



مركز الإحصاء
STATISTICS CENTRE



Births Statistics

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Introduction

This report presents statistics on registered live births in Abu Dhabi Emirate during 2015. Statistics on live births in the years 2005, 2010 and 2014 are included for comparison and to show trends in fertility. It contains numbers of live births by citizenship, region and months, sex ratios at birth, in addition to fertility rates by citizenship 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, 2015

Live births	38,818
Citizens	16,405
Non-citizens	22,369
Sex Ratio at Birth (males per 100 females)	105.7
Citizens	104.7
Non-citizens	106.4
Crude Birth Rate (per 1,000 population)	13.9
Citizens	30.6
Non-citizens	10.0
General Fertility Rate (births per 1000 women aged 15 - 49 years)	58.9
Citizens	118.1
Non-citizens	43.0
Total Fertility Rate	1.7
Citizens	3.8
Non-citizens	1.2

Key Points

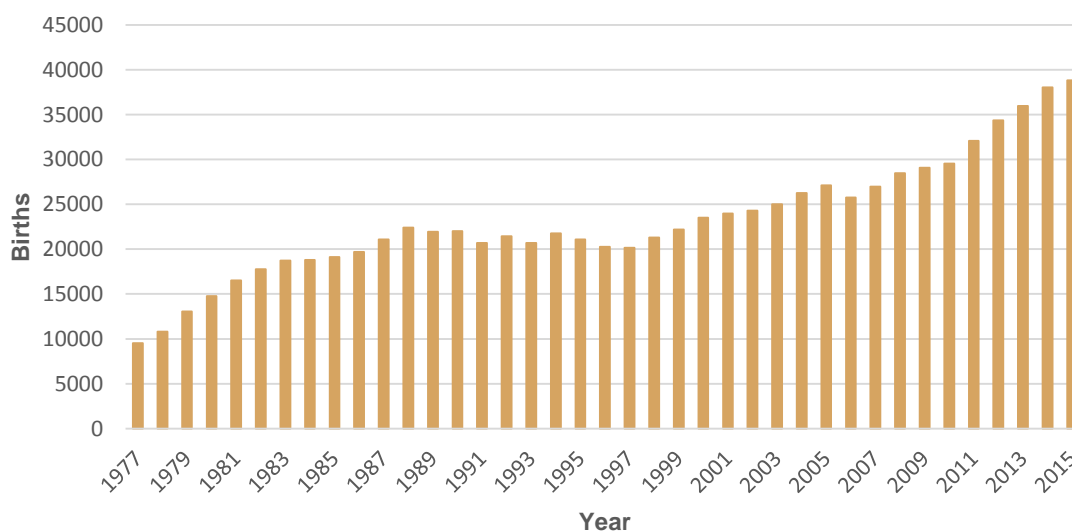
- There were 38,818 live births registered in Abu Dhabi Emirate in 2015, compared with 27,113 in 2005, representing a rise of 43.2% during last 10 years.
- The Crude Birth Rate was 13.9 births (per 1000 population) in 2015, decreasing from 19.7 births in 2005.
- In 2015, the General Fertility Rate was 58.9 births per 1000 women of reproductive age (15-49 years), decreasing from 72.1 births in 2010.

Main Trends

Administrative records show a rise in registered live births in Abu Dhabi Emirate. The total number of live births in 1977 was 9,524. It increased significantly in the period to 2015 reaching 38,818 live births, representing an increase of four times during this period or 307.6%.

