



مرکز الإحصاء
STATISTICS CENTRE

Birth Statistics 2013

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Introduction

This report presents statistics on registered live births in Abu Dhabi Emirate during 2013. Statistics on live births in the years 2003, 2008 and 2012 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 and average age of mother, 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, 2013

Live Births	35,945*
Citizens	15,576
Non-Citizens	20,316
*Including 53 cases with not stated citizenship.	
Sex Ratio at Birth (Males per 100 Females)	103.6
Citizens	104.5
Non-Citizens	102.9
Crude Birth Rate (Per 1000 Population)	14.7
Citizens	31.4
Non-Citizens	10.4
General Fertility Rate (Births Per 1000 women Aged 15-49 years)	78.8
Female Citizens	108.5
Females Non-Citizens	67.2
Total Fertility Rate	2.2
Female Citizens	3.4
Female Non-Citizens	1.9

Key Points

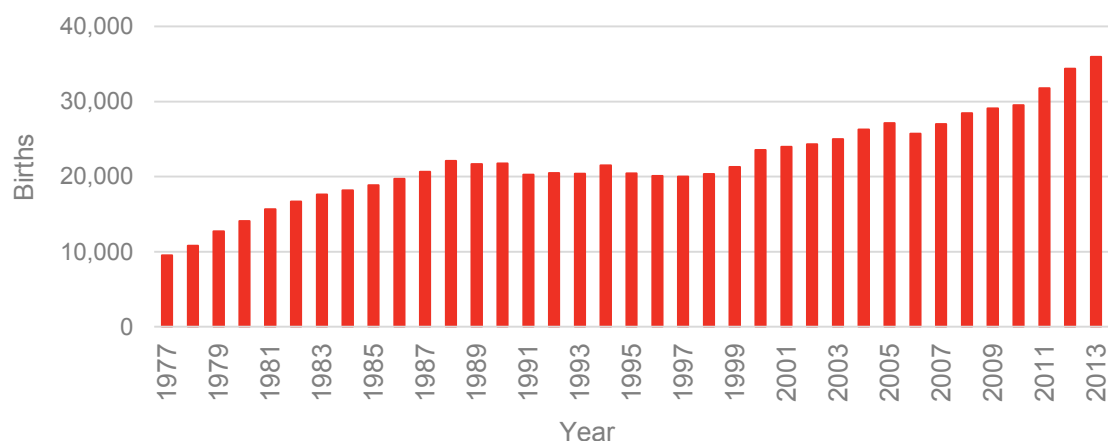
- There were 35,945 live births registered in Abu Dhabi Emirate in 2013, compared with 24,990 in 2003, representing a rise of 43.8% during last 10 years.
- The Crude Birth Rate was 14.7 births (per 1000 population) in 2013, decreasing from 19.8 births in 2003.
- In 2013, the General Fertility Rate was 78.8 births per 1000 women of reproductive age (15-49 years), decreasing from 85.4 births in 2008.

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 2013 reaching 35,945 live births, representing an increase of four times during this period (277.4%).

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 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 2013



Source: Ministry of Health (1977-2005), Health Authority – Abu Dhabi (2006-2013)

Figure 1- B: Annual Change Rate in Live Births, Abu Dhabi Emirate, 1977 to 2013



Source: Statistics Centre – Abu Dhabi (SCAD)

Live Births by Citizenship and Region

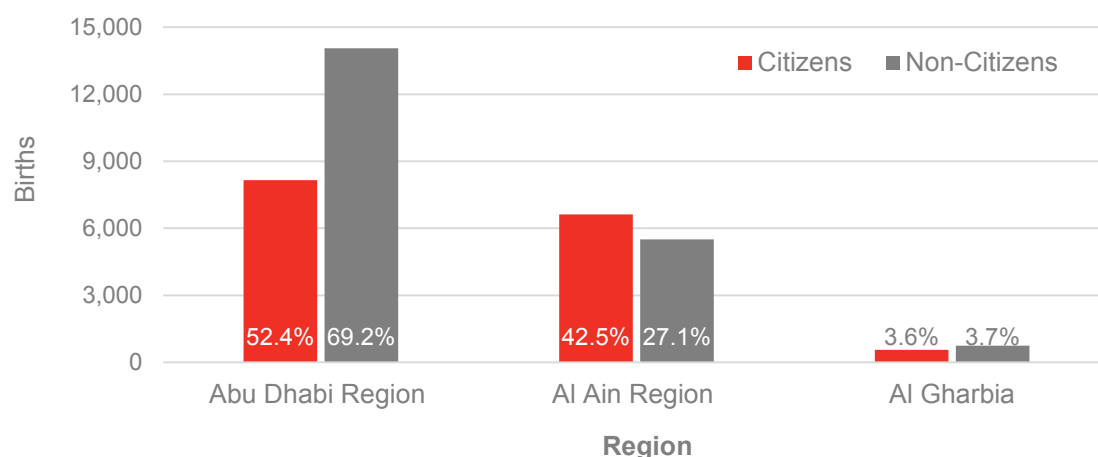
Administrative records showed that there was no relative difference between citizens and non-citizens in the change rate of registered births during the period from 2003 to 2013. The number of non-citizen births (20,316 live births) was higher than number of citizen births (15,576 live births) in 2013

