



مركز الإحصاء - أبوظبي
STATISTICS CENTRE - ABU DHABI



Birth Statistics 2011

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Introduction

This report presents statistics on live births in Abu Dhabi Emirate in 2011. Statistics of births in the years 2002, 2006 and 2010 are included to show trends in fertility. It contains numbers of live births, sex ratios, fertility rates and relative distribution of births by month. It also covers birth indicators and General Fertility rates tabulated by, among other attributes, citizenship, gender and region.

The first section provides a brief summary of the key statistics supported by figures to highlight trends, regional variation and seasonal patterns.

The second section provides detailed statistical tables for readers who wish to analyze the data more closely.

The main source for these statistics is the Health Authority - Abu Dhabi (HAAD). SCAD acknowledges the productive partnership with HAAD which aims to continue improve the coverage and quality of birth statistics.

The Explanatory Notes section at the end of this report provides an explanation of the key terms and technical concepts used for births and fertility. Readers are encouraged to refer to that section in conjunction with reading the statistics and information outlined in the report.

Key Indicators, Abu Dhabi Emirate, 2011

Births

Total	32,084*
Citizens	14,636
Non-Citizens	17,398

*Including 50 cases with not stated citizenship

Sex Ratio at Birth (Males per 100 Females)

Total	103.5
Citizens	103.1
Non-Citizens	103.9

Crude Birth Rate (Per 1000 Population)

Total	15.1
Citizens	33.3
Non-Citizens	10.3

General Fertility Rate (Births Per 1000 women Aged 15-49 years)

Total	80.3
Citizens Females	127.4
Non-Citizens Females	61.1

Total Fertility Rate

Total	1.9
Citizen Females	3.8
Non-Citizen Females	1.4

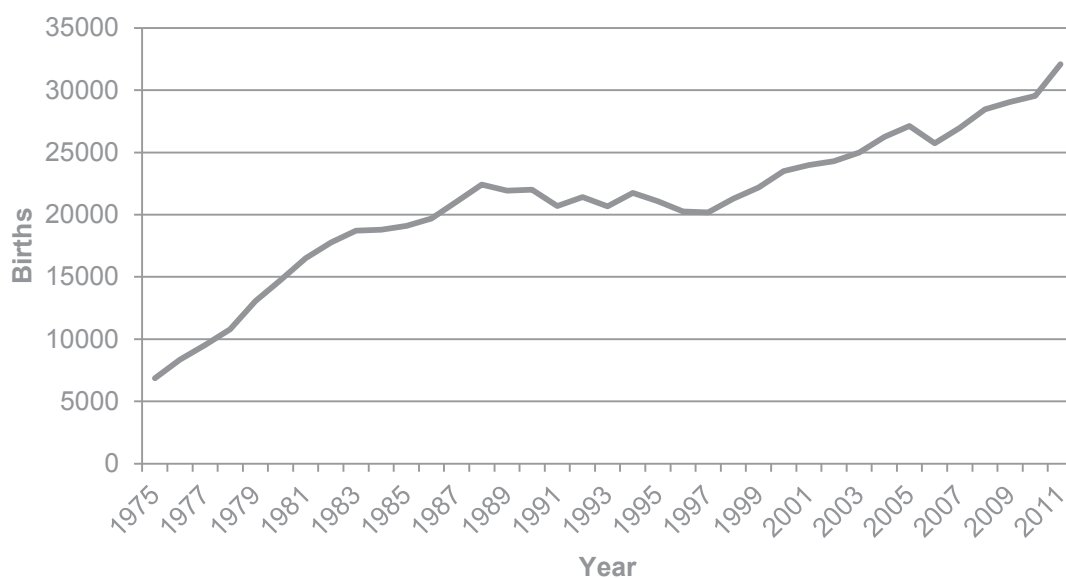
Key Points

- There were 32,084 live births in Abu Dhabi Emirate in 2011, compared with 24,300 in 2002, representing a rise of 32.0% in nine years.
- The Crude Birth Rate (CBR) decreased to 15.1 births (per 1000 population) in 2011, while it was 20.2 births (per 1000 population) in 2002.
- In 2011, the General Fertility Rate (GFR) decreased to 80.3 children per 1000 women in reproductive age (15-49 years) from 85.0 children (per 1000 women aged 15-49 years) in 2006.

Births trends

Administrative records show a rise in live births in Abu Dhabi Emirate in the registrations. The number of live births in 1975 totaled 6,854. It increased significantly in the period to 2011 reaching 32,084 live births, representing an increase of 4.7 times during this period.