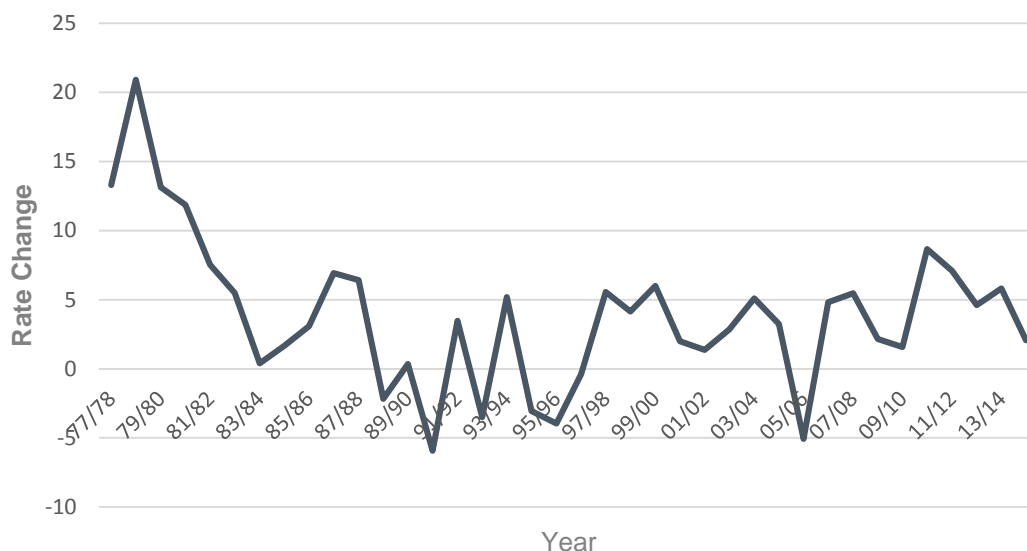
While the absolute number of births is a key indicator, a better understanding of birth trends can be gained by calculating statistics linked to the size and age-gender structure of the population. These include the crude, general and total fertility rates contained in this report.

Figure 1- A: Live Births, Abu Dhabi Emirate, 1977 to 2015



Source: Ministry of Health (1977-2005), Health Authority – Abu Dhabi (2006-2015)

Figure 1- B: Annual Change Rate in Live Births, Abu Dhabi Emirate, 1980 to 2015



Source: Statistics Centre - Abu Dhabi

Live Births by Citizenship and Region

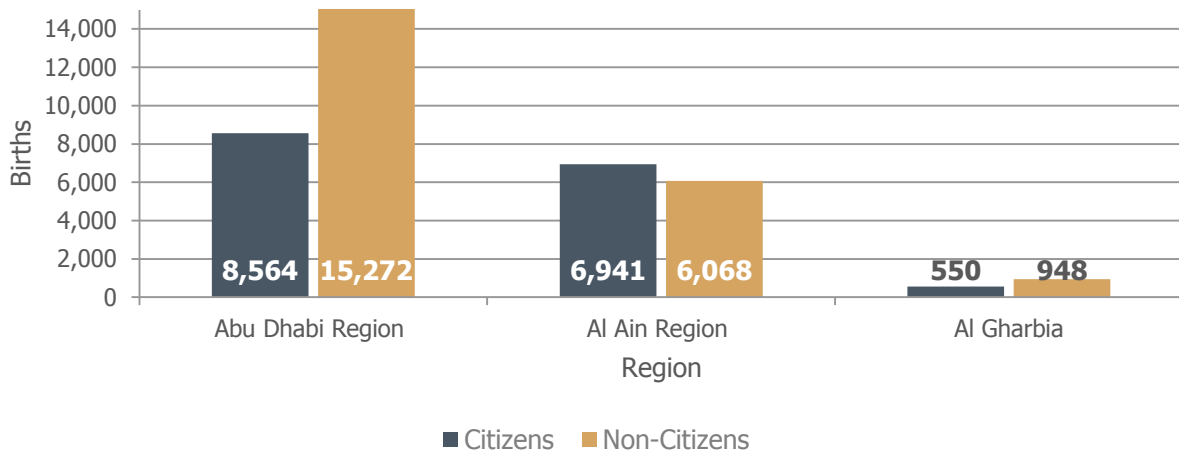
Administrative records showed that there was no relative difference between citizens and non-citizens in the change rate of registered births during the period from 2005 to 2015. The number of non-citizen births (22,369 live births) was higher than number of citizen births (16,405 live births) in 2015.

In 2015, nearly two-thirds of citizen babies were born in Abu Dhabi Region with 61.4%, followed by Al Ain Region with 33.5%, and Al Gharbia with 3.9% of the total citizen births.

With respect to non-citizen births, Abu Dhabi Region accounted for more than of two-thirds (68.1%), Al Ain Region for more than one-quarter (27.1%), while the proportion non-citizen births in Al Gharbia was 4.2%.

The percentage of citizen births in Al Ain Region was clearly higher than non-citizen births, while the opposite is the case in Abu Dhabi Region. In Al Gharbia, there was little difference between the percentages of citizen and non-citizen births.