In 2013, more than half of citizen babies were born in Abu Dhabi Region with 52.4%, followed by Al Ain Region with 42.5%, and Al Gharbia with 3.6% of the total citizen births.

With respect to non-citizen births, Abu Dhabi Region accounted for more than of two-thirds (69.2%), Al Ain Region for more than one-quarter (27.1%), while the percentage in Al Gharbia was 3.7%.

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, 2013



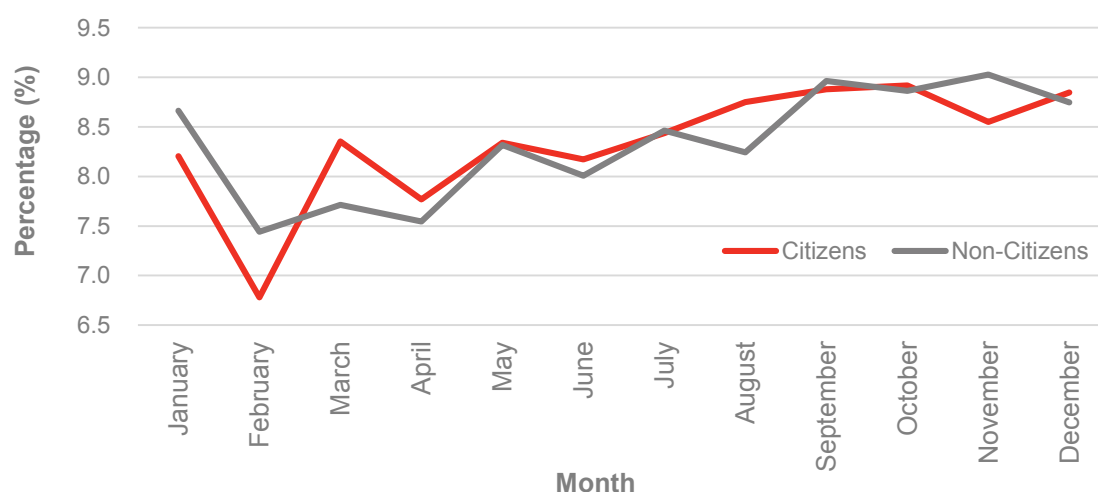
Source: Statistics Centre – Abu Dhabi

Live Births by Months

The chart below shows the relative distribution of births for each month by citizenship in 2013. It reveals a great deal of volatility between months.

The percentage 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 the average 7.9% per month. This average percentage increased in the next quarter to 8.0%, and in the third quarter, it increased to reach 8.6. Subsequently it increased slightly to 8.8% in the fourth quarter. Births peaked in September and October with 8.9%, while the lowest proportion was in February at 7.2% (a range of 1.7 percentage points).

Figure 3: Percentage Distribution of Live Births by Month and Citizenship, Abu Dhabi Emirate, 2013



Source: Statistics Centre – Abu Dhabi (SCAD)

