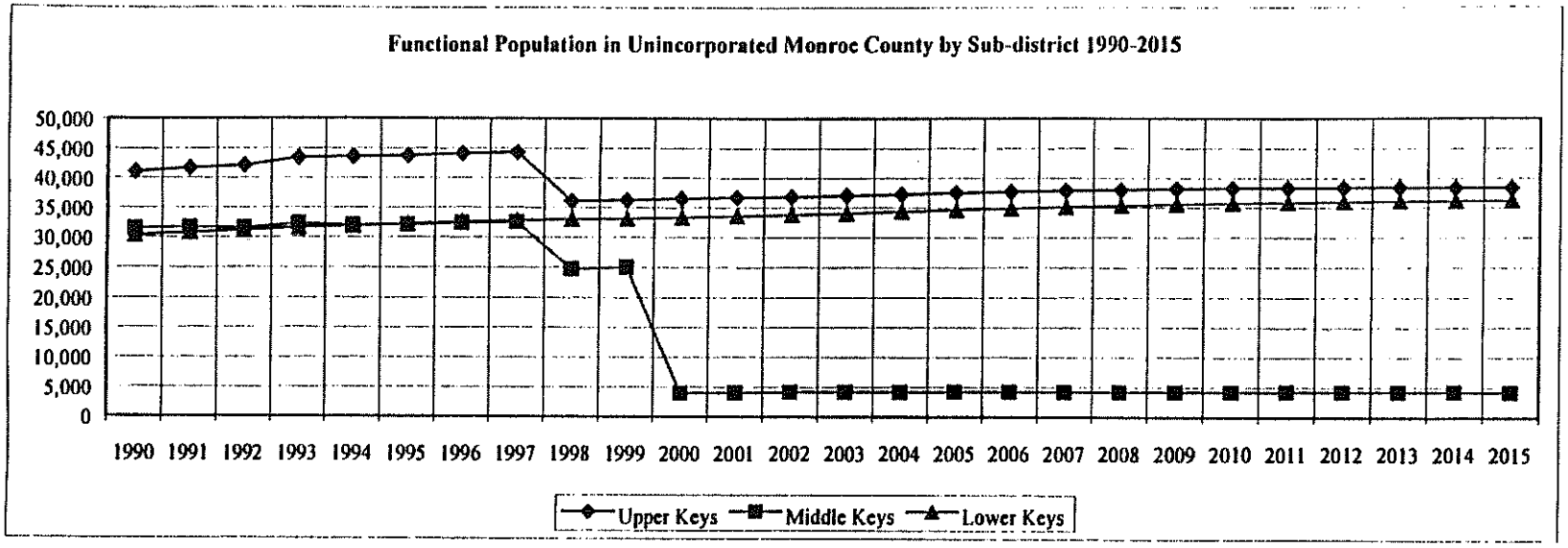
In 1999, a larger portion of the functional population in Monroe County is located within the unincorporated areas of the county. The unincorporated portions of Monroe County had a functional population of 94,565 people, while the incorporated areas had a functional population of 62,607 people. The percentages of each are depicted in the chart below:



In 1999, the City of Key West accounted for around twenty-seven percent (27%) of the total functional population, while the Village of Islamorada accounts for around ten percent (10%). The cities of Key Colony Beach and Layton compose about two percent (2%) of the total functional population in Monroe County. The newly incorporated city of Marathon is expected to occupy about thirteen (13%) of the 2000 total functional population of Monroe County. As indicated in the chart above, the incorporated areas account for forty percent (40%) of the total functional population, while the unincorporated areas account for

about sixty percent (60%) in 1999. After the year 2000, the relative distribution of functional population between incorporated and unincorporated areas is expected to reverse. By 2000, the functional population in incorporated areas is expected to grow to over 85,000 people, or fifty-three percent (53%) of the total functional population of Monroe County.

The graph below compares the distribution of the functional population among the three sub-districts in the unincorporated portions of Monroe County.



The Upper Keys sub-district is composed of PAEDs 15 to 22, which run from Tavernier Creek to the Miami-Dade County line, including north Key Largo. The Middle Keys contain PAEDs 7 to 11, or the area from Knight's Key to the Channel 5 Bridge

east of Fiesta Key. The Lower Keys sub-district includes PAEDs 1 to 6, from southern Stock Island to the eastern end of the Seven Mile Bridge. A map of the Keys PAEDs can be found in Appendix 2 of this report.

Regionally, the Upper Keys accounted for the largest portion of the 1990 unincorporated functional population (41,081 people, or 40% of the total). This is followed by the Middle Keys, which comprised 30.6% (31,533 people) of the total 1990 functional population; and finally, the Lower Keys, which contained 30,387 people, or 29.5% of the unincorporated functional population.

The incorporation of Islamorada in 1998 accounts for the drop in unincorporated functional population in the Upper and Middle Keys sub-districts. The functional population in the Middle Keys sub-district declined more than twenty percent (20%) with the incorporation of Islamorada, while the Upper Keys sub-district lost twelve percent (12%) of its functional population. The Lower Keys sub-district grew more than eight percent (8%) from 1990 to 1998. Further declines in the unincorporated functional population will appear in 2000 based upon the incorporation of Marathon in 1999.

By the year 2015, the Upper Keys, with a functional population of 38,657 people, is expected to contain 48.6% of the unincorporated functional population. The Lower Keys are projected to have a functional population of 36,263 people in 2015, or 46% of the unincorporated total, while the Middle Keys will been reduced to 4,206 people, or 5.3% of the unincorporated county total.

The table below illustrates the changes in functional population by unincorporated Keys sub-district:

Percent Change in Unincorporated Monroe County by Sub-district 1990-2015

	1990 Functional Population	1998 Functional Population	Percent Change 1990-1998	2000 Functional Population	Percent Change 1998-2000	2015 Functional Population	Percent Change 2000-2015
Upper Keys	41,081	36,138	-12.0%	36,615	1.3%	38,362	4.8%
Middle Keys	31,533	24,765	-21.5%	3,944	-84.1%	4,206	6.6%
Lower Keys	30,387	33,036	8.7%	33,410	1.1%	36,263	8.5%
Unincorporated Total	103,000	93,939	-8.8%	73,969	-21.3%	78,831	6.6%

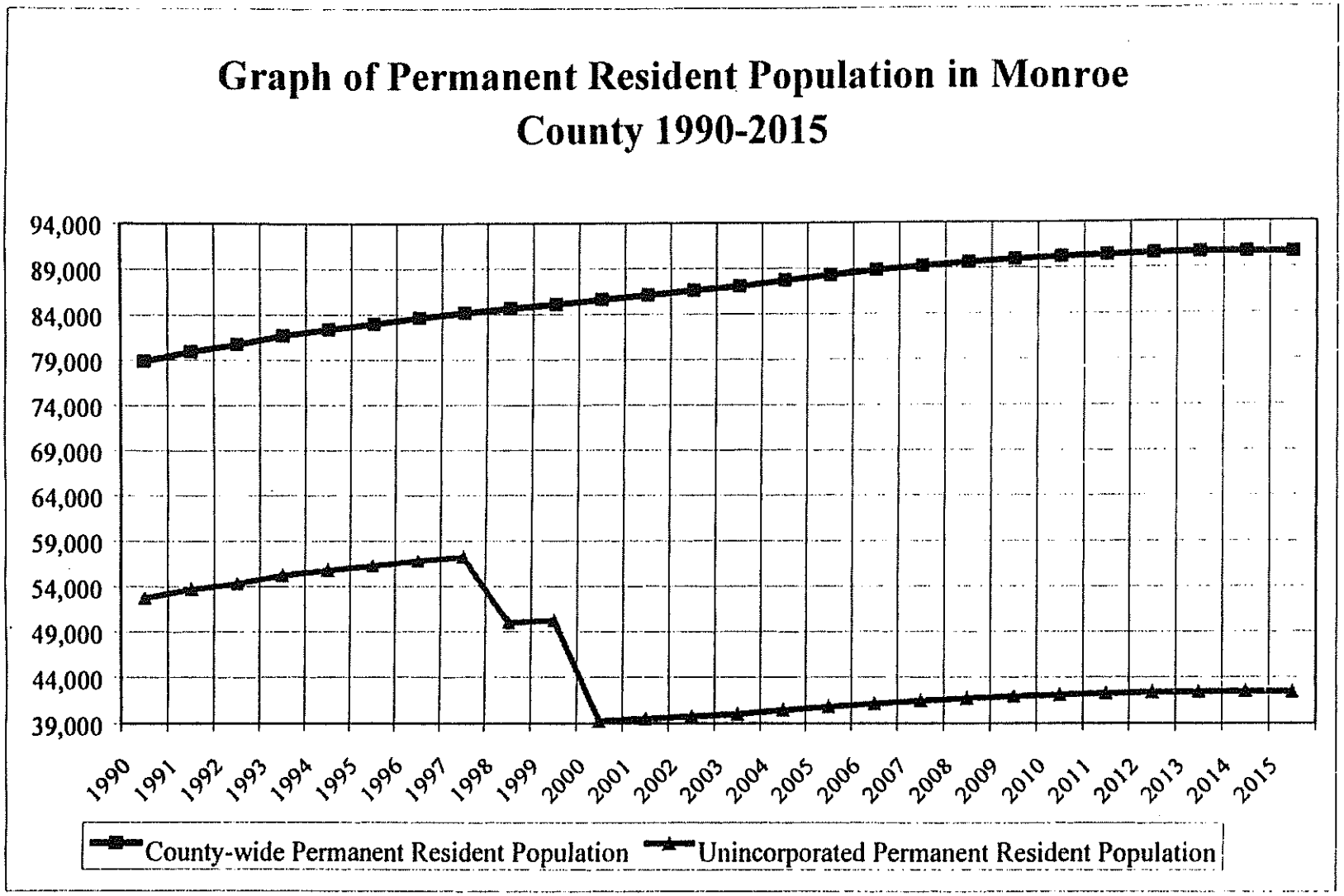
If current trends continue, the Lower Keys sub-district will be the fastest-growing area of unincorporated Monroe County by 2015. The Upper Keys sub-district will continue to grow, but by the slowest rate. The Middle Keys sub-district functional population is expected to rebound after the incorporation of Marathon, growing over six percent (6%) from 2000 to 2015. It is interesting to note that by 2015, the functional populations in the Upper and Middle Keys are expected to begin a decline, while the functional population in the Lower Keys is expected to increase.

Permanent Resident and Peak Seasonal Population

This section of the report will investigate the permanent resident population versus the peak seasonal population for all of Monroe County. The changes in permanent and seasonal population over time will also be explored for both the incorporated

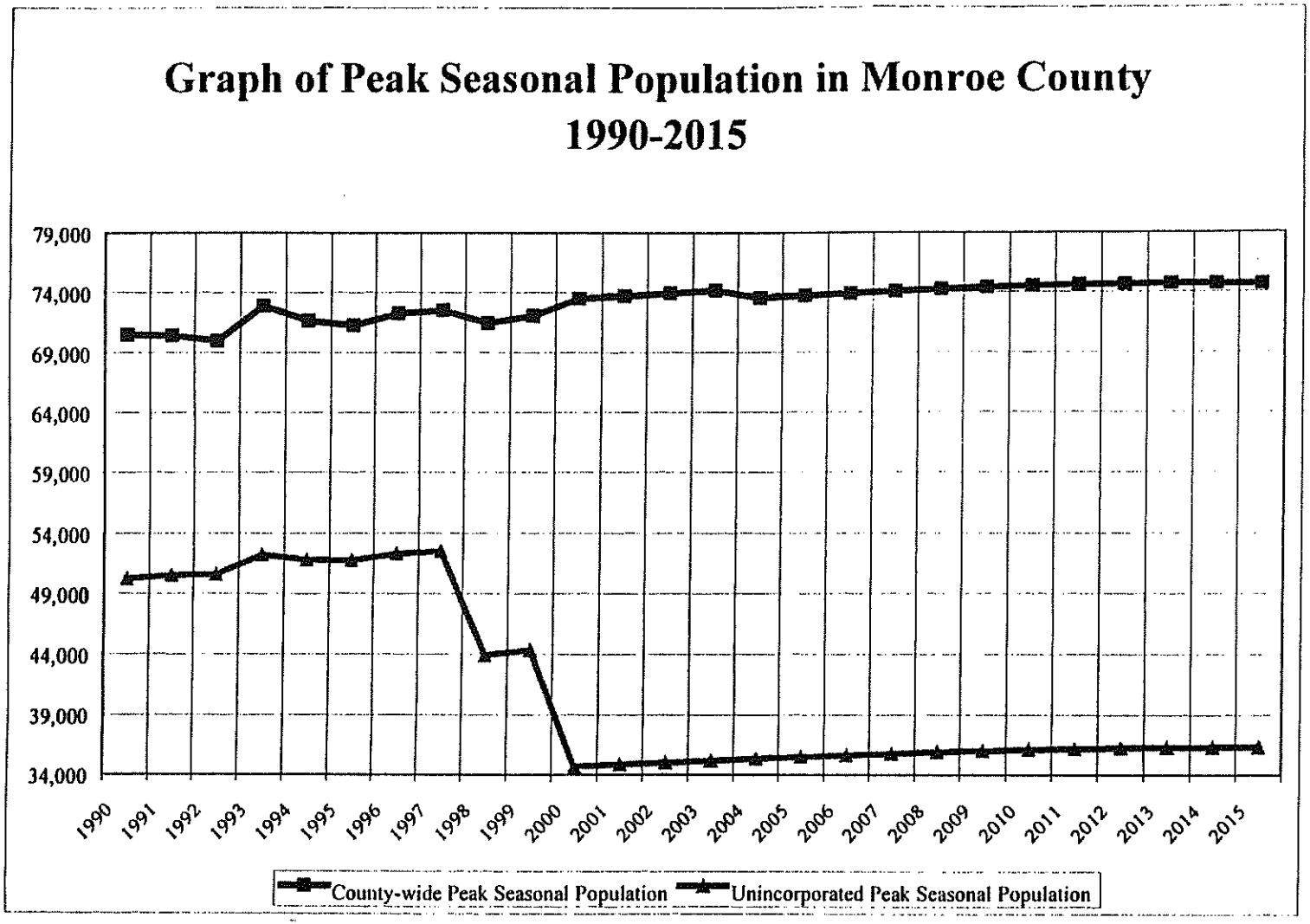
and unincorporated areas of the county. Trends in the permanent versus the peak seasonal population will also be considered at the sub-district level.

The graph on the next page shows the past and future trends in the permanent resident population for all of Monroe County as well as the unincorporated areas. The total permanent resident population in Monroe County has grown from 78,855 people in 1990 to 90,654 people by 2015, an increase of fifteen percent (15%) over the twenty-five year period. The permanent resident population as a percentage of the functional population fluctuates between 52.8% and 54.8% over the period. The years 1991 and 1993 were the only ones where the county-wide permanent resident growth rate exceeded one percent (1%) per year. Growth rates are expected to remain under 1% per year for the remainder of the years under study, and are expected to decline after the year 2003. The declines in the permanent resident population in unincorporated areas as illustrated in the graph can be attributed to the incorporation of Islamorada in 1998 and Marathon in 1999.

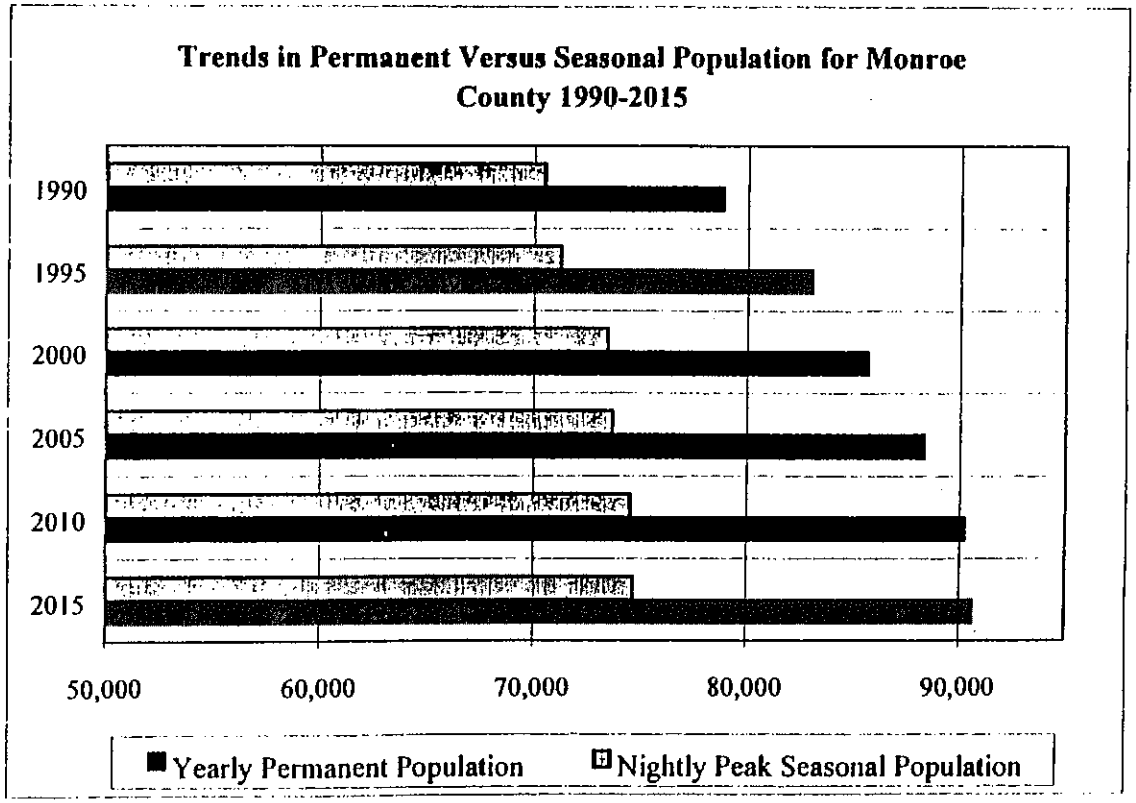

Graph of Permanent Resident Population in Monroe County 1990-2015
94,000
89,000
84,000
79,000
74,000
69,000
64,000
59,000
54,000
49,000
44,000
39,000
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
County-wide Permanent Resident Population
Unincorporated Permanent Resident Population

Permanent resident population figures show the total number of permanent residents at the end of a calendar year, while the peak seasonal population is the maximum or peak number of seasonal residents and visitors that can be accommodated on any given evening. Peak seasonal population figures are *not* the total number of seasonal residents or visitors in the county over the calendar year, but rather are the maximum number who could stay on any given night given the capacity for accommodating these people. The peak seasonal population figures are not the actual number of seasonal residents and visitors who *did* stay, the peak seasonal population figures show the total number of seasonal residents and visitors who *could* stay given the space available. The peak seasonal population figures include data on the number of seasonal residents, the number of people staying in hotels, motels, vacation rentals, campsites, recreational vehicles, live aboard vessels, and those staying with friends and relatives.

The graph on the next page shows the past and future trends in the peak seasonal population for all of Monroe County as well as the unincorporated areas. The peak seasonal population in Monroe County has grown from 70,493 people in 1990 to 74,712 people by 2015, an increase of six percent (6%) over the twenty-five year period. The peak seasonal population as a percentage of the functional population fluctuates between 45.2% and 47.2% over the period. The county-wide peak seasonal population growth rate exceeded four percent (4%) in 1993. Growth rates fluctuated between –1.7% and 1.9% for the remainder of the years under study, and are expected to steadily decline after the year 2003. The 1998 and 1999 declines in the peak seasonal population in unincorporated areas can be attributed to the incorporation of Islamorada and Marathon.


Graph of Peak Seasonal Population in Monroe County
1990-2015
79,000
74,000
69,000
64,000
59,000
54,000
49,000
44,000
39,000
34,000
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
County-wide Peak Seasonal Population
Unincorporated Peak Seasonal Population

The graph below compares the trends in permanent resident and peak seasonal population for all of Monroe County *on any given evening* in the year shown.

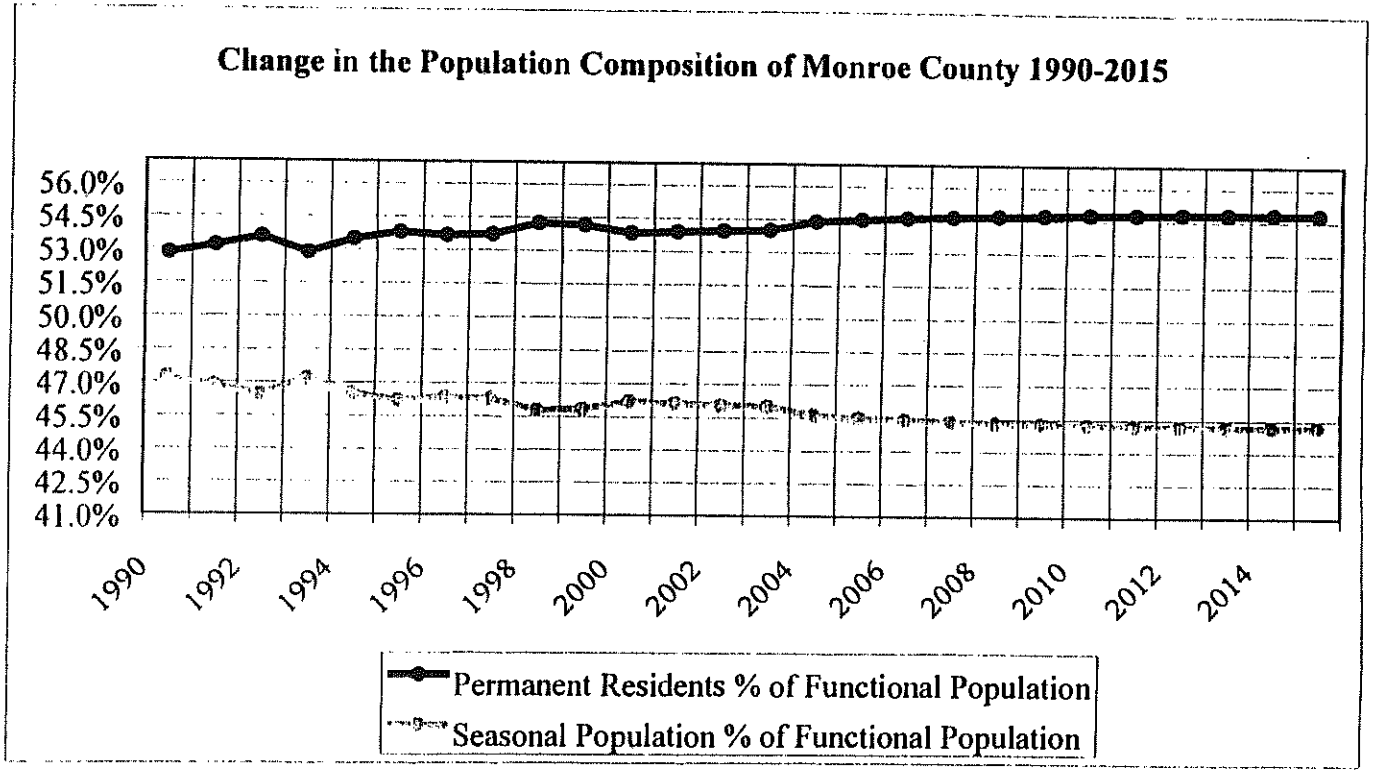


The chart shows that while the absolute numbers of permanent residents and potential peak number of seasonal residents and visitors will increase from 1990 to 2015, the growth rates are expected to slow down. If current trends continue, the growth rate

in the number of permanent residents will continue to outpace the growth rate in the potential peak number of seasonal residents and visitors on any given evening.

It is important to remember that the permanent resident figures are *annual* data, while the peak seasonal population data is based on the potential number of people on any given *evening*. The total number of seasonal residents and visitors who spent the night in the Keys over an entire year is not available based upon this data. However, it is a safe assumption that over the course of a year, there are many more seasonal residents and overnight visitors in Monroe County than permanent residents.

The trends in the distribution of peak seasonal population to the permanent population as a percentage of the total functional population are shown in the graph on the next page.



This graph shows that the nightly peak seasonal population is expected to decline as a percentage of the total functional population relative to the permanent resident population over the period from 1990 to 2015. In other words, seasonal residents and visitors will occupy less of the total functional population over the next fifteen years as compared to permanent residents. It is interesting to note that the permanent resident population consistently occupies a higher proportion of the county-wide functional population.

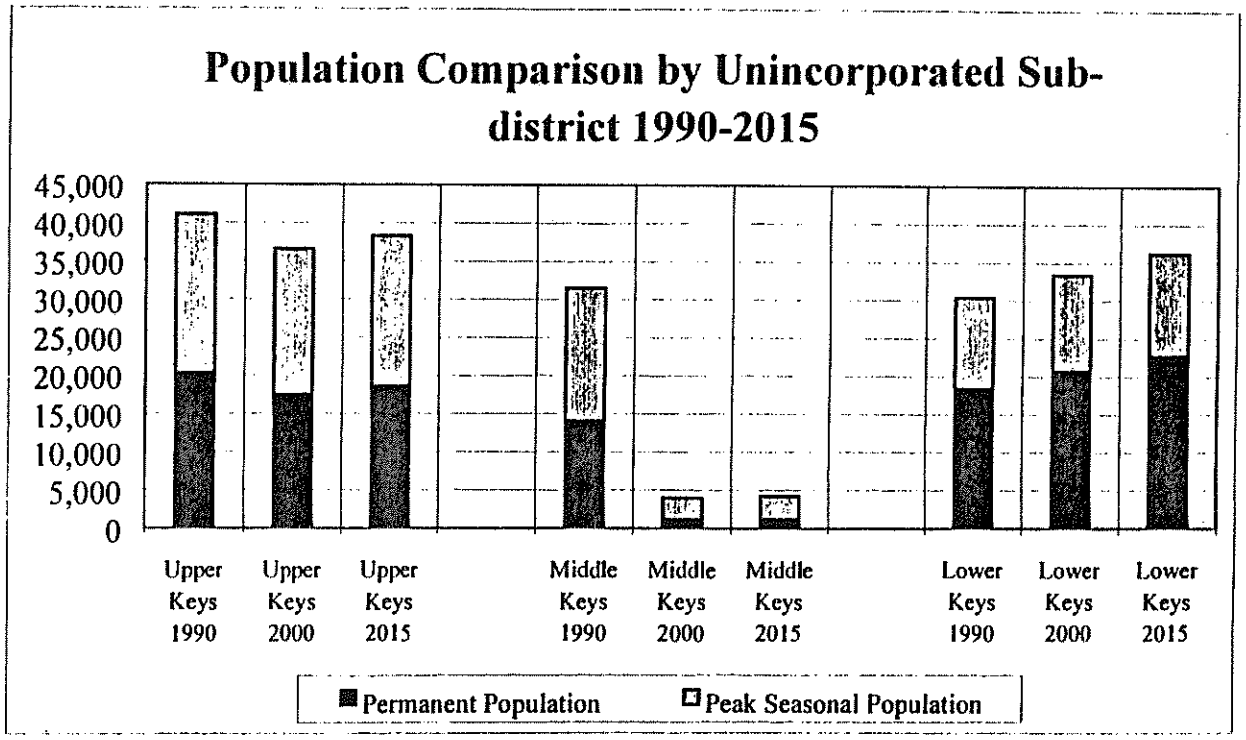
The table below shows the distribution of permanent residents to the peak seasonal population in the incorporated and unincorporated portions of Monroe County from 1990 to 2015.

Population Comparison Between Incorporated and Unincorporated Areas of Monroe County 1990-2015

	1990			2000			2015		
	Functional Population	Percent Permanent	Percent Seasonal	Functional Population	Percent Permanent	Percent Seasonal	Functional Population	Percent Permanent	Percent Seasonal
Incorporated Areas	46,348	56.3%	43.7%	85,144	54.4%	45.6%	86,535	55.7%	44.3%
Unincorporated Areas	103,000	51.2%	48.8%	73,969	53.1%	46.9%	78,831	53.9%	46.1%
Monroe County Total	149,348	52.8%	47.2%	159,113	53.8%	46.2%	165,366	54.8%	45.2%

As the table indicates, a higher percentage of the functional population of Monroe County as a whole is composed of permanent residents, and this trend is expected to continue and grow more visible from 2000 to 2015. A similar trend can be expected in the unincorporated portions of the County. The incorporated areas are also dominated by the permanent population as a percentage of the functional population. The percentage of the functional population occupied by the seasonal population is expected to be higher in 2000 and 2015, but is expected to peak by 2002. It is important to remember that the permanent figures are annual figures, while the seasonal figures represent the peak potential population on any given evening. The seasonal population figures are not annual figures. If the nightly seasonal population amounts were summed, the total would far exceed the permanent population.

The chart below compares the permanent and seasonal populations in the unincorporated portion of Monroe county by sub-district.



From 1990 to 2000, the Upper Keys declined by 2,770 permanent residents and 1,696 seasonal residents and visitors, due to the incorporation of Islamorada. The Middle Keys lost 12,994 permanent residents and 14,595 seasonal residents and visitors due to the incorporations of Islamorada and Marathon. The Lower Keys added 2,295 permanent residents and 729 additional seasonal residents and visitors.

From 2000 to 2015, the Upper Keys are expected to add 1,134 permanent residents for a permanent resident population of 18,569 people. The Middle Keys are expected to add only 74 permanent residents for an ultimate permanent resident population of 1,172 people by 2015. The Lower Keys are expected to add 1,992 permanent residents from 2000 to 2015, for a permanent resident population of 22,733 people.

In terms of the peak seasonal population from 2000 to 2015, the Upper Keys are expected to add an additional 613 seasonal residents and visitors, bringing its peak seasonal population to 19,793 people. The Middle Keys are expected to add 188 additional seasonal residents and/or visitors for an ultimate peak seasonal population of 3,034 people. The Lower Keys are expected to add an additional 861 seasonal residents and visitors for a seasonal population of 13,530 people by 2015. It is interesting to note that by 2015, the Lower Keys are expected to have the most permanent residents of all three sub-districts, while the Upper Keys are expected to retain the highest peak seasonal population.

Fastest and Slowest PAED Population Growth

The chart on the next page shows the projected changes in permanent resident, seasonal, and functional populations in each PAED in unincorporated Monroe County from 2000 to 2015. It also indicates the numerical and percent changes in the population figures over the fifteen years.

PAED Population from 2000 to 2015 Ranked by Change in Functional Population

PAED	Permanent Population Numerical Increase 2000 2015	Permanent Population Percent Increase 2000 2015	Seasonal Population Numerical Increase 2000 2015	Seasonal Population Percent Increase 2000 2015	Functional Population Numerical Increase 2000 2015	Functional Population Percent Increase 2000 2015
4a	1,028	20.7%	530	16.7%	1,558	19.1%
5	646	12.9%	208	6.3%	854	10.3%
17	557	18.0%	236	8.8%	793	13.7%
15	328	11.0%	162	9.2%	490	10.3%
3	357	16.3%	66	3.8%	422	10.8%
19-20	157	5.7%	83	3.5%	240	4.7%
10	62	8.7%	157	18.8%	219	14.1%
18	136	3.0%	76	1.7%	213	2.3%
21	38	2.3%	63	2.0%	101	2.1%
4b	39	66.8%	15	66.8%	54	66.8%
2	39	1.2%	14	1.1%	53	1.1%
11	12	3.1%	31	1.5%	42	1.8%
22	0	-0.1%	2	1.5%	2	0.9%
6	-28	-6.4%	17	0.9%	-11	-0.5%
1	-88	-1.9%	11	0.8%	-77	-1.3%
16	-82	-3.5%	-9	-0.2%	-90	-1.3%
UNINC. TOTAL	3,200	8.1%	1,662	4.8%	4,862	6.6%

As indicated in the table, PAED 4a (Cudjoe, Summerland, Ramrod, and the "Torch" Keys) is expected to experience the largest increases in permanent and seasonal population from 2000 to 2015. In addition to experiencing the largest absolute numerical

increases, this PAED is also expected to experience some of the highest growth rates in the unincorporated portions of Monroe County. The percent increase figures shown for PAED 4b (No Name Key) are misleading since the Key has only forty-four homes, most of which were built over the 1990's. Given the Rate of Growth guidelines, it is not likely that there will be any additional homes on No Name Key, but the population model is based upon past trends in certificate of occupancy issuance, not future permitting probabilities.

According to the table, PAED 5 (Big Pine Key) can also expect a large increase in the permanent resident population. However, it is not likely for this growth to be realized due to current building limitations on Big Pine Key. This phenomenon is similar to the No Name Key scenario, where the population model predicts growth based upon historical trends in certificate of occupancy issuance. Building permits have been limited in PAED 5 since 1994, and therefore, historical rate of certificate of occupancy issuance can not be sustained as we move into the twenty-first century. The model incorrectly predicts Big Pine Key growth rates based upon historical trends not future probabilities. Despite these problems, it is a logical assumption that PAEDs 17 (Rock Harbor), 15 (Tavernier), and 3 (Sugarloaf Key) will likely experience increases in permanent resident and seasonal populations.

PAED 22 (Cross Key, or the 18-Mile-Stretch) will likely experience the slowest growth rate in Monroe County from 2000 to 2015, as no new permanent or transient housing is expected for this area. Three PAEDs are expected to experience declines in permanent resident population from 2000 to 2015: PAED 1 (Stock Island), PAED 6 (MM 35 to 47), and PAED 16 (MM 94 to 98). In addition to a decline in permanent residents, the model forecasts that PAED 16 will experience a slight decline in the seasonal population over the period as well. The reason for these declines can be attributed to the "drag" factor applied to the

percent increase calculations of population after 2003. As the drag factor is applied consistently from 2004 to 2015, the net result is a slight decrease in population from 2000 to 2015. Regardless of whether or not these three PAEDs experience a loss in population, it is likely that they will be among the slowest growing areas of the unincorporated County.

Summary

This section presents a general analysis of the population data gathered for this report on Monroe County population estimates and forecasts for the years 1990 to 2015. The data and analysis indicates that the functional population is expected to grow by more than 16,000 people from 1990 to 2015, an increase of almost eleven percent (11%) over the twenty-five year period.

In 1999, over sixty percent (60%) of the functional population is located within unincorporated portions of Monroe County, but by 2000, the incorporated portions of the county will contain fifty-three percent (53%) of total functional population.

Throughout the years under study, the Upper Keys sub-district will have the largest portion of the functional population in unincorporated Monroe County, however, the Lower Keys is expected to have the highest growth rates over the twenty-five year period.

In terms of the composition of the functional population, there are more permanent residents than the peak seasonal population on any given evening. However, permanent resident figures are annual while peak seasonal population figures are for any given evening. If seasonal population figures were annual, they would far exceed permanent resident population figures. The growth

rates for permanent residents are expected to out pace the growth rates in the peak seasonal population as a percentage of the functional population.

PAED 4a is expected to have the largest numerical increases in population as well as the highest rates of population increase for permanent residents. PAED 22 is expected to have the slowest growth rates.

The drag factors applied to the permanent and seasonal resident data indicate that these population's growth rates will begin to level-off and decline after the year 2014 if current trends continue.

METHODOLOGY

This section will discuss the methodology used to determine the functional population of Monroe County. The functional population is a measurement which considers both the number of people who live in an area throughout the year (permanent residents), and those persons who visit an area (seasonal population) on any particular evening or evenings. As has been stated previously, the seasonal population is not a measurement of all the people who stayed in an area throughout the year, it is a measurement of the number of people who are visiting an area on any given evening. Additionally, the seasonal population is considered to be a peak figure, or a figure which represents the maximum number of people who could reasonably be accommodated in existing transient or guest facilities in the Keys on any given evening. Therefore, the seasonal population figures presented in this report can be considered as the peak number of people who could be accommodated on any given evening given the capacity of existing facilities devoted to the temporary housing of guests and/or visitors.

The functional population is the sum of the permanent population and the peak seasonal population, and is used by the government in determining the potential impacts, expected usage amounts, and required capacity for a wide variety of public services and expenditures. The process for determining the functional population used in this report is explained below, beginning with the methodology for determining the permanent resident population.

Permanent Resident Population

The methodology discussed here relates to the table titled Summary Table of Permanent Resident Population 1990-2015 (Appendix 4). The population estimates and the forecasts up to the year 2004 are based upon changes in the number of housing units available. The population forecasts after 2003 rely on historical trends in the percent increase in the number of permanent residents. All estimates and forecasts are based on a calendar year, and indicate the population as of December 31st of any particular year.

The first step in determining the number of permanent residents was to compare the boundaries between the 1990 census tracts and block groups with the Monroe County Planning Area Enumeration Districts (PAEDs). A map of the PAEDs can be found in Appendix 2 of this report. In most cases, the boundaries between census tracts and PAEDs were coterminous. In some situations, the PAED boundary didn't match with the census tract. In these cases, block group boundaries were used. However, in some cases, even the block group boundaries didn't match up with the PAED boundaries. Footnotes A-H in Appendix 11 discuss how data was separated or agglomerated to account for any boundary discrepancies. The ultimate goal of this step was to determine

how Census data would be broken down from census tracts or block groups into PAEDs. This information is summarized in Columns 1, 2, and 3 of the Summary Table of Permanent Resident Population 1990-2015 found in Appendix 4.

The next step was to use the 1990 Census of Population and Housing Summary Tape File 1A to obtain seven critical pieces of information by PAED: the total population in a PAED as of April 1, 1990, the total number of housing units in a PAED as of April 1, 1990, the total number of households (occupied housing units) in a PAED as of April 1, 1990, the total number of owner-occupied housing units in a PAED as of April 1, 1990, the total number of renter-occupied housing units in a PAED as of April 1, 1990, the number of vacant housing units in a PAED as of April 1, 1990, and finally, the number of housing units held for occasional or seasonal use. Again, all of this data was broken down from census tracts or block groups and agglomerated into PAEDs based upon the actions explained in Footnotes A-H. This information is found in Columns 4-11 of the Permanent Resident Table in Appendix 4.

The next step was to determine the number of persons per housing unit by PAED. This was accomplished by dividing the total population by the total number of housing units. The number yielded by this operation is <u>not</u> the number of persons per household, it is the number of persons per housing unit. The typical persons per household measurement equals the total population divided by the number of *occupied* housing units. The Monroe County model relies on a more generic persons per housing unit figure instead of a persons per household figure since vacancy rate information is required to determine occupancy status. Since information on intra-county vacancy rates over time is not generally available, the total persons per housing unit figure was used so as to limit the number of assumptions needed to forecast population. This information is found in Column 13 of the Permanent Resident Table.

At this point, the baseline population data for 1990 had been obtained from the Census, and re-aggregated into Monroe County PAEDs. However, this baseline data is as of April 1, 1990, but the Monroe County model is based upon a calendar year. In order to develop a population estimate for December 31, 1990, nine additional months of housing data had to be added to the baseline census information on the total number of housing units. The Building Departments of Monroe County and the other municipalities were used as a source for certificate of occupancy data. Certificates of occupancy (as opposed to building permits) were used as a surrogate for the number of housing units brought on-line during a year since a housing unit is more likely to be occupied shortly after a certificate of occupancy is issued.

Once the number of dwelling units which were completed from April 2, 1990 to December 31, 1990 were compiled and aggregated by PAED (based upon the number of certificates of occupancy issued), these numbers could then be added to the total number of dwelling units as of April 1, 1990 listed by the Census. This operation yielded the total number of dwelling units in existence on December 31, 1990 as shown in Column 15 of the Permanent Resident Table in Appendix 4.

Once the total number of housing units in existence on December 31, 1990 was known, the number of permanent residents living in those units could be derived by applying the number of persons per housing unit figure found in Column 13. This operation yields the total number of permanent residents by PAED as of December 31, 1990, as shown in Column 17 of the table in Appendix 4.

The next step is to determine the number of permanent residents by PAED in 1991. To accomplish this, the number of certificates of occupancy issued from 1/1/91 to 12/31/91 was obtained from the various Building Departments and divided up

into the appropriate PAEDs. The number of units built during 1991 was then added to the total number of dwelling units as of December 31, 1990. Once again, the resident population was derived by applying the persons per permanent resident dwelling unit found in Column 13.

This process was repeated to yield the permanent resident population estimates for 1992 through 1999. A slightly different process was used for making the population forecasts for 2000 and beyond.

The forecasts for the years 2000-2003 are based upon the potential number of building permits available, and historical trends in the number of permits issued. The majority of unincorporated Monroe County and the municipalities of Islamorada, Marathon, and Key West are all bound by the Rate of Growth Ordinance, which limits the number of building permits available over any given year. Layton, Key Colony Beach and the northernmost portion of Monroe County are not subject to the Rate of Growth Ordinance provisions, and as such, their population forecasts have been based upon historical trends in housing unit permitting.

The Rate of Growth guidelines found within the "Five Year Work Program" of the Monroe County Year 2010 Comprehensive Plan limits the number of building permits available to portions of Unincorporated Monroe County, Islamorada, and Marathon to a maximum of 204 per year until July of 2003. The City of Key West is limited to a maximum of 33 building permits per year based upon the Rate of Growth Guidelines, but a different allocation formula used by Key West makes it more problematic to apply this methodology to their expected population growth. As a result, population forecasts provided by Key West were used in this model. The northern portion of Unincorporated Monroe County, Key Colony Beach, and Layton are not subject to the rate of Growth guidelines, so historical trends in building permit issuance were used to calculate population forecasts for these areas.

The potential number of building permits available to portions of the County, Islamorada, and Marathon were used as the basis for predicting how many new housing units would come on-line each year from 2000 to 2003 in these areas. The potential 204 new dwellings available each year from 2000 to 2003 were aggregated by PAED based upon that PAED's percentage of the total number of dwelling units built from 1990 to 1999. The total number of units constructed in each PAED from 1990 to 1999 is shown in Column 54 of the Permanent Resident Table. Each PAED's total number of units constructed was divided by the sub-district total for the same period. This operation yields each PAED's share of the number of units constructed in a sub-district from 1990-1999 as shown in Column 55. This percentage was applied to the total number of building permits available to a sub-district each year from 2000 to 2003, and yields the forecasted number of dwelling units which will be built in a particular PAED during a particular year. Once the potential number of dwelling units constructed in a PAED was determined, the normal model process described in the paragraphs above was employed to determine the annual population by PAED for 2000 to 2003.

The Rate of Growth Ordinance is set to expire in 2003, and as such, there is little guidance as to how permits will be issued in Monroe County after the year 2003. As a result, the basis of the modeling process changes after 2003 from the number of housing units constructed to the historical percent change total permanent resident population.

The forecasting process begins with determining the average percent increase in total permanent resident population over the period from 1990 to 2003 by PAED as shown in Column 85 of the Permanent Resident Population Table in Appendix 4. This percentage is derived from obtaining the percent increase in resident population by PAED for each year, and then taking the average of these percent increase figures over the thirteen year period. This average percent increase figure is then applied to the

total permanent resident population in 2003. The product of this equation was then added to the 2003 total population to yield the estimated total permanent resident population in 2004 by PAED.

A similar methodology was employed to determine the permanent resident population by PAED from 2005 to 2015. Essentially, the average percent increase figure was applied to the previous year's permanent resident population figures. The product of this equation was then added to the previous year's population to estimate the following year's total permanent resident population. A "drag" factor was applied to each year's percent increase figures by PAED. This drag factor increases by .1% each year over the ten year period, so that by 2015, the rate of increase in permanent resident population by PAED will have declined by 1.1%. This drag factor was employed as an assumption that the availability of building permits will decline as the carrying capacity of the Keys is reached. It is also likely that the availability of building sites will also decline in the early years of the twenty-first century. Analysis has shown that a 1.1% decline in mean percentage increases in population over a ten year period would not significantly affect the validity of the population forecasts. It is important to note this methodology reveals the beginnings of a decline in the total number of permanent residents in unincorporated Monroe County by 2014.

The methodology described above is not representative of the process used to develop the City of Key West figures. Key West developed population forecasts as a part of their Evaluation and Appraisal Report on their Comprehensive Plan. The methodology used by Key West differs from that used by the County. In the interest of being inclusive of the County-wide population, this report adopted the Key West figures, and manipulated them slightly so as to provide yearly data similar to that provided for the other areas of the County.

Peak Seasonal Resident and Visitor Population

The methodology discussed here relates to the table titled Summary Table of Peak Number Seasonal Residents and Visitors by PAED 1990-2015 (Appendix 5). As mentioned earlier, the peak seasonal population figures are not the total number of seasonal residents and visitors who come to the Keys over the year, but only those who could be accommodated (based upon available facilities) on any given evening. The information contained in seasonal population summary table stems from five sub-models, which relate to: the number of seasonal residences, the number of hotel and motel rooms, the number of recreational vehicle and campsites, the number of people staying with friends and relatives, and the number of people staying on live aboard vessels. The methodology used in each of the five sub-models is discussed below.