Figure 1: Live Births, Abu Dhabi Emirate, 1977 to 2011



Source: Ministry of Health (1975-2005), Health Authority – Abu Dhabi (2006-2011)

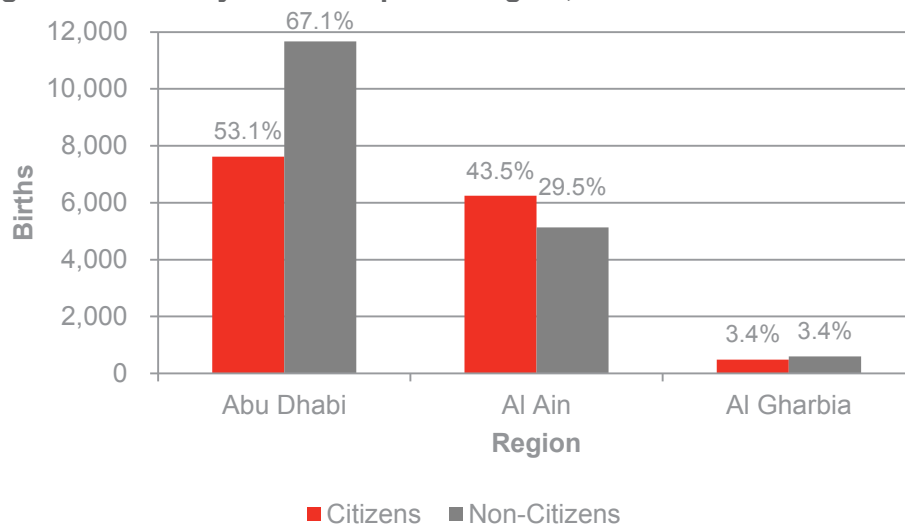
Live Births

Administrative records showed the number of live births was 32,084 in 2011, an increase of 32.0% between 2002 and 2011. Furthermore, the data indicates that there were increases of 36.2 % and 28.4% respectively for registered births of citizens and non-citizens throughout the Emirate in the same years.

In 2011, citizen births formed 45.6% of the total births in the Emirate. The administrative records show that citizen births vary by regions, where Abu Dhabi Region had the highest proportion of citizen births with 53.1%, followed by Al Ain Region with 43.5%, and Al Gharbia with 3.4%.

Non-citizen births represented 54.2% of the total births in the Emirate. Abu Dhabi Region had 67.1% of all non-citizens births, while Al Ain Region and Al Gharbia 29.5% and 3.4% of non-citizen births respectively.

Figure 2: Births by Citizenship and Region, Abu Dhabi Emirate - 2011

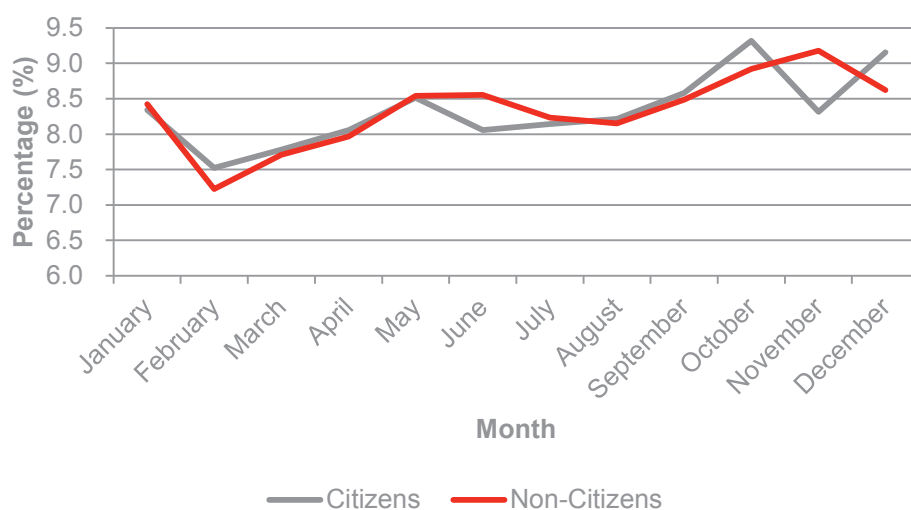


Source: Health Authority-Abu Dhabi, Statistics Centre – Abu Dhabi

Births by month

The chart below shows the relative distribution of births for each month in 2011. It reveals a great deal of volatility between months. The average distribution of births during the first quarter of the year was the least among the four quarters, reaching on the average 7.8% per month in the first quarter. This three-monthly average percentage increased in the next two quarters to 8.3%. In the fourth quarter it increased to reach 8.9%, when it also recorded the highest peak in 2011. The proportion of births in October was the highest rate with 9.1%, while the lowest was in February at 7.4% (a range of 1.7 percentage points). On the other hand, the relative distribution did not differ between citizens and non-citizens often in 2011 except in June and November with a difference of 0.5% and 0.9% in June and November, respectively.