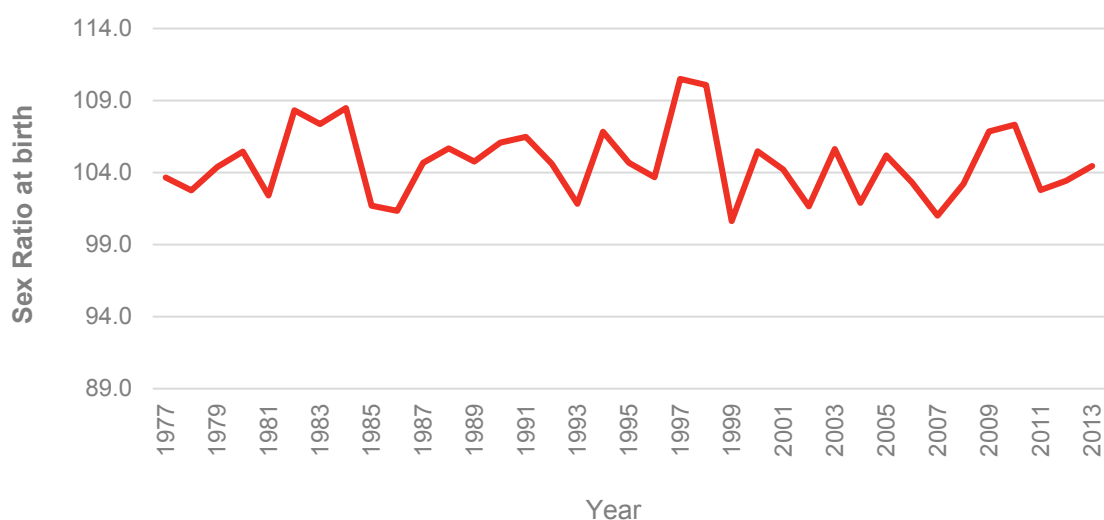
Sex Ratio at Birth

Statistics of the Emirate of Abu Dhabi show that the Sex Ratio at Birth for total births ranged from 104.4 males per 100 females in 2003 to 103.6 in 2013.

With respect to citizen births, the sex ratio was 105.6, 103.2, 103.4 for 2003, 2008 and 2012 respectively. It increased again to 104.5 in 2013.

The sex ratio for non-citizen births was 103.3 in 2003, increasing to 108.0 in 2008, and then declining to 103.3 and 102.9 in 2012 and 2013 respectively.

Figure 4: Sex Ratio at Birth for Citizens, Abu Dhabi Emirate, 1977 to 2013



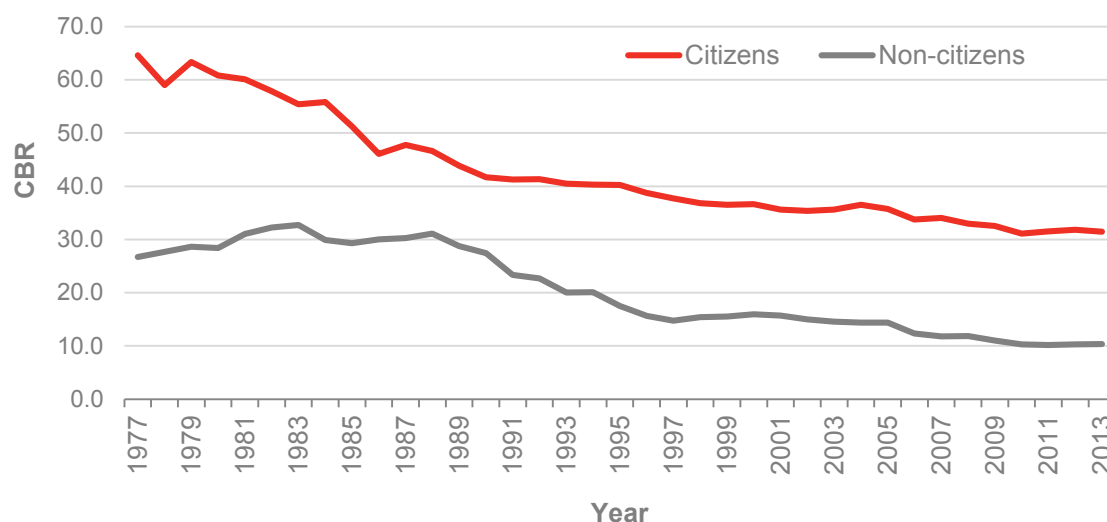
Source: Statistics Centre – Abu Dhabi (SCAD)

Crude Birth Rate

Statistics show a noticeable gradual reduction of the Crude Birth Rate (CBR) over the years 2003, 2008, 2012 and 2013 across the Emirate. The CBR in 2003 was 19.8 births per 1000 population, dropping to 16.8 in 2008, before reaching 14.7 births per 1000 population in both 2012 and 2013.