Figure 2: Live Births by Citizenship and Region, Abu Dhabi Emirate, 2015



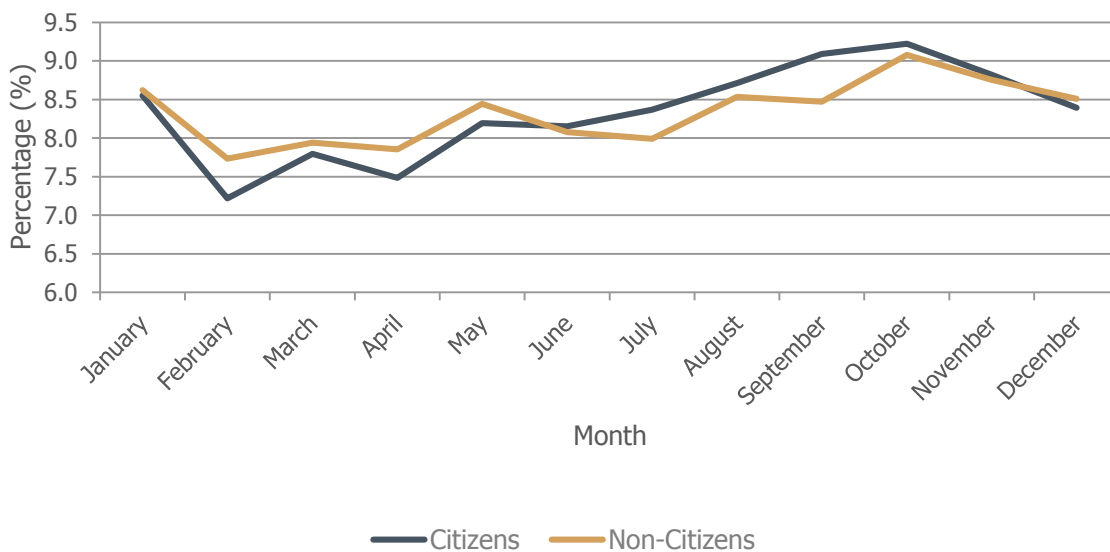
Source: Health Authority – Abu Dhabi

Live Births by Months

The chart below shows the relative distribution of births for each month by citizenship in 2015. It reveals a great deal of volatility between months.

The distribution of births by month shows that the monthly average percentage of births during the first quarter of the year was the least among the four quarters, reaching on average 8.0% per month. This average percentage increased in the next quarter to 8.1%, and in the third quarter it increased to reach 8.5%. Subsequently it increased slightly to 8.8% in the fourth quarter. Births peaked in October with 9.1%, while the lowest proportion was in February, which is partly explained by that February only has 28 days while the other months have 30 or 31 days..

Figure 3: Percentage Distribution of Live Births by Month and Citizenship, Abu Dhabi Emirate, 2015



Source: Statistics Centre - Abu Dhabi

Sex Ratio at Birth

Statistics of the Emirate of Abu Dhabi show that the Sex Ratio at Birth for total births ranged from 106.3 males per 100 females in 2005 to 105.7 in 2015.

With respect to citizen births, the sex ratio was 105.2, 102.3, 104.1 for 2005, 2010 and 2014 respectively. It increased again to 104.7 in 2015.

The sex ratio for non-citizen births was 107.2 in 2005, decreasing to 106.1 in 2010, and then declining to 106.1 in 2014 and increasing to 106.4 in 2015.