Figure 3: Percentage Distribution of Births by Month and Citizenship, Abu Dhabi Emirate - 2011



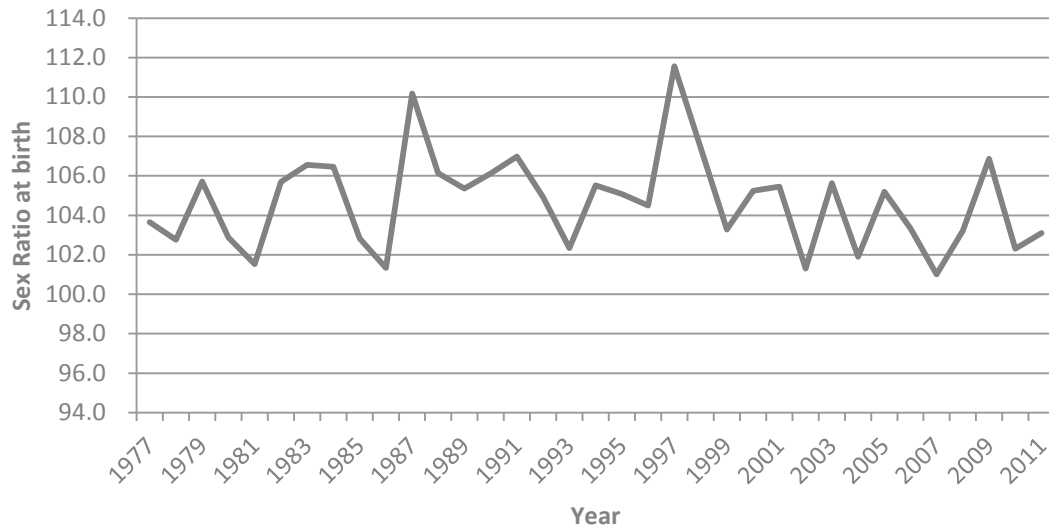
Source: Statistics Centre – Abu Dhabi (SCAD)

Sex Ratio at Birth

Statistics of the Emirate of Abu Dhabi show that the Sex Ratio at Birth fluctuated between 2002 and 2011 for both citizens and non-citizens. In 2002, the Sex Ratio at Birth was 101.8 males per 100 females for the whole Emirate, with 101.3 for citizens and 102.3 for non-citizens.

In 2011, the Sex Ratio at Birth was 103.5 males per 100 females, with 103.1 and 103.9 for citizens and non-citizens respectively.

Figure 4: Sex Ratio at Birth for Citizens, Abu Dhabi Emirate, 1977 to 2011



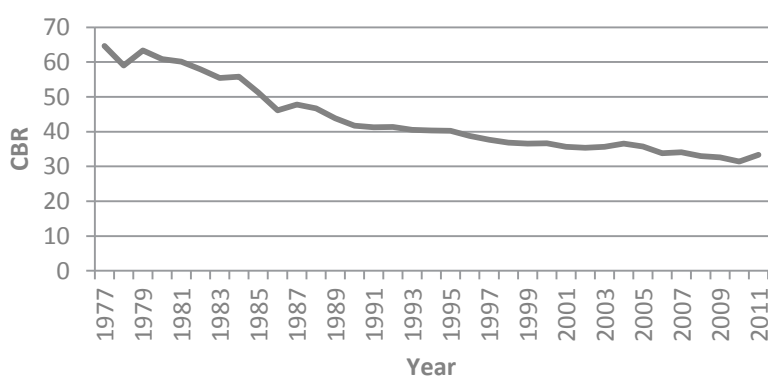
Source: Statistics Centre – Abu Dhabi (SCAD)

Crude Birth Rate

Statistics show a noticeable reduction of the Crude Birth Rate (CBR) by citizenship over the years 2002, 2006, 2010 and 2011. During this time, it is noted that the CBR gradually reduced across the Emirate. The CBR in 2002 was approximately 20.2 births per 1000 population, dropping to 17.6 in 2006, then 15.0 in 2010, before rising to 15.1 births per 1000 population in 2011.

The CBR for citizens decreased from, 35.2 in 2002 to 33.8 in 2006, followed by a decline to 31.4 in 2010 and then rose to 33.3 in 2011. As for the total of non-citizens, there was a decline from 15.1 in 2002 down to 10.3 in 2011.

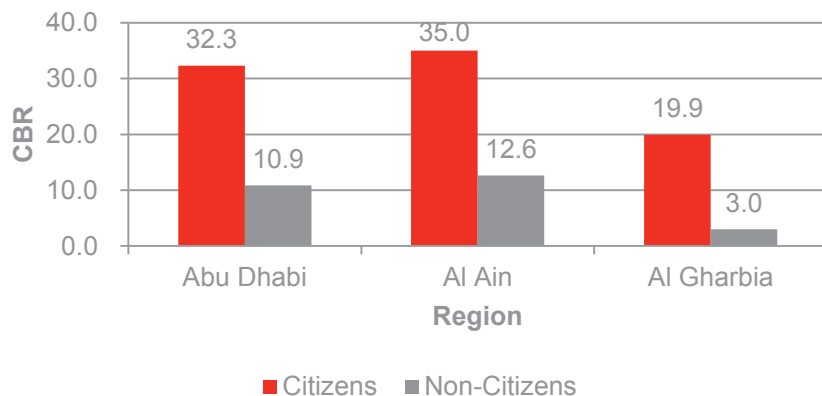
Figure 5: Crude Birth Rate (Per 1000 Population) for Citizens, Abu Dhabi Emirate – 1977 to 2011