Declining Crude Birth Rates were experienced in both the citizen and non-citizen populations. The CBR for citizens decreased from 35.6 in 2003 to 33.0 in 2008, followed by a decline to 31.8 in 2012 to 31.4 in 2013. With respect to non-citizens, there was a decline from 14.5 in 2003 to 10.4 in 2013.

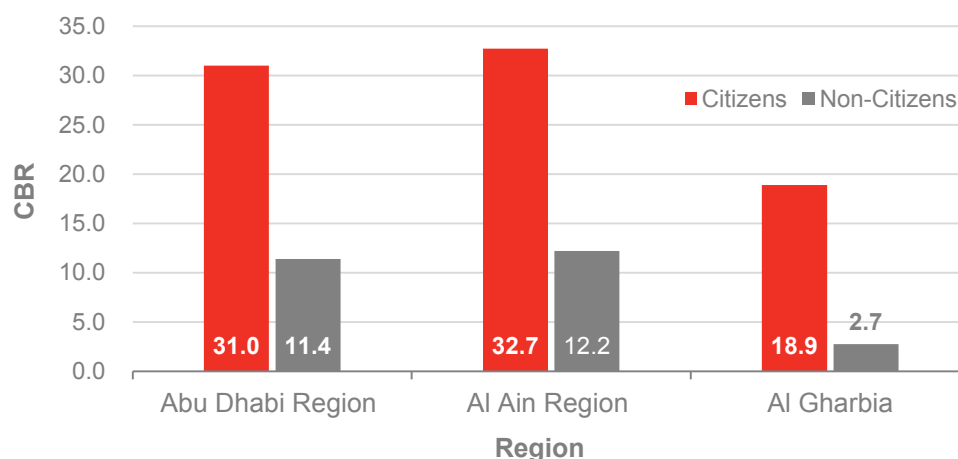
Figure 5: Crude Birth Rate (per 1000 population) by Citizenship, Abu Dhabi Emirate, 1977 to 2013



Source: Statistics Centre – Abu Dhabi (SCAD)

CBR varies by citizenship and region as shown in Figure 6. For citizens, the CBR was highest in Al Ain Region at 32.7 births per 1000 population and the lowest in Al Gharbia with 18.9. Similarly, the CBR for non-citizens reached its maximum in Al Ain Region with 12.2 births per 1000 population, while the lowest rate was in Al Gharbia with 2.7.

Figure 6: Crude Birth Rate (per 1000 population) by Citizenship and Region, Abu Dhabi Emirate, 2013



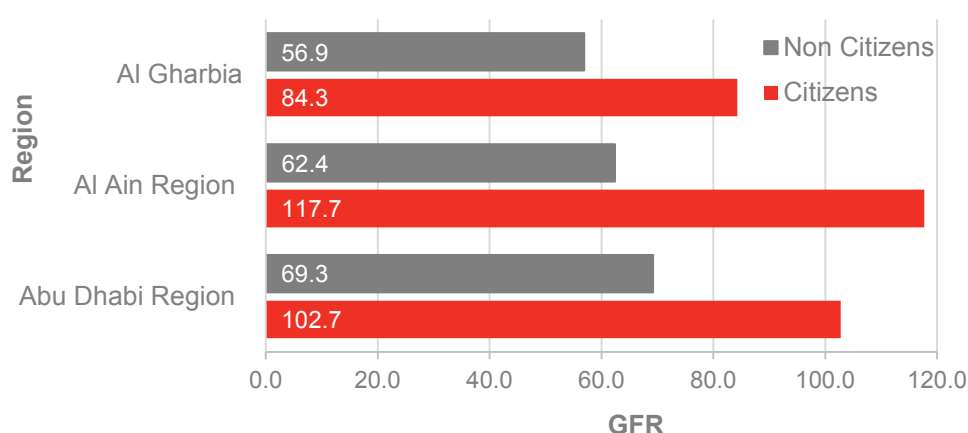
Source: Statistics Centre – Abu Dhabi (SCAD)

General Fertility Rate

Comparing General Fertility Rate (GFR) in 2013 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 108.5 babies born and for every 1000 female non-citizens within the reproductive age (15-49 years) there were 67.2 babies born.

By comparing GFR among regions, Al Ain Region witnessed the highest GFR with 117.7 births per 1000 citizen females within the reproductive age and 62.4 births for non-citizen females. The GFR is the lowest in Al Gharbia with 84.3 births per 1000 female citizens and 56.9 per 1000 female non-citizens.