1. Seasonal Residents and Vacation Rental Visitors

The first step is to obtain the number of dwelling units used for seasonal purposes from the permanent resident population table found in Appendix 4. The preliminary number of seasonal housing units comes from the 1990 Census of Population and Housing (Column 11 of the Summary Table of Permanent Resident Population found in Appendix 4). The number of seasonal housing units completed between April 1, 1990 and December 31, 1990 is derived by applying the percentage of seasonal housing units to the total number of housing units as of December 31, 1990 (Column 15 of the Permanent Resident Table found in Appendix 4). The addition of these two figures yields the total number of seasonal units by PAED as of December 31, 1990.

The next step is to determine the number of persons per group who stay in seasonal residences and/or vacation rentals. This figure was taken from a study prepared by the Tourism Development Council. This report is titled *Visitor Profiles: Florida*

Keys/Key West. This report was prepared by Vernon Leeworthy for the Nature Conservancy and NOAA in 1996. This report indicates that the largest group sizes occur in the winter season, and amount to 2.67 people per group on average. This figure was applied to the total number of seasonal residences (which includes vacation rentals) to determine the potential peak number of seasonal residents or visitors staying in vacation rentals by PAED. This methodology was used to determine the peak number of seasonal residents and visitors in vacation rentals by PAED for the years 1990 through 2003.

Because the peak seasonal resident sub-model also rests on the number of dwelling units (similar to the permanent resident population model), it is subject to the problem which occurs after 2003, when we are no longer sure how new dwelling units will be permitted. As a result, this model also makes the shift from a dwelling-unit based foundation to a population-based foundation after 2003 (just as the permanent resident population model does). The percentage increases in the number of seasonal residents and visitors in vacation rentals by year by PAED are determined in Columns 34 through 46 of the Peak Population in Seasonal Residences Table in Appendix 6.

Then, the average percent increase in the seasonal resident and vacation rental visitor population over the period from 1990 to 2003 by PAED was determined as shown in Column 47. This average percent increase figure was then applied to the seasonal resident and vacation rental visitor population in 2003. The product of this equation was then added to the 2003 peak number of persons staying in seasonal dwelling units to yield the estimated peak seasonal resident and vacation rental visitor population in 2004 by PAED.

A similar methodology was employed to determine the seasonal resident and vacation rental visitor population by PAED from 2005 to 2015. Essentially, the average percent increase figure was applied to the previous year's population figures. The product of this equation was then added to the previous year's population to estimate the following year's total seasonal resident and vacation rental visitor population. A "drag" factor was applied to each year's percent increase figures by PAED (similar to the one applied to the permanent resident population figures). This drag factor increases by .1% each year over the ten year period, so that by 2015, the percent increase in seasonal resident and vacation rental visitor population by PAED will have declined by 1.1%. It is important to note this methodology reveals the beginnings of a decline in the total number of seasonal residents and visitors in vacation rentals in unincorporated Monroe County by 2013, one year prior to similar declines expected for the permanent resident population forecasts.

2. Peak Number of People in Hotels and Motels

This is the second of the sub-models used to determine the peak seasonal population, and is titled Table of Peak Population in Hotels and Motels, and is found in Appendix 7 of this report.

The first step in the preparation of this model is to determine the number of hotel and motel rooms by PAED in 1990. The State of Florida's Department of Business and Professional Regulation Division of Hotels and Restaurants Master Listing of Accounts was used for this purpose. Information on the location and number of rooms of hotels, motels, resorts, and transient apartments was collected from the Master Listing and grouped according to PAED.

The next step was to determine the peak number of persons per room on average for all of these accommodations. This figure was taken from a study prepared by the Tourism Development Council. This report is titled *Visitor Profiles: Florida Keys/Key West*. This report indicates that the peak number of persons per room on average is 2.73 persons. This figure was used as the peak number of persons per room on average for the period from 1990 to 2015.

The next step was to determine the peak occupancy rate for transient accommodations. The occupancy rates were obtained through the TDC from the Smith Travel Research *Trend Report*. The *Trend Report* gives the occupancy rate figures by month from 1990 to 1999 for Key West and Monroe County. The peak monthly occupancy figure by year was extracted and used by this model.

With the information on the number of hotel and motel rooms collected and sorted by PAED, the information on the peak group size determined, and the yearly peak occupancy rates obtained, the peak population staying in hotels and motels by year by PAED was determined. For each year, the peak number of persons per room was applied to the number of hotel and motel rooms available. The peak occupancy figure was then applied to this figure to yield the peak number of people staying in hotel and motel rooms by year by PAED. This methodology was used to determine the peak number of visitors in hotels and motels from 1990 to 1999.

After 1999, the occupancy rate for hotels and motels in Monroe County are not known. To estimate the future occupancy rate, the average occupancy rate was determined for the years from 1990 to 1999 (as shown in Column 35 of the Peak Population in Hotels and Motels table in Appendix 7), and applied to the yearly number of hotel and motel rooms by PAED after 1999. Once

the projected occupancy rate was determined, the methodology described in the previous paragraph was used to determine the peak population staying in hotels and motels until 2006.

The number of hotel and motel rooms in Monroe County has remained relatively constant since 1996 when the Year 2010 Comprehensive Plan was adopted. The Comprehensive Plan prohibits the construction of new transient accommodations until 2006. As a result, there has been very little new hotel/motel room construction, but the model does include those hotel and motel rooms which have become vested from the Comprehensive Plan policy prohibiting new transient units.

It is expected that the prohibition in the Comprehensive Plan on new hotel and motel rooms will be lifted by 2007. As a result, the model was adapted to include a cumulative .1% increase in the number of visitors staying in hotels and motels per year from 2007 to 2015 based upon the increased prevalence of hotel and motel rooms.

3. Peak Number of People in Campsites and Recreational Vehicles

This is the third of the sub-models used to determine the peak seasonal population, and is found in Appendix 8 of this report. The first step in the preparation of this model was to determine the number of campsites and recreational vehicle spaces by PAED in 1990. These figures were derived from the Florida Department of Environmental Protection (DEP) records related to on-site sewage capacity for these types of land uses. The DEP figures showed how many campsites and/or recreational vehicle spaces were present (or permitted) in a particular establishment. The establishments were located and agglomerated by PAED.

The next step was to determine the peak number of persons per campsite and/or vehicle on average for all of these establishments. This figure was taken from a study prepared by the Tourism Development Council. This report is titled *Visitor Profiles: Florida Keys/Key West*. This report indicates that the peak number of persons per campsite and/or vehicle on average is 2.93 persons. This figure was used as the peak number of persons per campsite and/or vehicle on average for the period from 1990 to 2015.

The next step was to determine the occupancy rate for these transient land uses. The occupancy rate figure was also obtained from the *Visitor Profiles: Florida Keys/Key West* report. The report shows the peak occupancy rate to be 94.31% in the peak months of the year for campsites and recreational vehicle parks. This figure was used as the occupancy rate per campsite and/or vehicle on average for the period from 1990 to 2015.

The peak population staying in campsites and recreational vehicles was determined by applying the peak number of persons per campsite or vehicle to the number of sites available. This number was then multiplied by the occupancy rate to determine the peak number of persons staying in campsites and recreational vehicle sites by year by PAED.

The total number of campsites and recreational vehicle spaces were held constant over the period from 1990 to 2006, based on the moratorium on transient housing uses stemming from the Year 2010 Comprehensive Plan. After 2006, the prohibition on these types of uses is expected to be lifted. As a result, the model was adapted to include a cumulative .1% increase in the number of visitors staying in campsites and recreational vehicles per year from 2007 to 2015 based upon the expected increase of these transient uses.

4. Peak Population Staying with Friends and Relatives

This is the fourth of the sub-models used to determine the peak seasonal resident and visitor population, and is found in Appendix 9 of this report. This is one of the most difficult numbers to predict since the number of people who visit an area, but who do not stay in transient accommodations, is very difficult to track.

The basic methodology used was to determine the percentage of total visitors who stay with friends and relatives, then apply this percentage figure to the total seasonal population by PAED in a particular year. The product was the number of people who stayed with friends and relatives.

The first step in the preparation of this sub-model is to determine the appropriate percentage of people who stay with friends and/or relatives when visiting Monroe County. This number was derived from the study prepared for the Tourism Development Council entitled *Visitor Profiles: Florida Keys/Key West*. This report indicates that 15.5% of all visitors to the Keys stay with friends and/or relatives. For ease in calculation, this percentage figure was used across all PAEDs for each of the years in the forecast.

The peak number of people staying with friends and relatives by PAED by year was derived by summing the total population staying in seasonal residences and vacation homes, the peak population staying hotel and motel rooms, and the peak population staying in campsites or recreational vehicle spaces, and then applying 15.5% to this sum. The product of this operation is the

peak number of people staying with friends and relatives. This methodology was used by PAED and by year for all years in the model.

5. Peak Population on Live Aboard Vessels

This is the fifth and final sub-model used to determine the total peak seasonal population by PAED. Two separate sources were used to determine these figures. The first source of information was a study published in 1990 by Gus Antonini et. al. called *Boat Live-Aboards in the Florida Keys: A New Factor in Waterfront Development*. This study determined that over the year from 1988 to 1989, there were 1,082 live-aboard vessels present in the Keys. It is unclear if this figure is the total for the year or the peak number of vessels at any given time. This report uses the figure as a peak number instead of a total for the year.

The next step in the modeling process was to dis-aggregate the peak number of vessels by PAED. This was accomplished by using the data on the number of live aboard vessels collected during the 1993 Marina Facilities Survey conducted by the Monroe County Marine Resources Department. This survey collected information on the number of live aboards found in waters around the Keys. Mile markers were used in the survey to describe areas where live aboard vessels were encountered. The vessel counts found in the survey were then agglomerated by PAED based upon the mile marker figures in the survey. The total number of live aboards found in a particular PAED was then divided by the total number of live aboard vessels found across Monroe County. This yielded a particular PAED's percentage of the number of live aboards in the county. It is interesting to note that 22% of the live aboards were located in incorporated areas in 1993.

Once percentage figures on the number of live aboards by PAED were determined, these percentage figures were applied to the peak number of vessels determined by the Antonini study. This exercise allowed the Antonini figures to be broken down by PAED.

The next step was to determine occupancy rates on live aboard vessels. The Antonini research indicated that there was an average of 1.8 persons per vessel in 1988-89. This figure was used in this model, and applied over the entire period.

With the number of vessels by PAED in 1990 determined, and the number of persons per vessel determined, the two could be multiplied, yielding the peak population of people staying on live aboards by PAED in 1990.

To obtain this peak population on live aboard vessels figure by year over the period from 1990 to 2015, the peak number of vessels by PAED was increased by .1% per year over the period. This percentage increase was selected based on a lack of rigorous data on the peak number of vessels present. There is anecdotal evidence that the peak number of live aboard vessels is increasing over time, but no concrete evidence of this increase. Due to the data limitations, a percentage increase of .1% per year was applied.

In conclusion, the data from all five sub-models mentioned above was agglomerated to yield the total peak seasonal population as reflected in the Summary Table of Peak Number of Seasonal residents and Visitors by PAED 1990-2015 (Appendix 5).

As in the case of the permanent resident population model, the methodology described above is not representative of the process used to develop the City of Key West figures. Key West developed population forecasts as a part of their Evaluation and

Appraisal Report on their Comprehensive Plan. The methodology used by Key West differs from that used by the County. In the interest of being inclusive of the County-wide population, this report adopted the Key West figures, and manipulated them slightly so as to provide yearly data similar to that provided for the other areas of the County. The Key West figures included the number of day visitors to Key West within their seasonal population. These day visitors have been subtracted from the Key West figures included within this report so as to be consistent with the data presented for the County and other incorporated areas.

ASSUMPTIONS

The final section of this report discusses the various assumptions that were made in order to produce the population estimates and forecasts.

The first assumption is that the population estimates and forecasts contained in this report only consider legally established dwellings or transient units. It is undeniable that there are more units in existence than those which were legally established. However, the exact number of these units is very difficult to determine or estimate. As a result, the potential number of unlawfully established units is not included within these models.

The second assumption is that current trends and conditions will continue into the future. Any number of events like major hurricanes or other natural disasters will undoubtedly affect the population of Monroe County. However, these events can not be predicted far in advance, and therefore, the models do not contemplate them. In addition to natural events, other factors like

governmental policy will also affect the ultimate population. People's values and desires also exert impacts, but it is simply too difficult to model these effects. As a result, these models assume that current trends and conditions will continue.

The third assumption is that the 1990 baseline data on population is true and correct. This data comes from the Bureau of the Census, and may or may not be accurate. However, it is the only source available which has been accepted by the state and federal governments. There is the strong possibility that the population of Monroe County was undercounted during the 1990 Census. Hopefully, the 2000 Census will address this problem. Once the information from the 2000 Census becomes available, it will be incorporated into this model in an attempt to make these figures even more accurate.

The fourth assumption is that the persons per housing unit figure is a more appropriate figure than persons per household when estimating the permanent resident population. Persons per household figures require data on occupied units, which requires information on vacancy rates. Since this information is not generally available in the Keys (and may not be relevant given the highly transitory nature of Keys residents) the use of a persons per total housing unit figure may be more appropriate since it eliminates the need for assumptions on vacancy rates.

The fifth assumption is the possibility that the total persons per housing unit figure in a PAED will remain constant from 1990 to 2015. The likelihood of this being the case is rather slim, however, the exact direction and magnitude of any changes is unknown. To keep the model simple, persons per housing unit was kept constant. These population estimates and forecasts may be modified after the results of the 2000 Census of Population are released, but this will not occur until 2002 at the earliest.

The sixth assumption is that certificates of occupancy are a better predictor of changes in permanent resident population as opposed to building permit figures. Historically, it takes anywhere from two to seven years for an average home to be completed in the Keys. It is more likely that a home will be occupied shortly after a certificate of occupancy is issued as compared to a building permit. For this reason, certificates of occupancy were used in this model.

The seventh assumption is that the number of dwelling units issued certificates of occupancy from 4/2/90 to 12/31/90 does not double-count housing units in existence as of April 1, 1990. As mentioned in the methodology section, the permanent resident population model uses the 1990 Census data as a starting point, but this Census data only applies to the number of dwelling units present on April 1, 1990. For greater accuracy, this population model considered all the housing units available over the course of the year. The possibility exists that a new dwelling unit was issued a certificate of occupancy after April 1, 1990, but people who were living in the dwelling obtained a census form, and returned it prior to April 1, 1990. In these situations, it is possible for this model to double-count those units. However, this number is expected to be insignificant when considering the population over a twenty-five year span.

The eighth assumption is that the information from the Bureau of the Census on the number of housing units held for occasional or seasonal use is appropriate. This figure was used in the model to determine the number of seasonal homes in the County from 1990 to 2015. While there is much debate about the number of transient rentals in the Keys, there is no definitive source on the number of homes being used for this purpose. The number of homestead exemptions was explored as a possible source, however, this data is not maintained in a way which can be applied over time. As a result of the existing data limitations, the Census Bureau information was used. It may be possible that the number of seasonal homes is undercounted by this model, but

until there is a mechanism for jurisdictions to track which homes are held for seasonal or transient purposes, and which ones are for permanent residents, we may never know the magnitude of seasonal and/or transient housing units.

The ninth assumption relates to governmental policy. The Five Year Work Program indicates that 204 building permits will be issued each year during 2000, 2001, 2002, and 2003 for portions of unincorporated Monroe County, Islamorada, and Marathon. For the sake of simplicity, this model assumes that 204 dwelling units will be completed and issued a certificate of occupancy each year for the same period. However, even if this assumption is incorrect, it should not affect the total number of dwelling units constructed.

The tenth assumption is that historical trends in the number of housing units constructed in northern Monroe County, Layton, and Key Colony Beach is a good predictor of the timing of additional housing unit development in the future. The growth in permanent resident housing units from 2000 to 2004 is based upon the Rate of Growth permit allocations, but these areas are not subject to the Rate of Growth provisions, as such, their historical trends are projected into the future. While this may not be the best approach, it is the only one available, and therefore has been used by this model.

The eleventh assumption relates to maximum party size of seasonal residents and visitors in a particular dwelling or transient unit. These party sizes are shown to remain constant in several of the models. There are yearly variations in party size, but research has shown that over time, party size does remain fairly constant. It is important to remember that seasonal population estimates and forecasts seek to show the potential peak population on any given night, so even if party sizes do shrink or expand on a monthly or yearly basis, the accuracy of seasonal population projections should not be greatly affected.

The twelfth assumption is that the moratorium on new transient units (hotel & motel rooms, campsites, etc.) will be lifted in 2006. This policy decision is as yet unknown. The Comprehensive Plan dictates that some allowances for these uses should be made by 2007, so the models contained within this report reflect that policy direction. There is always the possibility that the policy will change, and if so, the population figures will also change. This model will be revisited upon significant policy changes.

The final assumption, and perhaps the largest, relates to the "drag" factors applied to the permanent and seasonal resident populations. The models used in this report apply a .1% decrease to the growth rates for these two populations from 2004 to 2015. This assumption is based on the possibility that by 2004, there will be fewer building sites available, that there will continue to be a decline in the total number of people per housing unit, that the carrying capacity of the Keys will begin to be exceeded, and that as these things begin to take place, the attractiveness of the Keys to new residents will begin to decline.

Despite the fact that there are many assumptions contained within the models of population within this report, the possibility to alter and modify the models always exists. Should conditions change in a substantive way, the population estimates and forecasts will no doubt be reconsidered.

This concludes this report on the Monroe County population estimates and forecasts. The appendices on the following pages will show the various tables and footnotes used to determine the functional population of Monroe County. Questions about this report, the models, or the population estimates or forecasts should be directed to the Planning Department, which can be reached at the address shown on the inside cover of this report.

The following pages contain the appendices mentioned in previous sections of the report.

Appendix 1

Tables 2.28, 2.29, & 2.30 from the Year 2010 Comprehensive Plan Technical Document

Table 2.29
SeasonalPopulation Projections
Unicorporated Monroe County 1990-2010
By Planning Area/Enumeration (PAED) Districts

PAED	1990	1995	2000	2005	2010
LOWER KEYS					
1	1,734	1,903	2,072	2,257	2,454
2	717	787	856	933	1,014
3	944	1,035	1,127	1,228	1,335
4	2,117	2,323	2,529	2,755	2,996
5	2,154	2,364	2,573	2,803	3,048
6	981	1,076	1,172	1,277	1,388
Sub-Total	8,647	9,488	10,329	11,253	12,235
MIDDLE KEYS					
7	5,099	5,593	6,092	6,633	7,215
8	371	407	443	482	524
9	455	500	544	593	644
10	1,917	2,104	2,291	2,495	2,713
11	1,401	1,537	1,673	1,823	1,982
12	1,650	1,811	1,971	2,148	2,335
13	2,049	2,249	2,448	2,667	2,900
Sub-Total	12,942	14,201	15,462	16,841	18,313
UPPER KEYS					
14	4,745	5,204	5,669	6,173	6,714
15	1,500	1,646	1,792	1,953	2,123
16	2,940	3,225	3,512	3,826	4,160
17	2,703	2,966	3,229	3,518	3,825
18	2,948	3,235	3,522	3,837	4,172
19	418	459	499	544	591
20	2,236	2,453	2,671	2,909	3,163
21	3,862	4,237	4,613	5,025	5,464
22	169	186	202	221	240
Sub-Total	21,521	23,611	25,709	28,006	30,452
PAED TOTAL	**43,110**	**47,300**	**51,500**	**56,100**	**61,000**

Note: The City of Key West, Key Colony beach, and layton are not included.
Cape Sable is included in PAED 21; Windley Key is included in PAED 12

Source: U.S. Census 1990, Price Waterhouse.

Table 2.30
Functional Population Projections
Unicorporated Monroe County 1990-2010
By Planning Area/Enumeration (PAED) Districts

PAED	1990	1995	2000	2005	2010
LOWER KEYS					
1	6,275	6,480	6,667	6,894	7,132
2	3,823	3,946	4,057	4,181	4,323
3	2,730	2,915	3,079	3,262	3,475
4	6,100	6,895	7,561	8,302	9,212
5	6,362	7,265	8,015	8,852	9,884
6	1,422	1,517	1,614	1,718	1,829
Sub-Total	26,712	29,018	31,003	33,209	35,855
MIDDLE KEYS					
7	13,960	14,938	15,815	16,779	17,909
8	1,068	1,363	1,559	1,598	1,641
9	1,541	1,698	1,829	1,976	2,155
10	2,546	2,813	3,062	3,336	3,645
11	1,757	1,893	2,029	2,179	2,338
12	2,746	3,106	3,421	3,772	4,019
13	3,269	3,469	3,668	3,887	4,120
Sub-Total	26,887	29,280	31,383	33,527	35,827
UPPER KEYS					
14	9,150	10,155	11,048	12,031	13,192
15	3,933	4,303	4,623	4,980	5,404
16	5,227	5,912	6,510	6,894	7,228
17	5,168	5,679	6,135	6,641	7,230
18	7,075	8,167	9,081	9,966	10,300
19	1,326	1,462	1,576	1,704	1,859
20	3,785	4,002	4,220	4,458	4,712
21	5,649	6,447	7,154	7,936	8,580
22	230	270	303	342	387
Sub-Total	41,543	46,387	50,650	54,952	58,892
PAED TOTAL	**95,142**	**104,695**	**113,036**	**121,688**	**130,574**

Note: The City of Key West, Key Colony beach, and layton are not included.
Cape Sable is included in PAED 21; Windley Key is included in PAED 12

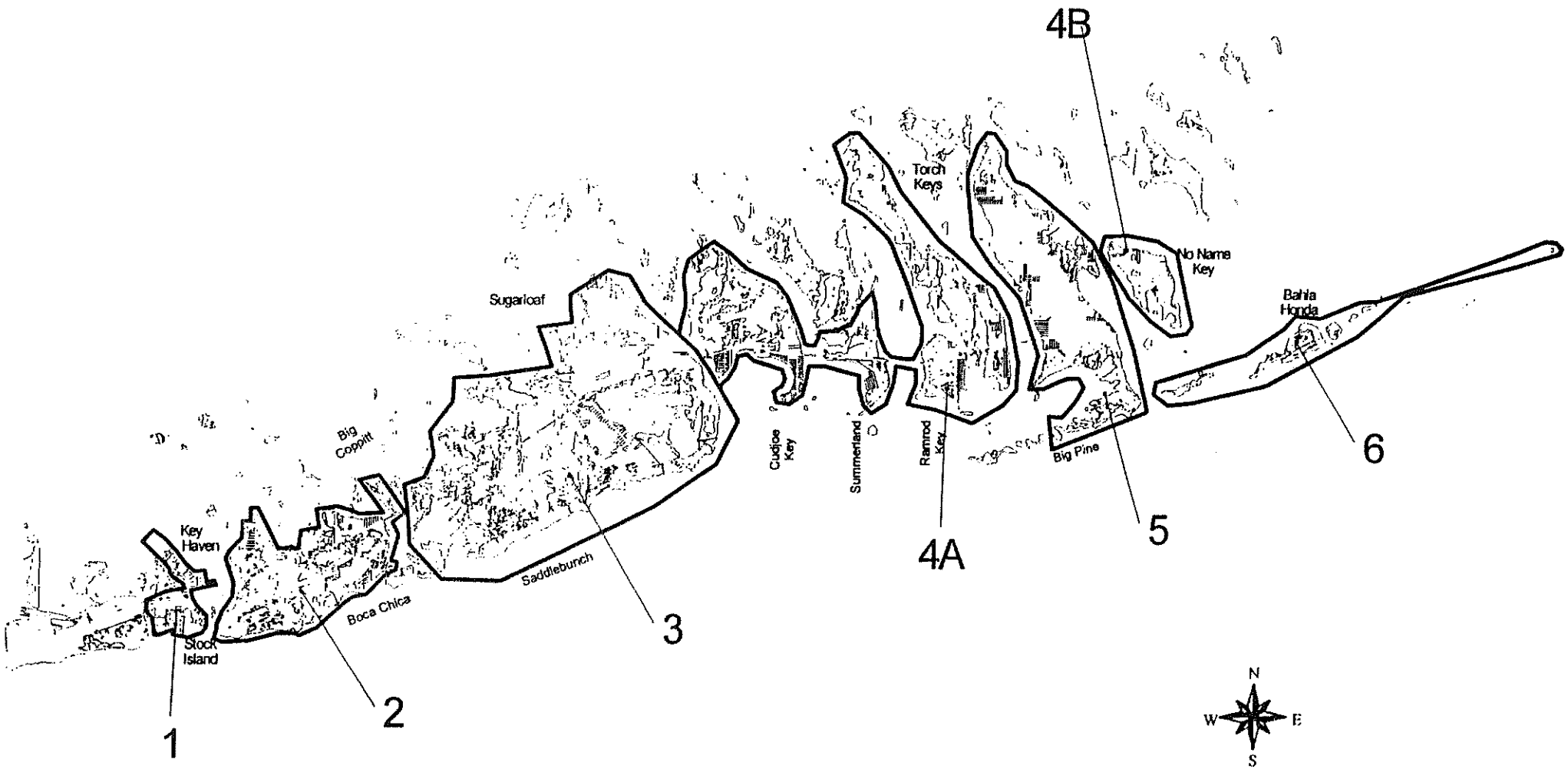
Source: U.S. Census 1990, Price Waterhouse.

Appendix 2

Monroe County Planning Area Enumeration District (PAED) Maps

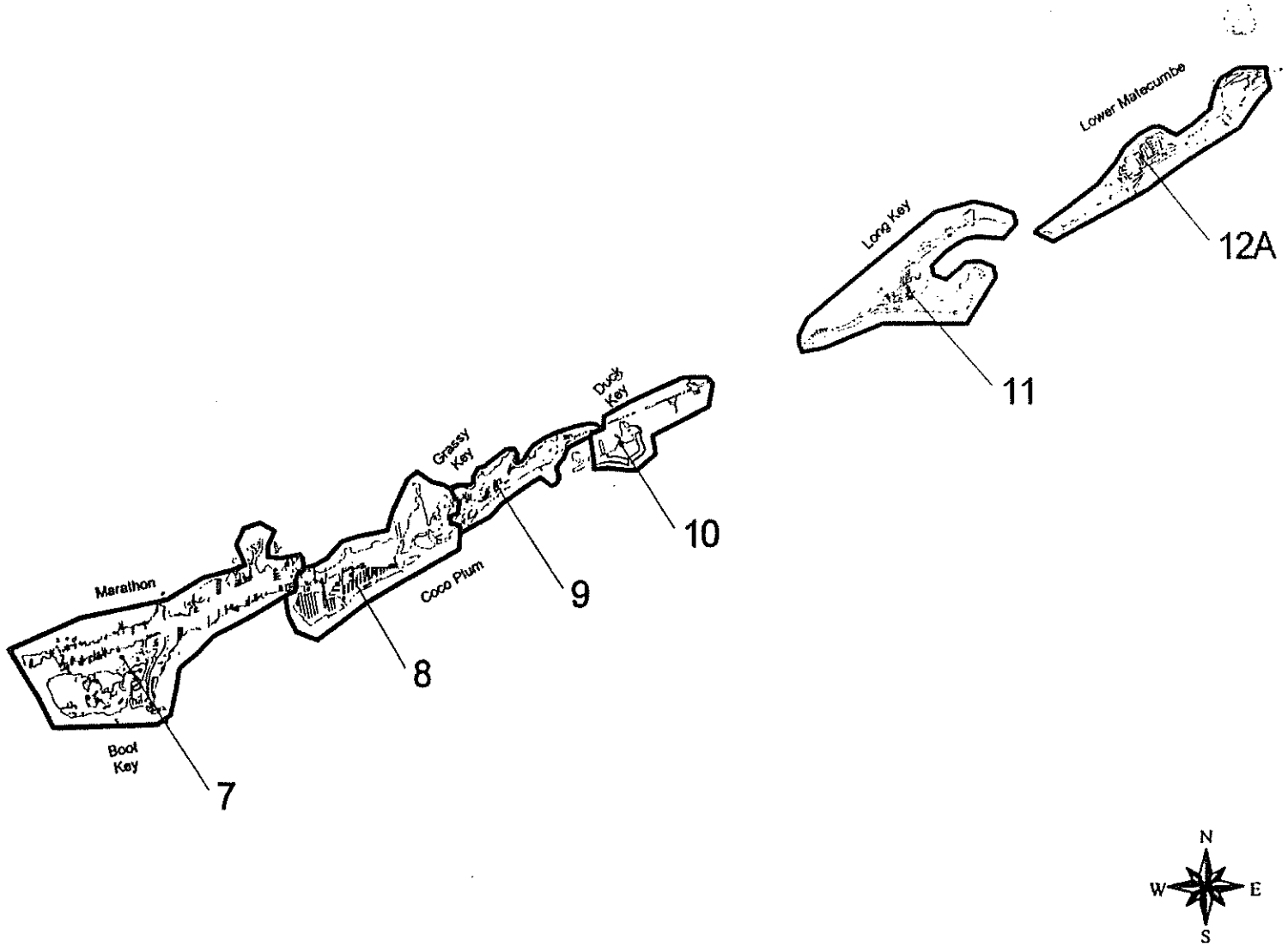
Monroe County
Growth Management Division

Planning Analysis Area/Enumeration Districts



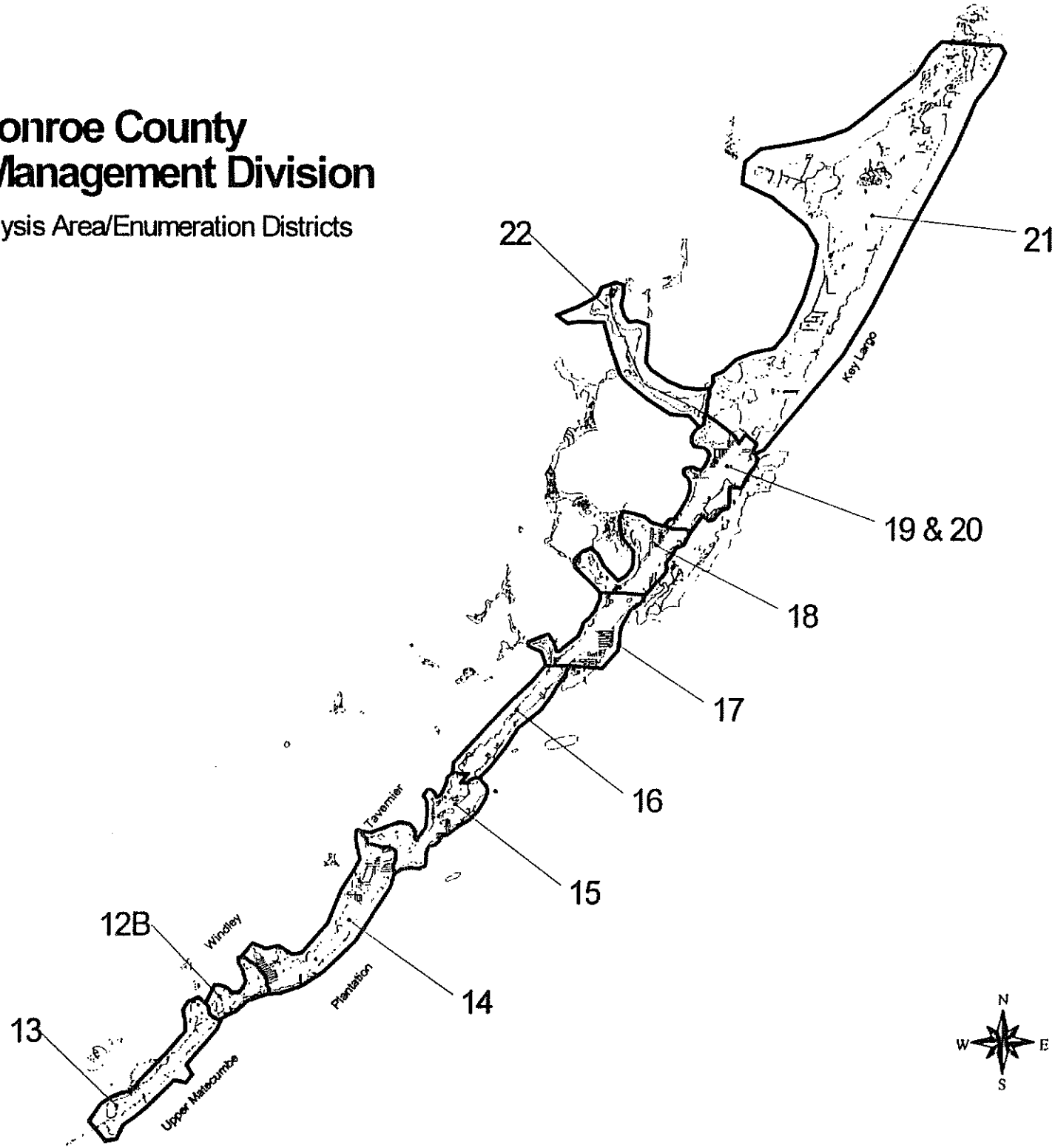
Monroe County
Growth Management Division

Planning Analysis Area/Enumeration Districts



Monroe County
Growth Management Division

Planning Analysis Area/Enumeration Districts



Appendix 3

Summary Table of Permanent Resident, Peak Seasonal, and Functional Population Figures by PAED from 1990 to 2015

Functional Population

PAED	1990 Permanent Resident Population	1990 Seasonal Population	1990 Functional Population	1991 Permanent Resident Population	1991 Seasonal Population	1991 Functional Population	1992 Permanent Resident Population	1992 Seasonal Population	1992 Functional Population	1993 Permanent Resident Population	1993 Seasonal Population	1993 Functional Population	1994 Permanent Resident Population	1994 Seasonal Population
Lower Keys														
1	4,560	1,273	5,833	4,581	1,274	5,855	4,597	1,275	5,873	4,604	1,276	5,880	4,621	1,277
2	3,140	1,257	4,398	3,179	1,261	4,440	3,195	1,260	4,455	3,207	1,269	4,476	3,241	1,269
3	1,844	1,686	3,530	1,876	1,688	3,564	1,915	1,698	3,603	1,965	1,708	3,673	2,006	1,705
4a	4,074	2,730	6,803	4,209	2,791	7,000	4,306	2,830	7,137	4,411	2,908	7,318	4,504	2,939
4b	37	15	51	41	16	56	44	17	61	47	19	66	48	19
5	4,352	3,096	7,448	4,482	3,131	7,613	4,568	3,151	7,719	4,695	3,201	7,896	4,765	3,213
6	440	1,883	2,323	440	1,883	2,323	440	1,863	2,323	440	1,983	2,323	440	1,883
Subtotal	18,446	11,940	30,387	18,809	12,044	30,853	19,066	12,105	31,170	19,368	12,264	31,632	19,626	12,305
Middle Keys														
7	8,932	6,730	15,662	8,981	6,696	15,678	9,041	6,645	15,686	9,080	8,813	15,893	9,118	6,714
8	707	2,051	2,758	714	2,033	2,747	719	2,003	2,722	725	2,089	2,814	731	2,038
9	1,101	1,130	2,231	1,114	1,130	2,244	1,119	1,126	2,245	1,135	1,142	2,277	1,140	1,135
10	653	338	992	664	339	1,002	674	336	1,011	685	351	1,037	697	348
11	357	1,948	2,304	357	1,946	2,303	358	1,944	2,302	359	1,996	2,345	359	1,980
12a	976	1,211	2,187	1,005	1,231	2,236	1,041	1,255	2,296	1,054	1,291	2,345	1,066	1,287
12b	140	950	1,090	150	937	1,087	150	909	1,058	150	975	1,125	150	929
13	1,226	3,083	4,309	1,241	3,149	4,391	1,250	3,077	4,327	1,287	3,265	4,532	1,288	3,142
Subtotal	14,092	17,441	31,533	14,226	17,461	31,687	14,351	17,297	31,648	14,465	17,913	32,368	14,628	17,574
Upper Keys														
14	4,514	2,936	7,449	4,649	3,002	7,651	4,740	3,042	7,782	4,804	3,099	7,903	4,856	3,112
15	2,610	1,585	4,195	2,713	1,628	4,341	2,739	1,631	4,369	2,826	1,696	4,521	2,913	1,722
16	2,290	4,520	6,811	2,297	4,507	6,805	2,304	4,486	6,790	2,310	4,559	6,869	2,323	4,526
17	2,544	2,514	5,058	2,615	2,508	5,123	2,691	2,487	5,168	2,807	2,649	5,455	2,863	2,594
18	4,163	4,150	8,313	4,206	4,156	8,362	4,234	4,151	8,385	4,362	4,569	8,931	4,381	4,534
19-20	2,494	2,125	4,619	2,575	2,161	4,736	2,626	2,330	4,956	2,666	2,368	5,033	2,678	2,360
21	1,530	2,944	4,473	1,543	2,953	4,496	1,553	2,955	4,508	1,562	3,001	4,563	1,565	2,982
22	61	103	164	61	103	164	61	103	164	63	103	166	63	103
Subtotal	20,205	20,876	41,081	20,660	21,019	41,679	20,937	21,186	42,122	21,399	22,043	43,442	21,641	21,936
TOTAL	**52,743**	**50,258**	**103,000**	**53,694**	**50,524**	**104,219**	**54,354**	**50,586**	**104,940**	**55,222**	**52,220**	**107,442**	**55,793**	**51,814**
Village of Islamorada	-	-	-	-	-	-	-	-	-	-	-	-	-	-
City of Layton	186	155	341	189	155	345	191	154	344	192	160	352	194	157
City of Key Colony B.	989	1,489	2,478	993	1,493	2,486	1,006	1,506	2,512	1,023	1,539	2,562	1,030	1,542
City of Marathon	-	-	-	-	-	-	-	-	-	-	-	-	-	-
City of Key West (p)	24,938	18,591	43,529	25,043	18,233	43,277	25,149	17,723	42,872	25,255	18,965	44,220	25,360	18,131
COUNTY TOTAL (q)	**78,855**	**70,493**	**149,348**	**79,920**	**70,406**	**150,326**	**80,699**	**69,969**	**150,668**	**81,691**	**72,884**	**154,575**	**82,378**	**71,644**

Prepared by the Monroe County Planning Department. See Footnotes for sources.

PAED	1994 Functional Population	1995 Permanent Resident Population	1995 Seasonal Population	1995 Functional Population	1996 Permanent Resident Population	1996 Seasonal Population	1996 Functional Population	1997 Permanent Resident Population	1997 Seasonal Population	1997 Functional Population	1998 Permanent Resident Population	1998 Seasonal Population	1998 Functional Population	1999 Permanent Resident Population
Lower Keys														
1	5,898	4,628	1,278	5,905	4,658	1,279	5,937	4,684	1,280	5,964	4,707	1,281	5,988	4,719
2	4,510	3,255	1,269	4,524	3,280	1,275	4,555	3,297	1,277	4,574	3,313	1,274	4,587	3,319
3	3,711	2,039	1,706	3,745	2,080	1,717	3,797	2,105	1,720	3,825	2,133	1,716	3,849	2,160
4a	7,442	4,612	2,987	7,599	4,714	3,047	7,761	4,804	3,093	7,897	4,872	3,110	7,983	4,916
4b	67	49	20	69	51	20	71	55	22	77	56	22	79	56
5	7,978	4,828	3,228	8,057	4,909	3,257	8,166	4,936	3,265	8,201	4,964	3,264	8,228	4,974
6	2,323	440	1,883	2,323	440	1,883	2,323	440	1,883	2,323	440	1,893	2,323	440
Subtotal	31,930	19,852	12,371	32,223	20,132	12,477	32,609	20,320	12,641	32,861	20,486	12,661	33,036	20,684
Middle Keys														
7	15,830	9,185	6,682	15,847	9,196	6,743	15,939	9,233	6,754	15,987	9,260	6,649	15,909	9,284
8	2,769	737	2,021	2,758	743	2,053	2,796	748	2,057	2,805	752	2,003	2,754	755
9	2,275	1,148	1,134	2,282	1,159	1,141	2,300	1,169	1,143	2,312	1,173	1,135	2,308	1,174
10	1,045	699	346	1,045	701	350	1,051	706	406	1,112	708	707	1,416	711
11	2,339	359	1,978	2,336	372	2,002	2,374	377	2,008	2,385	377	2,002	2,378	377
12a	2,355	1,086	1,298	2,383	1,097	1,318	2,413	1,104	1,322	2,426	-	-	-	-
12b	1,079	152	911	1,063	152	934	1,085	153	934	1,087	-	-	-	-
13	4,410	1,273	3,092	4,365	1,278	3,155	4,433	1,279	3,155	4,435	-	-	-	-
Subtotal	32,102	14,619	17,461	32,080	14,698	17,692	32,390	14,769	17,781	32,549	12,270	12,496	24,765	12,301
Upper Keys														
14	7,968	4,905	3,132	8,037	4,941	3,159	8,100	5,008	3,196	8,203	-	-	-	-
15	4,635	2,925	1,721	4,646	2,947	1,740	4,687	2,952	1,742	4,694	2,961	1,730	4,691	2,968
16	6,849	2,331	4,515	6,846	2,338	4,545	6,883	2,341	4,549	6,890	2,346	4,505	6,851	2,349
17	5,458	2,815	2,582	5,498	2,966	2,640	5,606	3,004	2,655	5,659	3,049	2,593	5,642	3,075
18	8,915	4,408	4,526	8,934	4,431	4,555	8,986	4,462	4,566	9,028	4,484	4,531	9,014	4,501
19-20	5,038	2,693	2,362	5,055	2,713	2,378	5,091	2,727	2,384	5,111	2,738	2,376	5,113	2,751
21	4,548	1,572	2,983	4,555	1,587	3,016	4,603	1,596	3,029	4,626	1,619	3,039	4,658	1,642
22	166	63	104	166	63	104	166	64	104	168	64	104	168	64
Subtotal	43,576	21,811	21,926	43,737	21,986	22,136	44,121	22,154	22,225	44,378	17,261	18,877	36,138	17,360
TOTAL	107,607	56,282	51,758	108,040	56,816	52,305	109,121	57,243	52,546	109,788	50,016	43,924	93,939	50,236
Village of Islamorada	-	-	-	-	-	-	-	-	-	-	7,590	8,411	16,001	7,641
City of Layton	351	197	157	354	198	159	357	201	160	361	203	158	361	206
City of Key Colony B.	2,572	1,045	1,561	2,606	1,050	1,571	2,621	1,058	1,583	2,641	1,074	1,597	2,671	1,089
City of Marathon	-	-	-	-	-	-	-	-	-	-	-	-	-	-
City of Key West (p)	43,491	25,466	17,790	43,256	25,572	18,216	43,787	25,677	18,233	43,910	25,783	17,365	43,148	25,942
COUNTY TOTAL (q)	154,022	82,990	71,266	154,255	83,635	72,251	155,886	84,179	72,521	156,700	84,665	71,454	156,120	85,114

Prepared by the Monroe County Planning Department. See Footnotes for sources.