Source: Statistics Centre – Abu Dhabi (SCAD)

CBR varies by citizenship and region as shown in Figure 6, reaching the maximum for citizens in Al Ain Region at 35.0 births per 1000 population and the lowest in Al Gharbia, where the CBR was 19.9 for citizens per 1000 population. The same applies to non-citizens, where CBR reached its maximum in the Al Ain Region with 12.6 births per 1000 population, and the minimum in Al Gharbia with 3.0 per 1000 population.

Figure 6: Crude Birth Rate (Per 1000 Population) by Citizenship and Region, Abu Dhabi Emirate - 2011



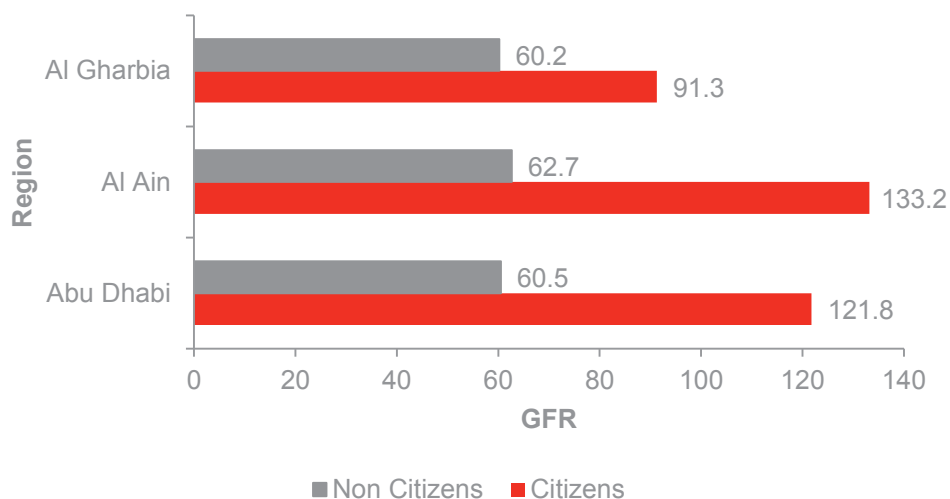
Source: Statistics Centre – Abu Dhabi (SCAD)

General Fertility Rate (GFR)

Comparing General Fertility Rate (GFR) in 2011 by citizenship, it is noticed that citizen females have higher GFR than non-citizen females throughout the whole Emirate and in each of the regions. Consequently, the indicator shows that for every 1000 citizen females within the pregnancy age 15-49 years 127.4 babies were born and for every 1000 non-citizen females within the pregnancy age 15-49 years there were 61.1 babies born. Although the number of non-citizen births is higher than citizen births, the lower GFR for non-citizens is due to the much larger number of non-citizen females within the age category (15-49) compared with the citizen females within the same age category,

By comparing regions, Al Ain Region witnessed the highest GFR with 133.2 births per 1000 citizen females within the pregnancy age and 62.7 births per 1000 non-citizen females within the pregnancy age. The GFR is the lowest in Al Gharbia with 91.3 births per 1000 citizen females and 60.2 per 1000 non-citizen females.

Figure 7: General Fertility Rate by Region and Citizenship, Abu Dhabi Emirate - 2011



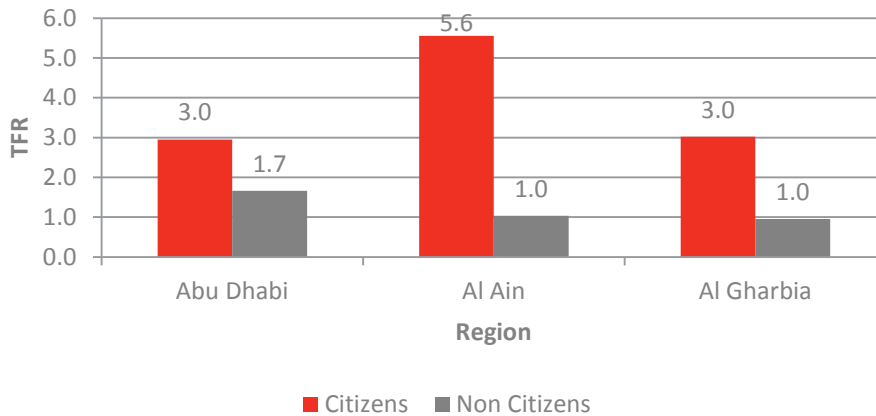
Source: Statistics Centre – Abu Dhabi (SCAD)

Total Fertility Rate

The Total Fertility Rate (TFR) represents the average number of babies that a woman could expect to bear during her reproductive lifetime. The calculation is assuming current age-specific fertility rates for each woman that every woman will survive throughout her reproductive life and also assuming registered births represent births to resident mothers. In 2011, TFR reached 1.9 babies per woman for Abu Dhabi Emirate. This indicator varies from one region to another. The TFR ranges from 1.4 in Al Gharbia to 2.0 in Abu Dhabi Region. The TFR in Al Ain Region was 1.8 babies per woman.