Figure 7: General Fertility Rate (births per 1000 women aged 15 - 49 years) by Region and Citizenship, Abu Dhabi Emirate, 2013



Source: Statistics Centre – Abu Dhabi (SCAD)

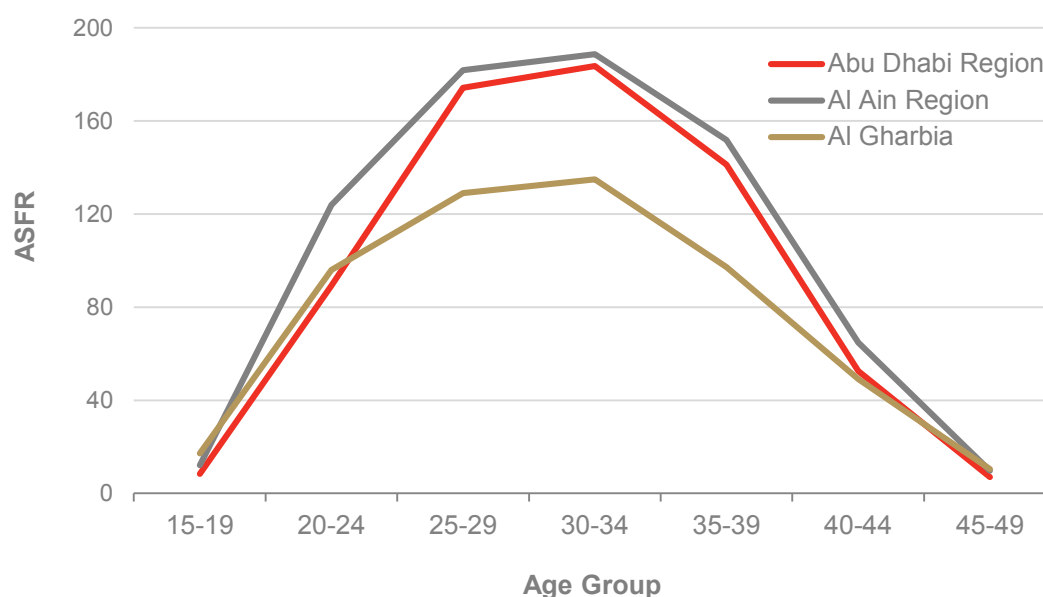
Age-Specific Fertility Rates

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 2013, the ASFR for the age group (15 - 19 years) was 14.1 for the Emirate, which means that there were about 14 babies born per 1000 women in this teenage group. The ASFR reached its peak in the age group (30 - 34 years) with 119.9 births per 1000 women. Only 4.7 babies were born per 1000 women aged (45 - 49 years).

Al Ain Region reported 181.9 births per 1000 female citizens in the age group (25 - 29 years) and 188.7 in (30 - 34 years).

Figure 8: Age-Specific Fertility Rates for Citizens by Age Group and Region, Abu Dhabi Emirate, 2013



Source: Statistics Centre – Abu Dhabi (SCAD)

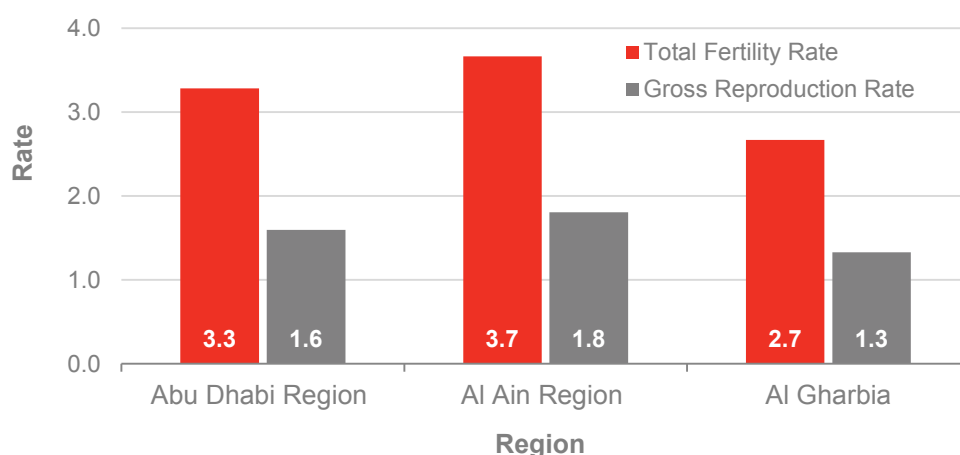
Total Fertility Rate

In 2013, Total Fertility Rate (TFR) in Abu Dhabi Emirate reached 2.2 babies per woman of reproductive age (15 - 49 years). This indicator varies from one region to another. The TFR in Al Gharbia was 1.9, 2.2 in Abu Dhabi Region and 2.3 in Al Ain Region.

