



Methodology of estimating the population in UAE

1) The Component Method :

This method is used when data are available from a census (base year population) , administrative records of births and deaths and net migration. The estimate is obtained by adding both natural increase and net migration that have occurred since the last census according to following formula:

$$P_t = P_0 + B - D + I - E$$

Where:

- P_t** The Current Estimate
- P₀** The Base Year resident Population (2005 census).
- B** Births that have occurred since the last census.
- D** Deaths that have occurred since the last census.
- I** Number of Immigrants since the last census.
- E** Number of emigrants since the last census.
- t** Time elapsed since the last census.

2) Natural Increase:

- Natural Increase in specific year = Births of the year-Deaths of the year
- Data on births and deaths are obtained from the administrative records of the Ministry of Health.



3) Net Migration :

- Net migration = Immigrants - Emigrants.
- Data are obtained from the administrative records of the Ministry of Interior.

4) Calculation of net migration:

- The net migration was calculated as follows:

Net migration = (residence permits issued for the first time – residence permits that have been cancelled and not renewed) + (arrivals of the Gulf Cooperation Council nationals - departures of the Gulf Cooperation Council nationals).

5) Requirements of the estimation:

1. Using this method requires the availability of annual data at the emirate's level on external and internal migration by sex and nationality, which are obtained from the administrative records of the Ministry of the Interior, in order to calculate the net migration as a component of the previous equation where: (net migration = I-E).
2. Using this method requires also the availability of annual data on births and deaths at the emirate's level by sex and nationality, which are obtained from the administrative records of the Ministry of Health in order to calculate the natural increase as a component of the previous equation where: (natural increase = B-D)).
3. The authorities in the United Arab Emirates, consider all



those who hold a valid resident permit as part of the population, accordingly the "de jure" count has been used in the 2005 census

4. Consequently the net migration has been calculated as the difference between the residence permits issued for the first time minus the residence permits that were canceled and not renewed on a yearly basis.
5. For the Gulf Cooperation Council nationals the net migration has been calculated as the difference between arrivals and departures due to the fact that they do not need residence permits to stay in the country.
6. The resident data obtained from the Ministry of Interior are classified by place of visa issuance or cancelation, therefore the net migration by emirate does not reflect the actual geographical distribution of the population and efforts are underway to find an alternative methodology depending on other sources to find the estimate of the population by emirate.



6) Population Estimates (2006-2009):

Previous Year	Population of Previous Year	Year of Estimation	Natural Increase	Net Migration	Population Estimate
	1				
2005	4,106,427	2006	56,486	849,471	5,012,384
2006	5,012,384	2007	60,275	1,146,347	6,219,006
2007	6,219,006	2008	61,024	1,793,596	8,073,626
2008	8,073,626	2009	68,577	57,793	8,199,996

7) Population Estimates (2010):

Population in mid-2010 was estimated using the model of exponential growth between 2008 and 2009 for the following reasons:

1. The lack of actual population figures due to the fact that the 2010 census, which was scheduled to take place in April 2010, was not conducted because lack of financial resources.
2. The incompleteness of the administrative data needed for applying the component method.
3. Exponential growth model gives good results in the short run (a half year), especially in the absence of any indications of a significant change in the movement of population during the underlying period.



UNITED ARAB EMIRATES دولة الإمارات العربية المتحدة
NATIONAL BUREAU OF STATISTICS المركز الوطني للإحصاء

Accordingly the estimate of the total population was about 8,264,070 persons.



National Population by Emirate and Sex (2006 end of the year estimates)

Emirate	Male	Female	Total
Abu Dhabi	182,603	179,033	361,636
Dubai	72,321	71,975	144,296
Sharjah	72,756	68,525	141,281
Ajman	20,488	19,409	39,897
Umm Al - Quwain	8,086	8,152	16,238
Ras Al - Khaimah	45,283	44,502	89,785
Fujairah	29,109	28,922	58,031
Total	430,646	420,518	851,164

Population by Nationality (National - Non National) and Sex (2006 end of the year estimates)

Nationality	Male	Female	Total
National	430,646	420,518	851,164
Non - National	3,102,918	1,058,302	4,161,220
Total	3,533,564	1,478,820	5,012,384

Source: National Bureau of Statistics.