Functional Population

PAED	1999 Seasonal Population	1999 Functional Population	2000 Permanent Resident Population	2000 Seasonal Population	2000 Functional Population	2001 Permanent Resident Population	2001 Seasonal Population	2001 Functional Population	2002 Permanent Resident Population	2002 Seasonal Population	2002 Functional Population	2003 Permanent Resident Population	2003 Seasonal Population	2003 Functional Population
Lower Keys														
1	1,262	6,001	4,730	1,283	6,013	4,741	1,284	6,025	4,752	1,284	6,037	4,763	1,285	6,048
2	1,276	4,595	3,333	1,282	4,615	3,346	1,284	4,630	3,359	1,286	4,645	3,372	1,288	4,660
3	1,721	3,861	2,183	1,731	3,914	2,206	1,734	3,941	2,230	1,736	3,967	2,253	1,741	3,994
4a	3,135	8,050	4,975	3,178	8,154	5,035	3,209	8,244	5,095	3,239	8,334	5,155	3,270	8,424
4b	22	79	58	23	81	59	24	83	61	24	85	63	25	87
5	3,268	8,243	5,022	3,289	8,311	5,069	3,304	8,373	5,117	3,318	8,435	5,165	3,332	8,497
6	1,883	2,323	440	1,893	2,323	440	1,883	2,323	440	1,883	2,323	440	1,883	2,323
Subtotal	12,587	33,171	20,741	12,669	33,410	20,897	12,721	33,618	21,053	12,773	33,826	21,210	12,824	34,034
Middle Keys														
7	6,861	16,165	-	-	-	-	-	-	-	-	-	-	-	-
8	2,013	2,768	-	-	-	-	-	-	-	-	-	-	-	-
9	1,137	2,311	-	-	-	-	-	-	-	-	-	-	-	-
10	743	1,454	719	835	1,553	728	902	1,629	734	970	1,704	742	972	1,714
11	2,002	2,379	379	2,011	2,391	382	2,015	2,397	385	2,019	2,404	387	2,023	2,410
12a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal	12,775	25,077	1,098	2,846	3,944	1,108	2,917	4,026	1,119	2,989	4,108	1,129	2,995	4,124
Upper Keys														
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	1,736	4,704	2,991	1,759	4,749	3,013	1,770	4,783	3,036	1,781	4,616	3,058	1,792	4,850
16	4,515	6,864	2,352	4,554	6,905	2,354	4,556	6,911	2,357	4,559	6,918	2,360	4,622	6,981
17	2,612	5,687	3,100	2,683	5,783	3,126	2,694	5,819	3,151	2,704	5,855	3,177	2,714	5,891
18	4,542	9,043	4,516	4,580	9,097	4,532	4,586	9,118	4,548	4,592	9,140	4,564	4,598	9,181
19-20	2,384	5,135	2,764	2,400	5,163	2,776	2,405	5,182	2,789	2,411	5,200	2,801	2,417	5,218
21	3,075	4,716	1,647	3,101	4,748	1,653	3,109	4,762	1,659	3,118	4,776	1,665	3,126	4,791
22	104	168	65	104	169	65	104	169	65	104	169	65	104	169
Subtotal	18,967	36,317	17,435	19,180	36,615	17,619	19,224	36,744	17,604	19,269	36,872	17,689	19,372	37,061
TOTAL	44,329	94,565	39,273	34,696	73,969	39,525	34,863	74,387	39,776	35,030	74,806	40,027	35,192	75,219
Village of Islamorada	8,467	16,108	7,665	8,644	16,309	7,695	8,662	16,357	7,725	8,680	16,406	7,755	8,699	16,454
City of Layton	159	365	208	163	372	211	165	375	213	166	379	216	167	383
City of Key Colony B.	1,619	2,708	1,101	1,641	2,742	1,113	1,657	2,770	1,125	1,674	2,798	1,136	1,690	2,827
City of Marathon	-	-	11,272	10,182	21,455	11,312	10,195	21,507	11,352	10,208	21,560	11,391	10,221	21,612
City of Key West (p)	17,483	43,426	26,102	18,165	44,267	26,261	18,182	44,443	26,421	18,198	44,619	26,524	18,209	44,733
COUNTY TOTAL (q)	72,058	157,172	85,622	73,491	159,113	86,117	73,723	159,840	86,612	73,956	160,568	87,050	74,177	161,227

Functional Population

PAED	2004 Permanent Resident Population	2004 Seasonal Population	2004 Functional Population	2005 Permanent Resident Population	2005 Seasonal Population	2005 Functional Population	2006 Permanent Resident Population	2006 Seasonal Population	2006 Functional Population	2007 Permanent Resident Population	2007 Seasonal Population	2007 Functional Population	2008 Permanent Resident Population	2008 Seasonal Population
Lower Keys														
1	4,779	1,286	6,065	4,791	1,287	6,077	4,797	1,287	6,085	4,799	1,269	6,088	4,796	1,290
2	3,390	1,291	4,681	3,406	1,293	4,699	3,418	1,295	4,713	3,426	1,297	4,723	3,431	1,299
3	2,288	1,746	4,034	2,321	1,751	4,072	2,353	1,756	4,109	2,382	1,762	4,144	2,410	1,767
4a	5,249	3,318	8,567	5,339	3,364	8,704	5,426	3,409	8,835	5,509	3,452	8,961	5,588	3,492
4b	65	26	91	68	27	95	71	28	99	73	29	103	76	30
5	5,233	3,352	8,586	5,297	3,372	8,669	5,357	3,389	8,747	5,412	3,407	8,820	5,463	3,424
6	440	1,693	2,323	440	1,883	2,323	439	1,883	2,322	437	1,885	2,322	436	1,887
Subtotal	**21,445**	**12,903**	**34,347**	**21,662**	**12,977**	**34,639**	**21,860**	**13,048**	**34,908**	**22,040**	**13,121**	**35,160**	**22,199**	**13,189**
Middle Keys														
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	749	975	1,724	756	977	1,732	762	979	1,740	767	981	1,748	771	983
11	390	2,027	2,416	392	2,030	2,422	393	2,033	2,426	395	2,036	2,431	396	2,039
12a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal	**1,139**	**3,002**	**4,140**	**1,147**	**3,007**	**4,154**	**1,155**	**3,011**	**4,166**	**1,161**	**3,017**	**4,179**	**1,167**	**3,022**
Upper Keys														
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	3,096	1,810	4,906	3,131	1,827	4,958	3,163	1,843	5,006	3,193	1,857	5,050	3,219	1,871
16	2,365	4,627	6,992	2,368	4,631	6,999	2,369	4,632	7,000	2,367	4,632	6,999	2,363	4,630
17	3,232	2,736	5,968	3,285	2,757	6,042	3,335	2,778	6,112	3,382	2,798	6,180	3,427	2,817
18	4,596	4,609	9,205	4,624	4,620	9,244	4,648	4,629	9,276	4,667	4,638	9,305	4,682	4,647
19-20	2,826	2,429	5,255	2,849	2,439	5,288	2,869	2,449	5,317	2,886	2,458	5,344	2,900	2,465
21	1,675	3,142	4,818	1,685	3,156	4,840	1,692	3,167	4,859	1,698	3,176	4,875	1,703	3,183
22	65	104	170	66	105	170	66	105	170	66	105	171	66	105
Subtotal	**17,856**	**19,458**	**37,314**	**18,007**	**19,534**	**37,541**	**18,142**	**19,600**	**37,742**	**18,260**	**19,664**	**37,924**	**18,361**	**19,718**
TOTAL	**40,439**	**35,362**	**75,801**	**40,816**	**35,518**	**76,334**	**41,157**	**35,659**	**76,816**	**41,461**	**35,802**	**77,263**	**41,726**	**35,929**
Village of Islamorada	7,830	8,719	16,549	7,897	8,735	16,632	7,957	8,746	16,703	8,010	8,756	16,765	8,055	8,761
City of Layton	219	168	386	221	169	390	223	170	393	225	171	396	226	172
City of Key Colony B.	1,149	1,707	2,856	1,160	1,723	2,883	1,170	1,737	2,907	1,179	1,750	2,929	1,187	1,761
City of Marathon	11,441	10,231	21,673	11,480	10,238	21,718	11,508	10,241	21,749	11,524	10,247	21,771	11,529	10,250
City of Key West (p)	26,628	17,343	43,970	26,731	17,354	44,085	26,793	17,360	44,153	26,855	17,381	44,236	26,917	17,402
COUNTY TOTAL (q)	**87,705**	**73,531**	**161,235**	**88,305**	**73,737**	**162,041**	**88,808**	**73,914**	**162,722**	**89,253**	**74,108**	**163,361**	**89,640**	**74,275**

Prepared by the Monroe County Planning Department. See Footnotes for sources.

Funclional Population

PAED	2008 Functional Population	2009 Permanent Resident Population	2009 Seasonal Population	2009 Functional Population	2010 Permanent Resident Population	2010 Seasonal Population	2010 Functional Population	2011 Permanent Resident Population	2011 Seasonal Population	2011 Functional Population	2012 Permanent Resident Population	2012 Seasonal Population	2012 Functional Population	2013 Permanent Resident Population
Lower Keys														
1	6,086	4,788	1,291	6,079	4,775	1,291	6,067	4,758	1,292	6,050	4,736	1,293	6,029	4,709
2	4,730	3,433	1,300	4,732	3,431	1,300	4,731	3,426	1,300	4,726	3,417	1,300	4,717	3,405
3	4,177	2,435	1,772	4,207	2,458	1,777	4,236	2,479	1,782	4,261	2,498	1,786	4,284	2,514
4a	9,080	5,662	3,531	9,193	5,732	3,567	9,299	5,797	3,601	9,397	5,856	3,832	9,488	5,911
4b	106	79	31	110	82	33	114	85	34	118	89	35	123	91
5	8,887	5,508	3,439	8,947	5,548	3,453	9,001	5,583	3,465	9,048	5,613	3,476	9,088	5,637
6	2,322	433	1,889	2,322	431	1,891	2,321	428	1,892	2,320	424	1,894	2,319	421
Subtotal	35,388	22,339	13,263	35,592	22,458	13,312	35,770	22,555	13,366	35,922	22,632	13,415	36,047	22,687
Middle Keys														
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	1,754	775	985	1,760	778	987	1,765	780	988	1,768	781	990	1,771	782
11	2,434	396	2,041	2,437	396	2,043	2,439	396	2,044	2,440	395	2,044	2,440	394
12a	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal	4,189	1,171	3,026	4,197	1,174	3,030	4,204	1,176	3,032	4,208	1,177	3,034	4,211	1,176
Upper Keys														
14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	5,090	3,243	1,882	5,125	3,264	1,893	5,156	3,281	1,901	5,182	3,295	1,909	5,204	3,306
16	6,993	2,357	4,625	6,981	2,348	4,818	6,965	2,337	4,608	6,945	2,323	4,596	6,919	2,306
17	6,245	3,470	2,836	6,305	3,509	2,853	6,362	3,545	2,869	6,414	3,578	2,883	6,461	3,608
18	9,328	4,692	4,653	9,345	4,697	4,858	9,355	4,697	4,861	9,359	4,693	4,683	9,358	4,685
19-20	5,366	2,912	2,472	5,384	2,921	2,477	5,398	2,927	2,481	5,408	2,930	2,484	5,413	2,930
21	4,886	1,705	3,188	4,893	1,706	3,190	4,896	1,705	3,189	4,895	1,703	3,187	4,890	1,699
22	171	66	105	171	66	105	171	68	105	171	65	105	171	65
Subtotal	38,078	18,444	19,761	38,205	18,510	19,793	38,303	18,558	19,815	38,373	18,588	19,826	38,414	18,600
TOTAL	77,656	41,954	36,040	77,994	42,142	36,135	78,277	42,290	36,213	78,503	42,397	36,275	78,672	42,464
Village of Islamorada	16,816	8,092	8,762	16,853	8,121	8,758	16,878	8,142	8,749	16,891	8,155	8,735	16,890	8,180
City of Layton	399	228	173	401	229	174	403	230	174	405	231	175	406	232
City of Key Colony B.	2,948	1,194	1,771	2,965	1,200	1,779	2,978	1,204	1,785	2,989	1,207	1,790	2,997	1,210
City of Marathon	21,778	11,522	10,249	21,770	11,503	10,244	21,747	11,473	10,236	21,709	11,432	10,224	21,656	11,379
City of Key West (p)	44,319	28,979	17,423	44,402	27,041	17,444	44,485	27,103	17,465	44,568	27,185	17,486	44,651	27,227
COUNTY TOTAL (q)	163,916	89,968	74,41~~7~~ 38378	164,385	90,236	74,533	164,769	90,442	74,622	165,064	90,588	74,685	165,272	90,671

Prepared by the Monroe County Planning Department. See Footnotes for sources.

PAED	2013 Seasonal Population	2013 Functional Population	2014 Permanent Resident Population	2014 Seasonal Population	2014 Functional Population	2015 Permanent Resident Population	2015 Seasonal Population	2015 Functional Population
Lower Keys								
1	1,293	6,002	4,678	1,293	5,971	4,642	1,293	5,936
2	1,299	4,704	3,390	1,298	4,688	3,371	1,296	4,667
3	1,790	4,304	2,528	1,793	4,322	2,540	1,797	4,336
4a	3,660	9,571	5,960	3,686	9,645	6,003	3,709	9,712
4b	36	127	84	37	131	96	38	135
5	3,484	9,121	5,655	3,492	9,147	5,668	3,497	9,166
6	1,896	2,317	416	1,898	2,315	412	1,900	2,312
Subtotal	13,459	36,146	22,721	13,497	36,218	22,733	13,530	36,263
Middle Keys								
7	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-
10	890	1,773	782	891	1,773	781	992	1,773
11	2,044	2,438	393	2,043	2,436	391	2,042	2,433
12a	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-
Subtotal	3,035	4,211	1,175	3,034	4,209	1,172	3,034	4,206
Upper Keys								
14	-	-	-	-	-	-	-	-
15	1,914	5,221	3,314	1,918	5,232	3,318	1,921	5,239
16	4,581	6,889	2,280	4,564	6,854	2,270	4,545	6,815
17	2,897	6,504	3,634	2,909	6,543	3,657	2,919	6,576
18	4,662	9,347	4,671	4,660	9,331	4,653	4,657	9,310
19-20	2,485	5,414	2,927	2,484	5,411	2,921	2,483	5,404
21	3,181	4,880	1,693	3,173	4,866	1,685	3,163	4,849
22	105	171	65	106	170	64	106	170
Subtotal	19,826	38,426	18,694	19,815	38,408	18,569	19,793	38,362
TOTAL	**36,319**	**78,783**	**42,489**	**36,347**	**78,836**	**42,474**	**36,357**	**78,831**
Village of Islamorada	8,717	16,877	8,157	8,694	16,851	8,145	8,667	16,812
City of Layton	175	407	232	175	407	232	175	408
City of Key Colony B.	1,793	3,003	1,211	1,794	3,005	1,210	1,794	3,004
City of Marathon	10,210	21,589	11,316	10,191	21,507	11,241	10,170	21,411
City of Key West (p)	17,507	44,734	27,289	17,528	44,817	27,351	17,549	44,900
COUNTY TOTAL (q)	**74,720**	**165,392**	**90,693**	**74,730**	**165,423**	**90,654**	**74,712**	**165,366**

Prepared by the Monroe County Planning Department. See Footnotes for sources.

Appendix 4

Summary Table of Permanent Resident Population Figures by PAED from 1990 to 2015

1	2	3	4	5	6	7	8	9	10	11	12	13	14
PAED	1990 Census Tract (s)	1990 Census Block Groups	April 1, 1990 STF1A Total Population	April 1, 1990 STF1A Total Housing Units	April 1, 1990 STF 1A Total Occupied Housing Units	April 1, 1990 STF 1A Total Owner-Occupied Housing Units	April 1, 1990 STF 1A Total Renter-Occupied Housing Units	April 1, 1990 STF 1A Number of Vacant Housing Units	April 1, 1990 Housing Unit Percent Vacant (9 / 5)	April 1, 1990 STF 1A Total Number of Seasonal Units	April 1, 1990 Percent of Total Units Used as Seasonal (11 / 5)	Persons per Total Housing Units (l) (4 / 5)	Total Number of Dwelling Units Completed 4/2/90 - 12/31/90 Based on # of CO's Issued
Lower Keys													
1	9718 & 9719 pt.	N/A	4,539	1,944	1,778	1,137	641	166	8.5%	43	2.2%	2.33	9
2	9717	N/A	3,108	1,352	1,098	686	412	254	18.8%	142	10.5%	2.30	14
3	9716	N/A	1,786	869	728	553	175	141	16.2%	86	9.9%	2.06	28
4a	9715	N/A	3,952	2,723	1,784	1,408	376	939	34.5%	654	24.0%	1.45	84
4b	9714 pt.	BG 4 (a)	31	27	15	13	2	12	44.4%	4	14.8%	1.15	5
5	9714 pt.	BG 1,2,3,4,5 (a)	4,206	2,453	1,799	1,385	414	654	26.7%	402	16.4%	1.71	85
6	9714 pt. & 9713 pt.	9714 BG 1 (b)	440	33	31	30	1	2	6.1%	0	0.0%	13.33	0
Subtotal	-	-	18,062	9,401	7,233	5,212	2,021	2,168	23.1%	1,331	14.2%	1.92	225
Middle Keys													
7	9713, 9712, & 9711	N/A	8,864	5,212	3,955	2,590	1,365	1,257	24.1%	777	14.9%	1.70	40
8	9710 pt.	BG 3 (c)	697	575	330	392	183	245	42.6%	197	34.3%	1.21	8
9	9710 pt.	BG 2 (d)	1,086	665	462	519	146	203	30.5%	90	13.5%	1.63	9
10	9710 pt.	BG 2 (d)	629	491	341	383	108	150	30.5%	66	13.4%	1.28	19
11	9710 pt.	BG 1(e)	358	412	185	324	88	227	55.1%	176	42.7%	0.86	1
12a	9709 pt.	BG 5	956	855	458	355	103	397	46.4%	292	34.2%	1.12	18
12b	9709 pt.	BG 1,2 (f)	140	130	81	58	23	49	37.7%	38	29.2%	1.08	0
13	9709 pt.	BG 1,2,3,4 (f)	1,220	966	646	389	257	320	33.1%	220	22.8%	1.26	5
Subtotal	-	-	13,948	9,306	6,458	5,010	2,273	2,848	30.6%	1,856	19.9%	1.50	100
Upper Keys													
14	9708	N/A	4,405	2,961	1,937	1,457	480	1,024	34.6%	777	26.2%	1.49	73
15	9707	N/A	2,433	1,623	1,109	726	383	514	31.7%	383	23.6%	1.50	118
16	9708	N/A	2,287	1,987	1,061	800	281	926	46.6%	793	39.9%	1.15	3
17	9705	N/A	2,465	1,565	1,077	714	363	488	31.2%	319	20.4%	1.58	50
18	9704	N/A	4,127	2,440	1,737	1,313	424	703	28.8%	489	20.0%	1.69	21
19-20 (g)	9703	N/A	2,457	1,602	1,070	814	256	532	33.2%	371	23.2%	1.53	24
21	9702.98 pt.	BG 1,2,3 (h)	1,505	1,597	672	570	110	925	57.9%	706	44.2%	0.94	26
22	9701 pt.& 9702.98 pt.	BG 1 (h)	61	36	36	23	5	0	0.0%	0	0.0%	1.69	0
Subtotal	-	-	19,740	13,811	8,699	6,417	2,282	5,112	37.0%	3,838	27.8%	1.43	315
UNINC. TOTAL	-	-	51,750	32,518	22,390	16,639	6,576	10,128	31.1%	7,025	21.6%	1.59	640
Village of Islamorada	9709	N/A	-	-	-	-	-	-	-	-	-	-	-
City of Layton	9710	BG 1	183	145	77	48	29	68	46.9%	28	19.3%	1.26	2
City of Key Colony B.	9710	BG 3	977	1,152	518	318	137	634	55.0%	441	38.3%	0.85	14
City of Marathon	9710-9713	N/A	-	-	-	-	-	-	-	-	-	-	-
City of Key West (p)	9719-9726	N/A	24,832	12,221	10,424	4,384	6,040	1,797	14.7%	440	3.6%	2.03	96
COUNTY TOTAL (q)	-	-	77,742	46,036	33,409	21,389	12,782	12,627	27.4%	7,934	17.2%	1.69	752

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Census of Population; Certificate of Occupancy Data from Monroe County, Islamorada, Layton, Key Colony Beach and Key West Building Departments; Rate-of-Growth Ordinance guidelines

Permanent Residents

1	15	16	17	18	19	20	21	22	23	24	25	26
PAED	December 31, 1990 Total Housing Units (5 + 14)	December 31, 1990 Total Number of Seasonal Housing Units (12 x 16)	DECEMBER 31, 1990 PERMANENT RESIDENT POPULATION (j) (13 x 15)	Total Number of Dwelling Units Completed 1/1/91 - 12/31/91 Based on # of CO's Issued	December 31, 1991 Total Housing Units (15 + 18)	December 31, 1991 Total Number of Seasonal Housing Units (12 x 19)	DECEMBER 31, 1991 PERMANENT RESIDENT POPULATION (j) (13 x 19)	Total Number of Dwelling Units Completed 1/1/92 - 12/31/92 Based on # of CO's Issued	December 31, 1992 Total Housing Units (19 + 22)	December 31, 1992 Total Number of Seasonal Housing Units (12 x 23)	DECEMBER 31, 1992 PERMANENT RESIDENT POPULATION (j) (13 x 23)	Total Number of Dwelling Units Completed 1/1/93 - 12/31/93 Based on # of CO's Issued
Lower Keys												
1	1,953	43	4,560	9	1,962	43	4,581	7	1,969	44	4,597	3
2	1,366	143	3,140	17	1,363	145	3,179	7	1,390	146	3,195	5
3	897	89	1,844	16	913	90	1,876	19	932	92	1,915	24
4a	2,807	674	4,074	93	2,900	697	4,209	67	2,967	713	4,306	72
4b	32	5	37	4	36	5	41	2	38	6	44	3
5	2,536	416	4,352	76	2,614	428	4,482	50	2,684	437	4,568	74
6	33	0	440	0	33	0	440	0	33	0	440	0
Subtotal	9,626	1,370	18,446	215	9,841	1,409	18,809	152	9,993	1,437	19,066	181
Middle Keys												
7	5,252	783	8,932	29	5,281	787	8,981	35	5,316	793	9,041	23
8	583	200	707	6	589	202	714	4	593	203	719	5
9	674	91	1,101	8	682	92	1,114	3	685	93	1,119	10
10	510	69	653	8	518	70	664	8	526	71	674	9
11	413	176	357	0	413	176	357	1	414	177	358	1
12a	873	298	976	26	899	307	1,005	32	931	318	1,041	12
12b	130	38	140	9	139	41	150	0	139	41	150	0
13	971	221	1,226	12	983	224	1,241	7	990	225	1,250	13
Subtotal	9,406	1,876	14,092	98	9,504	1,899	14,226	90	9,594	1,920	14,351	73
Upper Keys												
14	3,034	796	4,514	91	3,125	620	4,649	61	3,186	838	4,740	43
15	1,741	411	2,610	69	1,810	427	2,713	17	1,827	431	2,739	58
16	1,990	794	2,290	6	1,996	797	2,297	6	2,002	799	2,304	5
17	1,615	329	2,544	45	1,660	338	2,615	42	1,702	347	2,681	80
18	2,461	493	4,163	26	2,487	498	4,206	16	2,503	502	4,234	76
19-20 (g)	1,626	377	2,494	53	1,679	389	2,575	33	1,712	396	2,626	26
21	1,623	717	1,530	14	1,637	724	1,543	11	1,648	729	1,553	10
22	36	0	61	0	36	0	61	0	36	0	61	1
Subtotal	14,126	3,918	20,205	304	14,430	3,993	20,660	186	14,616	4,040	20,937	299
UNINC. TOTAL	33,158	7,164	52,743	617	33,775	7,301	53,694	428	34,203	7,396	54,354	553
Village of Islamorada	-	-	-	-	-	-	-	-	-	-	-	-
City of Layton	147	28	186	3	150	29	189	1	151	29	191	1
City of Key Colony B.	1,166	446	989	5	1,171	448	993	15	1,186	454	1,006	20
City of Marathon	-	-	-	-	-	-	-	-	-	-	-	-
City of Key West (p)	12,317	443	24,938	96	12,413	447	25,043	96	12,509	450	25,149	96
COUNTY TOTAL (q)	46,788	8,082	78,855	721	47,509	8,225	79,920	540	48,049	8,330	80,699	670

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Census of Population; Certificate of Occupancy Data from Monroe County, Islamorada, Layton, Key Colony Beach and Key West Building Departments, Rate-of-Growth Ordinance guidelines

Permanent Residents

1	27	28	29	30	31	32	33	34	35	36	37	38
PAED	December 31, 1993 Total Housing Units (23 + 26)	December 31, 1993 Total Number of Seasonal Housing Units (12 x 27)	DECEMBER 31, 1993 PERMANENT RESIDENT POPULATION (j) (13 x 27)	Total Number of Dwelling Units Completed 1/1/94 - 12/31/94 Based on # of CO's Issued	December 31, 1994 Total Housing Units (27 + 30)	December 31, 1994 Total Number of Seasonal Housing Units (12 x 31)	DECEMBER 31, 1994 PERMANENT RESIDENT POPULATION (j) (13 x 31)	Total Number of Dwelling Units Completed 1/1/95 - 12/31/95 Based on # of CO's Issued	December 31, 1995 Total Housing Units (31 + 34)	December 31, 1995 Total Number of Seasonal Housing Units (12 x 35)	DECEMBER 31, 1995 PERMANENT RESIDENT POPULATION (j) (13 x 35)	Total Number of Dwelling Units Completed 1/1/96 - 12/31/96 Based on # of CO's Issued
Lower Keys												
1	1,972	44	4,604	7	1,979	44	4,621	3	1,982	44	4,628	13
2	1,395	147	3,207	15	1,410	148	3,241	6	1,416	149	3,255	11
3	956	95	1,965	20	976	97	2,006	16	992	96	2,039	20
4a	3,039	730	4,411	64	3,103	745	4,604	75	3,178	763	4,612	70
4b	41	6	47	1	42	6	48	1	43	6	49	1
5	2,738	449	4,695	41	2,779	455	4,765	37	2,816	461	4,828	47
6	33	0	440	0	33	0	440	0	33	0	440	0
Subtotal	**10,174**	**1,468**	**19,368**	**148**	**10,322**	**1,495**	**19,625**	**138**	**10,460**	**1,622**	**19,852**	**162**
Middle Keys												
7	5,339	796	9,080	21	5,360	799	8,116	29	5,389	803	9,165	18
8	598	205	726	5	603	207	731	5	608	208	737	5
9	695	94	1,135	3	698	94	1,140	5	703	95	1,148	7
10	535	72	685	9	544	73	697	2	546	73	699	1
11	415	177	359	0	415	177	359	0	415	177	359	16
12a	943	322	1,054	12	955	326	1,068	16	971	332	1,086	10
12b	139	41	160	0	139	41	150	2	141	41	152	0
13	1,003	228	1,267	1	1,004	229	1,268	4	1,008	230	1,273	4
Subtotal	**9,667**	**1,936**	**14,455**	**51**	**9,718**	**1,946**	**14,528**	**63**	**9,781**	**1,960**	**14,619**	**61**
Upper Keys												
14	3,229	847	4,804	35	3,264	857	4,866	33	3,297	865	4,905	24
15	1,885	445	2,826	58	1,943	459	2,913	8	1,951	460	2,925	15
16	2,007	801	2,310	11	2,018	805	2,323	7	2,025	808	2,331	6
17	1,782	363	2,807	36	1,818	371	2,863	33	1,851	377	2,915	32
18	2,579	517	4,362	11	2,590	519	4,381	16	2,606	522	4,408	14
19-20 (g)	1,738	402	2,666	8	1,746	404	2,678	10	1,756	407	2,693	13
21	1,658	733	1,562	3	1,661	734	1,565	7	1,668	737	1,572	16
22	37	0	63	0	37	0	63	0	37	0	63	0
Subtotal	**14,915**	**4,109**	**21,399**	**162**	**15,077**	**4,149**	**21,641**	**114**	**15,191**	**4,177**	**21,811**	**120**
UNINC. TOTAL	**34,756**	**7,513**	**55,222**	**361**	**35,117**	**7,590**	**55,793**	**315**	**35,432**	**7,659**	**56,282**	**343**
Village of Islamorada	-	-	-	-	-	-	-	-	-	-	-	-
City of Layton	152	29	192	2	154	30	194	2	156	30	197	1
City of Key Colony B.	1,206	462	1,023	8	1,214	465	1,030	18	1,232	472	1,045	6
City of Marathon	-	-	-	-	-	-	-	-	-	-	-	-
City of Key West (p)	12,605	454	25,255	96	12,701	457	25,360	96	12,797	461	25,466	96
COUNTY TOTAL (q)	**48,719**	**8,458**	**81,691**	**467**	**49,186**	**8,542**	**82,378**	**431**	**49,617**	**8,622**	**82,990**	**446**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Census of Population; Certificate of Occupancy Data from Monroe County, Islamorada, Layton, Key Colony Beach and Key West Building Departments; Rate-of-Growth Ordinance guidelines

Permanent Residents

1	39	40	41	42	43	44	45	46	47	48	49	50
PAED	December 31, 1996 Total Housing Units (35 + 38)	December 31, 1996 Total Number of Seasonal Housing Units (12 x 39)	DECEMBER 31, 1996 PERMANENT RESIDENT POPULATION (j) (13 x 39)	Total Number of Dwelling Units Completed 1/1/97 - 12/31/97 Based on # of CO's Issued	December 31, 1997 Total Housing Units (39 + 42)	December 31, 1997 Total Number of Seasonal Housing Units (12 x 43)	DECEMBER 31, 1997 PERMANENT RESIDENT POPULATION (j) (13 x 43)	Total Number of Dwelling Units Completed 1/1/98 - 12/31/98 Based on # of CO's Issued	December 31, 1998 Total Housing Units (43 + 46)	December 31, 1998 Total Number of Seasonal Housing Units (12 x 47)	DECEMBER 31, 1998 PERMANENT RESIDENT POPULATION (j) (13 x 47)	Total Number of Dwelling Units Completed 1/1/99 - 12/31/99 Based on # of CO's Issued (k)
Lower Keys												
1	1,995	44	4,658	11	2,006	44	4,684	10	2,016	45	4,707	5
2	1,427	150	3,280	7	1,434	151	3,297	7	1,441	151	3,313	3
3	1,012	100	2,080	12	1,024	101	2,105	14	1,038	103	2,133	13
4a	3,248	780	4,714	62	3,310	795	4,804	47	3,357	806	4,872	30
4b	44	7	51	4	48	7	55	1	49	7	56	0
5	2,863	469	4,909	16	2,879	472	4,936	16	2,895	474	4,964	6
6	33	0	440	0	33	0	440	0	33	0	440	0
Subtotal	10,622	1,550	20,132	112	10,734	1,570	20,320	95	10,829	1,567	20,485	57
Middle Keys												
7	5,407	806	9,196	22	5,429	809	9,233	16	5,445	812	9,260	14
8	613	210	743	4	617	211	748	3	620	212	752	3
9	710	96	1,159	6	716	97	1,169	2	718	97	1,173	1
10	547	74	701	4	551	74	706	2	553	74	708	2
11	431	184	372	5	436	186	377	0	436	186	377	0
12a	981	335	1,097	6	987	337	1,104	-	-	-	-	-
12b	141	41	152	1	142	42	153	-	-	-	-	-
13	1,012	230	1,278	1	1,013	231	1,279	-	-	-	-	-
Subtotal	9,842	1,977	14,698	49	9,891	1,987	14,769	23	7,772	1,382	12,270	20
Upper Keys												
14	3,321	871	4,941	45	3,366	883	5,008	-	-	-	-	-
15	1,966	464	2,947	3	1,969	465	2,952	6	1,975	466	2,961	5
16	2,031	811	2,338	3	2,034	812	2,341	4	2,038	813	2,346	3
17	1,883	384	2,966	24	1,907	389	3,004	29	1,936	395	3,049	16
18	2,620	525	4,431	18	2,638	529	4,462	13	2,651	531	4,484	10
19-20 (g)	1,769	410	2,713	9	1,778	412	2,727	7	1,785	413	2,738	9
21	1,684	744	1,587	10	1,694	749	1,596	24	1,718	759	1,619	24
22	37	0	63	1	38	0	64	0	38	0	64	0
Subtotal	15,311	4,209	21,986	113	15,424	4,238	22,154	83	12,141	3,378	17,261	87
UNINC. TOTAL	**35,775**	**7,736**	**56,816**	**274**	**36,049**	**7,795**	**57,243**	**201**	**30,742**	**6,347**	**50,016**	**144**
Village of Islamorada	-	-	-	-	-	-	-	34	5,542	1,497	7,590	30
City of Layton	157	30	198	2	159	31	201	2	161	31	203	2
City of Key Colony B.	1,238	474	1,050	10	1,248	478	1,058	18	1,266	485	1,074	18
City of Marathon	-	-	-	-	-	-	-	-	-	-	-	-
City of Key West (p)	12,893	464	25,572	96	12,989	468	25,677	96	13,085	471	25,783	81
COUNTY TOTAL (q)	**50,063**	**8,704**	**83,635**	**382**	**50,445**	**8,771**	**84,179**	**351**	**50,796**	**8,831**	**84,665**	**275**

SEE FINAL PAGE FOR FOOTNOTES

COUNTER: 1998 Bureau of Population Data from Monroe County, Islamorada, Layton, Key Colony Beach and Key West Building Departments; Rate-of-Growth Ordinance guidelines

Permanent Residents

1	51	52	53	54	55	56	57	58	59	60	61	62
PAED	December 31, 1999 Total Housing Units (47 + 50)	December 31, 1999 Total Number of Seasonal Housing Units (12 x 51)	DECEMBER 31, 1999 PERMANENT RESIDENT POPULATION (k) (13 x 51)	Total Number of Dwelling Units Built from 4/2/90 to 12/31/99 (14+18+22+26+30+34+38+42+46+50)	Historical Percentage of Regional Total of Dwelling Units Built (54 / Subtotal)	Total Number of Dwelling Units Completed 1/1/00 - 12/31/00 Based on # of Permits Available (l)	December 31, 2000 Total Housing Units (51 + 56)	December 31, 2000 Total Number of Seasonal Housing Units (12 x 57)	DECEMBER 31, 2000 PERMANENT RESIDENT POPULATION (k) (13 x 57)	Total Number of Dwelling Units Completed 1/1/01 - 12/31/01 Based on # of Permits Available (l)	December 31, 2001 Total Housing Units (57 + 60)	December 31, 2001 Total Number of Seasonal Housing Units (12 x 61)
Lower Keys												
1	2,021	45	4,719	77	5.2%	5	2,026	45	4,730	5	2,031	45
2	1,444	152	3,319	92	6.2%	6	1,450	152	3,333	6	1,455	153
3	1,051	104	2,160	182	12.3%	11	1,062	105	2,183	11	1,074	106
4a	3,387	813	4,916	664	44.7%	41	3,428	823	4,975	41	3,469	833
4b	49	7	56	22	1.5%	1	50	7	58	1	52	8
5	2,901	475	4,974	448	30.2%	28	2,929	480	5,022	28	2,957	485
8	33	0	440	0	0.0%	0	33	0	440	0	33	0
Subtotal	**10,886**	**1,597**	**20,584**	**1,485**	**100.0%**	**92**	**10,978**	**1,613**	**20,741**	**92**	**11,070**	**1,629**
Middle Keys												
7	5,459	814	9,284	247	56.5%	-	-	-	-	-	-	-
8	623	213	755	48	11.0%	-	-	-	-	-	-	-
9	719	97	1,174	54	12.4%	-	-	-	-	-	-	-
10	555	75	711	64	14.6%	6	561	75	719	6	567	76
11	438	186	377	24	5.5%	3	439	188	379	3	442	189
12a	-	-	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal	**7,792**	**1,385**	**12,301**	**437**	**100.0%**	**9**	**1,000**	**263**	**1,098**	**9**	**1,009**	**265**
Upper Keys												
14	-	-	-	-	-	-	-	-	-	-	-	-
15	1,980	487	2,968	357	26.3%	15	1,995	471	2,991	15	2,010	474
16	2,041	815	2,349	54	4.0%	2	2,043	815	2,352	2	2,046	816
17	1,952	398	3,075	387	28.5%	18	1,968	401	3,100	16	1,984	405
18	2,881	533	4,501	221	16.3%	9	2,670	535	4,516	9	2,680	537
19-20 (g)	1,794	415	2,751	192	14.1%	8	1,802	417	2,764	8	1,810	419
21	1,742	770	1,642	145	10.7%	8	1,748	773	1,647	6	1,754	775
22	38	0	64	2	0.1%	0	38	0	65	0	38	0
Subtotal	**12,208**	**3,399**	**17,350**	**1,358**	**100.0%**	**57**	**12,265**	**3,413**	**17,435**	**57**	**12,322**	**3,427**
UNINC. TOTAL	**30,886**	**6,381**	**50,236**	**3,280**	**100.0%**	**158**	**24,243**	**5,289**	**39,273**	**158**	**24,401**	**5,321**
Village of Islamorada	5,580	1,507	7,641	668	100.0%	22	5,602	1,513	7,665	22	5,624	1,519
City of Layton	163	31	206	18	100.0%	2	165	32	208	2	167	32
City of Key Colony B.	1,284	492	1,089	132	100.0%	14	1,298	497	1,101	14	1,312	502
City of Marathon	-	-	-	-	-	24	6,831	1,127	11,272	24	6,855	1,130
City of Key West (p)	13,168	474	25,942	945	100.0%	81	13,247	477	26,102	81	13,328	480
COUNTY TOTAL (q)	**51,079**	**8,885**	**85,114**	**5,043**	**100.0%**	**301**	**51,386**	**8,934**	**85,622**	**301**	**51,687**	**8,986**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Census of Population; Certificate of Occupancy Data from Monroe County, Islamorada, Layton, Key Colony Beach and Key West Building Departments; Rate-of-Growth Ordinance guidelines

Permanent Residents

1	63	64	65	66	67	68	69	70	71	72	73
PAED	DECEMBER 31, 2001 PERMANENT RESIDENT POPULATION (k) (13 x 61)	Total Number of Dwelling Units Completed 1/1/02 - 12/31/02 Based on # of Permits Available (l)	December 31, 2002 Total Housing Units (61 + 64)	December 31, 2002 Total Number of Seasonal Housing Units (12 x 65)	DECEMBER 31, 2002 PERMANENT RESIDENT POPULATION (k) (13 x 65)	Total Number of Dwelling Units Completed 1/1/03 - 12/31/03 Based on # of Permits Available (l)	December 31, 2003 Total Housing Units (65 + 68)	December 31, 2003 Total Number of Seasonal Housing Units (12 x 69)	DECEMBER 31, 2003 PERMANENT RESIDENT POPULATION (k) (13 x 69)	% Increase in Population from 12/31/90 to 12/31/91 ((21 - 17) / 17)	% Increase in Population from 12/31/91 to 12/31/92 ((25 - 21) / 21)
Lower Keys											
1	4,741	5	2,035	45	4,752	5	2,040	45	4,763	0.46%	0.36%
2	3,346	6	1,461	153	3,359	6	1,487	154	3,372	1.24%	0.51%
3	2,206	11	1,085	107	2,230	11	1,096	108	2,253	1.78%	2.08%
4a	5,035	41	3,510	843	5,095	41	3,552	853	5,155	3.31%	2.31%
4b	59	1	53	8	61	1	54	8	63	12.50%	5.56%
5	5,069	26	2,984	489	5,117	28	3,012	494	5,165	2.99%	1.91%
6	440	0	33	0	440	0	33	0	440	0.00%	0.00%
Subtotal	20,897	92	11,162	1,646	21,053	92	11,254	1,662	21,210	1.97%	1.37%
Middle Keys											
7	-	-	-	-	-	-	-	-	-	0.55%	0.66%
8	-	-	-	-	-	-	-	-	-	1.03%	0.68%
9	-	-	-	-	-	-	-	-	-	1.19%	0.44%
10	725	6	573	77	734	6	579	78	742	1.57%	1.54%
11	382	3	445	190	385	3	448	191	387	0.00%	0.24%
12a	-	-	-	-	-	-	-	-	-	2.98%	3.56%
12b	-	-	-	-	-	-	-	-	-	6.92%	0.00%
13	-	-	-	-	-	-	-	-	-	1.24%	0.71%
Subtotal	1,108	9	1,018	267	1,119	9	1,027	269	1,129	0.95%	0.88%
Upper Keys											
14	-	-	-	-	-	-	-	-	-	3.00%	1.95%
15	3,013	15	2,025	478	3,036	15	2,040	481	3,058	3.96%	0.94%
16	2,354	2	2,046	817	2,357	2	2,050	818	2,360	0.30%	0.30%
17	3,126	16	2,001	408	3,151	16	2,017	411	3,177	2.79%	2.53%
18	4,532	9	2,689	539	4,548	9	2,698	541	4,564	1.06%	0.64%
19-20 (g)	2,776	8	1,818	421	2,789	8	1,826	423	2,801	3.28%	1.97%
21	1,653	6	1,760	778	1,659	6	1,768	781	1,665	0.86%	0.67%
22	65	0	38	0	65	0	38	0	65	0.00%	0.00%
Subtotal	17,519	57	12,379	3,441	17,804	57	12,436	3,455	17,689	2.25%	1.34%
UNINC. TOTAL	39,525	158	24,559	5,354	39,776	158	24,717	5,387	40,027	1.80%	1.23%
Village of Islamorada	7,695	22	5,646	1,525	7,725	22	5,668	1,531	7,755	-	-
City of Layton	211	2	169	33	213	2	171	33	216	2.04%	0.67%
City of Key Colony B.	1,113	14	1,326	508	1,125	14	1,340	513	1,136	0.43%	1.28%
City of Marathon	11,312	24	6,879	1,134	11,352	24	6,903	1,138	11,391	-	-
City of Key West (p)	26,261	81	13,409	483	26,421	0	13,409	483	26,524	0.42%	0.42%
COUNTY TOTAL (q)	86,117	301	51,988	9,037	86,612	220	52,208	9,085	87,050	1.35%	0.97%

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SOURCE: 1990 Census of Population; Certificate of Occupancy Data from Monroe County, Islamorada, Layton, Key Colony Beach and Key West Building Departments; Rate-of-Growth Ordinance guidelines

1	74	75	76	77	78	79	80	81	82	83	84
PAED	% Increase in Population from 12/31/92 to 12/31/93 [(29 - 25) / 25]	% Increase in Population from 12/31/93 to 12/31/94 [(33 - 29) / 29]	% Increase in Population from 12/31/94 to 12/31/95 [(37 - 33) / 33]	% Increase in Population from 12/31/95 to 12/31/96 [(41 - 37) / 37]	% Increase in Population from 12/31/96 to 12/31/97 [(45 - 41) / 41]	% Increase in Population from 12/31/97 to 12/31/98 [(49 - 45) / 45]	% Increase in Population from 12/31/98 to 12/31/99 (m) [(53 - 49) / 49]	% Increase in Population from 12/31/99 to 12/31/00 [(59 - 53) / 53]	% Increase in Population from 12/31/00 to 12/31/01 [(63 - 59) / 59]	% Increase in Population from 12/31/01 to 12/31/02 [(67 - 63) / 63]	% Increase in Population from 12/31/02 to 12/31/03 [(71 - 67) / 67]
Lower Keys											
1	0.15%	0.35%	0.15%	0.66%	0.55%	0.50%	0.25%	0.24%	0.24%	0.23%	0.23%
2	0.36%	1.08%	0.43%	0.78%	0.49%	0.49%	0.21%	0.39%	0.39%	0.39%	0.39%
3	2.58%	2.09%	1.64%	2.02%	1.19%	1.37%	1.25%	1.07%	1.06%	1.05%	1.04%
4a	2.43%	2.11%	2.42%	2.20%	1.91%	1.42%	0.89%	1.21%	1.20%	1.19%	1.17%
4b	7.89%	2.44%	2.38%	2.33%	9.09%	2.08%	0.00%	2.78%	2.71%	2.63%	2.57%
5	2.78%	1.50%	1.33%	1.67%	0.56%	0.56%	0.21%	0.96%	0.95%	0.94%	0.93%
6	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Subtotal	**1.59%**	**1.32%**	**1.16%**	**1.41%**	**0.94%**	**0.81%**	**0.48%**	**0.76%**	**0.75%**	**0.75%**	**0.74%**
Middle Keys											
7	0.43%	0.39%	0.54%	0.33%	0.41%	0.29%	0.26%	-	-	-	-
8	0.84%	0.84%	0.83%	0.82%	0.65%	0.49%	0.48%	-	-	-	-
9	1.46%	0.43%	0.72%	1.00%	0.85%	0.28%	0.14%	-	-	-	-
10	1.71%	1.68%	0.37%	0.18%	0.73%	0.36%	0.36%	1.08%	1.07%	1.06%	1.05%
11	0.24%	0.00%	0.00%	3.86%	1.16%	0.00%	0.00%	0.69%	0.68%	0.66%	0.67%
12a	1.29%	1.27%	1.68%	1.03%	0.61%	-	-	-	-	-	-
12b	0.00%	0.00%	1.44%	0.00%	0.71%	-	-	-	-	-	-
13	1.31%	0.10%	0.40%	0.40%	0.10%	-	-	-	-	-	-
Subtotal	**0.72%**	**0.50%**	**0.63%**	**0.54%**	**0.48%**	**0.30%**	**0.26%**	**0.92%**	**0.94%**	**0.93%**	**0.92%**
Upper Keys											
14	1.35%	1.08%	1.01%	0.73%	1.36%	-	-	-	-	-	-
15	3.17%	3.08%	0.41%	0.77%	0.15%	0.30%	0.25%	0.76%	0.75%	0.75%	0.74%
16	0.25%	0.55%	0.35%	0.30%	0.15%	0.20%	0.15%	0.11%	0.11%	0.11%	0.11%
17	4.70%	2.02%	1.82%	1.73%	1.27%	1.52%	0.83%	0.63%	0.83%	0.82%	0.81%
18	3.04%	0.43%	0.62%	0.54%	0.69%	0.49%	0.38%	0.35%	0.35%	0.35%	0.34%
19-20 (g)	1.52%	0.46%	0.57%	0.74%	0.51%	0.39%	0.50%	0.45%	0.45%	0.45%	0.44%
21	0.61%	0.18%	0.42%	0.96%	0.59%	1.42%	1.40%	0.35%	0.35%	0.35%	0.35%
22	2.78%	0.00%	0.00%	0.00%	2.70%	0.00%	0.00%	0.22%	0.22%	0.22%	0.22%
Subtotal	**2.21%**	**1.13%**	**0.79%**	**0.80%**	**0.76%**	**0.67%**	**0.52%**	**0.10%**	**0.49%**	**0.48%**	**0.48%**
UNINC. TOTAL	**1.60%**	**1.03%**	**0.88%**	**0.95%**	**0.75%**	**0.64%**	**0.44%**	**0.64%**	**0.64%**	**0.64%**	**0.63%**
Village of Islamorada	-	-	-	-	-	0.61%	0.67%	0.31%	0.39%	0.39%	0.39%
City of Layton	0.66%	1.32%	1.30%	0.64%	1.27%	1.26%	1.24%	1.23%	1.21%	1.20%	1.16%
City of Key Colony B.	1.69%	0.66%	1.48%	0.49%	0.81%	1.44%	1.42%	1.09%	1.08%	1.07%	1.06%
City of Marathon	-	-	-	-	-	-	-	0.44%	0.44%	0.44%	0.44%
City of Key West (p)	0.42%	0.42%	0.42%	0.41%	0.41%	0.41%	0.62%	0.61%	0.61%	0.61%	0.39%
COUNTY TOTAL (q)	**1.23%**	**0.84%**	**0.74%**	**0.78%**	**0.65%**	**0.58%**	**0.53%**	**0.60%**	**0.58%**	**0.57%**	**0.51%**