The TFR for citizens was 3.8 for Abu Dhabi Emirate, while the TFR was 1.4 for non-citizens, which means that the TFR for citizens was 2.5 times that of non-citizens. The TFR for citizens in Al Ain Region was the highest with 5.6 babies per citizen woman followed by an equal TFR for both Abu Dhabi and Al Gharbia with 3.0 babies per citizen woman.

Figure 8: Total Fertility Rate by Citizenship and Region, 2011



Source: Statistics Centre – Abu Dhabi (SCAD)

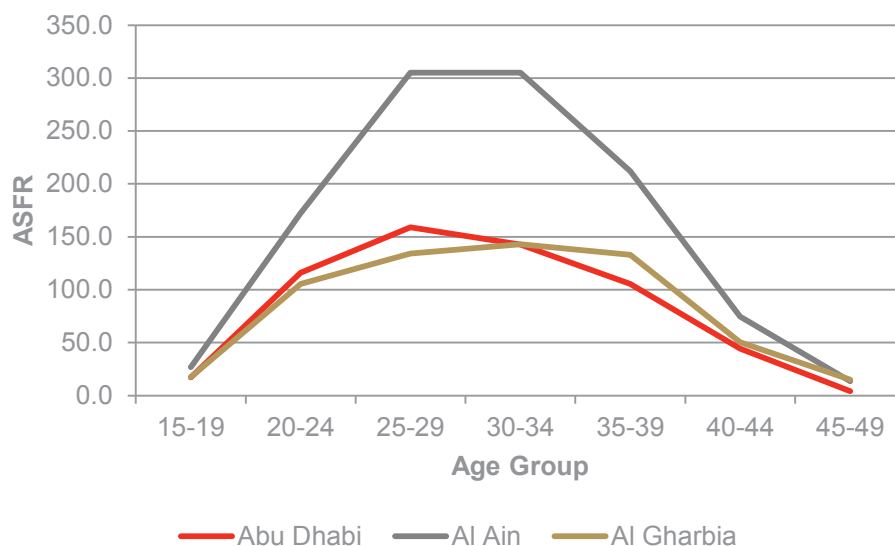
Age Specific Fertility Rate

The age is an essential factor for fertility, which varies from one age group to another. Generally, the Age Specific Fertility Rate (ASFR) has a low rate in the first age group 15 to 19 years, then rises dramatically until it reaches its peak rate either in the age group 25 to 29 years or 30 to 34 years, and decreases until it reaches the lowest rate in the last group 45 to 49 years.

In 2011, the ASFR for the age group 15 to 19 years reached 22.3 for the Emirate, which means there were about 22 babies born per 1000 women in this teenage group. The TFR reached its peak in the age group 25 to 29 years with about 94 births per 1000 women. Only three babies were born per 1000 women age group 45 to 49 years.

Al Ain Region had the highest TFR for citizens, which is also reflected in the ASFR, with 305 births per 1000 female citizens in both the 25 to 29 years and the 30 to 34 years age groups. There were similar ASFRs for citizens in Abu Dhabi Region and Al Gharbia, except that Al Abu Dhabi Region had a higher ASFR in the 25 to 29 age group and Al Gharbia a higher ASFR in the 35 to 39 years age group.

Figure 9: Age Specific Fertility Rates for Citizens by Age Group and Region, 2011