Figure 4: Sex Ratio at Birth for Citizens, Abu Dhabi Emirate, 1977 to 2015



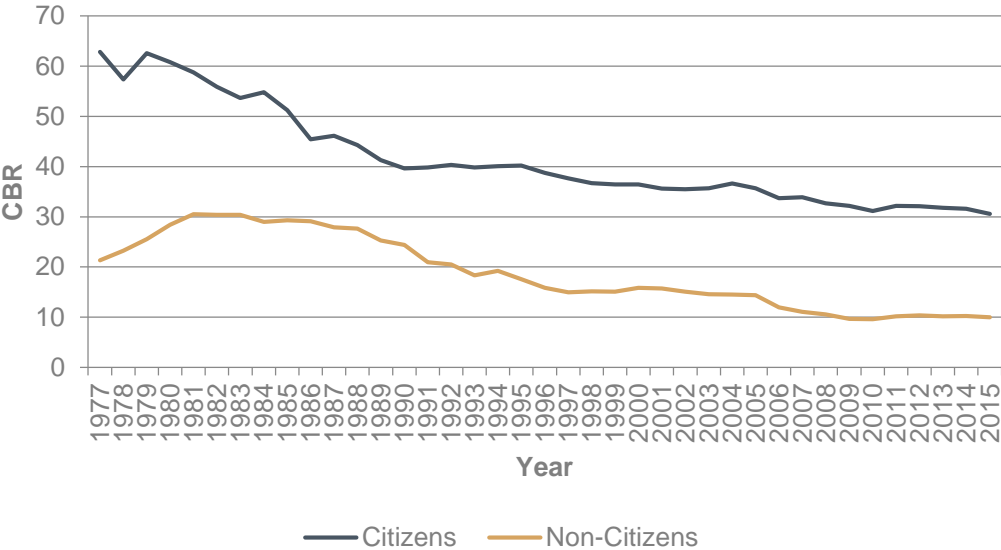
Source: Statistics Centre - Abu Dhabi

Crude Birth Rate

Statistics show a noticeable gradual reduction of the Crude Birth Rate (CBR) over the years from 2005 to 2015 in the Emirate. The CBR in 2005 was 19.7 births per 1000 population, dropping to 14.1 in 2010, before arriving at 13.9 births per 1000 population in 2015.

Declining Crude Birth Rates were experienced in both the citizen and non-citizen populations. The CBR for citizens decreased from 35.7 in 2005 to 31.2 in 2010, followed by a decline to 30.6 in 2015. With respect to non-citizens, there was a decline from 14.4 in 2005 to 10.0 in 2015.

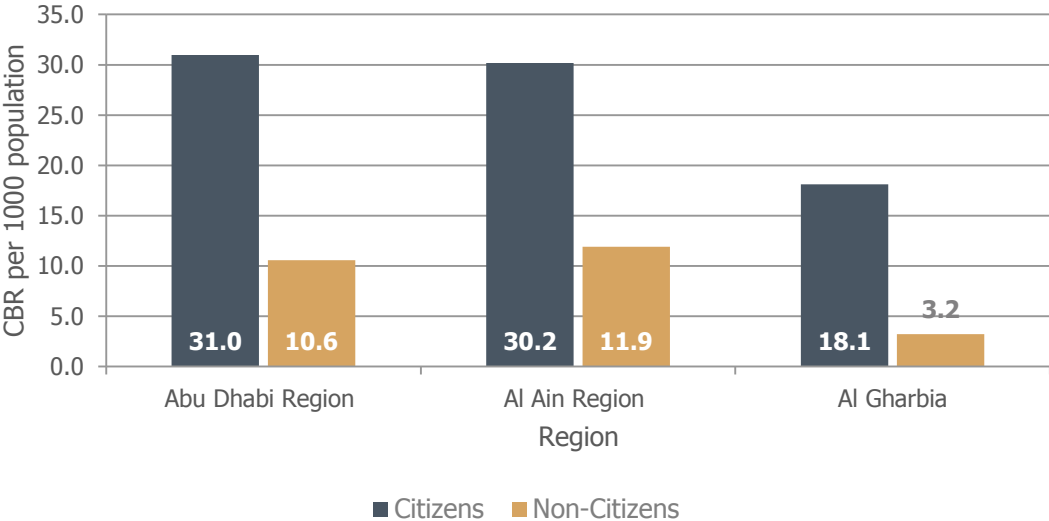
Figure 5: Crude Birth Rate by Citizenship, Abu Dhabi Emirate, 1977 to 2015



Source: Statistics Centre - Abu Dhabi

CBR varies by citizenship and region as shown in Figure 6. For citizens, the CBR was highest in Abu Dhabi Region at 31.0 births per 1000 population and lowest in Al Gharbia with 18.1. While, the CBR for non-citizens reached its maximum in Al Ain Region with 11.9 births per 1000 population, while the lowest rate was in Al Gharbia with 3.2.