The TFR for citizens was 3.4 for Abu Dhabi Emirate, while the TFR was 1.9 for non-citizens, which means that the TFR for citizens was 1.8 times that of non-citizens. The TFR for citizens in Al Ain Region was the highest with 3.7 babies per woman followed by Abu Dhabi and Al Gharbia with 3.3 and 2.7 babies respectively.

On the other hand, the Gross Reproduction Rate (GRR) in Abu Dhabi Emirate was 1.1 child per woman during her reproductive life, and this means that the generation of females who have been born in 2013 is able to replace the generation of mothers. The GRR for citizens was 1.7 child per woman of reproductive age.

Figure 9: Total Fertility Rate and Gross Reproduction Rate for Female Citizens by Region, Abu Dhabi Emirate, 2013

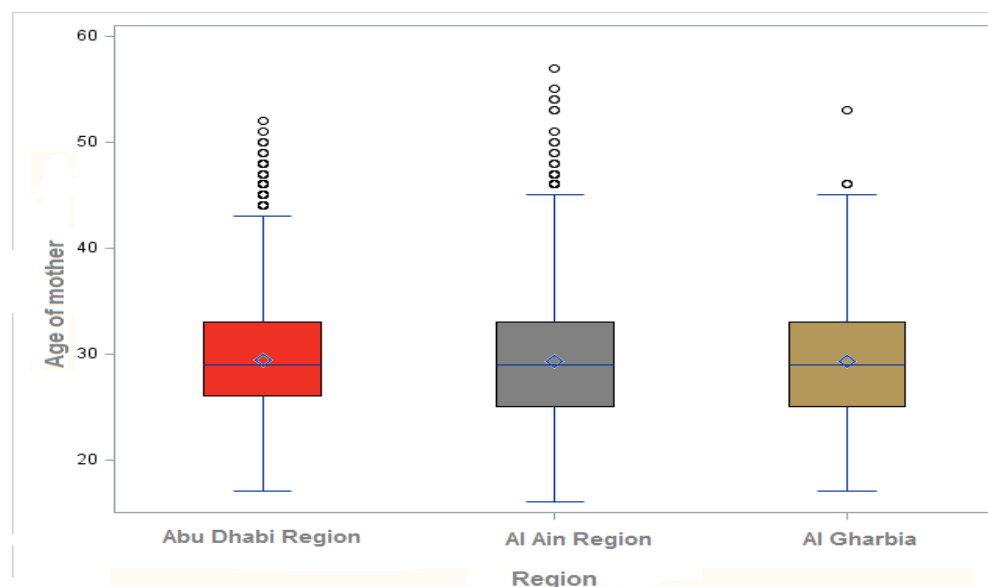


Source: Statistics Centre – Abu Dhabi (SCAD)

Average Age of Mother

The average age of mothers who gave birth in 2013 in the Emirate of Abu Dhabi was 30.2 years (29.2 years for citizens and 32.1 for non-citizens). Regional differences for average age of mother were insignificant for both citizens and non-citizens. The interquartile range (between the first mother in the second quartile and the last mother in the third quartile) shows that 50% of all mothers were between 25 and 34 years old.

Figure 10: Age distribution of mothers who gave birth by Region, Abu Dhabi Emirate, 2013



Source: Statistics Centre – Abu Dhabi (SCAD)

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Table 1: Live Births by Citizenship, Gender and Region, Abu Dhabi Emirate, 2013*

Citizenship / Gender	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
Total	22,251	12,144	1,313	35,945
Males	11,359	6,132	671	18,286
Females	10,892	6,012	642	17,659
Citizens	8,159	6,620	565	15,576
Males	4,195	3,357	284	7,958
Females	3,964	3,263	281	7,618
Non-Citizens	14,061	5,505	746	20,316
Males	7,146	2,768	386	10,301
Females	6,915	2,737	360	10,015

* Including 237 registered in HAAD but not stated Region and 53 not stated Citizenship.