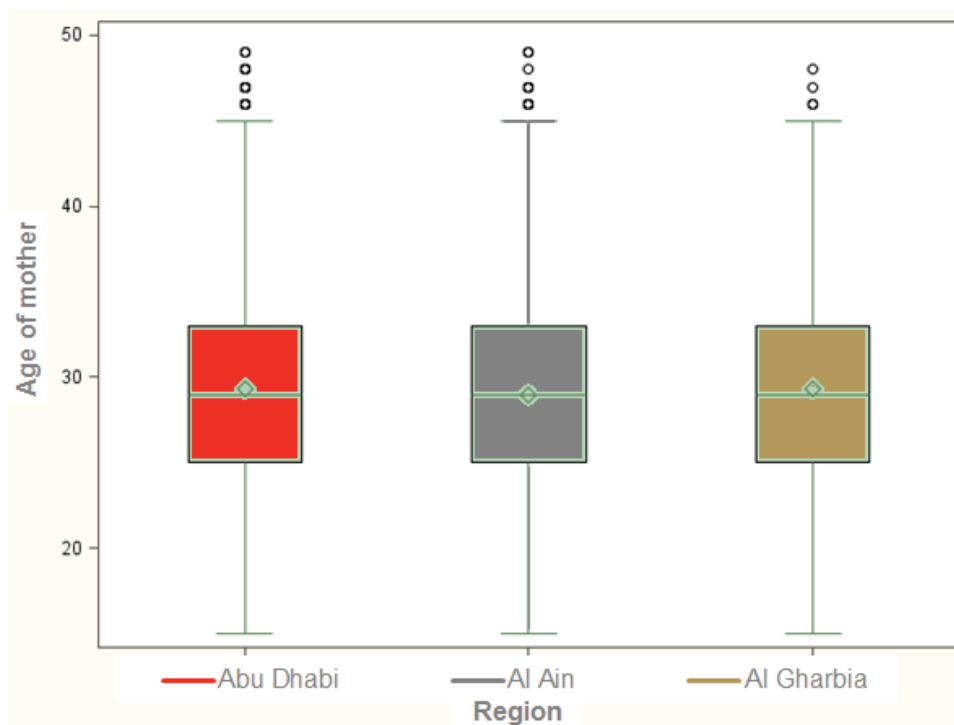


Source: Statistics Centre – Abu Dhabi (SCAD)

Median Age of Mother

The median age of mothers in the Emirate of Abu Dhabi was 29.2 years. Regional differences for median age of mother were insignificant for both citizens and non-citizens. Non-citizen median age of mother (29.7 years) was one year older than for citizen mothers (28.7 years). The interquartile range (between the first individual in the second quartile and the last individual in the third quartile) shows that 50% of all mothers were between 25 and 33 years old.

Figure 10: Median Age of mother by Region, 2011



Source: Statistics Centre – Abu Dhabi (SCAD)

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Table 1: Births by Citizenship, Gender and Region, 2011 *

Citizenship / Gender	Total	Abu Dhabi Region	Al Ain Region	Al Gharbia
Grand Total	31,755	19,293	11,374	1,088
Males	16,142	9,834	5,751	557
Females	15,613	9,459	5,623	531
Citizens	14,361	7,624	6,247	490
Males	7,279	3,870	3,157	252
Females	7,082	3,754	3,090	238
Non-Citizens	17,394	11,669	5,127	598
Males	8,863	5,964	2,594	305
Females	8,531	5,705	2,533	293

Source: Health Authority - Abu Dhabi

*Excluding 52 cases with not stated Citizenship or Regions and 277 case who were born outside UAE and registered in HAAD

Table 2-a: Births by Month, Citizenship and Gender, Abu Dhabi Emirate - 2011

Month	Citizens			Citizenship & Gender Non-Citizens			Total		
	Males	Females	Total	Males	Females	Total	Males	Females	Total
total	7,428	7,208	14,636	8,864	8,534	17,398	16,318	15,766	32,084
January	612	609	1,221	743	722	1,465	1,358	1,332	2,690
February	524	577	1,101	649	608	1,257	1,177	1,188	2,365
March	560	579	1,139	688	653	1,341	1,249	1,233	2,482
April	605	574	1,179	706	680	1,386	1,312	1,257	2,569
May	623	623	1,246	732	754	1,486	1,359	1,380	2,739
June	608	571	1,179	745	743	1,488	1,354	1,316	2,670
July	613	579	1,192	724	708	1,432	1,343	1,287	2,630
August	620	582	1,202	718	700	1,418	1,339	1,285	2,624
September	648	608	1,256	758	718	1,476	1,407	1,327	2,734
October	695	669	1,364	808	744	1,552	1,504	1,414	2,918
November	624	593	1,217	831	766	1,597	1,457	1,362	2,819
December	696	644	1,340	762	738	1,500	1,459	1,385	2,844

Source: Health Authority-Abu Dhabi

Table 2-b: Percentage Distribution of Births by Month, Citizenship and Gender, Abu Dhabi Emirate - 2011

Month	Citizens			Citizenship & Gender Non-Citizens			Total		
	Males	Females	Total	Males	Females	Total	Males	Females	Total
(%)									
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
January	8.2	8.4	8.3	8.4	8.5	8.4	8.3	8.4	8.4
February	7.1	8.0	7.5	7.3	7.1	7.2	7.2	7.5	7.4
March	7.5	8.0	7.8	7.8	7.7	7.7	7.7	7.8	7.7
April	8.1	8.0	8.1	8.0	8.0	8.0	8.0	8.0	8.0
May	8.4	8.6	8.5	8.3	8.8	8.5	8.3	8.8	8.5
June	8.2	7.9	8.1	8.4	8.7	8.6	8.3	8.3	8.3
July	8.3	8.0	8.1	8.2	8.3	8.2	8.2	8.2	8.2
August	8.3	8.1	8.2	8.1	8.2	8.2	8.2	8.2	8.2
September	8.7	8.4	8.6	8.6	8.4	8.5	8.6	8.4	8.5
October	9.4	9.3	9.3	9.1	8.7	8.9	9.2	9.0	9.1
November	8.4	8.2	8.3	9.4	9.0	9.2	8.9	8.6	8.8
December	9.4	8.9	9.2	8.6	8.6	8.6	8.9	8.8	8.9