Figure 6: Crude Birth Rate by Citizenship and Region, Abu Dhabi Emirate, 2015



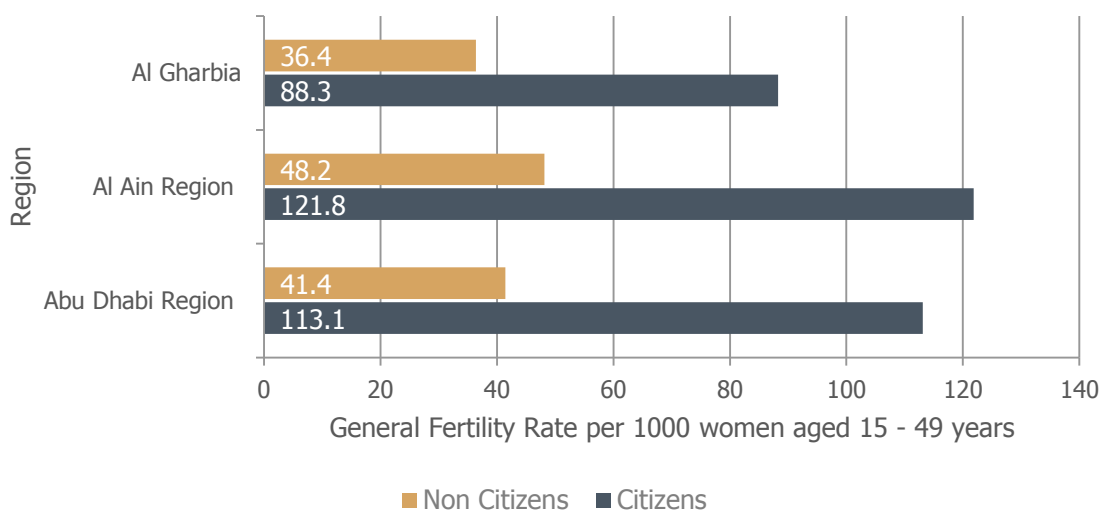
Source: Statistics Centre - Abu Dhabi

General Fertility Rate

Comparing General Fertility Rate (GFR) in 2015 by citizenship, it is noticed that female citizens have higher GFR than female non-citizens throughout the whole Emirate and in each of the regions. Consequently, the indicator shows that for every 1000 female citizens within the reproductive age (15-49 years) there were 118 babies born and for every 1000 female non-citizens within the reproductive age (15-49 years) there were 43 babies born.

By comparing GFR among regions, Al Ain Region witnessed the highest GFR with 121.8 births per 1000 female citizens within the reproductive age and 48.2 births for female non-citizens. The GFR is the lowest in Al Gharbia with 88.3 births per 1000 female citizens and 36.4 per 1000 female non-citizens.

Figure 7: General Fertility Rate by Region and Citizenship, Abu Dhabi Emirate, 2015



Source: Statistics Centre - Abu Dhabi

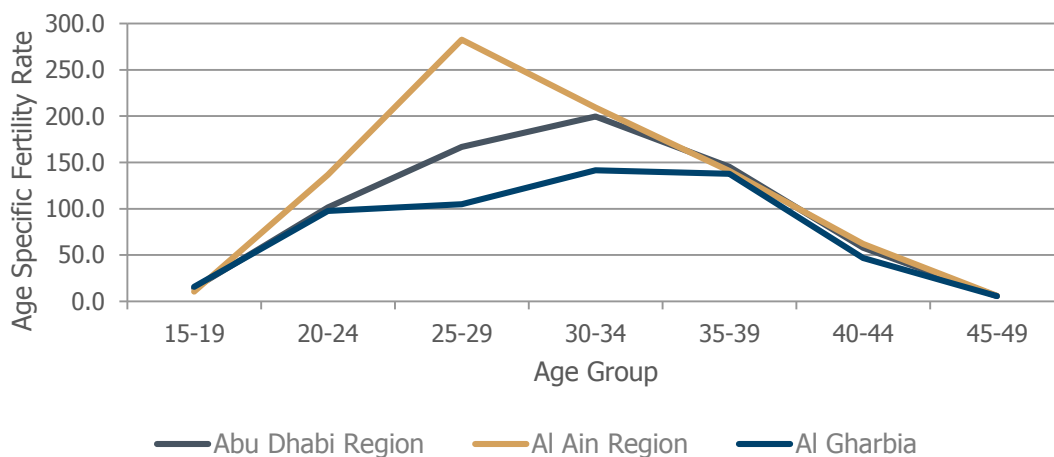
Age-Specific Fertility Rates

Age is an essential factor in understanding fertility differences in a population. Generally speaking, the fertility rate is relatively low in the youngest female reproductive age group (15 - 19 years), then rises dramatically until it reaches its peak rate either in the age group (25 - 29 years) or (30 - 34 years), and decreases until it reaches the lowest rate in the oldest age group (45 - 49 years).

In 2015, the ASFR for the age group (15 - 19 years) was 10.3 for the Emirate, which means that there were about 10 babies born per 1000 women in this teenage group. The ASFR reached its peak in the age group (30 - 34 years) with 91.0 births per 1000 women. Only 2.9 babies were born per 1000 women aged (45 - 49 years).