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SOURCE: 1990 Census of Population; Certificate of Occupancy Data from Monroe County, Islamorada, Layton, Key Colony Beach and Key West Building Departments; Rate-of-Growth Ordinance guidelines

Permanent Residents

1	85	86	87	88	89	90	91	92	93	94
PAED	Mean Averxge Percent Increase from 12/31/90 to 12/31/03 [(72+73+74+75+76+77+78+79+80+81+82+83 84) / # of Observations]	DECEMBER 31, 2004 PERMANENT RESIDENT POPULATION (n) [71 + (71 x 85)]	DECEMBER 31, 2005 PERMANENT RESIDENT POPULATION (o) [86+(86x(85-0.10%)]	DECEMBER 31, 2006 PERMANENT RESIDENT POPULATION (o) [87+(87x(85-0.20%)]	DECEMBER 31, 2007 PERMANENT RESIDENT POPULATION (o) [88+(88x(85-0.30%)]	DECEMBER 31, 2008 PERMANENT RESIDENT POPULATION (o) [89+(89x(85-0.40%)]	DECEMBER 31, 2009 PERMANENT RESIDEN7 POPULATION (o) [90+(90x(85-0.50%)]	DECEMBER 31, 2010 PERMANENT RESIDEN7 POPULATION (o) [91+(91x(85-0.60%)]	DECEMBER 31, 2011 PERMANENT RESIDENT POPULATION (o) [92+(92x(85-0.70%)]	DECEMBER 31, 2012 PERMANENT RESIDENT POPULATION (o) [93+(93x(85-0.80%)]
Lower Keys										
1	0.34%	4,779	4,791	4,797	4,799	4,796	4,788	4,775	4,758	4,738
2	0.55%	3,390	3,406	3,418	3,426	3,431	3,433	3,431	3,426	3,417
3	1.56%	2,288	2,321	2,353	2,382	2,410	2,436	2,458	2,479	2,498
4a	1.83%	5,249	5,339	5,426	5,509	5,588	5,662	5,732	5,797	5,856
4b	4.23%	65	68	71	73	76	79	82	85	88
5	1.33%	5,233	5,297	5,357	5,412	5,463	5,508	5,548	5,583	5,613
6	0.00%	440	440	439	437	436	433	431	428	424
Subtotal	1.08%	21,445	21,662	21,860	22,040	22,199	22,339	22,458	22,555	22,632
Middle Keys										
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
10	0.98%	749	756	762	767	771	775	778	780	781
11	0.63%	390	392	393	395	396	396	396	396	395
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	0.69%	1,139	1,147	1,155	1,161	1,167	1,171	1,174	1,176	1,177
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	1.23%	3,096	3,131	3,163	3,193	3,219	3,243	3,264	3,281	3,295
16	0.23%	2,365	2,368	2,369	2,367	2,363	2,357	2,348	2,337	2,323
17	1.73%	3,232	3,285	3,335	3,382	3,427	3,470	3,509	3,545	3,578
18	0.71%	4,596	4,624	4,648	4,667	4,682	4,692	4,697	4,697	4,693
19-20 (g)	0.90%	2,826	2,849	2,869	2,886	2,900	2,912	2,921	2,927	2,930
21	0.65%	1,675	1,686	1,692	1,698	1,703	1,705	1,706	1,705	1,703
22	0.49%	65	66	66	66	66	66	66	66	65
Subtotal	0.92%	17,858	18,007	18,142	18,260	18,361	18,444	18,510	18,558	18,588
UNINC. TOTAL	**0.91%**	**40,439**	**40,816**	**41,157**	**41,461**	**41,726**	**41,954**	**42,142**	**42,290**	**42,397**
Village of Islamorada	0.96%	7,830	7,897	7,957	8,010	8,055	8,092	8,121	8,142	8,155
City of Layton	1.17%	218	221	223	225	226	228	229	230	231
City of Key Colony B.	1.08%	1,149	1,160	1,170	1,179	1,187	1,194	1,200	1,204	1,207
City of Marathon	0.44%	11,441	11,480	11,508	11,524	11,529	11,522	11,503	11,473	11,432
City of Key West (p)	0.48%	26,628	26,731	26,793	26,855	26,917	26,979	27,041	27,103	27,165
COUNTY TOTAL (q)	**0.76%**	**87,705**	**88,305**	**88,808**	**89,253**	**89,640**	**89,968**	**90,236**	**90,442**	**90,588**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Census of Population; Certificate of Occupancy Data from Monroe County, Islamorada, Layton, Key Colony Beach and Key West Building Departments; Rate-of-Growth Ordinance guidelines

1	95	96	97
PAEO	DECEMBER 31, 2013 PERMANENT RESIDENT POPULATION (o) [94+[94x(65-0.90%)]]	DECEMBER 31, 2014 PERMANENT RESIDENT POPULATION (o) [95+[95x(65-1.0%)]]	DECEMBER 31, 2015 PERMANENT RESIDENT POPULATION (o) [96+[96x(65-1.1%)]]
Lower Keys			
1	4,709	4,678	4,642
2	3,405	3,390	3,371
3	2,514	2,528	2,540
4a	5,911	5,960	6,003
4b	91	94	96
5	5,637	5,655	5,668
6	421	416	412
Subtotal	22,687	22,721	22,733
Middle Keys			
7	-	-	-
8	-	-	-
9	-	-	-
10	782	782	781
11	394	393	391
12a	-	-	-
12b	-	-	-
13	-	-	-
Subtotal	1,176	1,175	1,172
Upper Keys			
14	-	-	-
15	3,306	3,314	3,318
16	2,308	2,290	2,270
17	3,608	3,634	3,657
18	4,685	4,671	4,653
19-20 (g)	2,930	2,927	2,921
21	1,699	1,693	1,685
22	65	65	64
Subtotal	18,600	18,594	18,569
UNINC. TOTAL	42,464	42,489	42,474
Village of Islamorada	8,160	8,157	8,145
City of Layton	232	232	232
City of Key Colony B.	1,210	1,211	1,210
City of Marathon	11,379	11,316	11,241
City of Key West (p)	27,227	27,289	27,351
COUNTY TOTAL (q)	90,671	90,693	90,654

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Census of Population; Certificate of Occupancy Data from Monroe County, Islamorada, Layton, Key Colony Beach and Key West Building Departments; Rate-of-Growth Ordinance guidelines

Appendix 5

Summary Table of Peak Number of Seasonal Residents and Visitors by PAED from 1990 to 2015

Peak Seasonal Population

1	2	3	4	5	6	7	8	9	10	11
PAED	1990 Census Tract (a)	1990 Census Block Groups	Peak Number of Persons Staying in Seasonal Dwelling Units During 1990	Peak Number of Persons Staying in Hotel and Motel Rooms During 1990	1990 Peak Number of Persons Staying in RVs or Campsites	1990 Peak Number of Persons Staying with Friends and Relatives (sh)	1990 Peak Number of People on Liveaboard Vessels	TOTAL 1990 PEAK SEASONAL POPULATION (4 + 5 + 6 + 7 + 8)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1991	Peak Number of People Staying in Hotel and Motel Rooms During 1991
Lower Keys										
1	9718 & 9719 pt.	N/A	115	0	600	111	448	1,273	116	0
2	9717	N/A	383	86	495	149	145	1,257	388	83
3	9716	N/A	237	134	1,089	226	0	1,686	241	131
4a	9715	N/A	1,800	259	276	362	32	2,730	1,860	253
4b	9714 pt.	BG 4 (a)	13	0	0	2	0	15	14	0
5	9714 pt.	BG 1,2,3,4,5 (a)	1,111	134	1,268	390	193	3,096	1,144	131
6	9714 pt. & 9713 pt.	9714 BG 1 (b)	0	0	1,630	253	0	1,883	0	0
Subtotal	-	-	**3,659**	**613**	**5,358**	**1,493**	**818**	**11,940**	**3,763**	**598**
Middle Keys										
7	9713, 9712, & 9711	N/A	2,091	1,686	1,683	846	425	6,730	2,102	1,644
8	9710 pt.	BG 3 (c)	533	865	180	245	229	2,051	539	844
9	9710 pt.	BG 2 (d)	244	127	608	152	0	1,130	246	124
10	9710 pt.	BG 2 (d)	183	110	0	45	0	338	186	107
11	9710 pt.	BG 1(e)	471	68	1,147	261	0	1,948	471	67
12a	9709 pt.	BG 5	796	247	6	162	0	1,211	820	241
12b	9709 pt.	BG 1,2 (f)	101	721	0	127	0	950	108	703
13	9709 pt.	BG 1,2,3,4 (f)	590	1,833	235	412	13	3,083	598	1,883
Subtotal	-	-	**5,009**	**5,656**	**3,858**	**2,251**	**666**	**17,441**	**5,070**	**5,613**
Upper Keys										
14	9708	N/A	2,126	242	174	394	0	2,936	2,189	236
15	9707	N/A	1,097	244	0	208	35	1,585	1,140	238
16	9706	N/A	2,121	718	1,072	606	3	4,520	2,127	701
17	9705	N/A	879	1,197	0	322	116	2,514	903	1,168
18	9704	N/A	1,317	364	1,912	557	0	4,150	1,331	355
19-20 (g)	9703	N/A	1,005	66	757	283	13	2,125	1,038	64
21	9702.98 pt.	BG 1,2,3 (h)	1,916	347	119	369	193	2,944	1,932	338
22	9701 pt. & 9702.98 pt.	BG 1 (h)	0	0	0	0	103	103	0	0
Subtotal	-	-	**10,460**	**3,179**	**4,034**	**2,739**	**464**	**20,876**	**10,661**	**3,101**
TOTAL	-	-	**19,128**	**9,448**	**13,250**	**6,483**	**1,948**	**50,258**	**19,494**	**9,312**
Village of Islamorada	9709	N/A	-	-	-	-	-	-	-	-
City of Layton	9710	BG 1	76	59	0	21	0	155	77	57
City of Key Colony B.	9710	BG 3	1,192	98	0	200	0	1,489	1,197	95
City of Marathon	9710-9713	N/A	-	-	-	-	-	-	-	-
City of Key West (p)	9719-9726	N/A	2,139	13,188	293	2,421	551	18,591	2,153	12,864
COUNTY TOTAL (q)	-	-	**22,535**	**22,793**	**13,543**	**9,125**	**2,498**	**70,493**	**22,922**	**22,328**

Prepared by the Monroe County Planning Department

Peak Seasonal Population

1	12	13	14	15	16	17	18	19	20	21	22
PAED	1991 Peak Number of Persons Staying in RVs or Campsites	1991 Peak Number of Persons Staying with Friends and Relatives (sh)	1991 Peak Number of People on Liveaboard Vessels	TOTAL 1991 PEAK SEASONAL POPULATION (10 + 11 + 12 + 13 + 14)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1992	Peak Number of People Staying in Hotel and Motel Rooms During 1992	1992 Peak Number of Persons Staying in RVs or Campsites	1992 Peak Number of Persons Staying with Friends and Relatives (sh)	1992 Peak Number of People on Liveaboard Vessels	TOTAL 1992 PEAK SEASONAL POPULATION (16 + 17 + 18 + 19 + 2)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1993
Lower Keys											
1	600	111	448	1,274	116	0	600	111	448	1,275	116
2	495	150	145	1,261	390	80	495	150	145	1,260	391
3	1,089	226	0	1,688	246	126	1,089	227	0	1,688	253
4a	276	370	32	2,791	1,903	244	276	376	32	2,830	1,949
4b	0	2	0	16	15	0	0	2	0	17	16
5	1,268	394	193	3,131	1,166	126	1,268	397	194	3,151	1,198
6	1,630	253	0	1,883	0	0	1,630	253	0	1,883	0
Subtotal	**5,358**	**1,506**	**819**	**12,044**	**3,836**	**577**	**5,358**	**1,514**	**819**	**12,105**	**3,923**
Middle Keys											
7	1,683	842	425	6,696	2,116	1,586	1,683	835	426	6,645	2,125
8	180	242	229	2,033	542	814	180	238	229	2,003	547
9	608	152	0	1,130	248	120	608	151	0	1,128	251
10	0	45	0	339	189	103	0	45	0	338	192
11	1,147	261	0	1,946	472	64	1,147	261	0	1,944	473
12a	6	165	0	1,231	849	232	6	168	0	1,255	860
12b	0	126	0	937	108	678	0	122	0	909	108
13	235	421	13	3,149	602	1,816	235	411	13	3,077	610
Subtotal	**3,858**	**2,254**	**667**	**17,461**	**5,126**	**5,413**	**3,858**	**2,232**	**668**	**17,297**	**5,167**
Upper Keys											
14	174	403	0	3,002	2,232	228	174	408	0	3,042	2,262
15	0	214	35	1,628	1,151	230	0	214	35	1,631	1,188
16	1,072	604	3	4,507	2,133	676	1,072	602	3	4,486	2,139
17	0	321	116	2,508	926	1,126	0	318	116	2,487	970
18	1,912	558	0	4,156	1,339	343	1,912	557	0	4,151	1,380
19-20 (g)	757	288	13	2,161	1,059	191	757	311	13	2,330	1,075
21	119	370	193	2,953	1,945	326	119	371	194	2,955	1,957
22	0	0	103	103	0	0	0	0	103	103	0
Subtotal	**4,034**	**2,758**	**464**	**21,019**	**10,786**	**3,119**	**4,034**	**2,781**	**465**	**21,185**	**10,970**
TOTAL	**13,250**	**6,519**	**1,950**	**50,524**	**19,748**	**9,110**	**13,250**	**6,527**	**1,952**	**50,586**	**20,060**
Village of Islamorada	-	-	-	-	-	-	-	-	-	-	-
City of Layton	0	21	0	155	78	55	0	21	0	154	78
City of Key Colony B.	0	200	0	1,493	1,212	92	0	202	0	1,506	1,233
City of Marathon	-	-	-	-	-	-	-	-	-	-	-
City of Key West (p)	293	2,373	551	18,233	2,167	12,407	293	2,304	552	17,723	2,181
COUNTY TOTAL (q)	**13,543**	**9,113**	**2,501**	**70,406**	**23,205**	**21,663**	**13,543**	**9,054**	**2,503**	**69,969**	**23,553**

Prepared by the Monroe County Planning Department

1	23	24	25	26	27	28	29	30	31	32	33
PAED	Peak Number of People Staying in Hotel and Motel Rooms During 1993	1993 Peak Number of Persons Staying in RVs or Campsites	1993 Peak Number of Persons Staying with Friends and Relatives (ah)	1993 Peak Number of People on Liveaboard Vessels	TOTAL 1993 PEAK SEASONAL POPULATION (22 + 23 + 24 + 25 + 26)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1994	Peak Number of People Staying in Hotel and Motel Rooms During 1994	1994 Peak Number of Persons Staying in RVs or Campsites	1994 Peak Number of Persons Staying with Friends and Relatives (ah)	1994 Peak Number of People on Liveaboard Vessels	TOTAL 1994 PEAK SEASONAL POPULATION (28 + 29 + 30 + 31 + 32)
Lower Keys											
1	0	600	111	449	1,276	117	0	600	111	449	1,277
2	87	495	151	145	1,269	395	83	495	151	145	1,269
3	137	1,089	229	0	1,708	258	130	1,089	229	0	1,705
4a	264	276	386	32	2,908	1,990	250	276	390	32	2,939
4b	0	0	3	0	19	17	0	0	3	0	19
5	137	1,268	404	194	3,201	1,216	130	1,268	405	194	3,213
6	0	1,630	253	0	1,883	0	0	1,630	253	0	1,883
Subtotal	**626**	**5,358**	**1,536**	**820**	**12,264**	**3,993**	**592**	**5,358**	**1,541**	**821**	**12,305**
Middle Keys											
7	1,722	1,683	857	426	6,813	2,134	1,628	1,683	844	427	6,714
8	883	180	250	229	2,089	552	835	180	243	230	2,038
9	130	608	153	0	1,142	252	123	608	152	0	1,135
10	112	0	47	0	351	195	106	0	47	0	348
11	100	1,147	267	0	1,986	473	94	1,147	266	0	1,980
12a	252	6	173	0	1,291	871	238	6	173	0	1,287
12b	736	0	131	0	975	108	696	0	125	0	929
13	1,971	235	436	13	3,265	611	1,863	235	420	13	3,142
Subtotal	**5,906**	**3,858**	**2,314**	**668**	**17,913**	**5,196**	**5,583**	**3,858**	**2,269**	**669**	**17,574**
Upper Keys											
14	247	174	416	0	3,099	2,287	234	174	418	0	3,112
15	250	0	223	36	1,696	1,224	236	0	226	36	1,722
16	734	1,072	611	3	4,559	2,150	693	1,072	607	3	4,526
17	1,223	0	340	116	2,649	989	1,156	0	333	116	2,594
18	664	1,912	613	0	4,569	1,386	627	1,912	608	0	4,534
19-20 (g)	207	757	316	13	2,368	1,080	196	757	315	13	2,360
21	354	119	377	194	3,001	1,961	335	119	374	194	2,982
22	0	0	0	103	103	0	0	0	0	103	103
Subtotal	**3,678**	**4,034**	**2,896**	**465**	**22,043**	**11,077**	**3,477**	**4,034**	**2,881**	**465**	**21,935**
TOTAL	**10,210**	**13,250**	**6,746**	**1,954**	**52,220**	**20,265**	**9,652**	**13,250**	**6,691**	**1,956**	**51,814**
Village of Islamorada	-	-	-	-	-	-	-	-	-	-	-
City of Layton	60	0	21	0	160	79	57	0	21	0	157
City of Key Colony B.	100	0	207	0	1,539	1,241	94	0	207	0	1,542
City of Marathon	-	-	-	-	-	-	-	-	-	-	-
City of Key West (p)	13,468	293	2,471	552	18,965	2,195	12,731	293	2,359	553	18,131
COUNTY TOTAL (q)	**23,838**	**13,543**	**9,445**	**2,506**	**72,884**	**23,781**	**22,534**	**13,543**	**9,278**	**2,508**	**71,644**

Prepared by the Monroe County Planning Department

Peak Seasonal Population

1	34	35	36	37	38	39	40	41	42	43
PAED	Peak Number of Persons Staying in Seasonal Dwelling Units During 1995	Peak Number of People Staying in Hotel and Motel Rooms During 1995	1995 Peak Number of Persons Staying in RVs or Campsites	1995 Peak Number of Persons Staying with Friends and Relatives (ah)	1995 Peak Number of People on Liveaboard Vessels	TOTAL 1995 PEAK SEASONAL POPULATION (34 + 35 + 36 + 37 + 38)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1996	Peak Number of People Staying in Hotel and Motel Rooms During 1996	1996 Peak Number of Persons Staying in RVs or Campsites	1996 Peak Number of Persons Staying with Friends and Relatives (ah)
Lower Keys										
1	117	0	600	111	450	1,278	118	0	600	111
2	397	81	495	151	146	1,269	400	83	495	152
3	262	127	1,089	229	0	1,706	267	130	1,089	230
4a	2,038	244	276	397	32	2,987	2,083	251	276	405
4b	17	0	0	3	0	20	17	0	0	3
5	1,232	127	1,268	407	194	3,228	1,253	130	1,268	411
6	0	0	1,630	253	0	1,883	0	0	1,630	253
Subtotal	**4,063**	**578**	**5,358**	**1,550**	**822**	**12,371**	**4,138**	**594**	**5,358**	**1,564**
Middle Keys										
7	2,145	1,588	1,683	839	427	6,682	2,152	1,633	1,683	848
8	556	815	180	240	230	2,021	561	838	180	245
9	254	120	608	152	0	1,134	257	123	608	153
10	196	104	0	46	0	346	196	107	0	47
11	473	92	1,147	265	0	1,978	492	95	1,147	269
12a	885	232	6	174	0	1,298	895	239	6	177
12b	110	679	0	122	0	911	110	698	0	125
13	613	1,818	235	413	13	3,092	615	1,870	235	422
Subtotal	**5,233**	**5,447**	**3,858**	**2,253**	**670**	**17,461**	**5,277**	**5,602**	**3,858**	**2,284**
Upper Keys										
14	2,310	228	174	420	0	3,132	2,327	234	174	424
15	1,229	230	0	226	36	1,721	1,239	237	0	229
16	2,158	677	1,072	606	3	4,515	2,164	696	1,072	609
17	1,007	1,128	0	331	116	2,582	1,025	1,160	0	339
18	1,394	612	1,912	607	0	4,528	1,402	630	1,912	611
19-20 (g)	1,086	191	757	315	13	2,362	1,094	196	757	317
21	1,969	327	119	374	194	2,983	1,988	336	119	379
22	0	0	0	0	104	104	0	0	0	0
Subtotal	**11,154**	**3,392**	**4,034**	**2,880**	**466**	**21,926**	**11,238**	**3,489**	**4,034**	**2,908**
TOTAL	**20,450**	**9,417**	**13,250**	**6,683**	**1,958**	**51,758**	**20,654**	**9,685**	**13,250**	**6,756**
Village of Islamorada	-	-	-	-	-	-	-	-	-	-
City of Layton	80	55	0	21	0	157	81	57	0	21
City of Key Colony B.	1,259	92	0	209	0	1,561	1,265	95	0	211
City of Marathon	-	-	-	-	-	-	-	-	-	-
City of Key West (p)	2,210	12,422	293	2,313	553	17,790	2,224	12,775	293	2,370
COUNTY TOTAL (q)	**23,999**	**21,986**	**13,543**	**9,227**	**2,511**	**71,266**	**24,224**	**22,612**	**13,543**	**9,359**

Prepared by the Monroe County Planning Department

1	44	45	46	47	48	49	50	51	52	53	54
PAED	1996 Peak Number of People on Liveaboard Vessels	TOTAL 1996 PEAK SEASONAL POPULATION (40 + 41 + 42 + 43 + 44)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1997	Peak Number of People Staying in Hotel and Motel Rooms During 1997	1997 Peak Number of Persons Staying in RVs or Campsites	1997 Peak Number of Persons Staying with Friends and Relatives (eh)	1997 Peak Number of People on Liveaboard Vessels	TOTAL 1997 PEAK SEASONAL POPULATION (46 + 47 + 48 + 49 + 50)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1998	Peak Number of People Staying in Hotel and Motel Rooms During 1998	1998 Peak Number of Persons Staying in RVs or Campsites
Lower Keys											
1	450	1,279	118	0	600	111	451	1,280	119	0	600
2	146	1,275	402	83	495	152	146	1,277	404	78	495
3	0	1,717	271	130	1,089	231	0	1,720	274	122	1,089
4a	32	3,047	2,123	251	276	411	32	3,093	2,153	236	276
4b	0	20	19	0	0	3	0	22	19	0	0
5	194	3,257	1,260	130	1,268	412	195	3,265	1,267	122	1,268
6	0	1,883	0	0	1,630	253	0	1,883	0	0	1,630
Subtotal	823	12,477	4,193	594	5,358	1,572	824	12,541	4,236	558	5,358
Middle Keys											
7	428	6,743	2,161	1,633	1,683	849	428	6,754	2,167	1,535	1,683
8	230	2,053	564	838	180	245	230	2,057	567	788	180
9	0	1,141	259	123	608	153	0	1,143	259	116	608
10	0	350	198	154	0	54	0	406	198	414	0
11	0	2,002	497	95	1,147	270	0	2,008	497	89	1,147
12a	0	1,316	900	239	6	177	0	1,322	-	-	-
12b	0	934	111	698	0	125	0	934	-	-	-
13	13	3,155	616	1,870	235	422	13	3,155	-	-	-
Subtotal	670	17,692	5,306	5,650	3,858	2,296	671	17,781	3,690	2,941	3,617
Upper Keys											
14	0	3,159	2,356	234	174	429	0	3,196	-	-	-
15	36	1,740	1,241	237	0	229	36	1,742	1,244	222	0
16	3	4,545	2,167	696	1,072	610	3	4,549	2,172	654	1,072
17	117	2,640	1,038	1,160	0	341	117	2,655	1,054	1,090	0
18	0	4,555	1,412	630	1,912	613	0	4,566	1,419	592	1,912
19-20 (g)	13	2,378	1,099	196	757	318	13	2,384	1,104	185	757
21	194	3,018	2,000	336	119	380	195	3,029	2,028	316	119
22	104	104	0	0	0	0	104	104	0	0	0
Subtotal	466	22,136	11,315	3,489	4,034	2,920	467	22,225	9,020	3,059	3,860
TOTAL	1,960	52,305	20,813	9,733	13,250	6,788	1,962	52,546	16,946	6,559	12,835
Village of Islamorada	-	-	-	-	-	-	-	-	3,998	2,859	415
City of Layton	0	159	82	57	0	22	0	160	83	53	0
City of Key Colony B.	0	1,571	1,276	95	0	212	0	1,583	1,294	89	0
City of Marathon	-	-	-	-	-	-	-	-	-	-	-
City of Key West (p)	554	18,216	2,238	12,775	293	2,372	554	18,233	2,252	12,009	293
COUNTY TOTAL (q)	2,513	72,251	24,409	22,659	13,543	9,395	2,516	72,521	24,572	21,570	13,543

Prepared by the Monroe County Planning Department

Peak Seasonal Population

1	55	56	57	58	59	60	61	62	63	64
PAED	1998 Peak Number of Persons Staying with Friends and Relatives (ah)	1998 Peak Number of People on Liveaboard Vessels	TOTAL 1998 PEAK SEASONAL POPULATION (52 + 53 + 54 + 55 + 56	Peak Number of Persons Staying in Seasonal Dwelling Units During 1999	Peak Number of People Staying in Hotel and Motel Rooms During 1999	1999 Peak Number of Persons Staying in RVs or Campsites	1999 Peak Number of Persons Staying with Friends and Relatives (ah)	1999 Peak Number of People on Liveaboard Vessels	TOTAL 1999 PEAK SEASONAL POPULATION (58 + 59 + 60 + 61 + 62	Peak Number of Persons Staying in Seasonal Dwelling Units During 2000
Lower Keys										
1	111	451	1,281	119	0	600	111	452	1,282	120
2	151	146	1,274	405	78	495	152	146	1,276	407
3	230	0	1,716	278	123	1,089	231	0	1,721	281
4a	413	32	3,110	2,172	238	276	416	32	3,135	2,198
4b	3	0	22	19	0	0	3	0	22	20
5	412	195	3,264	1,269	123	1,268	412	195	3,268	1,282
6	253	0	1,883	0	0	1,630	253	0	1,883	0
Subtotal	**1,574**	**824**	**12,551**	**4,263**	**563**	**5,358**	**1,578**	**825**	**12,587**	**4,307**
Middle Keys										
7	835	428	6,649	2,173	1,730	1,683	866	429	6,881	-
8	238	230	2,003	570	793	180	239	231	2,013	-
9	152	0	1,135	260	117	608	153	0	1,137	-
10	95	0	707	199	444	0	100	0	743	201
11	269	0	2,002	497	90	1,147	269	0	2,002	501
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	**1,588**	**659**	**12,496**	**3,699**	**3,174**	**3,617**	**1,626**	**659**	**12,775**	**702**
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	227	36	1,730	1,248	224	0	228	36	1,736	1,257
16	604	3	4,505	2,175	659	1,072	605	3	4,515	2,177
17	332	117	2,593	1,062	1,098	0	335	117	2,612	1,071
18	608	0	4,531	1,424	596	1,912	610	0	4,542	1,429
19-20 (g)	317	13	2,376	1,109	186	757	318	13	2,384	1,114
21	382	195	3,039	2,056	318	119	386	195	3,075	2,083
22	0	104	104	0	0	0	0	104	104	0
Subtotal	**2,471**	**467**	**18,877**	**9,074**	**3,082**	**3,860**	**2,483**	**468**	**18,987**	**9,112**
TOTAL	**5,633**	**1,951**	**43,924**	**17,036**	**6,818**	**12,835**	**5,687**	**1,952**	**44,329**	**14,121**
Village of Islamorada	1,127	13	8,411	4,025	2,880	415	1,135	13	8,467	4,041
City of Layton	21	0	158	84	54	0	21	0	159	85
City of Key Colony B.	214	0	1,597	1,312	90	0	217	0	1,619	1,327
City of Marathon	-	-	-	-	-	-	-	-	-	3,008
City of Key West (p)	2,256	555	17,365	2,266	12,097	293	2,272	556	17,483	2,280
COUNTY TOTAL (q)	**9,251**	**2,518**	**71,454**	**24,723**	**21,939**	**13,543**	**9,332**	**2,521**	**72,058**	**24,860**

Prepared by the Monroe County Planning Department

Peak Seasonal Population

1	65	66	67	68	69	70	71	72	73	74	75
PAED	Peak Number of People Staying in Hotel and Motel Rooms During 2000	2000 Peak Number of Persons Staying in RVs or Campsites	2000 Peak Number of Persons Staying with Friends and Relatives (ah)	2000 Peak Number of People on Liveaboard Vessels	TOTAL 2000 PEAK SEASONAL POPULATION (64 + 65 + 66 + 67 + 68)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2001	Peak Number of People Staying in Hotel and Motel Rooms During 2001	2001 Peak Number of Persons Staying in RVs or Campsites	2001 Peak Number of Persons Staying with Friends and Relatives (ah)	2001 Peak Number of People on Liveaboard Vessels	TOTAL 2001 PEAK SEASONAL POPULATION (70 + 71 + 72 + 73 + 74)
Lower Keys											
1	0	600	111	452	1,283	120	0	600	112	452	1,284
2	82	495	152	146	1,282	408	82	495	153	146	1,284
3	129	1,089	232	0	1,731	284	129	1,089	233	0	1,734
4a	249	276	422	33	3,178	2,225	249	276	426	33	3,209
4b	0	0	3	0	23	20	0	0	3	0	24
5	129	1,268	415	195	3,289	1,294	129	1,268	417	195	3,304
8	0	1,630	253	0	1,883	0	0	1,630	253	0	1,883
Subtotal	**589**	**5,358**	**1,589**	**826**	**12,669**	**4,351**	**589**	**5,358**	**1,596**	**827**	**12,721**
Middle Keys											
7	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	0	-	-	-	-	-	0	-
10	521	0	112	0	835	203	578	0	121	0	902
11	94	1,147	270	0	2,011	504	94	1,147	270	0	2,015
12a	-	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-
Subtotal	**615**	**1,147**	**382**	**0**	**2,846**	**708**	**672**	**1,147**	**392**	**0**	**2,917**
Upper Keys											
14	-	-	-	-	-	-	-	-	-	-	-
15	235	0	231	36	1,759	1,266	235	0	233	36	1,770
16	690	1,072	611	3	4,554	2,180	690	1,072	611	3	4,556
17	1,151	0	344	117	2,683	1,080	1,151	0	346	117	2,694
18	625	1,912	615	0	4,580	1,434	625	1,912	615	0	4,586
19-20 (g)	195	757	320	13	2,400	1,119	195	757	321	13	2,405
21	333	119	390	195	3,101	2,071	333	119	391	195	3,109
22	0	0	0	104	104	0	0	0	0	104	104
Subtotal	**3,229**	**3,860**	**2,511**	**468**	**19,180**	**9,150**	**3,229**	**3,860**	**2,517**	**469**	**19,224**
TOTAL	**4,433**	**10,365**	**4,482**	**1,294**	**34,696**	**14,208**	**4,490**	**10,365**	**4,505**	**1,296**	**34,863**
Village of Islamorada	3,017	415	1,158	13	8,644	4,057	3,017	415	1,161	13	8,662
City of Layton	56	0	22	0	163	86	56	0	22	0	165
City of Key Colony B.	94	0	220	0	1,641	1,341	94	0	222	0	1,657
City of Marathon	2,766	2,471	1,278	659	10,182	3,018	2,766	2,471	1,280	660	10,195
City of Key West (p)	12,673	293	2,363	556	18,165	2,293	12,673	293	2,365	557	18,182
COUNTY TOTAL (q)	**23,040**	**13,544**	**9,524**	**2,522**	**73,491**	**25,003**	**23,096**	**13,544**	**9,555**	**2,525**	**73,723**

Prepared by the Monroe County Planning Department

Peak Seasonal Population

1	76	77	78	79	80	81	82	83	84	85
PAEO	Peak Number of Persons Staying in Seasonal Dwelling Units During 2002	Peak Number of People Staying in Hotel and Motel Rooms During 2002	2002 Peak Number of Persons Staying in RVs or Campsites	2002 Peak Number of Persons Staying with Friends and Relatives (ah)	2002 Peak Number of People on Livaaboard Vessels	TOTAL 2002 PEAK SEASONAL POPULATION (76 + 77 + 78 + 79 + 80)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2003	Peak Number of People Staying in Hotel and Motel Rooms During 2003	2003 Peak Number of Persons Staying in RVs or Campsites	2003 Peak Number of Persons Staying with Friends and Relatives (ah)
Lower Keys										
1	120	0	600	112	453	1,284	120	0	600	112
2	410	82	495	153	147	1,286	411	82	495	153
3	287	129	1,089	233	0	1,738	290	129	1,089	234
4a	2,251	249	276	430	33	3,239	2,278	249	276	434
4b	21	0	0	3	0	24	22	0	0	3
5	1,306	129	1,268	419	196	3,318	1,318	129	1,268	421
6	0	0	1,630	253	0	1,883	0	0	1,630	253
Subtotal	**4,395**	**589**	**5,358**	**1,603**	**828**	**12,773**	**4,438**	**589**	**5,358**	**1,610**
Middle Keys										
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	0	-	-	-	-	-
10	206	634	0	130	0	970	208	634	0	130
11	508	94	1,147	271	0	2,019	511	94	1,147	272
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	**713**	**728**	**1,147**	**401**	**0**	**2,989**	**719**	**728**	**1,147**	**402**
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	1,276	235	0	234	36	1,781	1,285	235	0	236
16	2,182	690	1,072	611	3	4,559	2,185	742	1,072	620
17	1,089	1,151	0	347	117	2,704	1,098	1,151	0	348
18	1,439	625	1,912	616	0	4,592	1,444	625	1,912	817
19-20 (g)	1,124	195	757	322	13	2,411	1,129	195	757	323
21	2,078	333	119	392	196	3,118	2,085	333	119	393
22	0	0	0	0	104	104	0	0	0	0
Subtotal	**9,188**	**3,229**	**3,860**	**2,523**	**469**	**19,269**	**9,225**	**3,280**	**3,860**	**2,537**
TOTAL	**14,295**	**4,546**	**10,365**	**4,527**	**1,297**	**35,030**	**14,383**	**4,598**	**10,365**	**4,549**
Village of Islamorada	4,073	3,017	415	1,163	13	8,680	4,088	3,017	415	1,166
City of Layton	87	56	0	22	0	166	88	56	0	22
City of Key Colony B.	1,355	94	0	225	0	1,674	1,370	94	0	227
City of Marathon	3,029	2,766	2,471	1,281	661	10,208	3,039	2,766	2,471	1,283
City of Key West (p)	2,307	12,673	293	2,367	557	18,198	2,316	12,673	293	2,369
COUNTY TOTAL (q)	**25,146**	**23,153**	**13,544**	**9,586**	**2,527**	**73,956**	**25,284**	**23,204**	**13,544**	**9,615**

Peak Seasonal Population

1	86	87	88	89	90	91	92	93	94	95
PAED	2003 Peak Number of People on Liveaboard Vessels	TOTAL 2003 PEAK SEASONAL POPULATION (82 + 83 + 84 + 85 + 86)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2004	Peak Number of People Staying in Hotel and Motel Rooms During 2004 (aa)	2004 Peak Number of Persons Staying in RVs or Campsites	2004 Peak Number of Persons Staying with Friends and Relatives (sh)	2004 Peak Number of People on Liveaboard Vessels	TOTAL 2004 PEAK SEASONAL POPULATION (88 + 89 + 90 + 91 + 92)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2005 (o)	Peak Number of People Staying in Hotel and Motel Rooms During 2005 (ae)
Lower Keys										
1	453	1,285	121	0	600	112	454	1,286	121	0
2	147	1,288	414	82	495	154	147	1,291	415	82
3	0	1,741	294	129	1,089	234	0	1,746	298	129
4a	33	3,270	2,319	249	276	441	33	3,318	2,359	249
4b	0	25	22	0	0	3	0	26	23	0
5	196	3,332	1,335	129	1,268	424	196	3,352	1,352	129
6	0	1,883	0	0	1,630	253	0	1,883	0	0
Subtotal	**828**	**12,824**	**4,506**	**589**	**5,356**	**1,620**	**829**	**12,903**	**4,570**	**589**
Middle Keys										
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	0	-	-	-	-	-	0	-	-	-
10	0	972	210	634	0	131	0	975	212	634
11	0	2,023	514	94	1,147	272	0	2,027	517	94
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	**0**	**2,995**	**724**	**3,494**	**1,147**	**403**	**0**	**3,002**	**729**	**3,494**
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	36	1,792	1,301	235	0	238	36	1,810	1,316	235
16	3	4,622	2,190	742	1,072	621	3	4,627	2,192	742
17	117	2,714	1,117	1,151	0	351	118	2,736	1,135	1,151
18	0	4,598	1,454	625	1,912	619	0	4,609	1,463	625
19-20 (g)	13	2,417	1,139	195	757	324	13	2,429	1,149	195
21	196	3,126	2,099	333	119	395	196	3,142	2,110	333
22	104	104	0	0	0	0	104	104	0	0
Subtotal	**470**	**19,372**	**9,299**	**3,280**	**3,860**	**2,548**	**470**	**19,458**	**9,365**	**3,280**
TOTAL	**1,298**	**35,192**	**14,529**	**7,364**	**10,365**	**4,571**	**1,299**	**35,362**	**14,663**	**7,364**
Village of Islamorada	13	8,699	4,106	3,017	415	1,168	13	8,719	4,120	3,017
City of Layton	0	167	89	56	0	23	0	168	90	56
City of Key Colony B.	0	1,690	1,384	94	0	229	0	1,707	1,398	94
City of Marathon	661	10,221	3,048	2,766	2,471	1,284	662	10,231	3,053	2,766
City of Key West (p)	558	18,209	2,325	11,914	293	2,252	558	17,343	2,334	11,914
COUNTY TOTAL (q)	**2,530**	**74,177**	**25,481**	**25,211**	**13,544**	**9,528**	**2,533**	**73,531**	**25,658**	**25,211**

Prepared by the Monroe County Planning Department

Peak Seasonal Population

1	96	97	98	99	100	101	102	103	104	105
PAED	2005 Peak Number of Persons Staying in RVs or Campsites	2005 Peak Number of Persons Staying with Friends and Relatives (ah)	2005 Peak Number of People on Liveaboard Vessels	TOTAL 2005 PEAK SEASONAL PDPULATION (94 + 95 + 96 + 97 + 98)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2006 (o)	Peak Number of Paople Staying in Hotel and Motel Rooms During 2006 (as)	2006 Peak Number of Persons Staying in RVs or Campsites	2006 Peak Number of Persons Staying with Friends and Relatives (ah)	2006 Peak Number of People on Liveaboard Vessels	TOTAL 2006 PEAK SEASONAL POPULATION (100 + 101 + 102 + 103 + 104
Lower Keys										
1	600	112	454	1,287	121	0	600	112	455	1,287
2	495	154	147	1,293	417	82	495	154	147	1,295
3	1,089	235	0	1,751	302	129	1,089	236	0	1,756
4a	276	447	33	3,364	2,398	249	276	453	33	3,409
4b	0	4	0	27	24	0	0	4	0	28
5	1,268	426	196	3,372	1,367	129	1,268	429	196	3,389
6	1,630	253	0	1,883	0	0	1,630	253	0	1,883
Subtotal	5,358	1,630	630	12,977	4,630	589	5,358	1,639	831	13,048
Middle Keys										
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	0	-	-	-	-	-	0	-
10	0	131	0	977	213	634	0	131	0	979
11	1,147	272	0	2,030	519	94	1,147	273	0	2,033
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	1,147	404	0	3,007	733	3,494	1,147	404	0	3,011
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	0	240	36	1,827	1,330	235	0	242	36	1,843
16	1,072	621	3	4,631	2,193	742	1,072	621	3	4,632
17	0	354	118	2,757	1,152	1,151	0	357	118	2,778
18	1,912	620	0	4,620	1,470	625	1,912	621	0	4,628
19-20 (g)	757	326	13	2,439	1,157	195	757	327	13	2,449
21	119	397	196	3,156	2,120	333	119	399	196	3,167
22	0	0	105	105	0	0	0	0	105	105
Subtotal	3,860	2,558	471	19,534	9,422	3,280	3,860	2,567	471	19,600
TOTAL	**10,365**	**4,592**	**1,301**	**35,518**	**14,784**	**7,364**	**10,365**	**4,611**	**1,302**	**35,659**
Village of Islamorada	415	1,170	13	8,735	4,129	3,017	415	1,172	13	8,746
City of Layton	0	23	0	169	91	56	0	23	0	170
City of Key Colony B.	0	231	0	1,723	1,410	94	0	233	0	1,737
City of Marathon	2,471	1,285	663	10,238	3,056	2,766	2,471	1,285	663	10,241
City of Key West (p)	293	2,254	559	17,354	2,339	11,914	293	2,255	559	17,360
COUNTY TOTAL (q)	**13,544**	**9,555**	**2,535**	**73,737**	**25,809**	**25,211**	**13,544**	**9,579**	**2,538**	**73,914**