Source: Statistics Centre - Abu Dhabi

Table 3: Sex Ratio at Birth by Year & Citizenship and Year, Abu Dhabi Emirate – 2002, 2006, 2010 and 2011

Males per 100 Females

Year	Citizens	Non-Citizens	Total
2002	101.3	102.3	101.8
2006	103.3	106.2	104.8
2010	102.3	106.1	104.4
2011	103.1	103.9	103.5

Source: Statistics Centre - Abu Dhabi

Table 4: Sex Ratio at Birth by Citizenship and Region, 2011

Males per 100 Females

Citizenship	Total	Abu Dhabi Region	Al Ain Region	Al Gharbia
Grand Total	103.5	103.9	102.3	105.1
Citizens	103.1	103.1	102.2	105.9
Non-Citizens	103.9	104.5	102.4	104.1

Source: Statistics Centre - Abu Dhabi

Table 5: Crude Birth Rate (Per 1000 Population) by Citizenship, Abu Dhabi Emirate – 2002, 2006, 2010 and 2011

Citizenship	2002	2006	2010	2011
Total	20.1	17.6	15.0	15.1
Citizens	35.4	33.8	31.4	33.3
Non-Citizens	15.0	12.3	10.3	10.3

Source: Statistics Centre - Abu Dhabi

Table 6: Crude Birth Rate (Per 1000 Population) by Citizenship and Region, 2011 *

Citizenship	Total	Abu Dhabi Region	Al Ain Region	Al Gharbia
Grand Total	15.1	14.7	19.5	4.8
Citizens	33.3	32.3	35.0	19.9
Non-Citizens	10.3	10.9	12.6	3.0

Source: Statistics Centre - Abu Dhabi

*Excluding 52 cases with not stated Citizenship or Regions and 277 case who were born outside UAE and registered in HAAD

Table 7: General Fertility Rate (births per 1000 women aged 15 - 49 years) by Citizenship and Region, 2011

Citizenship	Total	Abu Dhabi Region	Al Ain Region	Al Gharbia
Total	80.3	75.6	88.6	71.2
Citizen Females	127.4	121.8	133.2	91.3
Non-Citizen Females	61.1	60.5	62.7	60.2

Source: Statistics Centre - Abu Dhabi

Table 8: General Fertility Rate (births per 1000 women aged 15-49 years) by Year and Region, Abu Dhabi Emirate – 2006, 2010 and 2011

Year	Total	Abu Dhabi Region	Al Ain Region	Al Gharbia
2006	85.0	81.2	97.0	57.6
2010	80.7	77.5	91.1	56.1
2011	80.3	75.6	88.6	71.2

Source: Statistics Centre - Abu Dhabi

Table 9: Total Fertility Rate (births per 1000 women aged 15-49 years) by Citizenship and Region, 2011 *

Citizenship	Total	Abu Dhabi Region	Al Ain Region	Al Gharbia
Total	1.9	2.0	1.8	1.4
Citizen Females	3.8	3.0	5.6	3.0
Non-Citizen Females	1.4	1.7	1.0	1.0

Source: Statistics Centre - Abu Dhabi

calculation based on births Registered by HAAD

Table 10: Age Specific Fertility Rates (births per 1000 women aged 15-49 years) by Age Group and Region, 2011*

Age Group	Total	Abu Dhabi Region	Al Ain Region	Al Gharbia
15-19	22.3	20.1	25.6	16.9
20-24	81.1	82.5	79.9	54.9
25-29	94.0	103.8	83.0	56.6
30-34	91.8	97.9	83.8	66.5
35-39	62.0	64.2	58.8	51.9
40-44	22.8	23.2	21.5	22.3
45-49	3.2	2.8	3.4	4.5

Source: Statistics Centre - Abu Dhabi

calculation based on births Registered by HAAD

Table 11: Age Specific Fertility Rates (births per 1000 women aged 15-49 years) for Citizens by Age Group and Region, 2011*

Age Group	Total	Abu Dhabi Region	Al Ain Region	Al Gharbia
15-19	20.8	17.0	26.8	17.5
20-24	137.8	115.9	172.2	105.5
25-29	205.1	158.9	305.1	134.1
30-34	189.5	142.6	305.2	143.0
35-39	135.5	105.5	212.0	133.0
40-44	53.3	44.3	74.5	50.4
45-49	7.3	4.1	13.4	14.9

Source: Statistics Centre - Abu Dhabi

calculation based on births Registered by HAAD

Table 12: Age Specific Fertility Rates (births per 1000 women aged 15-49 years) for Non-Citizens by Age Group and Region, 2011*