Al Ain Region reported 282.4 births per 1000 female citizens in the age group (25 - 29 years) and 209.3 in (30 - 34 years).

Figure 8: Age-Specific Fertility Rates for Citizens by Age Group and Region, Abu Dhabi Emirate, 2015



Source: Statistics Centre - Abu Dhabi

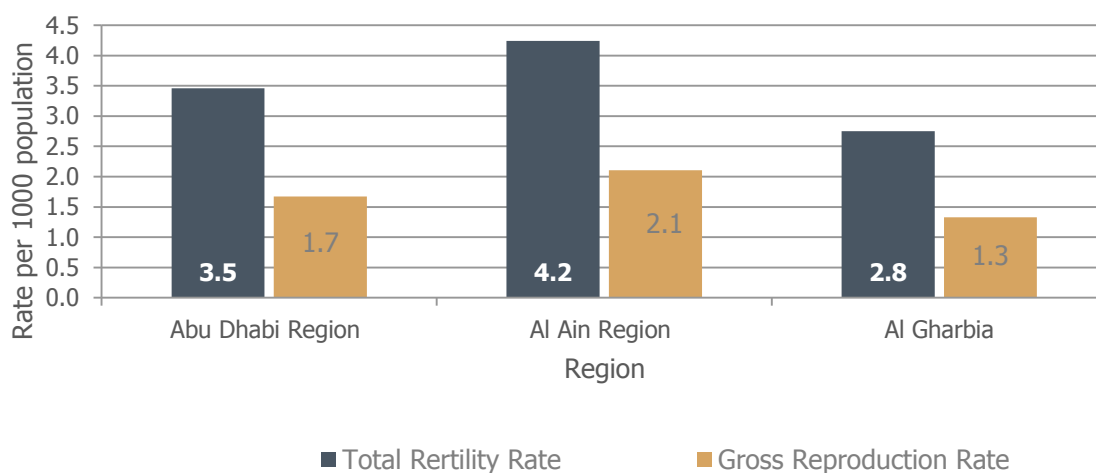
Total Fertility Rate

In 2015, Total Fertility Rate (TFR) in Abu Dhabi Emirate reached 1.7 babies per woman of reproductive age (15 - 49 years). This indicator varies from one region to another. The TFR was 1.3 in Al Gharbia, 1.5 in Abu Dhabi Region, and 2.1 in Al Ain Region.

The TFR for citizens was 3.8 for Abu Dhabi Emirate, while the TFR was 1.2 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 4.2 babies per woman, followed by Abu Dhabi and Al Gharbia with 3.5 and 2.8 babies, respectively.

On the other hand, the Gross Reproduction Rate (GRR) in Abu Dhabi Emirate was 1.8 children per woman during her reproductive life, and this means that the generation of females who have been born in 2015 is able to replace the generation of mothers. The GRR for citizens in Al Ain Region was the highest with 2.1 babies per woman followed by Abu Dhabi and Al Gharbia with 1.7 and 1.3 babies, respectively.

Figure 9: Total Fertility Rate and Gross Reproduction Rate for Female Citizens by Region, Abu Dhabi Emirate, 2015



Source: Statistics Centre - Abu Dhabi

Statistical Tables

Table 1: Births by Citizenship, Gender and Region, Abu Dhabi Emirate, 2015

Citizenship / Gender	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
Grand Total	23,839	13,009	1,498	38,818
Males	12,305	6,639	761	19,944
Females	11,534	6,370	737	18,874
Citizens	8,564	6,941	550	16,405
Males	4,414	3,511	285	8,391
Females	4,150	3,430	265	8,014
Non-Citizens	15,272	6,068	948	22,410
Males	7,889	3,128	476	11,551
Females	7,383	2,940	472	10,859

*Including 268 not stated Region and 54 not stated Citizenship was registered in HAAD.