Prepared by the Monroe County Planning Department

Peak Seasonal Population

1	106	107	108	109	110	111	112	113	114	115
PAEO 4)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2007 (o)	Peak Number of People Staying in Hotel and Motel Rooms During 2007	2007 Peak Number of Persons Staying in RVs or Campsites	2007 Peak Number of Persons Staying with Friends and Relatives (ah)	2007 Peak Number of People on Liveaboard Vessels	TOTAL 2007 PEAK SEASONAL POPULATION (106 + 107 + 108 + 109 + 110)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2008 (o)	Peak Number of People Staying in Hotel and Motel Rooms During 2008	2008 Peak Number of Persons Staying in RVs or Campsites	2008 Peak Number of Persons Staying with Friends and Relatives (ah)
Lower Keys										
1	121	0	600	112	455	1,289	121	0	601	112
2	418	82	495	154	147	1,297	419	82	496	154
3	306	129	1,090	236	0	1,762	310	129	1,091	237
4a	2,434	249	277	459	33	3,452	2,469	249	277	464
4b	25	0	0	4	0	29	26	0	0	4
5	1,381	129	1,270	431	196	3,407	1,394	129	1,271	433
6	0	0	1,632	253	0	1,885	0	0	1,634	253
Subtotal	**4,686**	**590**	**5,363**	**1,649**	**832**	**13,121**	**4,739**	**591**	**5,369**	**1,658**
Middle Keys										
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	0	-	-	-	-	-
10	215	635	0	132	0	981	216	635	0	132
11	521	94	1,148	273	0	2,036	522	94	1,149	274
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	**736**	**729**	**1,148**	**405**	**0**	**3,017**	**738**	**729**	**1,149**	**406**
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	1,342	235	0	244	36	1,857	1,353	235	0	246
16	2,191	743	1,073	621	3	4,632	2,188	743	1,074	621
17	1,169	1,152	0	360	118	2,798	1,184	1,153	0	362
18	1,476	625	1,914	622	0	4,638	1,481	626	1,916	624
19-20 (g)	1,164	195	758	328	13	2,458	1,169	195	759	329
21	2,127	334	119	400	196	3,176	2,133	334	119	401
22	0	0	0	0	105	105	0	0	0	0
Subtotal	**9,469**	**3,284**	**3,864**	**2,576**	**472**	**19,664**	**9,508**	**3,287**	**3,868**	**2,583**
TOTAL	**14,891**	**4,602**	**10,375**	**4,630**	**1,303**	**35,802**	**14,985**	**4,607**	**10,386**	**4,647**
Village of Islamorada	4,134	3,020	415	1,173	13	8,756	4,136	3,023	416	1,174
City of Layton	92	56	0	23	0	171	93	56	0	23
City of Key Colony B.	1,421	94	0	235	0	1,750	1,431	94	0	236
City of Marathon	3,055	2,769	2,473	1,286	664	10,247	3,051	2,772	2,476	1,286
City of Key West (p)	2,345	11,926	293	2,257	560	17,381	2,350	11,938	293	2,260
COUNTY TOTAL (q)	**25,938**	**22,467**	**13,558**	**9,604**	**2,540**	**74,108**	**26,045**	**22,490**	**13,571**	**9,626**

Prepared by the Monroe County Planning Department

Peak Seasonal Population

1	116	117	118	119	120	121	122	123	124	125
PAED	2008 Peak Number of People on Liveaboard Vessels	TOTAL 2008 PEAK SEASONAL POPULATION (112 + 113 + 114 + 115 + 116)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2009 (o)	Peak Number of People Staying in Hotel and Motel Rooms During 2009	2009 Peak Number of Persons Staying in RVs or Campsites	2009 Peak Number of Persons Staying with Friends and Relatives (sh)	2009 Peak Number of People on Liveaboard Vessels	TOTAL 2009 PEAK SEASONAL POPULATION (118 + 119 + 120 + 121 + 122)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2010 (o)	Peak Number of People Staying in Hotel and Motel Rooms During 2010
Lower Keys										
1	456	1,290	121	0	601	112	456	1,291	121	0
2	148	1,299	419	82	496	155	148	1,300	419	83
3	0	1,767	313	130	1,092	238	0	1,772	316	130
4a	33	3,492	2,502	250	277	469	33	3,531	2,533	250
4b	0	30	27	0	0	4	0	31	28	0
5	197	3,424	1,406	130	1,272	435	197	3,439	1,416	130
6	0	1,887	0	0	1,635	253	0	1,889	0	0
Subtotal	**833**	**13,189**	**4,788**	**591**	**5,374**	**1,667**	**833**	**13,253**	**4,832**	**592**
Middle Keys										
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	0	-	-	-	-	-	0	-	-	-
10	0	983	217	636	0	132	0	985	218	637
11	0	2,039	523	94	1,150	274	0	2,041	523	94
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	**0**	**3,022**	**740**	**730**	**1,150**	**406**	**0**	**3,026**	**741**	**731**
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	36	1,871	1,363	236	0	248	36	1,882	1,372	236
16	3	4,630	2,182	744	1,075	620	3	4,825	2,174	745
17	118	2,817	1,199	1,154	0	365	118	2,836	1,212	1,155
18	0	4,647	1,484	626	1,918	624	0	4,653	1,486	627
19-20 (g)	13	2,465	1,174	195	759	330	13	2,472	1,178	196
21	197	3,183	2,136	334	119	401	197	3,188	2,137	335
22	105	105	0	0	0	0	105	105	0	0
Subtotal	**472**	**19,718**	**9,538**	**3,290**	**3,872**	**2,588**	**473**	**19,781**	**9,558**	**3,293**
TOTAL	**1,305**	**35,929**	**15,065**	**4,611**	**10,396**	**4,661**	**1,306**	**36,040**	**15,131**	**4,616**
Village of Islamorada	13	8,761	4,133	3,026	416	1,174	13	8,762	4,126	3,029
City of Layton	0	172	93	57	0	23	0	173	94	57
City of Key Colony B.	0	1,761	1,439	94	0	238	0	1,771	1,446	94
City of Marathon	665	10,250	3,044	2,774	2,478	1,286	665	10,249	3,035	2,777
City of Key West (p)	561	17,402	2,355	11,950	294	2,263	561	17,423	2,361	11,962
COUNTY TOTAL (q)	**2,543**	**74,275**	**26,130**	**22,512**	**13,585**	**9,645**	**2,545**	**74,417**	**26,192**	**22,535**

Prepared by the Monroe County Planning Department

1	126	127	128	129	130	131	132	133	134	135
PAED	2010 Peak Number of Persons Staying in RVs or Campsites	2010 Peak Number of Persons Staying with Friends and Relatives (ah)	2010 Peak Number of People on Liveaboard Vessels	TOTAL 2010 PEAK SEASONAL POPULATION (124 + 125 + 126 + 127 + 128)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2011 (o)	Peak Number of People Staying in Hotel and Motel Rooms During 2011	2011 Peak Number of Persons Staying in RVs or Campsites	2011 Peak Number of Persons Staying with Friends and Relatives (ah)	2011 Peak Number of People on Liveaboard Vessels	TOTAL 2011 PEAK SEASONAL POPULATION (130 + 131 + 132 + 133 + 134
Lower Keys										
1	602	112	457	1,291	120	0	603	112	457	1,292
2	497	155	148	1,300	418	83	497	155	148	1,300
3	1,093	239	0	1,777	319	130	1,094	239	0	1,782
4a	277	474	33	3,567	2,561	250	278	479	33	3,601
4b	0	4	0	33	29	0	0	5	0	34
5	1,273	437	197	3,453	1,425	130	1,275	439	197	3,465
6	1,637	254	0	1,891	0	0	1,639	254	0	1,892
Subtotal	**5,379**	**1,675**	**834**	**13,312**	**4,872**	**592**	**5,385**	**1,682**	**835**	**13,366**
Middle Keys										
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	0	-	-	-	-	-	0	-
10	0	132	0	987	219	637	0	133	0	988
11	1,151	274	0	2,043	523	94	1,153	274	0	2,044
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	**1,151**	**407**	**0**	**3,030**	**741**	**732**	**1,153**	**407**	**0**	**3,032**
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	0	249	36	1,893	1,379	236	0	250	36	1,901
16	1,076	619	3	4,618	2,163	746	1,078	618	3	4,608
17	0	367	118	2,853	1,225	1,156	0	369	118	2,869
18	1,920	625	0	4,658	1,486	628	1,922	626	0	4,661
19-20 (g)	760	331	13	2,477	1,180	196	761	331	13	2,481
21	119	402	197	3,190	2,136	335	119	402	197	3,189
22	0	0	105	105	0	0	0	0	105	105
Subtotal	**3,876**	**2,593**	**473**	**19,793**	**9,569**	**3,297**	**3,880**	**2,596**	**473**	**19,815**
TOTAL	**10,407**	**4,674**	**1,307**	**36,135**	**15,183**	**4,621**	**10,417**	**4,684**	**1,309**	**36,213**
Village of Islamorada	417	1,174	13	8,758	4,115	3,032	417	1,172	13	8,749
City of Layton	0	23	0	174	94	57	0	23	0	174
City of Key Colony B.	0	239	0	1,779	1,451	94	0	240	0	1,785
City of Marathon	2,481	1,285	666	10,244	3,022	2,780	2,483	1,284	667	10,236
City of Key West (p)	294	2,266	562	17,444	2,366	11,974	294	2,268	562	17,465
COUNTY TOTAL (q)	**13,598**	**9,660**	**2,548**	**74,533**	**26,231**	**22,557**	**13,612**	**9,672**	**2,550**	**74,622**

Prepared by the Monroe County Planning Department

Peak Seasonal Population

1	136	137	138	139	140	141	142	143	144	145
PAED 4)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2012 (o)	Peak Number of People Staying in Hotel and Motel Rooms During 2012	2012 Peak Number of Persons Staying in RVs or Campsites	2012 Peak Number of Persons Staying with Friends and Relatives (sh)	2012 Peak Number of People on Liveaboard Vessels	TOTAL 2012 PEAK SEASONAL POPULATION (136 + 137 + 138 + 139 + 140)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2013 (o)	Peak Number of People Staying in Hotel and Motel Rooms During 2013	2013 Peak Number of Persons Staying in RVs or Campsites	2013 Peak Number of Persons Staying with Friends and Relatives (sh)
Lower Keys										
1	120	0	603	112	457	1,293	119	0	604	112
2	417	83	498	155	148	1,300	415	83	498	154
3	321	130	1,095	240	0	1,786	323	130	1,096	240
4a	2,588	250	278	483	33	3,632	2,612	251	278	487
4b	30	0	0	5	0	35	31	0	0	5
5	1,432	130	1,276	440	197	3,476	1,438	130	1,277	441
6	0	0	1,640	254	0	1,894	0	0	1,642	254
Subtotal	**4,908**	**593**	**5,390**	**1,688**	**836**	**13,415**	**4,939**	**594**	**5,398**	**1,694**
Middle Keys										
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	0	-	-	-	-	-
10	219	638	0	133	0	990	219	638	0	133
11	522	94	1,154	274	0	2,044	520	95	1,155	274
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	**741**	**732**	**1,154**	**407**	**0**	**3,034**	**739**	**733**	**1,155**	**407**
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	1,385	236	0	251	36	1,909	1,390	236	0	252
16	2,151	746	1,079	616	3	4,596	2,137	747	1,080	614
17	1,236	1,157	0	371	118	2,883	1,247	1,159	0	373
18	1,485	628	1,924	626	0	4,663	1,482	629	1,926	626
19-20 (g)	1,181	196	762	332	13	2,484	1,181	196	762	332
21	2,133	335	120	401	197	3,187	2,128	336	120	400
22	0	0	0	0	105	105	0	0	0	0
Subtotal	**9,571**	**3,300**	**3,884**	**2,597**	**474**	**19,826**	**9,564**	**3,303**	**3,887**	**2,597**
TOTAL	**15,220**	**4,625**	**10,427**	**4,692**	**1,310**	**36,275**	**15,242**	**4,630**	**10,438**	**4,698**
Village of Islamorada	4,099	3,035	417	1,171	13	8,735	4,080	3,038	418	1,168
City of Layton	94	57	0	23	0	175	95	57	0	23
City of Key Colony B.	1,455	94	0	240	0	1,790	1,458	95	0	241
City of Marathon	3,006	2,783	2,486	1,283	667	10,224	2,987	2,785	2,488	1,280
City of Key West (p)	2,372	11,986	295	2,271	563	17,486	2,377	11,998	295	2,274
COUNTY TOTAL (q)	**26,246**	**22,580**	**13,625**	**9,680**	**2,553**	**74,685**	**26,239**	**22,602**	**13,639**	**9,684**

Prepared by the Monroe County Planning Department

Peak Seasonal Population

1	146	147	148	149	150	151	152	153	154	155
PAED	2013 Peak Number of People on Liveaboard Vessels	TOTAL 2013 PEAK SEASONAL POPULATION (142 + 143 + 144 + 145 + 146)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2014 (o)	Peak Number of People Staying in Hotel and Motel Rooms During 2014	2014 Peak Number of Persons Staying in RVs or Campsites	2014 Peak Number of Persons Staying with Friends and Relatives (ah)	2014 Peak Number of People on Liveaboard Vessels	TOTAL 2014 PEAK SEASONAL POPULATION (148 + 149 + 150 + 151 + 152)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2015 (o)	Peak Number of People Staying in Hotel and Motel Rooms During 2015
Lower Keys										
1	458	1,293	118	0	604	112	458	1,293	117	0
2	148	1,299	414	83	499	154	148	1,298	411	83
3	0	1,790	325	130	1,097	241	0	1,793	327	130
4a	33	3,660	2,633	251	279	490	33	3,686	2,652	251
4b	0	36	32	0	0	5	0	37	33	0
5	198	3,484	1,443	130	1,279	442	198	3,492	1,446	130
6	0	1,896	0	0	1,643	255	0	1,898	0	0
Subtotal	**837**	**13,459**	**4,968**	**594**	**5,401**	**1,699**	**838**	**13,497**	**4,987**	**595**
Middle Keys										
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	0	-	-	-	-	-	0	-	-	-
10	0	990	219	639	0	133	0	991	219	640
11	0	2,044	518	95	1,156	274	0	2,043	516	95
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	**0**	**3,035**	**738**	**734**	**1,156**	**407**	**0**	**3,034**	**735**	**734**
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	36	1,914	1,393	237	0	253	36	1,918	1,395	237
16	3	4,581	2,120	748	1,081	612	3	4,564	2,102	749
17	119	2,897	1,256	1,160	0	374	119	2,909	1,264	1,161
18	0	4,662	1,478	630	1,928	625	0	4,660	1,472	630
19-20 (g)	13	2,485	1,180	196	763	332	13	2,484	1,178	197
21	198	3,181	2,120	336	120	399	198	3,173	2,111	336
22	105	105	0	0	0	0	106	108	0	0
Subtotal	**474**	**19,826**	**9,547**	**3,307**	**3,891**	**2,595**	**475**	**19,815**	**9,521**	**3,310**
TOTAL	**1,311**	**36,319**	**15,250**	**4,634**	**10,448**	**4,702**	**1,313**	**36,347**	**15,243**	**4,639**
Village of Islamorada	13	8,717	4,057	3,041	418	1,165	13	8,694	4,030	3,044
City of Layton	0	175	95	57	0	24	0	175	95	57
City of Key Colony B.	0	1,793	1,459	95	0	241	0	1,794	1,459	95
City of Marathon	668	10,210	2,966	2,788	2,491	1,278	669	10,191	2,941	2,791
City of Key West (p)	563	17,507	2,382	12,010	295	2,277	564	17,528	2,388	12,022
COUNTY TOTAL (q)	**2,555**	**74,720**	**26,208**	**22,625**	**13,653**	**9,685**	**2,558**	**74,730**	**26,155**	**22,648**

Prepared by the Monroe County Planning Department

Peak Seasonal Population

1	156	157	158	159
PAED	2015 Peak Number of Persons Staying in RVs or Campsites	2015 Peak Number of Persons Staying with Friends and Relatives (ah)	2015 Peak Number of People on Liveaboard Vessels	TOTAL 2015 PEAK SEASONAL POPULATION (154 + 155 + 156 + 157 + 158)
Lower Keys				
1	605	112	459	1,293
2	499	154	149	1,296
3	1,099	241	0	1,797
4a	279	493	33	3,709
4b	0	5	0	38
5	1,280	443	198	3,497
6	1,645	255	0	1,900
Subtotal	5,406	1,703	838	13,530
Middle Keys				
7	-	-	-	-
8	-	-	-	-
9	-	-	0	-
10	0	133	0	992
11	1,157	274	0	2,042
12a	-	-	-	-
12b	-	-	-	-
13	-	-	-	-
Subtotal	1,157	407	0	3,034
Upper Keys				
14	-	-	-	-
15	0	253	36	1,921
16	1,082	609	3	4,545
17	0	376	119	2,919
18	1,929	625	0	4,657
19-20 (g)	764	331	13	2,483
21	120	398	198	3,163
22	0	0	106	106
Subtotal	3,895	2,592	475	19,793
TOTAL	**10,459**	**4,703**	**1,314**	**36,357**
Village of Islamorada	419	1,161	13	8,667
City of Layton	0	24	0	175
City of Key Colony B.	0	241	0	1,794
City of Marathon	2,493	1,275	669	10,170
City of Key West (p)	296	2,279	564	17,549
COUNTY TOTAL (q)	**13,666**	**9,683**	**2,561**	**74,712**

Prepared by the Monroe County Planning Department

Appendix 6

Peak Population in Seasonal Residences by PAED from 1990 to 2015

Peak Number of People in Seasonal Residences

1	2	3	4	5	6	7	8	9	10	11
PAED	1990 Census Tract (e)	1990 Census Block Groups	April 1, 1990 Total Number of Seasonal Units (r)	December 31, 1990 Total Number of Seasonal Housing Units (s)	Peak Number of Persons per Party Staying in a Seasonal Dwelling Unit (l)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1990 (5 x 6)	December 31, 1991 Total Number of Seasonal Housing Units (s)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1991 (8 x 6)	December 31, 1992 Total Number of Seasonal Housing Units (s)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1992 (10 x 6)
Lower Keys										
1	9718 & 9719 pt.	N/A	43	43	2.67	115	43	116	44	116
2	9717	N/A	142	143	2.67	383	145	388	146	390
3	9716	N/A	86	89	2.67	237	90	241	92	248
4a	9715	N/A	654	674	2.67	1,800	697	1,860	713	1,903
4b	9714 pt.	BG 4 (a)	4	5	2.67	13	5	14	6	15
5	9714 pt.	BG 1,2,3,4,5 (a)	402	416	2.67	1,111	428	1,144	437	1,186
6	9714 pt.& 9713 pt.	9714 BG 1 (b)	0	0	2.67	0	0	0	0	0
Subtotal	-	-	1,331	1,370	2.67	3,659	1,409	3,763	1,437	3,838
Middle Keys										
7	9713, 9712, & 9711	N/A	777	783	2.67	2,091	787	2,102	793	2,116
8	9710 pt.	BG 3 (c)	197	200	2.67	533	202	539	203	542
9	9710 pt.	BG 2 (d)	90	91	2.67	244	92	248	93	248
10	9710 pt.	BG 2 (d)	66	69	2.67	183	70	186	71	189
11	9710 pt.	BG 1(e)	176	176	2.67	471	176	471	177	472
12a	9709 pt.	BG 5	292	298	2.67	796	307	820	318	849
12b	9709 pt.	BG 1,2 (f)	38	38	2.67	101	41	108	41	108
13	9709 pt.	BG 1,2,3,4 (f)	220	221	2.67	590	224	598	225	602
Subtotal	-	-	1,856	1,876	2.67	5,009	1,899	5,070	1,920	5,128
Upper Keys										
14	9708	N/A	777	796	2.67	2,128	820	2,189	836	2,232
15	9707	N/A	383	411	2.67	1,097	427	1,140	431	1,151
16	9706	N/A	793	794	2.67	2,121	797	2,127	799	2,133
17	9705	N/A	319	329	2.67	879	338	903	347	926
18	9704	N/A	489	493	2.67	1,317	498	1,331	502	1,339
19-20 (g)	9703	N/A	371	377	2.67	1,005	389	1,038	396	1,059
21	9702.98 pt.	BG 1,2,3 (h)	706	717	2.67	1,918	724	1,932	729	1,945
22	9701 pt.& 9702.98 pt.	BG 1 (h)	0	0	2.67	0	0	0	0	0
Subtotal	-	-	3,838	3,918	2.67	10,480	3,993	10,661	4,040	10,786
UNINC. TOTAL	-	-	7,025	7,164	2.67	19,128	7,301	19,494	7,396	19,748
Village of Islamorada	9709	N/A	-	-	-	-	-	-	-	-
City of Layton	9710	BG 1	28	28	2.67	78	29	77	29	78
City of Key Colony B.	9710	BG 3	441	446	2.67	1,192	448	1,197	454	1,212
City of Marathon	9710-9713	N/A	-	-	-	-	-	-	-	-
City of Key West (p)	9719-9726	N/A	440	737	2.90	2,139	742	2,153	747	2,167
COUNTY TOTAL (q)	-	-	7,934	8,376	2.67	22,535	8,520	22,922	8,626	23,205

SEE FINAL PAGE FOR FOOTNOTES

Peak Number of People in Seasonal Residences

1	12	13	14	15	16	17	18	19	20	21
PAED	December 31, 1993 Total Number of Seasonal Housing Units (s)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1993 (12 x 6)	December 31, 1994 Total Number of Seasonal Housing Units (s)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1994 (14 x 6)	December 31, 1995 Total Number of Seasonal Housing Units (s)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1995 (16 x 6)	December 31, 1996 Total Number of Seasonal Housing Units (s)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1996 (18 x 6)	December 31, 1997 Total Number of Seasonal Housing Units (s)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1997 (20 x 6)
Lower Keys										
1	44	116	44	117	44	117	44	118	44	118
2	147	391	148	395	149	397	150	400	151	402
3	95	253	97	258	98	262	100	267	101	271
4a	730	1,949	745	1,990	763	2,038	780	2,083	795	2,123
4b	6	16	6	17	6	17	7	17	7	19
5	449	1,198	455	1,216	461	1,232	469	1,253	472	1,260
8	0	0	0	0	0	0	0	0	0	0
Subtotal	1,469	3,923	1,495	3,993	1,522	4,063	1,550	4,138	1,570	4,193
Middle Keys										
7	796	2,125	799	2,134	803	2,145	806	2,152	809	2,161
8	205	547	207	552	208	556	210	561	211	564
9	94	251	94	252	95	254	96	257	97	259
10	72	192	73	195	73	196	74	196	74	198
11	177	473	177	473	177	473	184	492	186	497
12a	322	860	326	671	332	885	335	895	337	900
12b	41	106	41	108	41	110	41	110	42	111
13	228	610	229	611	230	613	230	615	231	616
Subtotal	1,936	5,167	1,946	5,196	1,960	5,233	1,977	5,277	1,987	5,306
Upper Keys										
14	847	2,262	857	2,287	865	2,310	871	2,327	883	2,358
15	445	1,188	459	1,224	460	1,229	464	1,239	465	1,241
16	801	2,139	805	2,150	808	2,158	811	2,164	812	2,157
17	363	970	371	989	377	1,007	384	1,025	389	1,038
18	517	1,380	519	1,386	522	1,394	525	1,402	529	1,412
19-20 (g)	402	1,075	404	1,080	407	1,086	410	1,094	412	1,099
21	733	1,957	734	1,961	737	1,969	744	1,988	749	2,000
22	0	0	0	0	0	0	0	0	0	0
Subtotal	4,109	10,970	4,149	11,077	4,177	11,154	4,209	11,238	4,238	11,315
UNINC. TOTAL	**7,513**	**20,060**	**7,590**	**20,265**	**7,659**	**20,450**	**7,736**	**20,654**	**7,795**	**20,813**
Village of Islamorada	-	-	-	-	-	-	-	-	-	-
City of Layton	29	78	30	79	30	80	30	81	31	82
City of Key Colony B.	462	1,233	465	1,241	472	1,259	474	1,265	478	1,276
City of Marathon	-	-	-	-	-	-	-	-	-	-
City of Key West (p)	752	2,181	757	2,195	761	2,210	766	2,224	771	2,238
COUNTY TOTAL (q)	**8,756**	**23,553**	**8,841**	**23,781**	**8,922**	**23,999**	**9,006**	**24,224**	**9,075**	**24,409**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Census of Population; Monroe County, Layton, Key Colony Beach, Key West Building Departments; TDC Visitor's Surveys

Peak Number of People in Seasonal Residences

1	22	23	24	25	26	27	28	29	30	31
PAED	December 31, 1998 Total Number of Seasonal Housing Units (e)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1998 (22 x 6)	December 31, 1999 Total Number of Seasonal Housing Units (e)	Peak Number of Persons Staying in Seasonal Dwelling Units During 1999 (24 x 6)	December 31, 2000 Total Number of Seasonal Housing Units (e)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2000 (26 x 6)	December 31, 2001 Total Number of Seasonal Housing Units (e)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2001 (28 x 6)	December 31, 2002 Total Number of Seasonal Housing Units (e)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2002 (30 x 6)
Lower Keys										
1	45	119	45	119	45	120	45	120	45	120
2	151	404	152	405	152	407	153	408	153	410
3	103	274	104	278	105	281	106	284	107	287
4a	806	2,153	813	2,172	823	2,198	833	2,225	843	2,251
4b	7	19	7	19	7	20	8	20	8	21
5	474	1,267	475	1,269	480	1,282	485	1,294	489	1,306
6	0	0	0	0	0	0	0	0	0	0
Subtotal	1,587	4,236	1,597	4,263	1,613	4,307	1,629	4,351	1,646	4,395
Middle Keys										
7	812	2,167	814	2,173	-	-	-	-	-	-
8	212	567	213	570	-	-	-	-	-	-
9	97	259	97	260	-	-	-	-	-	-
10	74	198	75	199	75	201	76	203	77	206
11	186	497	186	497	188	501	189	504	190	508
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	1,382	3,690	1,385	3,699	263	702	265	708	267	713
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	466	1,244	467	1,248	471	1,257	474	1,266	478	1,276
16	813	2,172	815	2,175	815	2,177	816	2,180	817	2,182
17	395	1,054	398	1,062	401	1,071	405	1,080	408	1,089
18	531	1,419	533	1,424	535	1,429	537	1,434	539	1,439
19-20 (g)	413	1,104	415	1,109	417	1,114	419	1,119	421	1,124
21	759	2,028	770	2,056	773	2,063	775	2,071	778	2,078
22	0	0	0	0	0	0	0	0	0	0
Subtotal	3,378	9,020	3,399	9,074	3,413	9,112	3,427	9,150	3,441	9,188
UNINC. TOTAL	**6,347**	**16,946**	**6,381**	**17,036**	**5,289**	**14,121**	**5,321**	**14,208**	**5,354**	**14,295**
Village of Islamorada	1,497	3,998	1,507	4,025	1,513	4,041	1,519	4,057	1,525	4,073
City of Layton	31	83	31	84	32	85	32	88	33	87
City of Key Colony B.	485	1,294	492	1,312	497	1,327	502	1,341	508	1,355
City of Marathon	-	-	-	-	1,127	3,008	1,130	3,018	1,134	3,029
City of Key West (p)	776	2,252	781	2,266	786	2,280	790	2,293	795	2,307
COUNTY TOTAL (q)	**9,136**	**24,572**	**9,192**	**24,723**	**9,243**	**24,860**	**9,296**	**25,003**	**9,349**	**25,146**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Census of Population; Monroe County; Layton, Key Colony Beach, Key West Building Departments; TDC Visitors Survey

Peak Number of People in Seasonal Residences

1	32	33	34	35	36	37	38	39	40
PAED	December 31, 2003 Total Number of Seasonal Housing Units (e)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2003 (32 x 6)	% Increase in Peak Number of Persons in Seasonal Dwellings 1990-1991 [(9 - 7) / 7]	% Increase in Peak Number of Persons in Seasonal Dwellings 1991-1992 [(11 - 9) / 9]	% Increase in Peak Number of Persons in Seasonal Dwellings 1992-1993 [(13 - 11) / 11]	% Increase in Peak Number of Persons in Seasonal Dwellings 1993-1994 [(15 - 13) / 13]	% Increase in Peak Number of Persons in Seasonal Dwellings 1994-1995 [(17 - 15) / 15]	% Increase in Peak Number of Persons in Seasonal Dwellings 1995-1996 [(19 - 17) / 17]	% Increase in Peak Number of Persons in Seasonal Dwellings 1996-1997 [(21 - 19) / 19]
Lower Keys									
1	45	120	0.46%	0.36%	0.15%	0.35%	0.15%	0.66%	0.55%
2	154	411	1.24%	0.51%	0.36%	1.08%	0.43%	0.78%	0.49%
3	108	290	1.78%	2.08%	2.58%	2.09%	1.64%	2.02%	1.19%
4a	853	2,276	3.31%	2.31%	2.43%	2.11%	2.42%	2.20%	1.91%
4b	8	22	12.50%	5.56%	7.89%	2.44%	2.38%	2.33%	9.09%
5	494	1,318	2.99%	1.91%	2.78%	1.50%	1.33%	1.67%	0.56%
6	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Subtotal	**1,662**	**4,438**	**2.84%**	**1.94%**	**2.29%**	**1.77%**	**1.77%**	**1.85%**	**1.31%**
Middle Keys									
7	-	-	0.55%	0.66%	0.43%	0.39%	0.54%	0.33%	0.41%
8	-	-	1.03%	0.68%	0.84%	0.84%	0.83%	0.82%	0.65%
9	-	-	1.19%	0.44%	1.46%	0.43%	0.72%	1.00%	0.85%
10	78	208	1.57%	1.54%	1.71%	1.68%	0.37%	0.18%	0.73%
11	191	511	0.00%	0.24%	0.24%	0.00%	0.00%	3.86%	1.16%
12a	-	-	2.98%	3.56%	1.29%	1.27%	1.68%	1.03%	0.61%
12b	-	-	6.92%	0.00%	0.00%	0.00%	1.44%	0.00%	0.71%
13	-	-	1.24%	0.71%	1.31%	0.10%	0.40%	0.40%	0.10%
Subtotal	**269**	**719**	**1.21%**	**1.11%**	**0.79%**	**0.56%**	**0.72%**	**0.85%**	**0.54%**
Upper Keys									
14	-	-	3.00%	1.95%	1.35%	1.08%	1.01%	0.73%	1.36%
15	481	1,285	3.96%	0.94%	3.17%	3.08%	0.41%	0.77%	0.15%
16	818	2,185	0.30%	0.30%	0.25%	0.55%	0.35%	0.30%	0.15%
17	411	1,098	2.79%	2.53%	4.70%	2.02%	1.82%	1.73%	1.27%
18	541	1,444	1.06%	0.64%	3.04%	0.43%	0.62%	0.54%	0.69%
19-20 (g)	423	1,129	3.26%	1.97%	1.52%	0.46%	0.57%	0.74%	0.51%
21	781	2,085	0.86%	0.67%	0.61%	0.18%	0.42%	0.96%	0.59%
22	0	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Subtotal	**3,455**	**9,225**	**1.92%**	**1.17%**	**1.71%**	**0.97%**	**0.69%**	**0.76%**	**0.68%**
UNINC. TOTAL	**5,387**	**14,383**	**1.91%**	**1.30%**	**1.58%**	**1.02%**	**0.91%**	**1.00%**	**0.77%**
Village of Islamorada	1,531	4,088	-	-	-	-	-	-	-
City of Layton	33	88	2.04%	0.67%	0.66%	1.32%	1.30%	0.64%	1.27%
City of Key Colony B.	513	1,370	0.43%	1.28%	1.69%	0.66%	1.48%	0.49%	0.81%
City of Marathon	1,138	3,039	-	-	-	-	-	-	-
City of Key West (p)	798	2,316	0.66%	0.66%	0.65%	0.65%	0.64%	0.64%	0.64%
COUNTY TOTAL (q)	**9,400**	**25,284**	**1.72%**	**1.24%**	**1.50%**	**0.97%**	**0.92%**	**0.94%**	**0.76%**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Census of Population; Monroe County, Layton, Key Colony Beach, Key West Building Departments; TDC Visitor's Surveys

Peak Number of People In Seasonal Residences

1	41	42	43	44	45	46	47	48
PAED	% Increase In Peak Number of Persons In Seasonal Dwellings 1997-1998 [(23 - 21) / 21]	% Increase In Peak Number of Persons In Seasonal Dwellings 1998-1999 [(25 - 23) / 23]	% Increase In Peak Number of Persons In Seasonal Dwellings 1999-2000 [(27 - 25) / 25]	% Increase In Peak Number of Persons In Seasonal Dwellings 2000-2001 [(29 - 27) / 27]	% Increase In Peak Number of Persons In Seasonal Dwellings 2001-2002 [(31 - 29) / 29]	% Increase In Peak Number of Persons In Seasonal Dwellings 2002-2003 [(33 - 31) / 31]	Mean Average Percent Increase from 1990 to 2003 [(34+35+36+37+38+39+40+41+42+43+44+45+46) / # of Observations]	Peak Number of Persons Staying In Seasonal Dwelling Units During 2004 [33 + (33 x 47)]
Lower Keys								
1	0.50%	0.25%	0.24%	0.24%	0.23%	0.23%	0.34%	121
2	0.49%	0.21%	0.39%	0.39%	0.39%	0.39%	0.55%	414
3	1.37%	1.25%	1.07%	1.06%	1.05%	1.04%	1.56%	294
4a	1.42%	0.89%	1.21%	1.20%	1.19%	1.17%	1.83%	2,319
4b	2.08%	0.00%	2.78%	2.71%	2.63%	2.57%	4.23%	22
5	0.56%	0.21%	0.96%	0.95%	0.94%	0.93%	1.33%	1,335
6	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0
Subtotal	**1.04%**	**0.62%**	**1.03%**	**1.02%**	**1.01%**	**1.00%**	**1.60%**	**4,506**
Middle Keys								
7	0.29%	0.26%	-	-	-	-	-	-
8	0.49%	0.48%	-	-	-	-	-	-
9	0.28%	0.14%	-	-	-	-	-	-
10	0.36%	0.36%	1.08%	1.07%	1.06%	1.05%	0.98%	210
11	0.00%	0.00%	0.69%	0.68%	0.68%	0.67%	0.63%	514
12a	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-
Subtotal	**0.30%**	**0.25%**	**0.73%**	**0.79%**	**0.79%**	**0.78%**	**0.72%**	**724**
Upper Keys								
14	-	-	-	-	-	-	-	-
15	0.30%	0.25%	0.76%	0.75%	0.75%	0.74%	1.23%	1,301
16	0.20%	0.15%	0.11%	0.11%	0.11%	0.11%	0.23%	2,190
17	1.52%	0.83%	0.83%	0.83%	0.82%	0.81%	1.73%	1,117
18	0.49%	0.38%	0.35%	0.35%	0.35%	0.34%	0.71%	1,454
19-20 (g)	0.39%	0.50%	0.45%	0.45%	0.45%	0.44%	0.90%	1,139
21	1.42%	1.40%	0.35%	0.35%	0.35%	0.35%	0.65%	2,099
22	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0
Subtotal	**0.70%**	**0.60%**	**0.42%**	**0.42%**	**0.41%**	**0.41%**	**0.84%**	**9,299**
UNINC. TOTAL	**0.70%**	**0.53%**	**0.59%**	**0.62%**	**0.61%**	**0.61%**	**0.94%**	**14,629**
Village of Islamorada	0.33%	0.69%	0.39%	0.39%	0.39%	0.39%	0.43%	4,106
City of Layton	1.26%	1.24%	1.23%	1.21%	1.20%	1.18%	1.17%	89
City of Key Colony B.	1.44%	1.42%	1.09%	1.08%	1.07%	1.06%	1.08%	1,384
City of Marathon	-	-	0.06%	0.35%	0.35%	0.35%	0.28%	3,048
City of Key West (p)	0.63%	0.61%	0.61%	0.60%	0.60%	0.38%	0.61%	2,325
COUNTY TOTAL (q)	**0.67%**	**0.61%**	**0.56%**	**0.57%**	**0.57%**	**0.55%**	**0.89%**	**25,481**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Census of Population; Monroe County, Layton, Key Colony Beach, Key West Building Departments; TDC Visitor's Surveys

Peak Number of People in Seasonal Residences

1	49	50	51	52	53	54	55	56
PAED	Peak Number of Persons Staying in Seasonal Dwelling Units During 2005 (o) 48 + (48 x (47 - 0.10%)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2006 (o) 49 + (49 x (47 - 0.20%)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2007 (o) 50 + (50 x (47 - 0.30%)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2008 (o) 51 + (51 x (47 - 0.40%)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2009 (o) 52 + (52 x (47 - 0.50%)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2010 (o) 53 + (53 x (47 - 0.60%)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2011 (o) 54 + (54 x (47 - 0.70%)	Peak Number of Persons Staying in Seasonal Dwelling Units During 2012 (o) 55 + (55 x (47 - 0.80%))
Lower Keys								
1	121	121	121	121	121	121	120	120
2	415	417	418	419	419	419	418	417
3	298	302	306	310	313	316	319	321
4a	2,359	2,398	2,434	2,469	2,502	2,533	2,561	2,588
4b	23	24	25	26	27	28	29	30
5	1,352	1,367	1,381	1,394	1,406	1,416	1,425	1,432
6	0	0	0	0	0	0	0	0
Subtotal	4,570	4,630	4,686	4,739	4,788	4,832	4,872	4,908
Middle Keys								
7	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-
10	212	213	215	216	217	218	219	219
11	517	519	521	522	523	523	523	522
12a	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-
Subtotal	729	733	736	738	740	741	741	741
Upper Keys								
14	-	-	-	-	-	-	-	-
15	1,316	1,330	1,342	1,353	1,363	1,372	1,379	1,385
16	2,192	2,193	2,191	2,188	2,182	2,174	2,163	2,151
17	1,135	1,152	1,169	1,184	1,199	1,212	1,225	1,236
18	1,463	1,470	1,476	1,481	1,484	1,486	1,486	1,485
19-20 (g)	1,149	1,157	1,164	1,169	1,174	1,178	1,180	1,181
21	2,110	2,120	2,127	2,133	2,136	2,137	2,136	2,133
22	0	0	0	0	0	0	0	0
Subtotal	9,365	9,422	9,469	9,508	9,538	9,558	9,569	9,571
UNINC. TOTAL	14,663	14,784	14,891	14,985	15,065	15,131	15,183	15,220
Village of Islamorada	4,120	4,129	4,134	4,136	4,133	4,126	4,115	4,099
City of Layton	90	91	92	93	93	94	94	94
City of Key Colony B.	1,398	1,410	1,421	1,431	1,439	1,446	1,451	1,455
City of Marathon	3,053	3,056	3,055	3,051	3,044	3,035	3,022	3,006
City of Key West (p)	2,334	2,339	2,345	2,350	2,355	2,361	2,366	2,372
COUNTY TOTAL (q)	25,658	25,809	25,938	26,045	26,130	26,192	26,231	26,246

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Census of Population; Monroe County, Layton, Key Colony Beach, Key West Building Departments; TDC Visitor's Surveys

Peak Number of People In Seasonal Residences

1	57	58	59
PAED	Peak Number of Persons Staying In Seasonal Dwelling Units During 2013 (o) 56 + (56 x (47 - 0.90%))	Peak Number of Persons Staying In Seasonal Dwelling Units During 2014 (o) [57 + (57 x (47 - 1.0%)]	Peak Number of Persons Staying In Seasonal Dwelling Units During 2015 (o) [58 + (58 x (47 - 1.1%)]
Lower Keys			
1	119	118	117
2	415	414	411
3	323	325	327
4a	2,612	2,633	2,652
4b	31	32	33
5	1,438	1,443	1,446
6	0	0	0
Subtotal	4,939	4,966	4,987
Middle Keys			
7	-	-	-
8	-	-	-
9	-	-	-
10	219	219	219
11	520	518	516
12a	-	-	-
12b	-	-	-
13	-	-	-
Subtotal	739	738	735
Upper Keys			
14	-	-	-
15	1,390	1,393	1,395
16	2,137	2,120	2,102
17	1,247	1,256	1,264
18	1,482	1,478	1,472
19-20 (g)	1,181	1,180	1,178
21	2,128	2,120	2,111
22	0	0	0
Subtotal	9,564	9,547	9,521
UNINC. TOTAL	**15,242**	**15,250**	**15,243**
Village of Islamorada	4,080	4,057	4,030
City of Layton	95	95	95
City of Key Colony B.	1,458	1,459	1,459
City of Marathon	2,987	2,966	2,941
City of Key West (p)	2,377	2,382	2,388
COUNTY TOTAL (q)	**26,239**	**26,208**	**26,155**

SEE FINAL PAGE FOR FOOTNOTES

Appendix 7

Peak Population in Hotels and Motels by PAED from 1990 to 2015

Peak Number of People In Hotels and Motels

1	2	3	4	5	6	7	8	9	10	11	12
PAED	1990 Census Tract (e)	1990 Census Block Groups	Number of Hotel and Motel Rooms in 1990 (u)	Peak Number of Persons per Room (v)	Peak Occupancy Rate for 1990 (x)	Peak Number of Persons Staying in Hotel and Motel Rooms During 1990 [(4 x 5) x 6]	Number of Hotel and Motel Rooms in 1991 (u)	Peak Occupancy Rate for 1991 (x)	Peak Number of People Staying in Hotel and Motel Rooms During 1991 [(8 x 5) x 9]	Number of Hotel and Motel Rooms in 1992 (u)	Peak Occupancy Rate for 1992 (x)
Lower Keys											
1	9718 & 9719 pt.	N/A	0	2.73	89.5%	0	0	87.3%	0	0	84.2%
2	9717	N/A	35	2.73	89.5%	86	35	87.3%	83	35	84.2%
3	9716	N/A	55	2.73	89.5%	134	55	87.3%	131	55	84.2%
4a	9715	N/A	106	2.73	89.5%	259	106	87.3%	253	106	84.2%
4b	9714 pt.	BG 4 (a)	0	2.73	89.5%	0	0	87.3%	0	0	84.2%
5	9714 pt.	BG 1,2,3,4,5 (a)	55	2.73	89.5%	134	55	87.3%	131	55	84.2%
6	9714 pt. & 9713 pt.	9714 BG 1 (b)	0	2.73	89.5%	0	0	87.3%	0	0	84.2%
Subtotal	-	-	**251**	**2.73**	**89.5%**	**613**	**251**	**87.3%**	**598**	**251**	**84.2%**
Middle Keys											
7	9713, 9712, & 9711	N/A	690	2.73	89.5%	1,686	690	87.3%	1,644	890	84.2%
8	9710 pt.	BG 3 (c)	354	2.73	89.5%	865	354	87.3%	844	354	84.2%
9	9710 pt.	BG 2 (d)	52	2.73	89.5%	127	52	87.3%	124	52	84.2%
10	9710 pt.	BG 2 (d)	45	2.73	89.5%	110	45	87.3%	107	45	84.2%
11	9710 pt.	BG 1(e)	28	2.73	89.5%	68	28	87.3%	67	28	84.2%
12a	9709 pt.	BG 5	101	2.73	89.5%	247	101	87.3%	241	101	84.2%
12b	9709 pt.	BG 1,2 (f)	295	2.73	89.5%	721	295	87.3%	703	295	84.2%
13	9709 pt.	BG 1,2,3,4 (f)	750	2.73	89.5%	1,833	790	87.3%	1,883	790	84.2%
Subtotal	-	-	**2,315**	**2.73**	**89.5%**	**5,656**	**2,355**	**87.3%**	**5,613**	**2,355**	**84.2%**
Upper Keys											
14	9708	N/A	99	2.73	89.5%	242	99	87.3%	236	99	84.2%
15	9707	N/A	100	2.73	89.5%	244	100	87.3%	238	100	84.2%
16	9706	N/A	294	2.73	89.5%	718	294	87.3%	701	294	84.2%
17	9705	N/A	490	2.73	89.5%	1,197	490	87.3%	1,168	490	84.2%
18	9704	N/A	149	2.73	89.5%	364	149	87.3%	355	149	84.2%
19-20 (g)	9703	N/A	27	2.73	89.5%	66	27	87.3%	84	63	84.2%
21	9702.98 pt.	BG 1,2,3 (h)	142	2.73	89.5%	347	142	87.3%	338	142	84.2%
22	9701 pt. & 9702.98 pt.	BG 1 (h)	0	2.73	89.5%	0	0	87.3%	0	0	84.2%
Subtotal	-	-	**1,301**	**2.73**	**89.5%**	**3,179**	**1,301**	**87.3%**	**3,101**	**1,357**	**84.2%**
UNINC. TOTAL	-	-	**3,867**	**2.73**	**89.5%**	**9,448**	**3,907**	**87.3%**	**9,312**	**3,963**	**84.2%**
Village of Islamorada	9709	N/A	-	-	-	-	-	-	-	-	-
City of Layton	9710	BG 1	24	2.73	89.5%	59	24	87.3%	57	24	84.2%
City of Key Colony B.	9710	BG 3	40	2.73	89.5%	98	40	87.3%	95	40	84.2%
City of Marathon	9710-9713	N/A	-	-	-	-	-	-	-	-	-
City of Key West (p)	9719-9726	N/A	5,074	2.90	89.5%	13,188	5,074	87.3%	12,864	5,074	84.2%
COUNTY TOTAL (q)	-	-	**9,005**	**2.73**	**89.5%**	**22,793**	**9,045**	**87.3%**	**22,328**	**9,101**	**84.2%**