Source: Health Authority - Abu Dhabi

Table 2-a: Live Births by Month, Citizenship and Gender, Abu Dhabi Emirate, 2013

Month	Citizenship / Gender								
	Citizens			Non-Citizens			Total		
	Males	Females	Total	Males	Females	Total	Males	Females	Total
Total	7,958	7,618	15,576	10,301	10,015	20,316	18,286	17,659	35,945
January	656	622	1,278	911	849	1,760	1,570	1,475	3,045
February	552	504	1,056	767	745	1,512	1,325	1,253	2,578
March	661	640	1,301	787	780	1,567	1,451	1,420	2,871
April	636	574	1,210	793	740	1,533	1,430	1,316	2,746
May	692	607	1,299	850	840	1,690	1,543	1,448	2,991
June	659	614	1,273	835	792	1,627	1,495	1,406	2,901
July	661	653	1,314	875	844	1,719	1,539	1,500	3,039
August	695	668	1,363	853	822	1,675	1,552	1,493	3,045
September	712	671	1,383	923	898	1,821	1,638	1,573	3,211
October	682	707	1,389	904	897	1,801	1,586	1,605	3,191
November	645	687	1,332	915	919	1,834	1,562	1,608	3,170
December	707	671	1,378	888	889	1,777	1,595	1,562	3,157

Source: Health Authority - Abu Dhabi

Table 2-b: Percentage Distribution of Live Births by Month, Citizenship and Gender, Abu Dhabi Emirate, 2013

Month	Citizenship / Gender								
	Citizens			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	8.2	8.2	8.8	8.5	8.7	8.6	8.4	8.5
February	6.9	6.6	6.8	7.4	7.4	7.4	7.2	7.1	7.2
March	8.3	8.4	8.4	7.6	7.8	7.7	7.9	8.0	8.0
April	8.0	7.5	7.8	7.7	7.4	7.5	7.8	7.5	7.6
May	8.7	8.0	8.3	8.3	8.4	8.3	8.4	8.2	8.3
June	8.3	8.1	8.2	8.1	7.9	8.0	8.2	8.0	8.1
July	8.3	8.6	8.4	8.5	8.4	8.5	8.4	8.5	8.5
August	8.7	8.8	8.8	8.3	8.2	8.2	8.5	8.5	8.5
September	8.9	8.8	8.9	9.0	9.0	9.0	9.0	8.9	8.9
October	8.6	9.3	8.9	8.8	9.0	8.9	8.7	9.1	8.9
November	8.1	9.0	8.6	8.9	9.2	9.0	8.5	9.1	8.8
December	8.9	8.8	8.8	8.6	8.9	8.7	8.7	8.8	8.8

Source: Statistics Centre - Abu Dhabi

Table 3: Sex Ratio at Birth by Citizenship, Abu Dhabi Emirate 2003, 2008, 2012 and 2013

Males per 100 Females

Year	Citizens	Non-Citizens	Total
2003	105.6	103.3	104.4
2008	103.2	108.0	105.7
2012	103.4	103.3	103.4
2013	104.5	102.9	103.6

Source: Statistics Centre - Abu Dhabi

Table 4: Sex Ratio at Birth by Citizenship and Region, Abu Dhabi Emirate, 2013

Males per 100 Females

Citizenship	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
Total	104.3	102.0	104.5	103.6
Citizens	105.8	102.9	101.1	104.5
Non-Citizens	103.3	101.1	107.2	102.9

Source: Statistics Centre - Abu Dhabi

Table 5: Crude Birth Rate (CBR) (per 1000 population) by Citizenship, Abu Dhabi Emirate 2003, 2008, 2012 and 2013

Citizenship	2003	2008	2012	2013
Total	19.8	16.8	14.7	14.7
Citizens	35.6	33.0	31.8	31.4
Non-Citizens	14.5	11.8	10.3	10.4

Source: Statistics Centre - Abu Dhabi

Table 6: Crude Birth Rate (CBR) (per 1000 population) by Citizenship and Region, Abu Dhabi Emirate, 2013

Citizenship	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
Total	14.8	18.6	4.4	14.7
Citizens	31.0	32.7	18.9	31.4
Non-Citizens	11.4	12.2	2.7	10.4

Source: Statistics Centre - Abu Dhabi

Table 7: General Fertility Rate (GFR) (births per 1000 women aged 15 - 49 years) by Citizenship and Region, Abu Dhabi Emirate, 2013