Source: Health Authority – Abu Dhabi

Table 2-A: Births by Month, Citizenship and Gender, Abu Dhabi Emirate, 2015

Month	Gender & Citizenship								
	Citizens			Non-Citizens			Total		
	Males	Females	Total	Males	Females	Total	Males	Females	Total
Total	8,391	8,014	16,405	11,551	10,859	22,410	19,944	18,874	38,818
January	708	695	1,403	993	939	1,932	1,702	1,634	3,336
February	596	588	1,184	884	849	1,733	1,480	1,437	2,917
March	655	624	1,279	931	848	1,779	1,586	1,472	3,058
April	623	605	1,228	902	858	1,760	1,525	1,463	2,988
May	677	667	1,344	995	897	1,892	1,672	1,565	3,237
June	716	621	1,337	916	894	1,810	1,633	1,515	3,148
July	698	675	1,373	894	897	1,791	1,592	1,572	3,164
August	733	696	1,429	1,007	905	1,912	1,740	1,601	3,341
September	764	727	1,491	978	920	1,898	1,742	1,647	3,389
October	744	769	1,513	1,048	986	2,034	1,792	1,755	3,547
November	741	706	1,447	1,019	943	1,962	1,760	1,649	3,409
December	736	641	1,377	984	923	1,907	1,720	1,564	3,284

Source: Health Authority – Abu Dhabi

Table 2-B: Percentage distribution of Births by Month, Citizenship and Gender, Abu Dhabi Emirate, 2015

(%)

Month	Gender & Citizenship								
	Citizens			Non-Citizens			Total		
	Males	Females	Total	Males	Females	Total	Males	Females	Total
Total	100	100	100	100	100	100	100	100	100
January	8.4	8.7	8.6	8.6	8.6	8.6	8.5	8.7	8.6
February	7.1	7.3	7.2	7.7	7.8	7.7	7.4	7.6	7.5
March	7.8	7.8	7.8	8.1	7.8	7.9	8.0	7.8	7.9
April	7.4	7.5	7.5	7.8	7.9	7.9	7.6	7.8	7.7
May	8.1	8.3	8.2	8.6	8.3	8.4	8.4	8.3	8.3
June	8.5	7.7	8.1	7.9	8.2	8.1	8.2	8.0	8.1
July	8.3	8.4	8.4	7.7	8.3	8.0	8.0	8.3	8.2
August	8.7	8.7	8.7	8.7	8.3	8.5	8.7	8.5	8.6
September	9.1	9.1	9.1	8.5	8.5	8.5	8.7	8.7	8.7
October	8.9	9.6	9.2	9.1	9.1	9.1	9.0	9.3	9.1
November	8.8	8.8	8.8	8.8	8.7	8.8	8.8	8.7	8.8
December	8.8	8.0	8.4	8.5	8.5	8.5	8.6	8.3	8.5

Source: Statistics Centre – Abu Dhabi

Table 3: Sex Ratio at Birth by Year & Citizenship, Abu Dhabi Emirate, 2005, 2010, 2014 and 2015

(Males per 100 Female)

Year	Citizens	Non-Citizens	Total
2005	105.2	107.2	106.3
2010	102.3	106.1	104.4
2014	104.1	106.1	105.2
2015	104.7	106.4	105.7

Source: Statistics Centre – Abu Dhabi

Table 4: Sex Ratio at Birth by Citizenship and Region, Abu Dhabi Emirate, 2015

(Males per 100 Female)

Citizenship	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
Grand Total	106.7	104.2	103.3	105.7
Citizens	106.4	102.4	107.5	104.7
Non-Citizens	106.9	106.4	100.8	106.4

Source: Statistics Centre – Abu Dhabi

Table 5: Crude Birth Rate by Citizenship, Abu Dhabi Emirate, 2005, 2010, 2014 and 2015

(births per 1000 Population)

Citizenship	2005	2010	2014	2015
Total	19.7	14.1	14.3	13.9
Citizens	35.7	31.2	31.6	30.6
Non-Citizens	14.4	9.6	10.2	10.0

Source: Statistics Centre – Abu Dhabi

Table 6: Crude Birth Rate by Citizenship and Region, Abu Dhabi Emirate, 2015

(births per 1000 Population)

Citizenship	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
Grand Total	13.9	17.6	4.6	13.9
Citizens	31.0	30.2	18.1	30.6
Non-Citizens	10.6	11.9	3.2	10.0

Source: Statistics Centre – Abu Dhabi

Table 7: General Fertility Rate by Citizenship and Region, Abu Dhabi Emirate, 2015

(births per 1000 women aged 15 - 49 years)

Citizenship	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
Total	53.7	71.2	46.4	58.9
Citizens	113.1	121.8	88.3	118.1
Non-Citizens	41.4	48.2	36.4	43.0

Source: Statistics Centre – Abu Dhabi

Table 8: General Fertility Rate by Year and Region, Abu Dhabi Emirate, 2014 and 2015