SEE FINAL PAGE FOR FOOTNOTES

Peak Number of People in Hotels and Motels

1	13	14	15	16	17	18	19	20	21	22	23	24
PAED	Peak Number of People Staying in Hotel and Motel Rooms During 1992 [(11 x 5) x 12]	Number of Hotel and Motel Rooms in 1993 (u)	Peak Occupancy Rate for 1993 (x)	Peak Number of People Staying in Hotel and Motel Rooms During 1993 [(14 x 5) x 15]	Number of Hotel and Motel Rooms in 1994 (u)	Peak Occupancy Rate for 1994 (x)	Peak Number of People Staying in Hotel and Motel Rooms During 1994 [(17 x 5) x 18]	Number of Hotel and Motel Rooms in 1995 (u)	Peak Occupancy Rate for 1995 (x)	Peak Number of People Staying in Hotel and Motel Rooms During 1995 [(20 x 5) x 21]	Number of Hotel and Motel Rooms in 1996 (u)	Peak Occupancy Rate for 1996 (x)
Lower Keys												
1	0	0	91.4%	0	0	86.4%	0	0	84.3%	0	0	88.7%
2	80	35	91.4%	87	35	86.4%	83	35	84.3%	81	35	86.7%
3	126	55	91.4%	137	55	86.4%	130	55	84.3%	127	55	86.7%
4a	244	106	91.4%	264	106	86.4%	250	106	84.3%	244	106	86.7%
4b	0	0	91.4%	0	0	86.4%	0	0	84.3%	0	0	86.7%
5	126	55	91.4%	137	55	86.4%	130	55	84.3%	127	55	88.7%
6	0	0	91.4%	0	0	86.4%	0	0	84.3%	0	0	86.7%
Subtotal	577	251	91.4%	626	251	86.4%	592	251	84.3%	578	251	86.7%
Middle Keys												
7	1,586	690	91.4%	1,722	690	86.4%	1,628	690	84.3%	1,588	690	86.7%
8	814	354	91.4%	883	354	86.4%	835	354	84.3%	815	354	86.7%
9	120	52	91.4%	130	52	86.4%	123	52	84.3%	120	52	86.7%
10	103	45	91.4%	112	45	86.4%	106	45	84.3%	104	45	86.7%
11	64	40	91.4%	100	40	86.4%	94	40	84.3%	92	40	86.7%
12a	232	101	91.4%	252	101	88.4%	238	101	84.3%	232	101	86.7%
12b	678	295	91.4%	736	295	86.4%	696	295	84.3%	679	295	86.7%
13	1,816	790	91.4%	1,971	790	88.4%	1,863	790	84.3%	1,818	790	86.7%
Subtotal	5,413	2,367	91.4%	5,908	2,367	88.4%	5,583	2,367	84.3%	5,447	2,367	86.7%
Upper Keys												
14	228	99	91.4%	247	99	86.4%	234	99	84.3%	228	99	86.7%
15	230	100	91.4%	250	100	86.4%	236	100	84.3%	230	100	86.7%
16	676	294	91.4%	734	294	86.4%	693	294	84.3%	677	294	86.7%
17	1,126	490	91.4%	1,223	490	86.4%	1,156	490	84.3%	1,128	490	86.7%
18	343	266	91.4%	664	266	86.4%	627	266	84.3%	612	266	86.7%
19-20 (g)	191	83	91.4%	207	83	86.4%	196	83	84.3%	191	83	86.7%
21	328	142	91.4%	354	142	86.4%	335	142	84.3%	327	142	86.7%
22	0	0	91.4%	0	0	86.4%	0	0	84.3%	0	0	86.7%
Subtotal	3,119	1,474	91.4%	3,678	1,474	88.4%	3,477	1,474	84.3%	3,392	1,474	86.7%
UNINC. TOTAL	9,110	4,092	91.4%	10,210	4,092	86.4%	9,652	4,092	84.3%	9,417	4,092	86.7%
Village of Islamorada	-	-	-	-	-	-	-	-	-	-	-	-
City of Layton	55	24	91.4%	60	24	86.4%	57	24	84.3%	55	24	86.7%
City of Key Colony B.	92	40	91.4%	100	40	86.4%	94	40	84.3%	92	40	86.7%
City of Marathon	-	-	-	-	-	-	-	-	-	-	-	-
City of Key West (p)	12,407	5,074	91.4%	13,468	5,074	88.4%	12,731	5,074	84.3%	12,422	5,074	86.7%
COUNTY TOTAL (q)	21,663	9,230	91.4%	23,838	9,230	86.4%	22,534	9,230	84.3%	21,986	9,230	86.7%

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: State of Florida Department of Business and Professional Regulation; TDC Visitor Profiles:Florida Keys/Key West Technical Appendix; ROGO Ordinance Guidelines

Peak Number of People in Hotels and Motels

1	25	26	27	28	29	30	31	32	33	34	35
PAED	Peak Number of People Staying in Hotel and Motel Rooms During 1995 [(23 x 5) x 24]	Number of Hotel and Motel Rooms in 1997 (u)	Peak Occupancy Rate for 1997 (x)	Peak Number of People Staying in Hotel and Motel Rooms During 1997 [(26 x 5) x 27]	Number of Hotel and Motel Rooms in 1998 (u)	Peak Occupancy Rate for 1998 (x)	Peak Number of People Staying in Hotel and Motel Rooms During 1998] (29 x 5) x 30]	Number of Hotel and Motel Rooms in 1999 (y)	Peak Occupancy Rate for 1999 (x)	Peak Number of People Staying in Hotel and Motel Rooms During 1999 [(32 x 5) x 33]	Average Peak Occupancy Rate [(6 + 9 + 12 + 15 + 18 + 21 + 24 + 27 + 30 + 33) / # of Observations]
Lower Keys											
1	0	0	86.7%	0	0	81.5%	0	0	82.1%	0	86.0%
2	83	35	86.7%	83	35	81.5%	78	35	82.1%	78	86.0%
3	130	55	86.7%	130	55	81.5%	122	55	82.1%	123	86.0%
4a	251	106	86.7%	251	106	81.5%	236	106	82.1%	238	86.0%
4b	0	0	86.7%	0	0	81.5%	0	0	82.1%	0	86.0%
5	130	55	86.7%	130	55	81.5%	122	55	82.1%	123	86.0%
6	0	0	86.7%	0	0	81.5%	0	0	82.1%	0	86.0%
Subtotal	**594**	**251**	**86.7%**	**594**	**251**	**81.5%**	**558**	**251**	**82.1%**	**563**	**86.0%**
Middle Keys											
7	1,633	690	86.7%	1,633	690	81.5%	1,635	772	82.1%	1,730	86.0%
8	838	354	86.7%	838	354	81.5%	788	354	82.1%	793	86.0%
9	123	52	86.7%	123	52	81.5%	116	52	82.1%	117	86.0%
10	107	65	86.7%	154	186	81.5%	414	198	82.1%	444	86.0%
11	95	40	86.7%	95	40	81.5%	89	40	82.1%	90	86.0%
12a	239	101	86.7%	239	-	-	-	-	-	-	-
12b	698	295	86.7%	698	-	-	-	-	-	-	-
13	1,870	790	86.7%	1,870	-	-	-	-	-	-	-
Subtotal	**5,602**	**2,387**	**86.7%**	**5,650**	**1,322**	**81.5%**	**2,941**	**1,416**	**82.1%**	**3,174**	**86.0%**
Upper Keys											
14	234	99	86.7%	234	-	-	-	-	-	-	-
15	237	100	86.7%	237	100	81.5%	222	100	82.1%	224	86.0%
16	696	294	86.7%	696	294	81.5%	654	294	82.1%	659	86.0%
17	1,160	490	86.7%	1,160	490	81.5%	1,090	490	82.1%	1,098	86.0%
18	630	266	86.7%	630	266	81.5%	592	266	82.1%	596	86.0%
19-20 (g)	196	83	86.7%	196	83	81.5%	185	83	82.1%	188	86.0%
21	336	142	86.7%	336	142	81.5%	316	142	82.1%	318	86.0%
22	0	0	86.7%	0	0	81.5%	0	0	82.1%	0	86.0%
Subtotal	**3,489**	**1,474**	**86.7%**	**3,489**	**1,375**	**81.5%**	**3,059**	**1,375**	**82.1%**	**3,082**	**86.0%**
UNINC. TOTAL	**9,685**	**4,112**	**86.7%**	**9,733**	**2,948**	**81.5%**	**6,559**	**3,042**	**82.1%**	**6,818**	**86.0%**
Village of Islamorada	-	-	-	-	1,285	81.5%	2,859	1,285	82.1%	2,880	86.0%
City of Layton	57	24	86.7%	57	24	81.5%	53	24	82.1%	54	86.0%
City of Key Colony B.	95	40	86.7%	95	40	81.5%	89	40	82.1%	90	86.0%
City of Marathon	-	-	-	-	-	-	-	-	-	-	-
City of Key West (p)	12,775	5,074	86.7%	12,775	5,074	81.5%	12,009	5,074	82.1%	12,097	86.0%
COUNTY TOTAL (q)	**22,612**	**9,250**	**86.7%**	**22,659**	**9,371**	**81.5%**	**21,570**	**9,465**	**82.1%**	**21,939**	**86.0%**

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1	36	37	38	39	40	41	42	43	44	45
PAED	Number of Hotel and Motel Rooms in 2000 (y)	Peak Number of People Staying in Hotel and Motel Rooms During 2000 [(36 x 5) ÷ 35]	Number of Hotel and Motel Rooms in 2001 (y)	Peak Number of People Staying in Hotel and Motel Rooms During 2001 [(38 x 5) ÷ 35]	Number of Hotel and Motel Rooms in 2002 (y)	Peak Number of People Staying in Hotel and Motel Rooms During 2002 [(40 x 5) x 35]	Number of Hotel and Motel Rooms in 2003 (z)	Peak Number of People Staying in Hotel and Motel Rooms During 2003 [(42 x 5) ÷ 35)	Peak Number of People Staying in Hotel and Motel Rooms During 2004 (ee) [(42 x 5) x 35]	Peak Number of People Staying in Hotel and Motel Rooms During 2005 (ee) [(42 x 5) x 35]
Lower Keys										
1	0	0	0	0	0	0	0	0	0	0
2	35	82	35	82	35	82	35	82	82	82
3	55	129	55	129	55	129	55	129	129	129
4a	106	249	106	249	106	249	106	249	249	249
4b	0	0	0	0	0	0	0	0	0	0
5	55	129	55	129	55	129	55	129	129	129
6	0	0	0	0	0	0	0	0	0	0
Subtotal	251	589	251	589	251	589	251	589	589	589
Middle Keys										
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
10	222	521	246	578	270	634	270	634	634	634
11	40	94	40	94	40	94	40	94	94	94
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	262	615	286	672	310	728	310	728	3,494	3,494
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	100	235	100	235	100	235	100	235	235	235
16	294	690	294	690	294	690	316	742	742	742
17	490	1,151	490	1,151	490	1,151	490	1,151	1,151	1,151
18	266	625	266	625	266	625	266	625	625	625
19-20 (g)	83	195	83	195	83	195	83	195	195	195
21	142	333	142	333	142	333	142	333	333	333
22	0	0	0	0	0	0	0	0	0	0
Subtotal	1,375	3,229	1,375	3,229	1,375	3,229	1,397	3,280	3,280	3,280
UNINC. TOTAL	1,888	4,433	1,912	4,490	1,936	4,546	1,958	4,598	7,364	7,364
Village of Islamorada	1,285	3,017	1,285	3,017	1,285	3,017	1,285	3,017	3,017	3,017
City of Layton	24	56	24	56	24	56	24	56	56	56
City of Key Colony B.	40	94	40	94	40	94	40	94	94	94
City of Marathon	1,178	2,766	1,178	2,766	1,178	2,766	1,178	2,766	2,766	2,766
City of Key West (p)	5,074	12,673	5,074	12,673	5,074	12,673	5,074	12,673	11,914	11,914
COUNTY TOTAL (q)	9,489	23,040	9,513	23,096	9,537	23,153	9,559	23,204	25,211	25,211

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: State of Florida Department of Business and Professional Regulation; TDC Visitor Profiles:Florida Keys/Key West Technical Appendix; ROGO Ordinance Guidelines

Peak Number of People in Hotels and Motels

1	46	47	48	49	50	51	52	53	54	55
PAED	Peak Number of People Staying in Hotel and Motel Rooms During 2006 (aa) [[42 x 5] x 35]	Peak Number of People Staying in Hotel and Motel Rooms During 2007 [46 + (46 x 0.10%)]	Peak Number of People Staying in Hotel and Motel Roomx During 2008 [47 + (47 x 0.10%)]	Peak Number of People Staying in Hotel and Motel Rooms During 2009 [48 + (48 x 0.10%)]	Peak Number of People Staying in Hotel and Motel Rooms During 2010 [49 + (49 x 0.10%)]	Peak Number of People Staying in Hotel and Motel Rooms During 2011 [50 + (50 x 0.10%)]	Peak Number of People Staying in Hotel and Motel Rooms During 2012 [51 + (51 x 0.10%)]	Peak Number of People Staying in Hotel and Motel Rooms During 2013 [52 + (52 x 0.10%)]	Peak Number of People Staying in Hotel and Motel Rooms During 2014 [53 + (53 x 0.10%)]	Peak Number of People Staying in Hotel and Motel Rooms During 2015 [54 + (54 x 0.10%)]
Lower Keys										
1	0	0	0	0	0	0	0	0	0	0
2	82	82	82	82	83	83	83	83	83	83
3	129	129	129	130	130	130	130	130	130	130
4a	249	249	249	250	250	250	250	251	251	251
4b	0	0	0	0	0	0	0	0	0	0
5	129	129	129	130	130	130	130	130	130	130
6	0	0	0	0	0	0	0	0	0	0
Subtotal	589	590	591	591	592	592	593	594	594	595
Middle Keys										
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
10	634	635	635	636	637	637	638	638	639	640
11	94	94	94	94	94	94	94	95	95	95
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	3,494	729	729	730	731	732	732	733	734	734
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	235	235	235	236	236	236	236	236	237	237
16	742	743	743	744	745	746	746	747	748	749
17	1,151	1,152	1,153	1,154	1,155	1,156	1,157	1,159	1,160	1,161
18	625	625	626	626	627	628	628	629	630	630
19-20 (g)	195	195	195	195	196	196	196	196	198	197
21	333	334	334	334	335	336	335	336	336	336
22	0	0	0	0	0	0	0	0	0	0
Subtotal	3,280	3,284	3,287	3,290	3,293	3,297	3,300	3,303	3,307	3,310
UNINC. TOTAL	**7,364**	**4,602**	**4,607**	**4,611**	**4,616**	**4,621**	**4,625**	**4,630**	**4,634**	**4,639**
Village of Islamorada	3,017	3,020	3,023	3,026	3,029	3,032	3,035	3,038	3,041	3,044
City of Layton	56	56	56	57	57	57	57	57	57	57
City of Key Colony B.	94	94	94	94	94	94	94	95	95	95
City of Marathon	2,766	2,769	2,772	2,774	2,777	2,780	2,783	2,785	2,788	2,791
City of Key West (p)	11,914	11,926	11,938	11,950	11,962	11,974	11,986	11,998	12,010	12,022
COUNTY TOTAL (q)	**25,211**	**22,467**	**22,490**	**22,512**	**22,535**	**22,557**	**22,580**	**22,602**	**22,625**	**22,648**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: State of Florida Department of Business and Professional Regulation; TDC Visitor Profiles:Florida Keys/Key West Technical Appendix; ROGO Ordinance Guidelines

Appendix 8

Peak Population in Campsites and Recreational Vehicles by PAED from 1990 to 2015

Peak Number of People in Campsites and Recreational Vehicles

1	2	3	4	5	6	7	8	9	10	11	12
PAED	1990 Census Tract (s)	1990 Census Block Groups	Total Number of Campsite and Recreational Vehicle Sites (sb)	Peak Number of Persons Per Site or Vehicle (ac)	Peak Utilization Rate (ad)	1990 Peak Number of Persons Staying in RVs or Campsites [(4 x 5) x 6]	1991 Peak Number of Persons Staying in RVs or Campsites [(4 x 5) x 6]	1992 Peak Number of Persons Staying in RVs or Campsites [(4 x 5) x 6]	1993 Peak Number of Persons Staying in RVs or Campsites [(4 x 5) x 6]	1994 Peak Number of Persons Staying in RVs or Campsites [(4 x 5) x 6]	1995 Peak Number of Persons Staying in RVs or Campsites [(4 x 5) x 6]
Lower Keys											
1	9718 & 9719 pt.	N/A	217	2.93	94.31%	600	600	600	600	600	600
2	9717	N/A	179	2.93	94.31%	495	495	495	495	495	495
3	9716	N/A	394	2.93	94.31%	1,089	1,089	1,089	1,089	1,089	1,089
4a	9715	N/A	100	2.93	94.31%	276	276	276	276	276	276
4b	9714 pt.	BG 4 (a)	0	2.93	94.31%	0	0	0	0	0	0
5	9714 pt.	BG 1,2,3,4,5 (a)	459	2.93	94.31%	1,268	1,268	1,268	1,268	1,268	1,268
6	9714 pt. & 9713 pt.	9714 BG 1 (b)	590	2.93	94.31%	1,630	1,630	1,630	1,630	1,630	1,630
Subtotal	-	-	1,939	2.93	94.31%	5,358	5,358	5,358	5,358	5,358	5,358
Middle Keys											
7	9713, 9712, & 9711	N/A	609	2.93	94.31%	1,683	1,683	1,683	1,683	1,683	1,683
8	9710 pt.	BG 3 (c)	65	2.93	94.31%	180	180	180	180	180	180
9	9710 pt.	BG 2 (d)	220	2.93	94.31%	608	608	608	608	608	608
10	9710 pt.	BG 2 (d)	0	2.93	94.31%	0	0	0	0	0	0
11	9710 pt.	BG 1(e)	415	2.93	94.31%	1,147	1,147	1,147	1,147	1,147	1,147
12a	9709 pt.	BG 5	2	2.93	94.31%	6	6	6	6	6	6
12b	9709 pt.	BG 1,2 (f)	0	2.93	94.31%	0	0	0	0	0	0
13	9709 pt.	BG 1,2,3,4 (f)	85	2.93	94.31%	235	235	235	235	235	235
Subtotal	-	-	1,396	2.93	94.31%	3,858	3,858	3,858	3,858	3,858	3,858
Upper Keys											
14	9708	N/A	63	2.93	94.31%	174	174	174	174	174	174
15	9707	N/A	0	2.93	94.31%	0	0	0	0	0	0
16	9706	N/A	388	2.93	94.31%	1,072	1,072	1,072	1,072	1,072	1,072
17	9705	N/A	0	2.93	94.31%	0	0	0	0	0	0
18	9704	N/A	692	2.93	94.31%	1,912	1,912	1,912	1,912	1,912	1,912
19-20	9703	N/A	274	2.93	94.31%	757	757	757	757	757	757
21	9702.98 pt.	BG 1,2,3 (h)	43	2.93	94.31%	119	119	119	119	119	119
22	9701 pt.& 9702.98 pt.	BG 1 (h)	0	2.93	94.31%	0	0	0	0	0	0
Subtotal	-	-	1,460	2.93	94.31%	4,034	4,034	4,034	4,034	4,034	4,034
UNINC. TOTAL	-	-	4,795	2.93	94.31%	13,250	13,250	13,250	13,250	13,250	13,250
Village of Islamorada	9709	N/A	-	-	-	-	-	-	-	-	-
City of Layton	9710	BG 1	0	2.93	94.31%	0	0	0	0	0	0
City of Key Colony B.	9710	BG 3	0	2.93	94.31%	0	0	0	0	0	0
City of Marathon	9710-9713	N/A	-	-	-	-	-	-	-	-	-
City of Key West	9719-9726	N/A	106	2.93	94.31%	293	293	293	293	293	293
COUNTY TOTAL (q)	-	-	4,901	2.93	94.31%	13,543	13,543	13,543	13,543	13,543	13,543

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: TDC 1996 Visitor Profiles:Florida Keys/Key West Technical Appendix: Sampling Methodologies and Estimation Methods

Peak Number of People in Campsites and Recreational Vehicles

1	13	14	15	16	17	18	19	20	21	22	23	24
PAEO	1996 Peak Number of Persons Staying in RVs or Campsites [(4x5)x6]	1997 Peak Number of Persons Staying in RVs or Campsites [(4x5)x6]	1998 Peak Number of Persons Staying in RVs or Campsites [(4x5)x6]	1999 Peak Number of Persons Staying in RVs or Campsites [(4x5)x6]	2000 Peak Number of Persons Staying in RVs or Campsites [(4x5)x6]	2001 Peak Number of Persons Staying in RVs or Campsites [(4x5)x6]	2002 Peak Number of Persons Staying in RVs or Campsites [(4x5)x6]	2003 Peak Number of Persons Staying in RVs or Campsites [(4x5)x6]	2004 Peak Number of Persons Staying in RVs or Campsites [(4x5)x6]	2005 Peak Number of Persons Staying in RVs or Campsites [(4x5)x6]	2006 Peak Number of Persons Staying in RVs or Campsites [(4x5)x6]	2007 Peak Number of Persons Staying in RVs or Campsites 21+(21x0.10%)
Lower Keys												
1	600	600	600	600	600	600	600	600	600	600	600	600
2	495	495	495	495	495	495	495	495	495	495	495	495
3	1,089	1,089	1,089	1,089	1,089	1,089	1,089	1,089	1,089	1,089	1,089	1,090
4a	276	276	276	276	276	276	276	276	276	276	276	277
4b	0	0	0	0	0	0	0	0	0	0	0	0
5	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,268	1,270
6	1,630	1,630	1,630	1,630	1,630	1,630	1,630	1,630	1,630	1,630	1,630	1,632
Subtotal	**5,358**	**5,358**	**5,358**	**5,358**	**5,358**	**5,358**	**5,358**	**5,358**	**5,358**	**5,358**	**5,358**	**5,363**
Middle Keys												
7	1,683	1,683	1,683	1,683	-	-	-	-	-	-	-	-
8	180	180	180	180	-	-	-	-	-	-	-	-
9	608	608	608	608	-	-	-	-	-	-	-	-
10	0	0	0	0	0	0	0	0	0	0	0	0
11	1,147	1,147	1,147	1,147	1,147	1,147	1,147	1,147	1,147	1,147	1,147	1,148
12a	6	6	-	-	-	-	-	-	-	-	-	-
12b	0	0	-	-	-	-	-	-	-	-	-	-
13	235	235	-	-	-	-	-	-	-	-	-	-
Subtotal	**3,858**	**3,858**	**3,617**	**3,617**	**1,147**	**1,147**	**1,147**	**1,147**	**1,147**	**1,147**	**1,147**	**1,148**
Upper Keys												
14	174	174	-	-	-	-	-	-	-	-	-	-
15	0	0	0	0	0	0	0	0	0	0	0	0
16	1,072	1,072	1,072	1,072	1,072	1,072	1,072	1,072	1,072	1,072	1,072	1,073
17	0	0	0	0	0	0	0	0	0	0	0	0
18	1,912	1,912	1,912	1,912	1,912	1,912	1,912	1,912	1,912	1,912	1,912	1,914
19-20	757	757	757	757	757	757	757	757	757	757	757	758
21	119	119	119	119	119	119	119	119	119	119	119	119
22	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	**4,034**	**4,034**	**3,860**	**3,860**	**3,860**	**3,860**	**3,860**	**3,860**	**3,860**	**3,860**	**3,860**	**3,864**
UNINC. TOTAL	**13,250**	**13,250**	**12,835**	**12,835**	**10,365**	**10,365**	**10,365**	**10,365**	**10,365**	**10,365**	**10,365**	**10,375**
Village of Islamorada	-	-	415	415	415	415	415	415	415	415	415	415
City of Layton	0	0	0	0	0	0	0	0	0	0	0	0
City of Key Colony B.	0	0	0	0	0	0	0	0	0	0	0	0
City of Marathon	-	-	-	-	2,471	2,471	2,471	2,471	2,471	2,471	2,471	2,473
City of Key West	293	293	293	293	293	293	293	293	293	293	293	293
COUNTY TOTAL (q)	**13,543**	**13,543**	**13,543**	**13,543**	**13,544**	**13,544**	**13,544**	**13,544**	**13,544**	**13,544**	**13,544**	**13,558**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: TDC 1996 Visitor Profiles:Florida Keys/Key West Technical Appendix: Sampling Methodologies and Estimation Methods

Peak Number of People in Campsites and Recreational Vehicles

1	25	26	27	28	29	30	31	32
PAED	2008 Peak Number of Persons Staying in RVs or Campsites 22 + (22 x 0.10%)	2009 Peak Number of Persons Staying in RVs or Campsites 23 + (23 x 0.10%)	2010 Peak Number of Persons Staying in RVs or Campsites 24 + (24 x 0.10%)	2011 Peak Number of Persons Staying in RVs or Campsites 25 + (25 x 0.10%)	2012 Peak Number of Persons Staying in RVs or Campsites 26 + (26 x 0.10%)	2013 Peak Number of Persons Staying in RVs or Campsites 27 + (27 x 0.10%)	2014 Peak Number of Persons Staying in RVs or Campsites 28 + (28 x 0.10%)	2015 Peak Number of Persons Staying in RVs or Campsites 29 + (29 x 0.10%)
Lower Keys								
1	601	601	602	603	603	604	604	605
2	496	496	497	497	498	498	499	499
3	1,091	1,092	1,093	1,094	1,095	1,096	1,097	1,099
4a	277	277	277	278	278	278	279	279
4b	0	0	0	0	0	0	0	0
5	1,271	1,272	1,273	1,275	1,276	1,277	1,279	1,280
6	1,634	1,635	1,637	1,639	1,640	1,642	1,643	1,645
Subtotal	**5,369**	**5,374**	**5,379**	**5,385**	**5,390**	**5,396**	**5,401**	**5,406**
Middle Keys								
7	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-
10	0	0	0	0	0	0	0	0
11	1,149	1,150	1,151	1,153	1,154	1,155	1,156	1,157
12a	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-
Subtotal	**1,149**	**1,150**	**1,151**	**1,153**	**1,154**	**1,155**	**1,156**	**1,157**
Upper Keys								
14	-	-	-	-	-	-	-	-
15	0	0	0	0	0	0	0	0
16	1,074	1,075	1,076	1,078	1,079	1,080	1,081	1,082
17	0	0	0	0	0	0	0	0
18	1,916	1,918	1,920	1,922	1,924	1,926	1,928	1,929
19-20	759	759	760	761	762	762	763	764
21	119	119	119	119	120	120	120	120
22	0	0	0	0	0	0	0	0
Subtotal	**3,868**	**3,872**	**3,876**	**3,880**	**3,884**	**3,887**	**3,891**	**3,895**
UNINC. TOTAL	**10,386**	**10,396**	**10,407**	**10,417**	**10,427**	**10,438**	**10,448**	**10,459**
Village of Islamorada	416	416	417	417	417	418	418	419
City of Layton	0	0	0	0	0	0	0	0
City of Key Colony B.	0	0	0	0	0	0	0	0
City of Marathon	2,476	2,478	2,481	2,483	2,486	2,488	2,491	2,493
City of Key West	293	294	294	294	295	295	295	296
COUNTY TOTAL (q)	**13,571**	**13,585**	**13,598**	**13,612**	**13,625**	**13,639**	**13,653**	**13,666**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: TDC 1996 Visitor Profiles:Florida Keys/Key West Technical Appendix: Sampling Methodologies and Estimation Methods

Appendix 9

Peak Population Staying with Friends and/or Relatives by PAED from 1990 to 2015

Peak Number of Persons Staying with Friends and Relatives

1	2	3	4	5	6	7	8	9	10
PAED	1990 Census Tract (a)	1990 Census Block Groups	Peak Number of Persons Staying in Seasonal Dwelling Units During 1990 (ae)	Peak Number of Persons Staying in Hotel and Motel Rooms During 1990 (af)	1990 Peak Number of Persons Staying in RVs or Campsites (ag)	1990 Peak Number of Persons Staying with Friends and Relatives (ah) [(4+5+6)x15.5%]	Peak Number of Persons Staying in Seasonal Dwelling Units During 1991 (ae)	Peak Number of People Staying in Hotel and Motel Rooms During 1991 (af)	1991 Peak Number of Persons Staying in RVs or Campsites (ag)
Lower Keys									
1	9718	N/A	115	0	600	111	116	0	600
2	9717	N/A	383	86	495	149	388	83	495
3	9716	N/A	237	134	1,089	226	241	131	1,089
4a	9715	N/A	1,800	259	276	362	1,860	253	276
4b	9714 pt.	BG 4 (a)	13	0	0	2	14	0	0
5	9714 pt.	BG 1,2,3,4,5 (a)	1,111	134	1,268	390	1,144	131	1,268
6	9714 pt. & 9713 pt.	9714 BG 1 (b)	0	0	1,630	253	0	0	1,630
Subtotal	-	-	**3,659**	**613**	**5,358**	**1,493**	**3,763**	**598**	**5,358**
Middle Keys									
7	9713, 9712, & 9711	N/A	2,091	1,686	1,683	846	2,102	1,644	1,683
8	9710 pt.	BG 3 (c)	533	865	180	245	539	844	180
9	9710 pt.	BG 2 (d)	244	127	608	152	246	124	608
10	9710 pt.	BG 2 (d)	183	110	0	45	186	107	0
11	9710 pt.	BG 1(e)	471	68	1,147	261	471	67	1,147
12a	9709 pt.	BG 5	796	247	6	162	820	241	6
12b	9709 pt.	BG 1,2 (f)	101	721	0	127	108	703	0
13	9709 pt.	BG 1,2,3,4 (f)	590	1,833	235	412	598	1,883	235
Subtotal	-	-	**5,009**	**5,656**	**3,858**	**2,251**	**5,070**	**5,613**	**3,858**
Upper Keys									
14	9708	N/A	2,126	242	174	394	2,189	236	174
15	9707	N/A	1,097	244	0	208	1,140	238	0
16	9706	N/A	2,121	718	1,072	606	2,127	701	1,072
17	9705	N/A	879	1,197	0	322	903	1,168	0
18	9704	N/A	1,317	364	1,912	557	1,331	355	1,912
19-20 (g)	9703	N/A	1,005	66	757	283	1,038	64	757
21	9702.98 pt.	BG 1,2,3 (h)	1,916	347	119	369	1,932	338	119
22	9701 pt. & 9702.98 pt.	BG 1 (h)	0	0	0	0	0	0	0
Subtotal	-	-	**10,460**	**3,179**	**4,034**	**2,739**	**10,661**	**3,101**	**4,034**
TOTAL	-	-	**19,128**	**9,448**	**13,250**	**6,483**	**19,494**	**9,312**	**13,250**
Village of Islamorada	9709	N/A	-	-	-	-	-	-	-
City of Layton	9710	BG 1	76	59	0	21	77	57	0
City of Key Colony B.	9710	BG 3	1,192	98	0	200	1,197	95	0
City of Marathon	9713-9710	N/A	-	-	-	-	-	-	-
City of Key West	9719-9726	N/A	2,139	13,188	293	2,421	2,153	12,864	293
COUNTY TOTAL (q)	-	-	**22,535**	**22,793**	**13,543**	**9,125**	**22,922**	**22,328**	**13,543**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Kearney/Centaur Tourism Study; 1996 Visitor Profiles:Florida Keys/Key West Technical Appendix; Monroe County Planning Department Population Tables

Peak Number of Persons Staying with Friends and Relatives

1	11	12	13	14	15	16	17	18	19	20
PAED	1991 Peak Number of Persons Staying with Friends and Relatives (ah) [[8 + 9 + 10] x 15.5%]	Peak Number of Persons Staying in Seasonal Dwelling Units During 1992 (as)	Peak Number of People Staying in Hotel and Motel Rooms During 1992 (af)	1992 Peak Number of Persons Staying in RVs or Campsites (ag)	1992 Peak Number of Persons Staying with Friends and Relatives (ah) [[12 + 13 + 14] x 15.5%]	Peak Number of Persons Staying in Seasonal Dwelling Units During 1993 (as)	Peak Number of People Staying in Hotel and Motel Rooms During 1993 (af)	1993 Peak Number of Persons Staying in RVs or Campsites (ag)	1993 Peak Number of Persons Staying with Friends and Relatives (ah) [[18 + 17 + 18] x 15.5%]	Peak Number of Persons Staying in Seasonal Dwelling Units During 1994 (as)
Lower Keys										
1	111	116	0	600	111	116	0	600	111	117
2	150	390	80	495	150	391	87	495	151	395
3	226	246	126	1,089	227	253	137	1,089	229	258
4a	370	1,903	244	276	376	1,949	264	276	386	1,990
4b	2	15	0	0	2	16	0	0	3	17
5	394	1,166	126	1,268	397	1,198	137	1,268	404	1,216
6	253	0	0	1,630	253	0	0	1,630	253	0
Subtotal	**1,506**	**3,836**	**577**	**5,358**	**1,514**	**3,923**	**626**	**5,358**	**1,536**	**3,993**
Middle Keys										
7	842	2,116	1,586	1,683	835	2,125	1,722	1,683	857	2,134
8	242	542	814	160	238	547	883	180	250	552
9	152	248	120	608	151	251	130	608	153	252
10	45	189	103	0	45	192	112	0	47	195
11	261	472	64	1,147	261	473	100	1,147	267	473
12a	185	849	232	6	168	860	252	6	173	871
12b	126	108	678	0	122	108	736	0	131	108
13	421	602	1,816	235	411	610	1,971	235	436	611
Subtotal	**2,254**	**5,126**	**5,413**	**3,858**	**2,232**	**5,167**	**5,906**	**3,858**	**2,314**	**5,196**
Upper Keys										
14	403	2,232	228	174	408	2,262	247	174	416	2,287
15	214	1,151	230	0	214	1,188	250	0	223	1,224
16	604	2,133	676	1,072	602	2,139	734	1,072	611	2,150
17	321	926	1,126	0	318	970	1,223	0	340	989
18	558	1,339	343	1,912	557	1,380	664	1,912	613	1,386
19-20 (g)	288	1,059	191	757	311	1,075	207	757	316	1,080
21	370	1,945	326	119	371	1,957	354	119	377	1,961
22	0	0	0	0	0	0	0	0	0	0
Subtotal	**2,758**	**10,786**	**3,119**	**4,034**	**2,781**	**10,970**	**3,678**	**4,034**	**2,896**	**11,077**
TOTAL	**6,519**	**19,748**	**9,110**	**13,250**	**6,527**	**20,060**	**10,210**	**13,250**	**6,746**	**20,265**
Village of Islamorada	-	-	-	-	-	-	-	-	-	-
City of Layton	21	78	55	0	21	78	60	0	21	79
City of Key Colony B.	200	1,212	92	0	202	1,233	100	0	207	1,241
City of Marathon	-	-	-	-	-	-	-	-	-	-
City of Key West	2,373	2,167	12,407	293	2,304	2,181	13,468	293	2,471	2,195
COUNTY TOTAL (q)	**9,113**	**23,205**	**21,663**	**13,543**	**9,054**	**23,553**	**23,838**	**13,543**	**9,445**	**23,781**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Kearney/Centaur Tourism Study; 1996 Visitor Profiles:Florida Keys/Key West Technical Appendix; Monroe County Planning Department Population Tables

Peak Number of Persons Staying with Friends and Relatives

1	21	22	23	24	25	26	27	28	29	30
PAED	Peak Number of People Staying in Hotel and Motel Rooms During 1994 (af)	1994 Peak Number of Persons Staying in RVs or Campsites (ag)	1994 Peak Number of Persons Staying with Friends and Relatives (ah) [(20 + 21 + 22) x 15.5%]	Peak Number of Persons Staying in Seasonal Dwelling Units During 1995 (ae)	Peak Number of People Staying in Hotel and Motel Rooms During 1995 (af)	1995 Peak Number of Persons Staying in RVs or Campsites (ag)	1995 Peak Number of Persons Staying with Friends and Relatives (ah) [(24 + 25 + 26) x 15.5%]	Peak Number of Persons Staying in Seasonal Dwelling Units During 1996 (ae)	Peak Number of People Staying in Hotel and Motel Rooms During 1996 (af)	1996 Peak Number of Persons Staying in RVs or Campsites (ag)
Lower Keys										
1	0	600	111	117	0	600	111	118	0	600
2	83	495	151	397	81	495	151	400	83	495
3	130	1,089	229	262	127	1,089	229	267	130	1,089
4a	250	276	390	2,038	244	276	397	2,083	251	276
4b	0	0	3	17	0	0	3	17	0	0
5	130	1,268	405	1,232	127	1,268	407	1,253	130	1,268
6	0	1,630	253	0	0	1,630	253	0	0	1,630
Subtotal	**592**	**5,358**	**1,541**	**4,063**	**578**	**5,358**	**1,550**	**4,138**	**594**	**5,358**
Middle Keys										
7	1,628	1,683	844	2,145	1,588	1,683	839	2,152	1,633	1,683
8	835	180	243	556	815	180	240	561	838	180
9	123	608	152	254	120	608	152	257	123	608
10	106	0	47	196	104	0	46	196	107	0
11	94	1,147	266	473	92	1,147	265	492	95	1,147
12a	238	6	173	885	232	6	174	895	239	6
12b	696	0	125	110	679	0	122	110	698	0
13	1,863	235	420	613	1,818	235	413	615	1,870	235
Subtotal	**5,583**	**3,858**	**2,269**	**5,233**	**5,447**	**3,858**	**2,253**	**5,277**	**5,602**	**3,858**
Upper Keys										
14	234	174	418	2,310	228	174	420	2,327	234	174
15	236	0	226	1,229	230	0	226	1,239	237	0
16	693	1,072	607	2,158	677	1,072	606	2,164	696	1,072
17	1,156	0	333	1,007	1,128	0	331	1,025	1,160	0
18	627	1,912	608	1,394	612	1,912	607	1,402	630	1,912
19-20 (g)	196	757	315	1,086	191	757	315	1,094	196	757
21	335	119	374	1,969	327	119	374	1,988	336	119
22	0	0	0	0	0	0	0	0	0	0
Subtotal	**3,477**	**4,034**	**2,881**	**11,154**	**3,392**	**4,034**	**2,880**	**11,238**	**3,489**	**4,034**
TOTAL	**9,652**	**13,250**	**6,691**	**20,450**	**9,417**	**13,250**	**6,683**	**20,654**	**9,685**	**13,250**
Village of Islamorada	-	-	-	-	-	-	-	-	-	-
City of Layton	57	0	21	80	55	0	21	81	57	0
City of Key Colony B.	94	0	207	1,259	92	0	209	1,265	95	0
City of Marathon	-	-	-	-	-	-	-	-	-	-
City of Key West	12,731	293	2,359	2,210	12,422	293	2,313	2,224	12,775	293
COUNTY TOTAL (q)	**22,534**	**13,543**	**9,278**	**23,999**	**21,986**	**13,543**	**9,227**	**24,224**	**22,612**	**13,543**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Kearney/Centaur Tourism Study; 1996 Visitor Profiles:Florida Keys/Key West Technical Appendix; Monroe County Planning Department Population Tables

1	31	32	33	34	35	36	37	38	39	40
PAED	1996 Peak Number of Persons Staying with Friends and Relatives (ah) [(28 + 29 + 30) x 15.5%]	Peak Number of Persons Staying in Seasonal Dwelling Units During 1997 (as)	Peak Number of People Staying in Hotel and Motel Rooms During 1997 (af)	1997 Peak Number of Persons Staying in RVs or Campsites (ag)	1997 Peak Number of Persons Staying with Friends and Relatives (ah) [(32 + 33 + 34) x 15.5%]	Peak Number of Persons Staying in Seasonal Dwelling Units During 1998 (as)	Peak Number of People Staying in Hotel and Motel Rooms During 1998 (af)	1998 Peak Number of Persons Staying in RVs or Campsites (ag)	1998 Peak Number of Persons Staying with Friends and Relatives (ah) (36 + 37 + 38) x 15.5%	Peak Number of Persons Staying in Seasonal Dwelling Units During 1999 (as)
Lower Keys										
1	111	118	0	600	111	119	0	600	111	119
2	152	402	83	495	152	404	78	495	151	405
3	230	271	130	1,089	231	274	122	1,089	230	278
4a	405	2,123	251	276	411	2,153	236	276	413	2,172
4b	3	19	0	0	3	19	0	0	3	19
5	411	1,260	130	1,268	412	1,267	122	1,268	412	1,269
6	253	0	0	1,630	253	0	0	1,630	253	0
Subtotal	**1,564**	**4,193**	**594**	**5,358**	**1,572**	**4,236**	**558**	**5,358**	**1,574**	**4,263**
Middle Keys										
7	848	2,161	1,633	1,683	849	2,167	1,535	1,683	835	2,173
8	245	564	838	180	245	567	788	180	238	570
9	153	259	123	608	153	259	116	608	152	260
10	47	198	154	0	54	198	414	0	95	199
11	269	497	95	1,147	270	497	89	1,147	269	497
12a	177	900	239	6	177	-	-	-	-	-
12b	125	111	698	0	125	-	-	-	-	-
13	422	616	1,870	235	422	-	-	-	-	-
Subtotal	**2,284**	**5,306**	**5,650**	**3,858**	**2,296**	**3,690**	**2,941**	**3,617**	**1,588**	**3,699**
Upper Keys										
14	424	2,358	234	174	429	-	-	-	-	-
15	229	1,241	237	0	229	1,244	222	0	227	1,248
16	609	2,167	696	1,072	610	2,172	654	1,072	604	2,175
17	339	1,038	1,160	0	341	1,054	1,090	0	332	1,062
18	811	1,412	630	1,912	613	1,419	592	1,912	608	1,424
19-20 (g)	317	1,099	196	757	318	1,104	185	757	317	1,109
21	379	2,000	336	119	380	2,028	316	119	382	2,056
22	0	0	0	0	0	0	0	0	0	0
Subtotal	**2,908**	**11,315**	**3,489**	**4,034**	**2,920**	**9,020**	**3,059**	**3,860**	**2,471**	**9,074**
TOTAL	**6,756**	**20,813**	**9,733**	**13,250**	**6,788**	**16,946**	**6,559**	**12,835**	**5,633**	**17,036**
Village of Islamorada	-	-	-	-	-	3,998	2,859	415	1,127	4,025
City of Layton	21	82	57	0	22	83	53	0	21	84
City of Key Colony B.	211	1,276	95	0	212	1,294	89	0	214	1,312
City of Marathon	-	-	-	-	-	-	-	-	-	-
City of Key West	2,370	2,238	12,775	293	2,372	2,252	12,009	293	2,256	2,266
COUNTY TOTAL (q)	**9,359**	**24,409**	**22,659**	**13,543**	**9,395**	**24,572**	**21,570**	**13,543**	**9,251**	**24,723**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Kearney/Centaur Tourism Study; 1996 Visitor Profiles:Florida Keys/Key West Technical Appendix; Monroe County Planning Department Population Tables

Peak Number of Persons Staying with Friends and Relatives

1	41	42	43	44	45	46	47	48	49	50
PAED	Peak Number of People Staying in Hotel and Motel Rooms During 1999 (af)	1999 Peak Number of Persons Staying in RVs or Campsites (ag)	1999 Peak Number of Persons Staying with Friends and Relatives (ah) (40 + 41 + 42) x 15.5%	Peak Number of Persons Staying in Seasonal Dwelling Units During 2000 (ae)	Peak Number of People Staying in Hotel and Motel Rooms During 2000 (af)	2000 Peak Number of Persons Staying in RVs or Campsites (ag)	2000 Peak Number of Persons Staying with Friends and Relatives (ah) (44 + 45 + 46) x 15.5%	Peak Number of Persons Staying in Seasonal Dwelling Units During 2001 (ae)	Peak Number of People Staying in Hotel and Motel Rooms During 2001 (af)	2001 Peak Number of Persons Staying in RVs or Campsites (ag)
Lower Keys										
1	0	600	111	120	0	600	111	120	0	600
2	78	495	152	407	82	495	152	408	82	495
3	123	1,089	231	281	129	1,089	232	284	129	1,089
4a	238	276	416	2,198	249	276	422	2,225	249	276
4b	0	0	3	20	0	0	3	20	0	0
5	123	1,268	412	1,282	129	1,268	415	1,294	129	1,268
6	0	1,630	253	0	0	1,630	253	0	0	1,630
Subtotal	**563**	**5,358**	**1,578**	**4,307**	**589**	**5,358**	**1,589**	**4,351**	**589**	**5,358**
Middle Keys										
7	1,730	1,683	866	-	-	-	-	-	-	-
8	793	180	239	-	-	-	-	-	-	-
9	117	608	153	-	-	-	-	-	-	-
10	444	0	100	201	521	0	112	203	578	0
11	90	1,147	269	501	94	1,147	270	504	94	1,147
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	**3,174**	**3,617**	**1,626**	**702**	**615**	**1,147**	**382**	**708**	**672**	**1,147**
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	224	0	228	1,257	235	0	231	1,266	235	0
16	659	1,072	605	2,177	690	1,072	611	2,180	690	1,072
17	1,098	0	335	1,071	1,151	0	344	1,080	1,151	0
18	596	1,912	610	1,429	625	1,912	615	1,434	625	1,912
19-20 (g)	186	757	318	1,114	195	757	320	1,119	195	757
21	318	119	386	2,063	333	119	390	2,071	333	119
22	0	0	0	0	0	0	0	0	0	0
Subtotal	**3,082**	**3,860**	**2,483**	**9,112**	**3,229**	**3,860**	**2,511**	**9,150**	**3,229**	**3,860**
TOTAL	**6,818**	**12,835**	**5,687**	**14,121**	**4,433**	**10,365**	**4,482**	**14,208**	**4,490**	**10,365**
Village of Islamorada	2,880	415	1,135	4,041	3,017	415	1,158	4,057	3,017	415
City of Layton	54	0	21	85	56	0	22	86	56	0
City of Key Colony B.	90	0	217	1,327	94	0	220	1,341	94	0
City of Marathon	-	-	-	3,008	2,766	2,471	1,278	3,018	2,766	2,471
City of Key West	12,097	293	2,272	2,280	12,673	293	2,363	2,293	12,673	293
COUNTY TOTAL (q)	**21,939**	**13,543**	**9,332**	**24,860**	**23,040**	**13,544**	**9,524**	**25,003**	**23,096**	**13,544**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Kearney/Centaur Tourism Study; 1996 Visitor Profiles:Florida Keys/Key West Technical Appendix; Monroe County Planning Department Population Tables