Age Group	Total	Abu Dhabi Region	Al Ain Region	Al Gharbia
15-19	24.9	27.2	23.1	15.8
20-24	53.4	63.8	42.3	35.0
25-29	65.3	86.0	42.5	41.0
30-34	67.6	83.9	47.7	49.3
35-39	44.1	51.7	34.5	32.8
40-44	15.8	17.3	13.5	15.5
45-49	2.1	2.3	1.6	2.4

Source: Statistics Centre - Abu Dhabi

calculation based on births Registered by HAAD

Table 13: Median Age of Mother by Citizenship and Region, 2011

Citizenship	Total	Abu Dhabi Region	Al Ain Region	Al Gharbia
Total	29.2	29.3	29.0	29.3
Citizen Females	28.7	28.8	28.5	28.9
Non-Citizen Females	29.7	29.7	29.6	29.7

Source: Statistics Centre - Abu Dhabi

Table 14: Population Estimates by region, citizenships and gender, Abu Dhabi Emirate - mid-2011 *

Citizenship / Gender	Total	Abu Dhabi Region	Al Ain Region	Al Gharbia
Grand Total	2,120,700	1,310,300	584,800	225,700
Males	1,499,800	917,100	382,500	200,300
Females	620,900	393,200	202,300	25,400
Citizens	439,100	236,000	178,500	24,600
Males	226,500	121,700	90,400	14,300
Females	212,600	114,200	88,100	10,300
Non-Citizens	1,681,600	1,074,300	406,300	201,100
Males	1,273,400	795,300	292,100	185,900
Females	408,300	279,000	114,200	15,100

Source: Statistics Centre - Abu Dhabi

All numbers are rounded to the nearest 100 persons .Therefore, numbers may not add to totals*

Explanatory Notes

Glossary

This report contains certain terms specific to births and fertility. They include the following terms:

Age Specific Fertility Rate

The age-specific fertility rate measures the annual number of registered births to women of a specified age or age group per 1000 women in that age group.

For calculating these rates, births are for calendar years divided by the mid-year population. Births to mothers under 15 years are included in the 15 to 19 years age group, and births to mothers aged 50 years and over are included in the 45 to 49 years age group.

$$\frac{\text{Number of live births in specific age}}{\text{Total Women population in mid year of the specific age}} * 1000$$

Crude Birth Rate

It is the simplest measure of fertility. The Crude Birth Rate is the number of live births registered during the calendar year divided by the total estimated resident population at 30 June of that year. It is expressed as the number of births per 1000 population.

$$\frac{\text{Number of live births}}{\text{Total population in mid year}} * 1000$$

General Fertility Rate

It is a measure relating the births in a calendar year to the population most likely to give birth. It is expressed as the number of live births per 1000 women aged 15 to 49 years.

$$\frac{\text{Number of live births}}{\text{Total Women population aged (15–49 years) in mid year}} * 1000$$

Live Birth

A live birth occurs when the baby shows evidence of life such as breathing or heartbeat.

“A live birth is the result of the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, which after such separation, breathes or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached; each product of such a birth is considered live-born.” (Source: Glossary, Principles and Recommendations for a Vital Statistics System, Revision 2, United Nations, 2001b.)

Median age of mother

The median age of mother measures the median age of females who gave birth in a particular year.

Sex Ratio at Birth

The ratio of gender among births during a calendar year is expressed as the number of male live-born per 100 female live births.

$$\frac{\text{Number of male live births}}{\text{Number of female live births}} * 100$$

Total Fertility Rate

It is a common fertility measure describing the average number of children a woman would bear over the course of her lifetime, if current age-specific fertility rates remained constant throughout her childbearing years. Its calculation assumes that there is no mortality. It is expressed as children per woman.

$$5 * \sum \text{Age Specific Fertility Rate (5 age group)}$$

Data sources

Data are obtained from HAAD. The data are processed and passed to Statistics Centre – Abu Dhabi for further editing and compilation.

Technical notes

Base Population: Population for Abu Dhabi Emirate and its regions are based on mid-year population estimates.

Occurrences and registrations: Births are based on place of registration and not by place of usual residence of mother.

HAAD improved the data collection method by conducting a new notification process system that lead to a significant deference in 2011 comparing to previous years. This system was tested in mid-2010.

Abbreviations used

ASFR	Age Specific Fertility Rate
CBR	Crude Birth Rate
GFR	General Fertility Rate
HAAD	Health Authority – Abu Dhabi
SCAD	Statistics Centre – Abu Dhabi

Notes on tables

Changes (levels and per cent) in all tables are based on unrounded numbers.

Totals in some tables may not add up due to rounding.

Data for 2011 is updated by HAAD was June 2012

More information and next release

For more information about Births, Fertility and other official statistics, please visit the statistics link on the SCAD website at <http://www.scad.ae>

The next release is expected in October 2013.