United Arab Emirates

UNITED ARAB EMIRATES دولة الإمارات العربية المتحدة
NATIONAL BUREAU OF STATISTICS المركز الوطني للإحصاء

National Population by Emirate and Sex (2007 end of the year estimates)

Emirate	Male	Female	Total
Abu Dhabi	188,510	185,074	373,584
Dubai	75,677	75,450	151,127
Sharjah	74,279	70,040	144,319
Ajman	20,827	19,728	40,555
Umm Al-Quwain	8,245	8,331	16,576
Ras Al Khaimah	46,285	45,492	91,777
Fujairah	29,967	29,836	59,803
Total	443,790	433,951	877,741

Population by Nationality (National - Non National) and Sex (2007 end of the year estimates)

Nationality	Male	Female	Total
National	443,790	433,951	877,741
Non - National	4,089,491	1,251,774	5,341,265
Total	4,533,281	1,685,725	6,219,006

Source: National Bureau of Statistics.



United Arab Emirates

UNITED ARAB EMIRATES دولة الإمارات العربية المتحدة
NATIONAL BUREAU OF STATISTICS المركز الوطني للإحصاء

National Population by Emirate and Sex (2008 end of the year estimates)

Emirate	Male	Female	Total
Abu Dhabi	194,510	191,145	385,655
Dubai	78,853	78,661	157,514
Sharjah	76,019	71,836	147,855
Ajman	21,129	20,063	41,192
Umm Al-Quwain	8,424	8,506	16,930
Ras Al Khaimah	47,399	46,574	93,973
Fujairah	30,914	30,824	61,738
Total	457,248	447,609	904,857

Population by Nationality (National - Non National) and Sex (2008 end of the year estimates)

Nationality	Male	Female	Total
National	457,248	447,609	904,857
Non - National	5,582,723	1,586,046	7,168,769
Total	6,039,971	2,033,655	8,073,626

Source: National Bureau of Statistics.



UNITED ARAB EMIRATES دولة الإمارات العربية المتحدة
NATIONAL BUREAU OF STATISTICS المركز الوطني للإحصاء

National Population by Emirate and Sex (2009 end of the year estimates)

Emirate	Male	Female	Total
Abu Dhabi	200,857	197,291	398,148
Dubai	82,408	82,040	164,448
Sharjah	77,874	73,632	151,506
Ajman	21,442	20,410	41,852
Umm Al-Quwain	8,588	8,708	17,296
Ras Al Khaimah	48,580	47,749	96,329
Fujairah	31,953	31,849	63,802
Total	471,702	461,679	933,381

Population by Nationality (National - Non National) and Sex (2009 end of the year estimates)

Nationality	Male	Female	Total
National	471,702	461,679	933,381
Non - National	5,649,183	1,617,432	7,266,615
Total	6,120,885	2,079,111	8,199,996

Source: National Bureau of Statistics.



UNITED ARAB EMIRATES دولة الإمارات العربية المتحدة
NATIONAL BUREAU OF STATISTICS المركز الوطني للإحصاء

National Population by Emirate and Sex (2010 mid year estimates)

Emirate	Male	Female	Total
Abu Dhabi	204,108	200,438	404,546
Dubai	84,245	83,784	168,029
Sharjah	78,818	74,547	153,365
Ajman	21,600	20,586	42,186
Umm Al-Quwain	8,671	8,811	17,482
Ras Al Khaimah	49,181	48,348	97,529
Fujairah	32,486	32,374	64,860
Total	479,109	468,888	947,997

Population by Nationality (National -Non National) and Sex (2010 mid year estimates)

Nationality	Male	Female	Total
National	479,109	468,888	947,997
Non - National	5,682,711	1,633,362	7,316,073
Total	6,161,820	2,102,250	8,264,070

Source: National Bureau of Statistics.