1	51	52	53	54	55	56	57	58	59
PAED	2001 Peak Number of Persons Staying with Friends and Relatives (ah) (48 + 49 + 50) x 15.5%	Peak Number of Persons Staying in Seasonal Dwelling Units During 2002 (as)	Peak Number of People Staying in Hotel and Motel Rooms During 2002 (af)	2002 Peak Number of Persons Staying in RVs or Campsites (ag)	2002 Peak Number of Persons Staying with Friends and Relatives (ah) (52 + 53 + 54) x 15.5%	Peak Number of Persons Staying in Seasonal Dwelling Units During 2003 (as)	Peak Number of People Staying in Hotel and Motel Rooms During 2003 (af)	2003 Peak Number of Persons Staying in RVs or Campsites (ag)	2003 Peak Number of Persons Staying with Friends and Relatives (ah) (56 + 55 + 56) x 15.5%
Lower Keys									
1	112	120	0	600	112	120	0	600	112
2	153	410	82	495	153	411	82	495	153
3	233	287	129	1,089	233	290	129	1,089	234
4a	426	2,251	249	276	430	2,278	249	276	434
4b	3	21	0	0	3	22	0	0	3
5	417	1,306	129	1,268	419	1,318	129	1,268	421
6	253	0	0	1,630	253	0	0	1,630	253
Subtotal	**1,596**	**4,395**	**589**	**5,358**	**1,603**	**4,438**	**589**	**5,358**	**1,610**
Middle Keys									
7	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-
10	121	206	634	0	130	208	634	0	130
11	270	508	94	1,147	271	511	94	1,147	272
12a	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-
Subtotal	**392**	**713**	**728**	**1,147**	**401**	**719**	**728**	**1,147**	**402**
Upper Keys									
14	-	-	-	-	-	-	-	-	-
15	233	1,276	235	0	234	1,285	235	0	236
16	611	2,182	690	1,072	611	2,185	742	1,072	620
17	346	1,089	1,151	0	347	1,098	1,151	0	348
18	615	1,439	625	1,912	616	1,444	625	1,912	617
19-20 (g)	321	1,124	195	757	322	1,129	195	757	323
21	391	2,078	333	119	392	2,085	333	119	393
22	0	0	0	0	0	0	0	0	0
Subtotal	**2,517**	**9,188**	**3,229**	**3,860**	**2,523**	**9,225**	**3,280**	**3,860**	**2,537**
TOTAL	**4,505**	**14,295**	**4,546**	**10,365**	**4,527**	**14,383**	**4,598**	**10,365**	**4,549**
Village of Islamorada	1,161	4,073	3,017	415	1,163	4,088	3,017	415	1,166
City of Layton	22	87	56	0	22	88	56	0	22
City of Key Colony B.	222	1,355	94	0	225	1,370	94	0	227
City of Marathon	1,280	3,029	2,766	2,471	1,281	3,039	2,766	2,471	1,283
City of Key West	2,365	2,307	12,673	293	2,367	2,316	12,673	293	2,369
COUNTY TOTAL (q)	**9,555**	**25,146**	**23,153**	**13,544**	**9,586**	**25,284**	**23,204**	**13,544**	**9,615**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Kearney/Centaur Tourism Study; 1996 Visitor Profiles:Florida Keys/Key West Technical Appendix; Monroe County Planning Department Population Tables

Peak Number of Persons Staying with Friends and Relatives

1	60	61	62	63	64	65	66	67	68	69
PAED	Peak Number of Persons Staying in Seasonal Dwelling Units During 2004 (ae)	Peak Number of People Staying in Hotel and Motel Rooms During 2004 (af)	2004 Peak Number of Persons Staying in RVs or Campsites (ag)	2004 Peak Number of Persons Staying with Friends and Relatives (ah) (60 + 61 + 62) x 15.5%	Peak Number of Persons Staying in Seasonal Dwelling Units During 2005 (o) (ae)	Peak Number of People Staying in Hotel and Motel Rooms During 2005 (af)	2005 Peak Number of Persons Staying in RVs or Campsites (ag)	2005 Peak Number of Persons Staying with Friends and Relatives (ah) (64 + 65 + 66) x 15.5%	Peak Number of Persons Staying in Seasonal Dwelling Units During 2006 (o) (ae)	Peak Number of People Staying in Hotel and Motel Rooms During 2006 (af)
Lower Keys										
1	121	0	600	112	121	0	600	112	121	0
2	414	82	495	154	415	82	495	154	417	82
3	294	129	1,089	234	298	129	1,089	235	302	129
4a	2,319	249	276	441	2,359	249	276	447	2,398	249
4b	22	0	0	3	23	0	0	4	24	0
5	1,335	129	1,268	424	1,352	129	1,268	426	1,367	129
6	0	0	1,630	253	0	0	1,630	253	0	0
Subtotal	**4,506**	**589**	**5,358**	**1,620**	**4,570**	**589**	**5,358**	**1,630**	**4,630**	**589**
Middle Keys										
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
10	210	634	0	131	212	634	0	131	213	634
11	514	94	1,147	272	517	94	1,147	272	519	94
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	**724**	**3,494**	**1,147**	**403**	**729**	**3,494**	**1,147**	**404**	**733**	**3,494**
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	1,301	235	0	238	1,316	235	0	240	1,330	235
16	2,190	742	1,072	621	2,192	742	1,072	621	2,193	742
17	1,117	1,151	0	351	1,135	1,151	0	354	1,152	1,151
18	1,454	625	1,912	619	1,463	625	1,912	620	1,470	625
19-20 (g)	1,139	195	757	324	1,149	195	757	326	1,157	195
21	2,099	333	119	395	2,110	333	119	397	2,120	333
22	0	0	0	0	0	0	0	0	0	0
Subtotal	**9,299**	**3,280**	**3,860**	**2,548**	**9,365**	**3,280**	**3,860**	**2,558**	**9,422**	**3,280**
TOTAL	**14,529**	**7,364**	**10,365**	**4,571**	**14,663**	**7,364**	**10,365**	**4,592**	**14,784**	**7,364**
Village of Islamorada	4,106	3,017	415	1,168	4,120	3,017	415	1,170	4,129	3,017
City of Layton	89	56	0	23	90	56	0	23	91	56
City of Key Colony B.	1,384	94	0	229	1,398	94	0	231	1,410	94
City of Marathon	3,048	2,766	2,471	1,284	3,053	2,766	2,471	1,285	3,056	2,766
City of Key West	2,325	11,914	293	2,252	2,334	11,914	293	2,254	2,339	11,914
COUNTY TOTAL (q)	**25,481**	**25,211**	**13,544**	**9,528**	**25,658**	**25,211**	**13,544**	**9,555**	**25,809**	**25,211**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Kearney/Centaur Tourism Study; 1996 Visitor Profiles:Florida Keys/Key West Technical Appendix; Monroe County Planning Department Population Tables

Peak Number of Persons Staying with Friends and Relatives

1	70	71	72	73	74	75	76	77	78	79
PAED	2006 Peak Number of Persons Staying in RVs or Campsites (ag)	2006 Peak Number of Persons Staying with Friends and Relatives (ah) (68 + 69 + 70) x 15.5%	Peak Number of Persons Staying in Seasonal Dwelling Units During 2007 (o) (ae)	Peak Number of People Staying in Hotel and Motel Rooms During 2007 (af)	2007 Peak Number of Persons Staying in RVs or Campsites (ag)	2007 Peak Number of Persons Staying with Friends and Relatives (ah) (71 + 72 + 73) x 15.5%	Peak Number of Persons Staying in Seasonal Dwelling Units During 2008 (o) (ae)	Peak Number of People Staying in Hotel and Motel Rooms During 2008 (af)	2008 Peak Number of Persons Staying in RVs or Campsites (ag)	2008 Peak Number of Persons Staying with Friends and Relatives (ah) (76 + 77 + 78) x 15.5%
Lower Keys										
1	600	112	121	0	600	112	121	0	601	112
2	495	154	418	82	495	154	419	82	496	154
3	1,089	236	306	129	1,090	236	310	129	1,091	237
4a	276	453	2,434	249	277	459	2,469	249	277	464
4b	0	4	25	0	0	4	26	0	0	4
5	1,268	429	1,381	129	1,270	431	1,394	129	1,271	433
6	1,630	253	0	0	1,632	253	0	0	1,634	253
Subtotal	**5,358**	**1,639**	**4,686**	**590**	**5,363**	**1,649**	**4,739**	**591**	**5,369**	**1,658**
Middle Keys										
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
10	0	131	215	635	0	132	216	635	0	132
11	1,147	273	521	94	1,148	273	522	94	1,149	274
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	**1,147**	**404**	**736**	**729**	**1,148**	**405**	**738**	**729**	**1,149**	**406**
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	0	242	1,342	235	0	244	1,353	235	0	246
16	1,072	621	2,191	743	1,073	621	2,188	743	1,074	621
17	0	357	1,169	1,152	0	360	1,184	1,153	0	362
18	1,912	621	1,476	625	1,914	622	1,481	626	1,916	624
19-20 (g)	757	327	1,164	195	758	328	1,169	195	759	329
21	119	399	2,127	334	119	400	2,133	334	119	401
22	0	0	0	0	0	0	0	0	0	0
Subtotal	**3,860**	**2,567**	**9,469**	**3,284**	**3,864**	**2,576**	**9,508**	**3,287**	**3,868**	**2,583**
TOTAL	**10,365**	**4,611**	**14,891**	**4,602**	**10,375**	**4,630**	**14,985**	**4,607**	**10,386**	**4,647**
Village of Islamorada	415	1,172	4,134	3,020	415	1,173	4,136	3,023	416	1,174
City of Layton	0	23	92	56	0	23	93	56	0	23
City of Key Colony B.	0	233	1,421	94	0	235	1,431	94	0	236
City of Marathon	2,471	1,285	3,055	2,769	2,473	1,286	3,051	2,772	2,476	1,286
City of Key West	293	2,255	2,345	11,926	293	2,257	2,350	11,938	293	2,260
COUNTY TOTAL (q)	**13,544**	**9,579**	**25,938**	**22,467**	**13,558**	**9,604**	**26,045**	**22,490**	**13,571**	**9,626**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Kearney/Centaur Tourism Study; 1996 Visitor Profiles:Florida Keys/Key West Technical Appendix; Monroe County Planning Department Population Tables

Peak Number of Persons Staying with Friends and Relatives

1	80	81	82	83	84	85	86	87	88	89
PAED	Peak Number of Persons Staying In Seasonal Dwelling Units During 2009 (o) (ae)	Peak Number of People Staying In Hotel and Motel Rooms During 2009 (af)	2009 Peak Number of Persons Staying In RVs or Campsites (ag)	2009 Peak Number of Persons Staying with Friends and Relatives (ah) (80 + 81 + 82) x 15.5%	Peak Number of Persons Staying In Seasonal Dwelling Units During 2010 (o) (ae)	Peak Number of People Staying In Hotel and Motel Rooms During 2010 (af)	2010 Peak Number of Persons Staying In RVs or Campsites (ag)	2010 Peak Number of Persons Staying with Friends and Relatives (ah) (84 + 85 + 86) x 15.5%	Peak Number of Persons Staying In Seasonal Dwelling Units During 2011 (o) (ae)	Peak Number of People Staying In Hotel and Motel Rooms During 2011 (af)
Lower Keys										
1	121	0	601	112	121	0	602	112	120	0
2	419	82	496	155	419	83	497	155	418	83
3	313	130	1,092	238	316	130	1,093	239	319	130
4a	2,502	250	277	469	2,533	250	277	474	2,561	250
4b	27	0	0	4	28	0	0	4	29	0
5	1,406	130	1,272	435	1,416	130	1,273	437	1,425	130
6	0	0	1,635	253	0	0	1,637	254	0	0
Subtotal	**4,788**	**591**	**5,374**	**1,667**	**4,832**	**592**	**5,379**	**1,675**	**4,872**	**592**
Middle Keys										
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
10	217	636	0	132	218	637	0	132	219	637
11	523	94	1,150	274	523	94	1,151	274	523	94
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	**740**	**730**	**1,150**	**406**	**741**	**731**	**1,151**	**407**	**741**	**732**
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	1,363	236	0	246	1,372	236	0	249	1,379	236
16	2,182	744	1,075	620	2,174	745	1,076	619	2,163	746
17	1,199	1,154	0	365	1,212	1,155	0	367	1,225	1,158
18	1,484	626	1,918	624	1,486	627	1,920	625	1,486	828
19-20 (g)	1,174	195	759	330	1,178	196	760	331	1,180	196
21	2,136	334	119	401	2,137	335	119	402	2,136	335
22	0	0	0	0	0	0	0	0	0	0
Subtotal	**9,538**	**3,290**	**3,872**	**2,588**	**9,558**	**3,293**	**3,876**	**2,593**	**9,569**	**3,297**
TOTAL	**15,065**	**4,611**	**10,396**	**4,661**	**15,131**	**4,616**	**10,407**	**4,674**	**15,183**	**4,621**
Village of Islamorada	4,133	3,026	416	1,174	4,126	3,029	417	1,174	4,115	3,032
City of Layton	93	57	0	23	94	57	0	23	94	57
City of Key Colony B.	1,439	94	0	238	1,446	94	0	239	1,451	94
City of Marathon	3,044	2,774	2,478	1,286	3,035	2,777	2,481	1,285	3,022	2,780
City of Key West	2,355	11,950	294	2,263	2,361	11,962	294	2,266	2,366	11,974
COUNTY TOTAL (q)	**26,130**	**22,512**	**13,585**	**9,645**	**26,192**	**22,535**	**13,598**	**9,660**	**26,231**	**22,557**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Kearney/Centaur Tourism Study; 1996 Visitor Profiles:Florida Keys/Key West Technical Appendix; Monroe County Planning Department Population Tables

1	90	91	92	93	94	95	96	97	98	99
PAED	2011 Peak Number of Persons Staying in RVs or Campsites (ag)	2011 Peak Number of Persons Staying with Friends and Relatives (ah) (88 + 89 + 90) x 15.5%	Peak Number of Persons Staying in Seasonal Dwelling Units During 2012 (o) (ae)	Peak Number of People Staying in Hotel and Motel Rooms During 2012 (af)	2012 Peak Number of Persons Staying in RVs or Campsites (ag)	2012 Peak Number of Persons Staying with Friends and Relatives (ah) (92 + 93 + 94) x 15.5%	Peak Number of Persons Staying in Seasonal Dwelling Units During 2013 (o) (ae)	Peak Number of People Staying in Hotel and Motel Rooms During 2013 (af)	2013 Peak Number of Persons Staying in RVs or Campsites (ag)	2013 Peak Number of Persons Staying with Friends and Relatives (ah) (96 + 97 + 98) x 15.5%
Lower Keys										
1	603	112	120	0	603	112	119	0	604	112
2	497	155	417	83	498	155	415	83	498	154
3	1,094	239	321	130	1,095	240	323	130	1,096	240
4a	278	479	2,588	250	278	483	2,612	251	278	487
4b	0	5	30	0	0	5	31	0	0	5
5	1,275	439	1,432	130	1,276	440	1,438	130	1,277	441
6	1,639	254	0	0	1,640	254	0	0	1,642	254
Subtotal	**5,385**	**1,682**	**4,908**	**593**	**5,390**	**1,688**	**4,939**	**594**	**5,396**	**1,694**
Middle Keys										
7	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-
10	0	133	219	638	0	133	219	638	0	133
11	1,153	274	522	94	1,154	274	520	95	1,155	274
12a	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
Subtotal	**1,153**	**407**	**741**	**732**	**1,154**	**407**	**739**	**733**	**1,155**	**407**
Upper Keys										
14	-	-	-	-	-	-	-	-	-	-
15	0	250	1,385	236	0	251	1,390	236	0	252
16	1,078	618	2,151	746	1,079	616	2,137	747	1,080	614
17	0	369	1,236	1,157	0	371	1,247	1,159	0	373
18	1,922	628	1,485	628	1,924	626	1,482	629	1,926	628
19-20 (g)	761	331	1,181	196	762	332	1,181	196	762	332
21	119	402	2,133	335	120	401	2,128	336	120	400
22	0	0	0	0	0	0	0	0	0	0
Subtotal	**3,880**	**2,596**	**9,571**	**3,300**	**3,884**	**2,597**	**9,564**	**3,303**	**3,887**	**2,597**
TOTAL	**10,417**	**4,684**	**15,220**	**4,625**	**10,427**	**4,692**	**15,242**	**4,630**	**10,438**	**4,698**
Village of Islamorada	417	1,172	4,099	3,035	417	1,171	4,080	3,038	418	1,168
City of Layton	0	23	94	57	0	23	95	57	0	23
City of Key Colony B.	0	240	1,455	94	0	240	1,458	95	0	241
City of Marathon	2,483	1,284	3,006	2,783	2,486	1,283	2,987	2,785	2,488	1,280
City of Key West	294	2,268	2,372	11,986	295	2,271	2,377	11,998	295	2,274
COUNTY TOTAL (q)	**13,612**	**9,672**	**26,246**	**22,580**	**13,625**	**9,680**	**26,239**	**22,602**	**13,639**	**9,684**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Kearney/Centaur Tourism Study; 1996 Visitor Profiles:Florida Keys/Key West Technical Appendix; Monroe County Planning Department Population Tables

Peak Number of Persons Staying with Friends and Relatives

1	100	101	102	103	104	105	106	107
PAED	Peak Number of Persons Staying in Seasonal Dwelling Units During 2014 (o) (aa)	Peak Number of People Staying in Hotel and Motel Rooms During 2014 (at)	2014 Peak Number of Persons Staying in RVs or Campsites (ag)	2014 Peak Number of Persons Staying with Friends and Relatives (ah) (96 + 97 + 98) x 15.5%	Peak Number of Persons Staying in Seasonal Dwelling Units During 2015 (o) (aa)	Peak Number of People Staying in Hotel and Motel Rooms During 2015 (at)	2015 Peak Number of Persons Staying in RVs or Campsites (ag)	2015 Peak Number of Persons Staying with Friends and Relatives (ah) (104 + 105 + 106) x 15.5%
Lower Keys								
1	118	0	604	112	117	0	605	112
2	414	83	499	154	411	83	499	154
3	325	130	1,097	241	327	130	1,099	241
4a	2,633	251	279	490	2,652	251	279	493
4b	32	0	0	5	33	0	0	5
5	1,443	130	1,279	442	1,446	130	1,280	443
6	0	0	1,643	255	0	0	1,645	255
Subtotal	4,966	594	5,401	1,699	4,987	595	5,406	1,703
Middle Keys								
7	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-
10	219	639	0	133	219	640	0	133
11	518	95	1,156	274	516	95	1,157	274
12a	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-
Subtotal	738	734	1,156	407	735	734	1,157	407
Upper Keys								
14	-	-	-	-	-	-	-	-
15	1,393	237	0	253	1,395	237	0	253
16	2,120	748	1,081	612	2,102	749	1,082	609
17	1,256	1,160	0	374	1,264	1,161	0	376
18	1,478	630	1,928	625	1,472	630	1,929	625
19-20 (g)	1,180	196	763	332	1,178	197	764	331
21	2,120	336	120	399	2,111	336	120	398
22	0	0	0	0	0	0	0	0
Subtotal	9,547	3,307	3,891	2,595	9,521	3,310	3,895	2,592
TOTAL	**15,250**	**4,634**	**10,448**	**4,702**	**15,243**	**4,639**	**10,459**	**4,703**
Village of Islamorada	4,057	3,041	418	1,165	4,030	3,044	419	1,161
City of Layton	95	57	0	24	95	57	0	24
City of Key Colony B.	1,459	95	0	241	1,459	95	0	241
City of Marathon	2,966	2,788	2,491	1,278	2,941	2,791	2,493	1,275
City of Key West	2,382	12,010	295	2,277	2,388	12,022	296	2,279
COUNTY TOTAL (q)	**26,208**	**22,625**	**13,653**	**9,685**	**26,155**	**22,648**	**13,666**	**9,683**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: 1990 Kearney/Centaur Tourism Study; 1996 Visitor Profiles:Florida Keys/Key West Technical Appendix; Monroe County Planning Department Population Tables

Appendix 10

Peak Population Staying on Live Aboard Vessels by PAED from 1990 to 2015

Peak Number of People on Liveaboard Vessels

1	2	3	4	5	6	7	8	9	10	11	12
PAEO	1990 Census Tract (a)	1990 Census Block Groups	Percentage of the Total Number of Liveaboard Vessels in Monroe County [al]	Average # of Persons Per Liveaboard Vessel [aj]	Peak Number of Liveaboard Vessels in 1990 [al]	1990 Peak Number of People on Liveaboard Vessels [5 x 6]	Peak Number of Liveaboard Vessels in 1991 [6 + (6 x 0.10%)]	1991 Peak Number of People on Liveaboard Vessels (4 x 7)	Peak Number of Liveaboard Vessels in 1992 [8 + (8 x 0.10%)]	1992 Peak Number of People on Liveaboard Vessels [4 x 10]	Peak Number of Liveaboard Vessels in 1993 [10 + (10 x 0.10%)]
Lower Keys											
1	9718 & 9719 pt.	N/A	17.91%	1.8	249	448	249	448	249	448	249
2	9717	N/A	5.80%	1.8	80	145	81	145	81	145	81
3	9716	N/A	0.00%	1.8	0	0	0	0	0	0	0
4a	9715	N/A	1.29%	1.8	18	32	18	32	18	32	18
4b	9714 pt.	BG 4 (a)	0.00%	1.8	0	0	0	0	0	0	0
5	9714 pt.	BG 1,2,3,4,5 (a)	7.73%	1.8	107	193	107	193	108	194	108
6	9714 pt. & 9713 pt.	9714 BG 1 (b)	0.00%	1.8	0	0	0	0	0	0	0
Subtotal	-	-	**32.73%**	**1.8**	**454**	818	**455**	**819**	**455**	**819**	**456**
Middle Keys											
7	9713, 9712, & 9711	N/A	17.01%	1.8	236	425	236	425	237	426	237
8	9710 pt.	BG 3 (c)	9.15%	1.8	127	229	127	229	127	229	127
9	9710 pt.	BG 2 (d)	0.00%	1.8	0	0	0	0	0	0	0
10	9710 pt.	BG 2 (d)	0.00%	1.8	0	0	0	0	0	0	0
11	9710 pt.	BG 1(e)	0.00%	1.8	0	0	0	0	0	0	0
12a	9709 pt.	BG 5	0.00%	1.8	0	0	0	0	0	0	0
12b	9709 pt.	BG 1,2 (f)	0.00%	1.8	0	0	0	0	0	0	0
13	9709 pt.	BG 1,2,3,4 (f)	0.52%	1.8	7	13	7	13	7	13	7
Subtotal	-	-	**26.68%**	**1.8**	**370**	**666**	**371**	**667**	**371**	**668**	**371**
Upper Keys											
14	9708	N/A	0.00%	1.8	0	0	0	0	0	0	0
15	9707	N/A	1.42%	1.8	20	35	20	35	20	35	20
16	9706	N/A	0.13%	1.8	2	3	2	3	2	3	2
17	9705	N/A	4.64%	1.8	64	116	64	116	65	116	65
18	9704	N/A	0.00%	1.8	0	0	0	0	0	0	0
19-20 (g)	9703	N/A	0.52%	1.8	7	13	7	13	7	13	7
21	9702.98 pt.	BG 1,2,3 (h)	7.73%	1.8	107	193	107	193	108	194	108
22	9701 pt. & 9702.98 pt.	BG 1 (h)	4.12%	1.8	57	103	57	103	57	103	57
Subtotal	-	-	**18.56%**	**1.8**	**258**	**464**	**258**	**464**	**258**	**465**	**258**
UNINC. TOTALS	-	-	**77.96%**	**1.8**	**1,082**	**1,948**	**1,083**	**1,950**	**1,084**	**1,952**	**1,085**
Village of Islamorada	9709	N/A	-	-	-	-	-	-	-	-	-
City of Layton	9710	BG 1	0.00%	1.8	0	0	0	0	0	0	0
City of Key Colony B.	9710	BG 3	0.00%	1.8	0	0	0	0	0	0	0
City of Marathon	9710-9713	N/A	-	-	-	-	-	-	-	-	-
City of Key West	9719-9726	N/A	22.04%	1.8	306	551	306	551	306	552	307
COUNTY TOTAL (q)	-	-	**100.00%**	**1.8**	**1,388**	**2,498**	**1,389**	**2,501**	**1,391**	**2,503**	**1,392**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: Monroe County Planning Department; Antonini et. al. "Boat Live-Aboards in the Florida Keys: A New Factor in Waterfront Development"

Peak Number of People on Liveaboard Vessels

1	13	14	15	16	17	18	19	20	21	22	23	24	25
PAEO	1993 Peak Number of People on Liveaboard Vessels (4 a 12)	Peak Number of Liveaboard Vessels in 1994 (12 + (12 a 0.10%))	1994 Peak Number of People on Liveaboard Vessels (4 a 14)	Peak Number of Liveaboard Vessels in 1995 (14 + (14 x 0.10%))	1995 Peak Number of People on Liveaboard Vessels (4 a 16)	Peak Number of Liveaboard Vessels in 1996 (16 + (16 a 0.10%))	1996 Peak Number of People on Liveaboard Vessels (4 s 18)	Peak Number of Liveaboard Vessels in 1997 (18 + (18 x 0.10%))	1997 Peak Number of People on Liveaboard Vessels (4 x 20)	Peak Number of Liveaboard Vessels in 1998 (20 + (20 x 0.10%))	1998 Peak Number of People on Liveaboard Vessels (4 a 22)	Peak Number of Liveaboard Vessels in 1999 (22 + (22 x 0.10%))	1999 Peak Number of People on Liveaboard Vessels (4 x 24)
Lower Keys													
1	449	250	449	250	450	250	450	250	451	251	451	251	452
2	145	81	145	81	146	81	146	81	146	81	146	81	146
3	0	0	0	0	0	0	0	0	0	0	0	0	0
4a	32	18	32	18	32	18	32	18	32	18	32	18	32
4b	0	0	0	0	0	0	0	0	0	0	0	0	0
5	194	108	194	108	194	108	194	108	195	108	195	108	195
6	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	**820**	**456**	**821**	**457**	**822**	**457**	**823**	**458**	**824**	**458**	**824**	**458**	**825**
Middle Keys													
7	426	237	427	237	427	238	428	238	428	238	428	238	429
8	229	128	230	128	230	128	230	128	230	128	230	128	231
9	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0
12a	0	0	0	0	0	0	0	0	0	-	-	-	-
12b	0	0	0	0	0	0	0	0	0	-	-	-	-
13	13	7	13	7	13	7	13	7	13	-	-	-	-
Subtotal	**668**	**372**	**669**	**372**	**670**	**372**	**670**	**373**	**671**	**366**	**659**	**366**	**659**
Upper Keys													
14	0	0	0	0	0	0	0	0	0	-	-	-	-
15	36	20	36	20	36	20	36	20	36	20	36	20	36
16	3	2	3	2	3	2	3	2	3	2	3	2	3
17	116	65	116	65	116	65	117	65	117	65	117	65	117
18	0	0	0	0	0	0	0	0	0	0	0	0	0
19-20 (g)	13	7	13	7	13	7	13	7	13	7	13	7	13
21	194	108	194	108	194	108	194	108	195	108	195	108	195
22	103	57	103	58	104	58	104	58	104	58	104	58	104
Subtotal	**465**	**259**	**465**	**259**	**466**	**259**	**466**	**259**	**467**	**260**	**467**	**260**	**468**
UNINC. TOTALS	**1,954**	**1,086**	**1,956**	**1,088**	**1,958**	**1,089**	**1,960**	**1,090**	**1,962**	**1,084**	**1,951**	**1,085**	**1,952**
Village of Islamorada	-	-	-	-	-	-	-	-	-	7	13	7	13
City of Layton	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Key Colony B.	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Marathon	-	-	-	-	-	-	-	-	-	-	-	-	-
City of Key West	552	307	553	307	553	308	554	308	554	308	555	309	556
COUNTY TOTAL (q)	**2,506**	**1,394**	**2,508**	**1,395**	**2,511**	**1,396**	**2,513**	**1,398**	**2,516**	**1,399**	**2,518**	**1,400**	**2,521**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: Monroe County Planning Department; Antonini et. al. "Boat Live-Aboards in the Florida Keys: A New Factor in Waterfront Development"

Peak Number of People on Liveaboard Vessels

1	26	27	28	29	30	31	32	33	34	35	36	37
PAEO	Peak Number of Livsaboard Veesele in 2000 [24 + (24 x 0.10%)]	2000 Peak Number of People on Livesboard Vesssis (4 s 26)	Peak Number of Livexboard Vessels in 2001 [26 + (26 x 0.10%)]	2001 Peak Number of People on Liveaboard Vessels (4 s 28)	Peak Number of Liveeboard Vsssele in 2002 [28 + (28 s 0.10%)]	2002 Peak Number of People on Livesboard Vessele (4 s 30)	Peak Number of Livesbosrd Veeeele in 2003 [30 + (30 x 0.10%)]	2003 Peak Number of People on Livesboerd Veesele (4 s 32)	Peak Number of Livesboard Veesele in 2004 [32 + (32 x 0.10%)]	2004 Peak Number of Psople on Livseboerd Vsssels (4 x 34)	Peak Number of Livesboard Vssssis in 2005 [34 + (34 x 0.10%)]	2005 Pask Number of People on Liveaboard Veseele (4 x 36)
Lower Keys												
1	251	452	251	452	252	453	252	453	252	454	252	454
2	81	146	81	146	81	147	82	147	82	147	82	147
3	0	0	0	0	0	0	0	0	0	0	0	0
4a	18	33	18	33	18	33	18	33	18	33	18	33
4b	0	0	0	0	0	0	0	0	0	0	0	0
5	108	195	109	195	109	196	109	196	109	196	109	196
6	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	**459**	**826**	**459**	**827**	**460**	**826**	**460**	**828**	**461**	**829**	**461**	**830**
Middle Keys												
7	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
1 t	0	0	0	0	0	0	0	0	0	0	0	0
12a	-	-	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Upper Keys												
14	-	-	-	-	-	-	-	-	-	-	-	-
15	20	36	20	36	20	36	20	36	20	36	20	36
16	2	3	2	3	2	3	2	3	2	3	2	3
17	65	117	65	117	65	117	65	117	65	118	65	118
18	0	0	0	0	0	0	0	0	0	0	0	0
19-20 (g)	7	13	7	13	7	13	7	13	7	13	7	13
21	108	195	109	195	109	196	109	196	109	196	109	196
22	58	104	58	104	58	t04	58	104	58	104	58	105
Subtotal	**260**	**468**	**260**	**469**	**261**	**469**	**261**	**470**	**261**	**470**	**261**	**471**
UNINC. TOTALS	**719**	**1,294**	**720**	**1,296**	**720**	**1,297**	**721**	**1,298**	**722**	**1,299**	**723**	**1,301**
Village of Islamorada	7	13	7	13	7	13	7	13	7	13	7	13
City of Layton	0	0	0	0	0	0	0	0	0	0	0	0
City of Key Colony B.	0	0	0	0	0	0	0	0	0	0	0	0
City of Marathon	366	659	367	660	367	661	367	661	368	662	368	663
City of Key West	309	556	309	557	310	557	310	558	310	558	310	559
COUNTY TOTAL (q)	**1,401**	**2,522**	**1,403**	**2,525**	**1,404**	**2,527**	**1,406**	**2,530**	**1,407**	**2,533**	**1,408**	**2,535**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: Monroe County Planning Department; Antonini et. al. "Boat Live-Aboards in the Florida Keys: A New Factor in Waterfront Development"

1	38	39	40	41	42	43	44	45	46	47	48	49
PAEO	Peak Number of Liveaboard Vessels in 2006 [36 + (36 x 0.10%)]	2006 Peak Number of People on Liveaboard Vessels (4 x 38)	Peak Number of Liveaboard Vessels in 2007 [38 + (38 x 0.10%)]	2007 Peak Number of People on Liveaboard Vessels (4 x 40)	Peak Number of Liveaboard Vessels in 2008 [40 + (40 x 0.10%)]	2008 Peak Number of People on Liveaboard Vessels (4 x 42)	Peak Number of Liveaboard Vessels in 2009 [42 + (42 x 0.10%)]	2009 Peak Number of People on Liveaboard Vessels (4 x 44)	Peak Number of Liveaboard Vessels in 2010 [44 + (44 x 0.10%)]	2010 Peak Number of People on Liveaboard Vessels (4 x 46)	Peak Number of Liveaboard Vessels in 2011 [46 + (46 x 0.10%)]	2011 Peak Number of People on Liveaboard Vessels (4 x 48)
Lower Keys												
1	253	455	253	455	253	456	253	456	254	457	254	457
2	82	147	82	147	82	148	82	148	82	148	82	148
3	0	0	0	0	0	0	0	0	0	0	0	0
4a	18	33	18	33	18	33	18	33	18	33	18	33
4b	0	0	0	0	0	0	0	0	0	0	0	0
5	109	196	109	196	109	197	109	197	109	197	110	197
6	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	**462**	**831**	**462**	**832**	**463**	**833**	**463**	**833**	**463**	**834**	**464**	**835**
Middle Keys												
7	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12a	-	-	-	-	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal	**0**	0	**0**	**0**	0	**0**	**0**	**0**	**0**	0	**0**	**0**
Upper Keys												
14	-	-	-	-	-	-	-	-	-	-	-	-
15	20	36	20	36	20	36	20	36	20	36	20	36
16	2	3	2	3	2	3	2	3	2	3	2	3
17	65	118	65	118	66	118	66	118	66	118	66	118
18	0	0	0	0	0	0	0	0	0	0	0	0
19-20 (g)	7	13	7	13	7	13	7	13	7	13	7	13
21	109	196	109	196	109	197	109	197	109	197	110	197
22	58	105	58	105	58	105	58	105	58	105	58	105
Subtotal	**262**	**471**	**262**	**472**	**262**	**472**	**263**	**473**	**263**	**473**	**263**	**473**
UNINC. TOTALS	**723**	**1,302**	**724**	**1,303**	**725**	**1,305**	**726**	**1,306**	**726**	**1,307**	**727**	**1,309**
Village of Islamorada	7	13	7	13	7	13	7	13	7	13	7	13
City of Leyton	0	0	0	0	0	0	0	0	0	0	0	0
City of Key Colony B.	0	0	0	0	0	0	0	0	0	0	0	0
City of Marathon	369	663	369	664	369	665	370	665	370	666	370	667
City of Key West	311	559	311	560	311	561	312	561	312	562	312	562
COUNTY TOTAL (q)	**1,410**	**2,538**	**1,411**	**2,540**	**1,413**	**2,543**	**1,414**	**2,545**	**1,415**	**2,548**	**1,417**	**2,550**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: Monroe County Planning Department; Antonini et. al. "Boat Live-Aboards in the Florida Keys: A New Factor in Waterfront Development"

Peak Number of People on Liveaboard Vessels

1	50	51	52	53	54	55	56	57
PAED	Peak Number of Liveaboard Vessels in 2012 (48 + (48 x 0.10%))	2012 Peak Number of People on Liveaboard Vessels (4 x 50)	Peak Number of Liveaboard Vessels in 2013 (50 + (50 x 0.10%))	2013 Peak Number of People on Liveaboard Vessels (4 x 52)	Peak Number of Liveaboard Vessels in 2014 (52 + (52 x 0.10%))	2014 Peak Number of People on Liveaboard Vessels (4 x 54)	Peak Number of Liveaboard Vessels in 2015 (54 + (54 x 0.10%))	2015 Peak Number of People on Liveaboard Vessels (4 x 56)
Lower Keys								
1	254	457	254	458	255	458	255	459
2	82	148	82	148	82	148	83	149
3	0	0	0	0	0	0	0	0
4a	18	33	18	33	18	33	18	33
4b	0	0	0	0	0	0	0	0
5	110	197	110	198	110	198	110	198
6	0	0	0	0	0	0	0	0
Subtotal	**464**	**836**	**465**	**837**	**465**	**838**	**466**	**838**
Middle Keys								
7	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-
9	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0
12a	-	-	-	-	-	-	-	-
12b	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-
Subtotal	**0**	0	**0**	**0**	**0**	**0**	**0**	**0**
Upper Keys								
14	-	-	-	-	-	-	-	-
15	20	36	20	36	20	36	20	36
16	2	3	2	3	2	3	2	3
17	66	118	66	119	66	119	66	119
18	0	0	0	0	0	0	0	0
19-20 (g)	7	13	7	13	7	13	7	13
21	110	197	110	198	110	198	110	198
22	59	105	59	105	59	106	59	106
Subtotal	263	**474**	**264**	**474**	**264**	**475**	**264**	**475**
UNINC. TOTALS	**728**	**1,310**	**728**	**1,311**	**729**	**1,313**	**730**	**1,314**
Village of Islamorada	7	13	7	13	7	13	7	13
City of Layton	0	0	0	0	0	0	0	0
City of Key Colony B.	0	0	0	0	0	0	0	0
City of Marathon	371	667	371	668	372	669	372	669
City of Key West	313	563	313	563	313	564	314	564
COUNTY TOTAL (q)	**1,418**	**2,553**	**1,420**	**2,555**	**1,421**	**2,558**	**1,423**	**2,561**

SEE FINAL PAGE FOR FOOTNOTES

SOURCE: Monroe County Planning Department; Antonini et. al. "Boat Live-Aboards in the Florida Keys: A New Factor in Waterfront Development"

Appendix 11

Footnotes

FOOTNOTES

(a) The Census places No Name Key within Tract 9714 Block Group 4, but the figures for No Name Key are calculated seperately in this model.

(b) The Census includes W. Summerland, Bahia Honda, Ohio, & Missouri Keys within Tract 9714 Block Group 1. The totals for these islands as well as Pigeon Key have been aggregated seperately in this model.

(c) The City of Key Colony Beach is excluded from the totals for this PAED.

(d) The Census includes Grassy and Duck Keys within Tract 9710 Block Group 2, but the figures for either PAED are calculated seperately in this model.

(e) The City of Layton is excluded from the totals for this PAED.

(f) The Census includes Windley Key (PAED 12b) within Tract 9709 Block Groups 1 and 2. The totals for Windley Key have been aggregated seperately in this model.

(g) PAEDs 19 and 20 are divided by US Highway 1. Neither the Census data nor the Building Department data have been aggregated in this way. As a result, the population figures for both these PAEDs have been aggregated in this model.

(h) The Census includes Cross Key (PAED 22) within Tracts 9701 and 9702.98, but the figures for Cross Key have been aggregated seperately in this model.

(i) This is a surrogate measurement that compares the total population to the total number of housing units. This figure accounts for persons in group quarters and the number of vacant housing units. This figure is NOT persons per household, which is based upon the number of persons in occupied housing units only.

(j) This number accounts for persons in group quarters, and accounts for the number of vacant housing units based upon the persons-per-total-housing-units figure (column 13). This number does NOT include seasonal population.

(k) This number was derived by examining the number of CO's by PAED through December 31, 1999.

(l) This number uses the total number of residential permits available based on the current ROGO system. PAED totals were derived by mutiplying the total number of permits available for a sub-district by a PAED's historical contribution to the number of units built in that sub-district from 1990 to 1999 (column 55).

(m) The 1999 Total Population is an estimate based on the number of Certificates of Occupancy issued.

(n) These population forecasts are based on the mean historical percent increases. There are currently no ROGO guidelines for development after 2003.

(o) The percent increase figure has a .10% reduction (over the previous year's total) which is applied as an assumption that population will tend to level off or decline as a function of reduced carrying capacity and slower growth rates.

(p) Key West population figures come from Tables 1.1 and 1.3 of their Evaluation and Appraisal Report (EAR). Key West totals in these tables differ from 1990 Census STF1A figures based upon their inclusion of military housing/population (not included in the Census). For consistency, the Key West EAR figures were used in this model, but the military housing/population figures were removed from the 1990 data columns. This data comes from Key West, not the Monroe County Planning Dept. Please note that the Key West Peak Seasonal Tourist Population figures INCLUDE day visitors, while the Monroe County figures do not.

(q) The County Total figure excludes Mainland Monroe County, the Marquesas, and the Dry Tortugas.

FOOTNOTES

(r) The number of seasonal units is derived from the 1990 Census.

(s) This number is taken from the Permanent Resident Population Estimates and Forecasts model, which is based upon the number of Certificates of Occupancy issued. Key West figures are taken from their Evaluation and Appraisal Report, not from the Monroe County Planning Department.

(t) This number is taken from Table A.1.32 of the TDC's "Technical Appendix: Sampling Methodologies and Estimation Methods Applied to the Florida Keys/Key West Visitors Surveys" document prepared by Vernon Leeworthy in December of 1996. Key West's figure comes from their Evaluation and Appraisal Report.

(u) This number is derived from the State of Florida Department of Business and Professional Regulation Master List of Hotels, Motels, B&B's and Transient Apartments. The number of units which were issued Certificates of Occupancy duirng the year by the Monroe County Building Department have been added to the State's figures.

(v) This number comes from the TDC's Visitor Profiles: Florida Keys/Key West 1996 Study Technical Appendix Table A.1.32 on Page 28.

(x) This number comes from the "Trend Report" prepared by Smith Travel Research for the TDC. This rate includes all of Monroe County including Key West, and is the highest monthly occupancy rate for the year.

(y) This number is derived by including the existing number of rooms plus any projects which may have been vested. The Village at Hawks Cay has approximately 71 units which are not constructed by 1999. These remaining units have been divided up evenly over 2000, 2001, and 2002.

(z) This number includes all vested hotel/motel units remaining.

(aa) This number remains constant as a result of the Year 2010 Comprehensive Plan Policy 101.2.6 (ROGO) which places a moratorium on these units.

(ab) This number comes from the TDC's Visitor Profiles: Florida Keys/Key West 1996 Study Technical Appendix Table A.1.30 Pages 25 and 26. The numbers found in the TDC study are for 1996, but have been used for the period from 1990 to 2015 based upon the moratorium on these types of uses noted in Year 2010 Comprehensive Plan Policy 101.2.6.

(ac) This number comes from the TDC's Visitor Profiles: Florida Keys/Key West 1996 Study Technical Appendix Table A.1.31 "Number per Party" on Page 27.

(ad) This number comes from the TDC's Visitor Profiles: Florida Keys/Key West 1996 Study Technical Appendix Table A.1.31 on Page 27. The figure is the peak "Capacity Utilization Rate", which is "campsite usage" divided by total campsite capacity. This number serves as a peak occupancy rate for this submodel.

(ae) This number is derived from the Peak Number of People in Seasonal Residences table.

(af) This number is derived from the Peak Number of People in Hotels and Motels table.

(ag) This number is derived from the Peak Population in Campsites and Recreational Vehicles Model.

(ah) This number results from the TDC's Visitors Guide: Florida Keys/Key West Technical Appendix Table A.1.34 Page 31. This study has determined that 15.5% of all visitors to the Keys stay with friends and relatives.

(ai) This number is derived from the 1993 Marina Survey performed by the Monroe County Marine Resources Department.

FOOTNOTES

(aj) This number is derived from the Antonini et. al. study "Boat Live-Aboards in the Florida Keys: A New Factor in wtarefront Development" (Page x of the abstract).

(al) This number is derived by dividing the total number of liveaboard vessels (from the Antonini study) by the appropriate percentages found in the Marine Resources 1993 survey.