(births per 1000 women aged 15 - 49 years)

Year	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
2014	58.5	73.8	47.7	62.7
2015	53.7	71.2	46.4	58.9

Source: Statistics Centre – Abu Dhabi

Table 9: Age Specific Fertility Rate by Age Group and Region, Abu Dhabi Emirate, 2015

(births per 1000 women aged 15-49 years)

Group Age	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
19-15	9.5	11.0	11.1	10.3
24-20	48.8	66.4	47.3	54.8
29-25	81.4	106.3	65.7	88.2
34-30	82.8	114.1	67.8	91.0
39-35	56.8	84.9	54.7	64.9
44-40	18.9	36.1	19.2	23.6
49-45	1.9	4.9	3.1	2.9

Source: Statistics Centre – Abu Dhabi

Table 10: Age Specific Fertility Rates for Citizens by Age Group and Region, Abu Dhabi Emirate, 2015

(births per 1000 women aged 15-49 years)

Group Age	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
19-15	14.5	10.5	15.7	13.0
24-20	101.5	136.6	97.5	117.0
29-25	166.8	282.4	105.0	202.0
34-30	199.7	209.3	141.6	204.8
39-35	145.3	140.8	137.8	146.1
44-40	58.0	62.1	46.8	61.2
49-45	5.6	5.9	5.6	7.2

Source: Statistics Centre – Abu Dhabi

Table 11: Age Specific Fertility Rates for Non-Citizens by Age Group and Region, Abu Dhabi Emirate, 2015

(births per 1000 women aged 15-49 years)

Group Age	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
19-15	7.6	11.7	9.4	8.8
24-20	34.7	37.8	33.7	36.0
29-25	64.8	63.2	55.6	64.3
34-30	64.2	77.1	52.3	66.8
39-35	41.7	58.1	40.5	45.6
44-40	12.1	23.9	14.1	14.8
49-45	1.2	4.3	2.5	1.9

Source: Statistics Centre – Abu Dhabi

Table 12: Total Fertility Rate by Citizenship and Region, Abu Dhabi Emirate, 2015

Citizenship	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
Total	1.5	2.1	1.3	1.7
Citizens	3.5	4.2	2.8	3.8
Non-citizens	1.1	1.4	1.0	1.2

Source: Statistics Centre – Abu Dhabi

Table 13: Gross reproduction Rate by Citizenship and Region, Abu Dhabi Emirate, 2015

Citizenship	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
Total	0.7	1.0	0.6	0.8
Citizens	1.7	2.1	1.3	1.8
Non-citizens	0.5	0.6	0.5	0.6

Source: Statistics Centre – Abu Dhabi

Table 14: Median Age of Mother by Citizenship and Region, Abu Dhabi Emirate, 2015

Citizenship	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
Total	30.0	29.0	29.0	30.0
Citizen Females	29.0	30.0	30.0	30.0
Non-Citizen Females	29.0	30.0	30.0	29.0

Source: Statistics Centre – Abu Dhabi

Table 15: Population Estimates by Region, Citizenships and Gender, Abu Dhabi Emirate, Mid 2015

Gender / Citizenship	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
Grand Total	1,720,211	738,481	325,798	2,784,490
Males	1,101,916	454,159	275,666	1,831,741
Females	618,295	284,322	50,132	952,749
Citizens	276,374	230,025	30,342	536,741
Males	140,176	117,300	18,474	275,950
Females	136,198	112,725	11,868	260,791
Non-Citizens	1,443,837	508,456	295,456	2,247,749
Males	961,740	336,859	257,192	1,555,791
Females	482,097	171,597	38,264	691,958

Source: Statistics Centre – Abu Dhabi

Explanatory Notes

Glossary

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

Median age of mother

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

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.)

Gross Reproduction Rate

Average number of daughters that would be born to a woman during her lifetime if she passed through her reproductive years conforming to the age-specific fertility rates of a given year.

$$5 * \frac{\sum \text{Age Specific Fertility Rate (5 age group)}}{\text{Number of live births daughters during the year}}$$

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.

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

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 reproductive years (15-49 years). Its calculation assumes that there is no mortality. It is expressed as children per woman.

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

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.

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

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.

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

Data sources

Data are obtained from HAAD as preliminary data for 2015 in May 2016. 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 led to a significant difference in 2011 and 2012 compared to previous years. This system was tested in mid-2010.

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 2017.

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

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