APPENDIX 2

SECTION 2

Population and Water Demand Forecast Summary

2.1 Introduction

The development of accurate population projections and water use demands for the Florida Keys is challenging because of the high number of seasonal residents (those residing in the Keys for 6 months or less), and day visitors (from cruise ships docking in Key West or visitors from the mainland). The population projections developed by the Monroe County Planning Department (MCPD) and used in the U.S. Army Corps of Engineers (USACE) *Florida Keys Carrying Capacity Study* (USACE, 2003) are used as the basis for the majority of population projections developed by other agencies, and were also used for this analysis.

The MCPD permanent and seasonal population projections were used to develop a functional population (permanent plus seasonal) for FKAA's service area through 2025. The projected population was then multiplied by FKAA's projected per capita demand to project customer demand in the service area. The per capita demand is projected to increase as the changing demographics of the Keys result in higher individual water use (for example, redevelopment of existing property usually involves some level of irrigation or other water-consuming amenities where none previously existed).

2.2 Projected Population

2.2.1 Permanent Population

The MCPD permanent population projections include the most appropriate and applicable information and are viewed as the basis of future projections in this Plan. From 1990 through 1995, the permanent population of Monroe County increased from 78,856 to 79,200 (0.4 percent); from 1995 through 2000, it increased from 79,200 to 79,589 (0.5 percent); and from 2000 through 2005, it increased from 79,589 to 81,701 (2.7 percent).

The MCPD data in the USACE *Carrying Capacity Study* (USACE, 2003) project a permanent population of 79,589 for 2000; 81,701 in 2005; 83,400 in 2010; 83,799 in 2015; 84,200 in 2020; and 84,603 in 2025. Exhibit 2-1 summarizes the MCPD permanent population projections. The permanent population is projected to grow at an overall average rate of 1.2 percent for each 5-year period from 2005 through 2025, with a higher rate (2.1 percent from 2005 to 2010) and a lower rate (0.5 percent) thereafter as Monroe County nears build-out.

2.2.2 Seasonal Population

The MCPD seasonal population projections in the USACE *Carrying Capacity Study* (USACE, 2003) also were used to project the seasonal population for Monroe County. Although there are no exact counts of the seasonal population, the MCPD developed historical seasonal population projections for 1990, 1995, and 2000. The MCPD projected that the 1990 seasonal population of 70,493 increased by 1.1 percent to a 1995 population of 71,266, and further increased by 3.1 percent to a 2000 seasonal population of 73,491.The MCPD continues these seasonal population projections in 5-year increments starting with a seasonal population of 73,737 in 2005; 74,533 in 2010; 74,712 in 2015; 74,891 in 2020; and 75,071 in 2025. The seasonal population is projected to increase at an overall average rate of 0.4 percent for each 5-year period from 2005 through 2025, with a 1.1 percent increase between 2005 and 2010 and a 0.24 percent increase from 2010 through 2025.

2.2.3 Functional Population

The term "functional population" is a concept that incorporates three elements of population: permanent residents, seasonal visitors, and day visitors. Because of the unique nature of the Keys, which has an economy based on seasonal tourism, it is appropriate to use one "population" number that incorporates these three separate population components.

In 2004 and 2005, CH2M HILL developed population projections for the FKAA service area. The population projections were based on those developed by the Monroe County Planning Department, and combined the permanent population with the seasonal population to form a "functional population" that was used to estimate water demand.

As part of this effort, CH2M HILL contacted the agencies or municipalities listed in Exhibit 2-1 to determine if they could provide data that could be used to develop population projections for the FKAA service area. Ultimately, it was decided to use the functional population projections developed by Monroe County.

Exhibit 2-2 presents the MCPD permanent, seasonal, and functional populations between 1990 and 2025. For this Plan, the functional population value is used in all per capita calculations and estimates. There are approximately 3.6 people per customer account within FKAA's service area using functional population as the basis.

Exhibit 2-3 summarizes the percent change in the functional population in 5-year intervals, starting in 1990.

EXHIBIT 2-1
Sources of Population Projection Data

Agency or Municipality	Type of Data	Contact Person	Data Source	Comments
University of Florida Bureau of Economic and Business Research (BEBR)	Permanent Population Projections	N/A	2003 Annual Report	Projections for the entire state of Florida by county from 2000 through 2025.
Monroe County Planning Department	Permanent and Seasonal Population Projections	N/A	2004 Comprehensive Plan and Facilities Capacity Assessment	Seasonal and permanent population projections were based off 1990 US Census and updated with the 2000 US Census numbers for the entire county.
Monroe County Tourist Development Council (TDC)	Hotel, Cruise Ship, and Airline Data	Jessica Mazzola, Director of Market Research	Three Penny Revenue Report, Call Counts, Trend Report and Airline Passenger Data Report FY 2004	The most detailed seasonal data, but did not account for the “day trip” visitor.
Islamorada	Permanent Population Projections	Patrick Small, Principal Planner	2003 Comprehensive Plan	Developed based on the US Census.
Key Colony Beach	Permanent and Seasonal Population Projections	Clyde Burnett, Mayor	1992 Comprehensive Plan	Developed based on the US Census.
Key West	Permanent and Seasonal Population Projections	Ty Symrowski, City Planner	1994 Comprehensive Plan	Developed based on the US Census.
Layton	Permanent and Seasonal Population Projections	Norm Anderson, City Council	N/A	Developed based on the US Census.
Marathon	Permanent and Seasonal Population Projections	Katie Parker, Planner	2003 Comprehensive Plan	Developed based on the US Census.
U.S. Census	Permanent Population Estimates	N/A	2000 Census Estimates	Permanent population estimates for 2000 by county.
South Florida Water Management District (SFWMD)	Population and Water Demand Projections	N/A	Lower East Coast Regional Water Supply Plan (LEC RWSP) (2003)	Draft data from November 2003.
U.S. Army Corps of Engineers (USACE)	Permanent and Seasonal Population Projections	N/A	Carrying Capacity Study (2003)	Included constraints on growth and environmental factors.

Note:
N/A = not applicable

EXHIBIT 2-2
Monroe County Historic and Projected Population Projections

Year	Permanent Population	Seasonal Population	Functional Population (Permanent + Seasonal + Day Visitors)
1990	**78,856**	**70,493**	**149,349**
1991	78,925	70,648	149,572
1992	78,994	70,802	149,796
1993	79,062	70,957	150,019
1994	79,131	71,111	150,243
1995	**79,200**	**71,266**	**150,466**
1996	79,278	71,421	150,698
1997	79,356	71,575	150,931
1998	79,433	71,730	151,163
1999	79,511	71,884	151,396
2000	**79,589**	**73,491**	**153,080**
2001	80,011	73,540	153,552
2002	80,434	73,589	154,023
2003	80,856	73,639	154,495
2004	81,279	73,688	154,966
2005	**81,701**	**73,737**	**155,438**
2006	82,041	73,896	155,937
2007	82,381	74,055	156,436
2008	82,720	74,215	156,935
2009	83,060	74,374	157,434
2010	**83,400**	**74,533**	**157,933**
2011	83,480	74,569	158,049
2012	83,560	74,605	158,164
2013	83,639	74,640	158,280
2014	83,719	74,676	158,395
2015	**83,799**	**74,712**	**158,511**
2016	83,879	74,748	158,627
2017	83,959	74,784	158,743
2018	84,040	74,819	158,859
2019	84,120	74,855	158,975
2020	**84,200**	**74,891**	**159,091**
2021	84,281	74,927	159,208
2022	84,361	74,963	159,324
2023	84,442	74,999	159,441
2024	84,522	75,035	159,557
2025	**84,603**	**75,071**	**159,674**

EXHIBIT 2-3
5-Year Historic and Projected Percent Changes in Functional Population

5-Year Period	Percent Change in Functional Population
1990–1995	0.75
1995–2000	1.74
2000–2005	1.54
2005–2010	1.61
2010–2015	0.37
2015–2020	0.37%
2020–2025	0.37%

2.3 Historic Water Production

CH2M HILL reviewed the raw water pumpage records from the FKAA's Florida City well-field from 1990 through 2005. These data, obtained from the FKAA's previous water use permit (WUP) applications, Monthly Operating Reports (MORs), and Monthly Production Reports (MPRs), are summarized in Exhibit 2-4. Exhibit 2-5 summarizes the same data for finished water; however, because of limited continuous annual historic data, a summary from 2000 to 2005 is presented.

Unlike population growth, which increased less than 2 percent for each 5-year period from 1990 through 2005 (Exhibit 2-3), the average-day raw water demand for the FKAA service area increased much more rapidly. From 1990 to 1995, the average-day raw water demand for the service area increased from 12.06 mgd to 14.07 mgd, an increase of 16.7 percent. From 1995 to 2000, the average-day demand increased by 21.2 percent, from 14.07 mgd to 17.06 mgd. From 2000 to 2005, average-day demand increased by only 4.0 percent, from 17.06 mgd to 17.73 mgd.

As seen in Exhibits 2-4 and 2-5, the 2000 drought with water restrictions resulted in significantly lower demands in 2001 (the year in which water restrictions were fully implemented). It is also possible that reduction in travel following the September 11, 2001, terrorist attacks resulted in less tourism.

EXHIBIT 2-4
Historic Raw Water Production

Year	Annual Demand (MG)	Average Daily Demand (mgd)	Max Day Demand (mgd)	Average Monthly Demand (MG)	Per Capita Demand (gpcd)
1990	4,404	12.06	**14.89**	367.01	80.74
1991	4,290	11.75	14.87	357.53	78.53
1992	4,742	12.98	15.9	395.16	86.67
1993	5,163	14.14	16.76	430.29	94.23
1994	5,076	13.90	16.88	423.01	92.50
1995	5,140	14.07	**16.49**	428.37	93.53
1996	5,273	14.44	17.82	439.40	95.80
1997	5,357	14.67	18.36	446.38	97.17
1998	5,622	15.39	18.29	468.49	101.82
1999	5,953	16.30	20.24	496.06	107.65
2000	6,230	17.06	**20.79**	519.15	111.42
2001	5,627	15.41	19.15	468.89	100.32
2002	6,191	16.95	20.46	515.93	110.05
2003	6,288	17.22	22.20	524.01	111.43
2004	6,383	17.48	22.00	531.92	112.77
2005	6,477	17.73	**22.39**	539.75	114.10

Notes:
MG=million gallons
mgd=million gallons per day
gpcd=gallons per capita per day
per capita=functional population

EXHIBIT 2-5
Historic Finished Water Production

Year	Annual Demand (MG)	Average Daily Demand (mgd)	Max Day Demand (mgd)	Average Monthly Demand (MG)	Per Capita Demand (gpcd)
2000	6,116	16.76	20.46	510	109.46
2001[a]	5,558	15.23	19.24	463	99.17
2002	6,031	16.52	19.95	503	107.28
2003	6,248	17.12	20.43	521	110.80
2004	6,347	17.39	20.43	529	112.22
2005	6,338	17.36	22.30	528	111.71

Notes:
[a]2001 maximum day for historic finished water was higher than maximum day for raw water (Exhibit 2-3) because of higher pumpage from storage tanks at Florida City during peak hours.
MG=million gallons mgd=million gallons per day
gpcd=gallons per capita per day per capita=functional population

Exhibit 2-6 compares the changes in population, raw water demand, and per capita use for the 5-year periods from 1990 through 2005.

EXHIBIT 2-6
5-Year Historic Percent Changes in Functional Population, Raw Water Demand, and Per Capita Water Demand

5-Year Period	Percent Change in Functional Population	Percent Change in Average Day Raw Water Demand	Percent Change in per Capita Water Demand
1990–1995	0.75	16.72	15.85
1995–2000	1.74	21.19	19.12
2000–2005	1.54	3.97	2.39

The high rate of growth in raw water demand, along with an increasing per capita demand over time, as seen in Exhibit 2-4, is primarily the result of a strong shift in demographics seen in the FKAA service area. The Keys as a whole are seeing an increasing number of affluent customers moving into the area who are then displacing the lower-income demographic group. These new customers are either improving existing homes or tearing them down and building larger, more expensive homes that use more water. Thus, new customers are consuming more water on a per capita basis and resulting in a higher per capita and average-day demand for the FKAA service area. This hypothesis was explored by investigating two issues believed to possibly contribute to this trend:

- Swimming pool construction permits, and
- Differences in water use following a home sale.

2.3.1 Swimming Pool Construction Permits

Homes constructed or redeveloped by higher-income residents typically have swimming pools, which further increase the water demand for that residence. CH2M HILL obtained the annual number of swimming pool construction permits issued by Monroe County from 1995 through 2004, as shown in Exhibit 2-7.

EXHIBIT 2-7
Annual Swimming Pool Construction Permits Issued by Monroe County

Year	Number of New Swimming Pool Construction Permits Issued	Percent Annual Increase
1995	65	N/A
1996	82	26
1997	88	7
1998	98	11
1999	88	-10
2000	96	9
2001	88	-8
2002	111	26
2003	195	76
2004	153	-22
Annual Average	**106**	**13**

The rate of swimming pool permit issuance increased, on average, by 13 percent annually from 1995 through 2004, which included both the drought year and recovery of 2001 as well as 2004, which had multiple hurricanes. In the past 3 years (2002 through 2004), pool permit issuance increased by an average of 27 percent annually (except 2004). Since 1995, the number of permits issued annually has increased by more than 250 percent.

2.3.2 Current Homeowner Versus Former Homeowner Water Use

In a trend that has become commonplace across Florida, higher-income residents are displacing lower-income residents and substantially improving their "new" homes. Many of these improvements involve upgrading the landscaping with lush foliage that typically requires substantially more irrigation than the previous landscaping. In addition, many times smaller homes are replaced with larger homes with more bathrooms. As a result of these changes, many of these residences show large increases in water use without a corresponding increase in population. Additionally, higher-income residents are typically less sensitive to increases in their water bill and are less likely to decrease their water use in response to the increased cost. Combined, these factors can result in an increased per capita water use by new residents.

CH2M HILL analyzed residential home sales prices to determine if the increase in home sales prices could be correlated with increasing per capita water demand. Individual account data were only available from 2000 through 2004, and to compare a full year of usage for each customer, only home sales occurring between 2002 and 2003 were used, which allowed for at least one full year of usage data before and after the sale. Water use in 2001 was excluded because of the impact of the water restrictions in effect at this time.

The FKAA service area is made up of several municipalities that are going through redevelopment and changes in demographics at different paces. To substantiate the correlation between increased home values and water use, CH2M HILL examined the home sale data for each separate municipality and for Monroe County as a whole.

1. CH2M HILL analyzed 2002 and 2003 home sale data provided by the Monroe County Property Appraiser to identify transactions in which the previous sale price was $150,000 or less. In 2002, 163 sales met this criterion; 268 purchases met this criterion in 2003.

2. The annual water use for each group of residential accounts was summed for 2000 through 2004.

3. For homes sold in 2002, their 2003 and 2004 water use was compared to their water use in 2000. Data from 2001 were excluded because of the drought, and data from 2002 (the sale year) were not included because of homes being sold at different times during the year and the lack of a full year's worth of water use under either the old or new homeowners.

4. The water use in homes sold in 2004 was compared against their 2002 water use. Data from 2001 and 2003 were excluded as noted above.

For the 2002 home sales in Monroe County, water use increased by 13.4 percent in 2003 and 21.1 percent in 2004 when compared to water use in 2000. For the 2003 home sales, water use increased by 11.4 percent in 2004 when compared to 2002 water use.

A technical memorandum documenting the projected change in per capita use, prepared for the South Florida Water Management District as part of the FKAA's water use permitting process is included as Appendix A.

2.4 Projected Finished Water Demand

The projected finished water demands for the FKAA service area from 2005 through 2025 are shown in tabular form in Exhibit 2-8 and in graphical form in Exhibit 2-9.

EXHIBIT 2-8
FKAA Service Area Projected 2005–2025 Population and Finished Water Demands

	Population			Finished Water Demands					
Year	Permanent	Seasonal	Functional	per capita (gpcd)	Avg. Day (mgd)	Max. Day (mgd)	Annual (MG)	Avg. Mo. (MG)	Max. Mo. (MG)
2005 (Actual)	**81,701**	**73,737**	**155,438**	**114.08**	**17.73**	**22.39**	**6477**	**539.74**	**597.15**
2006	82,041	73,896	155,937	119.15	18.58	23.23	6786	565.53	625.69
2007	82,381	74,055	156,436	119.99	18.77	23.46	6856	571.31	632.08
2008	82,720	74,215	156,935	122.34	19.2	24.00	7013	584.40	646.56
2009	83,060	74,374	157,434	124.75	19.64	24.55	7174	597.79	661.38
2010	**83,400**	**74,533**	**157,933**	**127.08**	**20.07**	**25.09**	**7331**	**610.88**	**675.86**
2011	83,480	74,569	158,049	129.58	20.48	25.60	7480	623.36	689.67
2012	83,560	74,605	158,164	132.01	20.88	26.10	7626	635.54	703.14
2013	83,639	74,640	158,280	134.45	21.28	26.60	7773	647.71	716.61
2014	83,719	74,676	158,395	136.87	21.68	27.10	7919	659.89	730.08
2015	**83,799**	**74,712**	**158,511**	**139.30**	**22.08**	**27.60**	**8065**	**672.06**	**743.55**
2016	83,879	74,748	158,627	140.90	22.35	27.94	8163	680.28	752.64
2017	83,959	74,784	158,743	142.43	22.61	28.26	8258	688.19	761.40
2018	84,040	74,819	158,859	144.03	22.88	28.60	8357	696.41	770.49
2019	84,120	74,855	158,975	145.56	23.14	28.93	8452	704.32	779.24
2020	**84,200**	**74,891**	**159,091**	**147.15**	**23.41**	**29.26**	**8551**	**712.54**	**788.34**
2021	84,281	74,927	159,208	147.61	23.5	29.38	8583	715.28	791.37
2022	84,361	74,963	159,324	148.13	23.6	29.50	8620	718.33	794.73
2023	84,442	74,999	159,441	148.64	23.7	29.63	8656	721.37	798.10
2024	84,522	75,035	159,557	149.04	23.78	29.73	8686	723.80	800.80
2025	**84,603**	**75,071**	**159,674**	**149.55**	**23.88**	**29.85**	**8722**	**726.85**	**804.16**

Notes:
Population data based on Monroe County Planning Department data in the USACE *Carrying Capacity Study* (2003).
Maximum-day demand based on maximum-day to average-day ratio of 1.25 (2002–2005 average).
Maximum-month demand based on maximum-month to average-month ratio of 1.11 (2002–2005 average).
The projections include the U.S. Navy's historic use of 1.05 mgd out of their contract for 2.4 mgd.

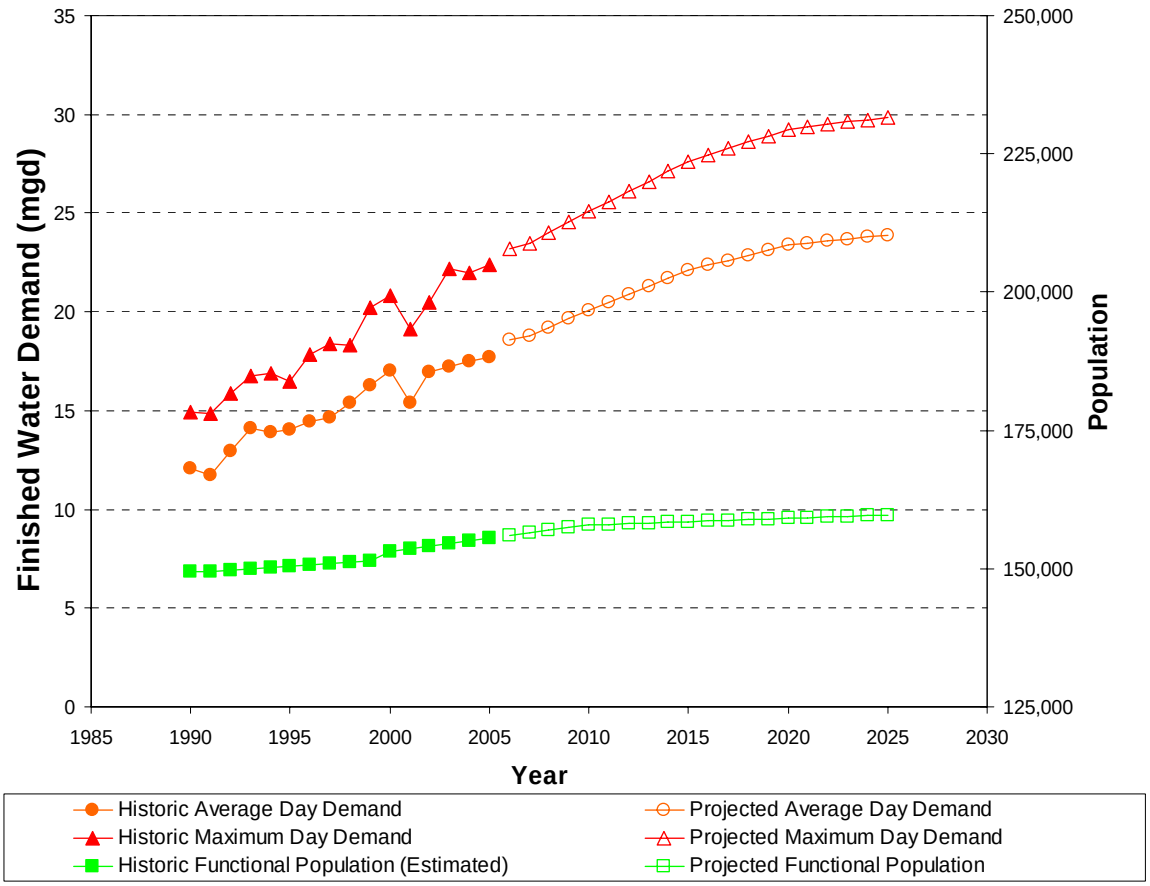

EXHIBIT 2-9
Graphic Representation of FKAA Service Area Projected 2005–2025 Population and Finished Water Demands

Including the existing U.S. Navy's historic demand of 1.05 mgd, the projected average-day finished water demand for the FKAA service area is expected to be 20.07 mgd in 2010, 22.08 mgd in 2015, 23.41 mgd in 2020, and 23.88 mgd in 2025. Maximum-day demands to be used to determine treatment plant capacity needs are expected to be 25.09 mgd in 2010, 27.60 mgd in 2015, 29.26 mgd in 2020, and 29.85 mgd in 2025 (see Exhibit 2-8).

In comparing FKAA's finished water demands and per capita water use to other large utilities across South Florida, as listed in the SFWMD Lower East Coast (LEC) Water Supply Plan (Chapter 5 – Table 59), both FKAA's existing (2005) per capita water use (114.08 gpcd) and projected (2025) per capita water use (149.55 gpcd) are well below the LEC Water Supply Plan's calculated average of 172 gpcd.

2.4.1 Peak Hour Demands

FKAA provided daily log sheets from the J. Robert Dean Water Treatment Plant (WTP) for selected periods in 2004 and 2005 with above-normal demand, such as Spring Break, Memorial Day, and July 4th.

The highest hourly flow rate (23.9 mgd) occurred on March 25, 2005. The 2005 average daily flow rate was 17.73 mgd; therefore, the peak hour demand peaking factor is the peak hour

(23.9 mgd) divided by the average daily flow for the year (17.73 mgd), or 1.35. This is significantly lower than the typical utility's 3.0 to 6.0 average-day to peak-hour demand ratio reported by Haestad Methods (2003). This discrepancy is attributed to the buffering capacity of the nearly 45 MG of storage in FKAA's distribution and transmission system.

This peaking factor was used in conjunction with the average-day demands in Exhibit 2-8 to develop peak hour demands for the FKAA service area. Exhibit 2-10 presents the projected peak hour demand for the FKAA service area through 2025.

EXHIBIT 2-10
Projected Peak Hour Demands

Year	Average Day Demand (mgd)	Peak Hour Demand (mgd)
2006	18.58	25.08
2007	18.77	25.34
2008	19.2	25.92
2009	19.64	26.51
2010	**20.07**	**27.09**
2011	20.48	27.65
2012	20.88	28.19
2013	21.28	28.73
2014	21.68	29.27
2015	**22.08**	**29.81**
2016	22.35	30.17
2017	22.61	30.52
2018	22.88	30.89
2019	23.14	31.24
2020	**23.41**	**31.60**
2021	23.5	31.73
2022	23.6	31.86
2023	23.7	32.00
2024	23.78	32.10
2025	**23.88**	**32.24**

Notes:
Peak hour demand based on the 2005 peak hour to average hour ratio of 1.35.

2.5 Demand by Service Type

2.5.1 Demand by Service Type

FKAA records water usage in the following general categories: residential, commercial, government, Navy, and Key West municipal government use. FKAA provided water use

information for each of these service categories from October 2003 through September 2005. Exhibits 2-11 and 2-12 present tabular and graphical summaries, respectively, of the average monthly water use for each service category.

Nearly half (56 percent) of the water produced by the FKAA is used by residential customers. Commercial customers are the next-largest category, with an average use of 32 percent. No large commercial customers (that is, those using 40 percent or more of the water sold in the commercial category) have been identified.

The U.S. Navy is FKAA's largest single customer, accounting for 7 percent of its monthly production. Government, senior citizen, and Key West municipal use makes up another 5 percent.

EXHIBIT 2-11
Average Monthly Water Use by Category, million gallons, October 2003–September 2005

Month	Residential	Commercial	Navy	Government	Key West Municipal	Senior Citizen	Total
Jan	273	153	29	16	3	2	476
Feb	236	136	29	15	3	2	421
Mar	241	141	27	14	3	2	428
Apr	291	167	28	17	4	2	509
May	262	152	30	16	4	2	466
Jun	268	149	31	18	4	2	472
Jul	273	158	28	17	4	2	482
Aug	248	143	30	14	3	2	440
Sep	242	136	24	16	3	2	423
Oct	194	113	30	15	3	2	357
Nov	229	136	29	15	3	2	414
Dec	223	129	29	15	4	2	402
Average	248	143	29	15	3	2	441
Percent	56%	32%	7%	3 %	1%	1%	

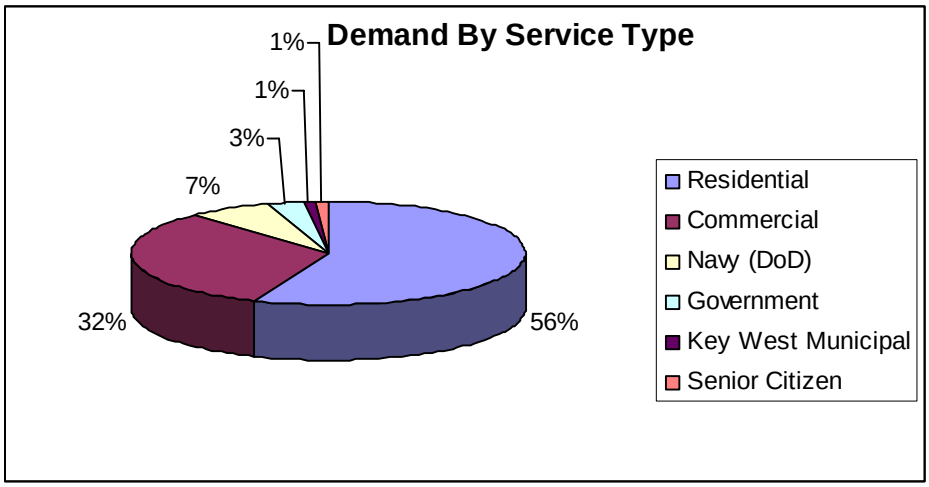

EXHIBIT 2-12
Graphic Summary of Average Monthly Water Use by Category, million gallons, October 2003–September 2005

FKAA's contract with the DoD calls for supplying the U.S. Navy with up to 2.4 mgd of water. From 2000 to 2004, deliveries to the U.S. Navy have averaged 1.05 mgd (see Exhibit 2-13).

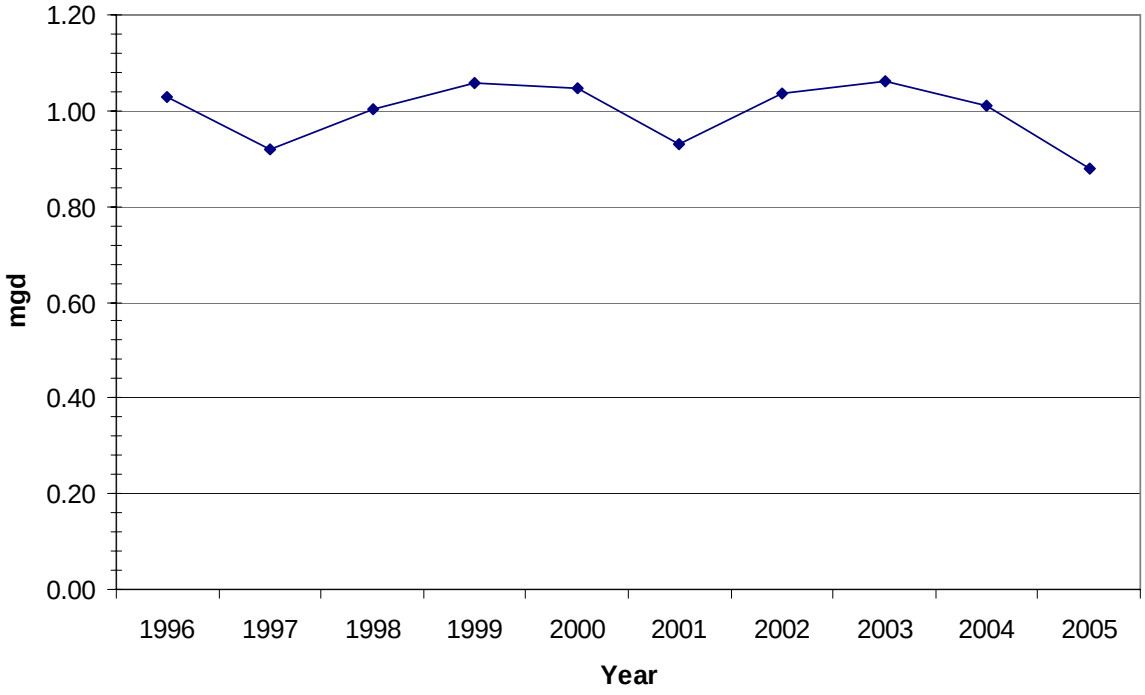

EXHIBIT 2-13
U.S. Navy Water Usage from 1996 to 2005

2.5.2 Unmetered Water

FKAA provided master tap readings for its distribution system (excluding Key West and the Navy) for the period December 2002 through December 2005. The data included the monthly total for each master tap, the total customer sales for each master tap, and the difference unaccounted-for-water (UAW).

FKAA's transmission and distribution system has certain specified maintenance requirements and activities that result in water being un-metered. These include regular flushing activities to maintain water quality, extensive flushing required during change of chlorine residuals twice per year, water loss resulting from transmission and distribution main break, and draining of potable water storage tanks for maintenance.

Exhibit 2-11 does not include UAW, which has historically averaged 10 to 12 percent. The American Water Works Association (AWWA) recommends that UAW should not exceed 5 percent, and that a goal of less than 10 percent is desirable. A total of 4 months with UAW (March, May, October, and December) contribute to the high overall average UAW. FKAA is not aware of any particular events (maintenance, line breaks, etc.) that may have contributed to the high UAW in those months. If UAW in those months could be reduced, FKAA's UAW would be significantly less.

To summarize data from the annual UAW reports that are provided to the SFWMD, the following percentages were recorded:

Year	Percentage UAW
2003	10.5
2004	9.71
2005	14.93
2006 (Year To Date June 2006)	11.45

FKAA should set a goal of 10 percent or less UAW in their system based on the uniqueness and operating pressures that FKAA experiences in their system. FKAA should continue to correlate transmission and distribution meter reads so that the data are correlated accurately and so that the actual losses in the transmission mains and the distribution system can be assessed. After this task is complete, identifying and locating potential losses throughout the system may be needed.

2.6 Conclusions

Population projections developed by the MCPD were used to develop water demand projections for the FKAA service area through 2025. FKAA's average daily raw water demand is expected to increase from 17.73 mgd in 2005 to 20.07 mgd in 2010, 22.08 mgd in 2015, 23.41 mgd in 2020, and 23.88 mgd in 2025. Maximum-day and peak hour demand were calculated using peaking factors of 1.25 and 1.35, respectively.

Residential (nearly half) and commercial (more than one-quarter) account for nearly three-quarters of the FKAA's water demand. UAW comprises approximately 12 percent of FKAA's total production; the remaining water is used primarily by the U.S. Navy and state and local governments.

UAW in the FKAA service area is higher than other water systems, and may be the result of FKAA's metering and accounting system, along with system leaks. Additionally, UAW is not distributed evenly throughout the service area, but varies considerably from key to key. Converting the 160 or so master meters along the transmission mains to automatic meter reading may help in identifying the largest areas of UAW. Additional tasks that FKAA could implement include a formal water audit and more specific investigations of water leaks in areas suspected of having UAW.

APPENDIX 3

County Population with Seasonal Replacement Calculations

	Monroe County Population Projection							
	Seasonal Replacement Series			Perm Change	@70% loss	ROGO Growth		
YEAR	Permanent	Seasonal	Functional					
2000	79,589	73,491	153,080					
2001	80,011	73,540	153,551	422				
2002	80,434	73,589	154,023	423				
2003	80,856	73,639	154,495	422				
2004	81,236	73,688	154,924	380				
2005	82,413	73,737	156,150	1,177				
2006	80,510	75,228	155,738	(1,903)	-1332.1	1332.1		
2007	78,987	76,453	155,440	(1,523)	-1066.1	2398.2		
2008	76,081	78,647	154,728	(2,906)	-2034.2	4432.4		
2009	77,925	77,516	155,441	1,844	1290.8	3141.6	ROGO DU	ROGO pop *.7 @2.7pph
2010	76,887	78,401	155,288	(1,038)	-726.6	3868.2		
2011	78,080	77,974	156,054	1,193	835.1	3033.1	197	372.33
2012	77,960	78,431	156,391	(120)	84		197	372.33
2013	77,840	78,887	156,727	(120)	84		197	372.33
2014	77,720	79,343	157,063	(120)	84		197	372.33
2015	77,600	79,800	157,400	(120)	84		197	372.33
2016	77,460	80,270	157,730	(140)	98		197	372.33
2017	77,320	80,740	158,060	(140)	98		197	372.33
2018	77,180	81,211	158,391	(140)	98		197	372.33
2019	77,040	81,681	158,721	(140)	98		197	372.33
2020	76,900	82,151	159,051	(140)	98		197	372.33
2021	76,760	82,622	159,382	(140)	98		197	372.33
2022	76,620	83,092	159,712	(140)	98		197	372.33
2023	76,480	83,562	160,042	(140)	98		197	372.33
2024	76,340	84,033	160,373	(140)	98		197	372.33
2025	76,200	84,503	160,703	(140)	98		197	372.33
2026	76,060	84,973	161,033	(140)	98		197	372.33
2027	75,920	85,444	161,364	(140)	98		197	372.33
2028	75,780	85,914	161,694	(140)	98		197	372.33
2029	75,640	86,384	162,024	(140)	98		197	372.33
2030	75,500	86,855	162,355	(140)	98		197	372.33

APPENDIX 4

FISHKIND
& ASSOCIATES

Memorandum

TO: Debbie Love, AICP, Senior Planner, Keith and Schnars, P.A.

FROM: Stanley P. Geberer, Associate
Fishkind & Associates, Inc.

SUBJECT: DCA Finding Regarding Population Methodology

DATE: November 16, 2010

1.0 Background

Fishkind has prepared the population projections for unincorporated Monroe County. We have reviewed extensively with County Staff, and provided an update to the final report on August 30 which addressed a series of non-formal questions DCA posed and finally had a conference call with DCA to review their questions and our responses. After a 60 day review DCA has found the methodology unacceptable as shown below.

> Department has completed its review of the methodology utilized for the seasonal population and identified its concerns below. Due to these concerns, the Department does not find the projection methodologies to be professionally acceptable.

This memo will review the items of DCA concern.

2.0 Discussion of Concerns 1-10

Concern 1

> 1. For Water Supply planning, the Department has previously accepted the methodologies employed by the Florida Keys Aqueduct Authority (FKAA) and recommended that the County utilize the FKAA methodology. The data submitted to date to the Department does not provide the base data utilized by FKAA and how the County applied the FKAA methodology for calculating the seasonal population.

The most recent FKAA projections to year 2025 were used as the baseline seasonal projections. These data are attached as Appendix 1. These data were applied directly to the seasonal forecast series and modified as described in Concern 3.

Concern 2

12051 Corporate Blvd., Orlando, Florida 32817 • (407) 382-3256 • FAX (407) 382-3254 • email Homeoffice@fishkind.com

2. Please provide a justification for the use of the Compound Annual Growth Rate (CAGR) to extend the FKAA series from 2025 to 2030 for the functional population. This is a geometric extrapolation and should be used with caution. The computed CAGR has not been provided.

The new planning horizon must be extended from 2025 to 2030. Compound annual growth rate is an appropriate mechanism whereby baseline growth may be extrapolated. Over the time horizon from 15 to 20 years, the error level of employing other methodologies cannot be said to be superior given these are the final out years of the planning horizon and are subject to the greatest degree of error. The comment from DCA suggesting "caution" should be used is gratuitous to the extent it implies caution was not used, and adds no meaningful dialogue. Further, the Department has not rejected the use of CAGR and fails to suggest a more appropriately method herein.

The computed CAGR from year 2000-2025 is as follows:

(FKAA seas pop 2025/FKAA seas pop 2000)^(1/26)-1=.082%

Concern 3

3. The County indicates there will be a decline in the permanent population as forecast by BEBR. The County has indicated that there will be an increase in seasonal growth equivalent to 70% of the decline in permanent population. For example, the County has submitted information that indicates that retail sales have decreased since 2006. Information submitted regarding changes in annual average daily traffic counts may be attributable to other causes that were not evaluated. Please provide an explanation as to how this addition to the FKAA projections makes sense within the context of the FKAA projection methodology. This addition as well as the addition in the next comment number 4, effectively changes the methodology.

The FKAA Seasonal Population methodology as described by FKAA is shown below:

FKAA Seasonal Population Methodology

2.2.2 Seasonal Population

The MCPD seasonal population projections in the USACE *Carrying Capacity Study* (USACE, 2003) also were used to project the seasonal population for Monroe County. Although there are no exact counts of the seasonal population, the MCPD developed historical seasonal population projections for 1990, 1995, and 2000. The MCPD projected that the 1990 seasonal population of 70,493 increased by 1.1 percent to a 1995 population of 71,266, and further increased by 3.1 percent to a 2000 seasonal population of 73,491.The MCPD continues these seasonal population projections in 5-year increments starting with a seasonal population of 73,737 in 2005; 74,533 in 2010; 74,712 in 2015; 74,891 in 2020; and 75,071 in 2025. The seasonal population is projected to increase at an overall average rate of 0.4 percent for each 5-year period from 2005 through 2025, with a 1.1 percent increase between 2005 and 2010 and a 0.24 percent increase from 2010 through 2025.

The historic data on seasonal populations presented by FKAA above indicate seasonal population is increasing at an increasing rate. The FKAA methodology failed to incorporate this into its seasonal projections. FKAA projected seasonal population increases at 1/3 the level of the most recent available data initially and then provided a decreased rate of growth through 2025. This rate is far slower than recent trend data FKAA observed. There is no explanation or justification in the FKAA methodology for the failure to recognize and include the robust levels of seasonal growth identified. Table 1 compares the FKAA seasonal growth rates with County seasonal growth rates.

Table 1. Seasonal Population Growth Rates

	FKAA Series	Monroe County	Net Difference
1990-1995	1.10%		
1995-2000	3.12%		
2000-2005	0.33%	0.33%	
2005-2010	1.08%	7.73%	4,904
2010-2015	0.24%	2.70%	1,965
2015-2020	0.24%	2.71%	2,035
2020-2025	0.24%	2.64%	2,034
2025-2030	0.41%	2.57%	1,906
Total Difference 2005-2030			12,843

The approach taken in the preparation of the County seasonal projections is to correct for this problem in the original FKAA methodology in recognizing the more dramatic seasonal population expansion.

Concern 4

4. The County included the following sentence which is not clear: "Further, we have added the equivalent of 70% of the ROGO growth to seasonal population to the FKAA seasonal series, reflecting the seasonal shift component not evidenced in FKAA's original data." This appears to add additional population. This has not been adequately explained or justified. The source data, calculations, and results have not been provided.

Please see response to Concern 3.

Concern 5

5. Please provide justification for the use of the persons-per-household (PPH) figure of 2.5. No data or analysis has been provided for the average size of seasonal households. Please include data or analysis regarding "seasonality." For example, there was no analysis of the maximum occupancy of seasonal units and the amount of time that these seasonal units are occupied at this maximum rate.

For the purposes of this analysis seasonal and permanent household sizes used are the same. The preponderance of data provided supports the use of 2.5 persons per household. The Population Report is cited below.

Excerpt from August 30 Population Report – page 11

It is also noted, for units shifting to seasonal status and for population associated with ROGO growth, a persons-per-household figure of 2.5 was used.

Intercensal data (see Tables 5 and 6) suggests an increase in persons per household by year 2009. Fishkind believes seasonally occupied homes and rentals have a higher person per household occupancy due to the increasing size of newly built units. For these reasons 2.5 was used for seasonal households.

Table 5.

Persons Per Household Census/Isite		
	Total	Unincorp
1990	2.33	2.38
2000	2.27	2.29
2009	3.12	2.89
2014	5.29	4.94

source: I-Site online data

Table 6. - Average Number of Bedrooms and Bathrooms per Single Family Unit by Year Built

Average Bed/Bath	
2.65	Pre-1970
3.33	1970-1989
3.63	1990-1999
3.77	2000-2008

Source: Monroe Co. Property Appraiser, Fishkind & Associates, Inc.

Because seasonal population is derived from the seasonal population as presented by FKAA, seasonal occupancy rates are implicit in the analysis, for the original seasonal series.

Concern 6

> 6. Based on Table 7, the seasonal population is roughly equivalent to the residential population. However, the number of seasonal units is much less than the number of occupied (resident) units. Does the FKAA data include population other than those living in housing and if so, how is that accounted for in the data and in the projection?

The percentage of non-homesteaded units is higher than homesteaded units in Monroe County, suggesting seasonal population could be at least equivalent to permanent.

The FKAA methodology includes cruise ship visitors, visitors from the mainland and those residing in the keys for 6 months or less. They are accounted for in the FKAA calculation of seasonal residents.

Concern 7

> 7. Please provide additional citation for The "I-Site" source. If the data is Census data, then that should be made clear. Projection data from a private sector, third party source cannot be evaluated without a complete explanation of how the projections were made, e.g. the full methodology with all support data must be provided.

The I-site data was not used in any methodological calculation in the Monroe County population projections. I-site data was used as a reference source only in referring to support for use of the 2.5 persons per household figure.

Concern 8

> 8. Section 8.0, third paragraph on page 10 discusses "an increase in seasonal population shown in the American Community Survey (ACS)." The ACS does not estimate seasonal population.

The ACS provides estimates of seasonal units as shown in Table 2-H3, page 5 of the population report. The change in seasonal population is based in part on the increase in seasonal units identified in the ACS data.

Concern 9

> 9. Section 5.0 and Tables 1 and 2 provide Census data. There were 51,617 housing units (occupied and vacant) in 2000. Census data indicates there were 21,900 owner occupied units. However, the second paragraph on page 6 indicates that there were 16,005 homestead units and 20,784 non-homestead units in 2000, which add to a total of 36,789 housing units. The housing units for homesteaded/non-homesteaded units should be reconciled with the Census housing units or data provided to explain the difference.

The difference cannot be reconciled without imposing egregious costs on the government and citizens of Monroe County in order to do so. The Property Appraiser is the source of homestead and non-homestead status. The property Appraiser data is not reconcilable with Census unit counts. This is a vexing problem addressed by the Regional Planning Council in the hurricane evacuation modeling effort as well. It is believed the difference lies in substandard housing, non-permitted housing, maritime live-aboards and other housing.

It is for this reason the analysis and projections were made on a population basis not a housing unit basis. The data on housing units is used as a guide to help estimate changes in the mix and character of resident and seasonal population.

Concern 10

> 10. The final paragraph in Section 1.0 states that a "reconciliation of the Fishkind and Hurricane model data will take place subsequent to the Hurricane data publication." Is this a preliminary report? Will the final population projection be submitted with your Evaluation and Appraisal Report?

The Regional Planning Council has reviewed and affirmed the County's population projection methodology. A final review by RPC will be requested and submitted with the EAR.