Citizenship	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
Total	77.5	81.5	65.6	78.8
Citizens	102.7	117.7	84.3	108.5
Non-Citizens	69.3	62.4	56.9	67.2

Source: Statistics Centre - Abu Dhabi

Table 8: General Fertility Rate (GFR) (births per 1000 women aged 15-49 years) by Region, Abu Dhabi Emirate 2008, 2012 and 2013

Year	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
2008	80.6	99.9	54.6	85.4
2012	76.8	84.9	62.4	79.4
2013	77.5	81.5	65.6	78.8

Source: Statistics Centre - Abu Dhabi

Table 9: Age-Specific Fertility Rates (ASFR) (births per 1000 women aged 15-49 years) by Region, Abu Dhabi Emirate, 2013

Year	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
15 - 19	13.2	14.8	14.5	14.1
20 - 24	79.2	83.4	72.1	80.8
25 - 29	121.5	113.8	94.7	118.5
30 - 34	119.4	121.0	102.2	119.9
35 - 39	75.3	93.3	69.5	81.0
40 - 44	25.3	36.2	26.3	28.7
45 - 49	3.2	6.3	8.1	4.7

Source: Statistics Centre - Abu Dhabi

Table 10: Age-Specific Fertility Rates (ASFR) (births per 1000 women aged 15-49 years) for Citizen Females by Region, Abu Dhabi Emirate, 2013

Year	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
15 - 19	8.4	12.0	17.1	10.4
20 - 24	89.3	123.9	96.0	103.0
25 - 29	174.3	181.9	129.0	176.1
30 - 34	183.6	188.7	134.9	184.7
35 - 39	141.3	151.9	97.3	144.7
40 - 44	52.6	64.7	49.0	57.4
45 - 49	7.0	9.8	10.4	8.9

Source: Statistics Centre - Abu Dhabi

Table 11: Age-Specific Fertility Rates (ASFR) (births per 1000 women aged 15-49 years) for Non-Citizen Females by Region, Abu Dhabi Emirate, 2013

Year	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
15 - 19	16.8	17.9	12.2	17.3
20 - 24	75.0	64.1	59.6	71.1
25 - 29	107.7	84.7	79.9	100.0
30 - 34	102.7	87.7	89.3	98.4
35 - 39	58.4	64.9	59.9	60.4
40 - 44	18.1	22.3	18.8	19.4
45 - 49	2.1	4.4	7.1	3.3

Source: Statistics Centre - Abu Dhabi

Table 12: Total Fertility Rate (TFR) (births per 1000 women aged 15-49 years) by Citizenship and Region, Abu Dhabi Emirate, 2013

Citizenship	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
Total	2.2	2.3	1.9	2.2
Female Citizens	3.3	3.7	2.7	3.4
Female Non-Citizens	1.9	1.7	1.6	1.9

Source: Statistics Centre - Abu Dhabi

Table 13: Gross Reproduction Rate (GRR) by Citizenship and Region, Abu Dhabi Emirate, 2013

Citizenship	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
Total	1.1	1.2	0.9	1.1
Female Citizens	1.6	1.8	1.3	1.7
Female Non-Citizens	0.9	0.9	0.8	0.9

Source: Statistics Centre - Abu Dhabi

Table 14: Average Age of Mother by Citizenship and Region, Abu Dhabi Emirate, 2013

Citizenship	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
Total	29.4	29.3	29.3	30.2
Female Citizens	29.9	29.6	28.8	29.2
Female Non-Citizens	29.2	29.0	29.6	32.1

Source: Statistics Centre - Abu Dhabi

Table 15: Population Estimates by Region, Citizenship and Gender, Abu Dhabi Emirate, 2013

Citizenship / Gender	Abu Dhabi Region	Al Ain Region	Al Gharbia	Abu Dhabi Emirate
Total	1,498,509	653,150	301,437	2,453,096
Males	1,059,707	419,281	268,845	1,747,833
Females	438,802	233,869	32,592	705,263
Citizens	263,207	202,266	29,895	495,368
Males	135,281	102,285	17,685	255,251
Females	127,926	99,981	12,210	240,117
Non-Citizens	1,235,302	450,884	271,542	1,957,728
Males	924,426	316,996	251,160	1,492,582
Females	310,876	133,888	20,382	465,146

Source: Statistics Centre - Abu Dhabi

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.

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

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.

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

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.)

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

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

Data sources

Data are obtained from HAAD as final data for 2013 in July 2014. 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 difference in 2011 and 2012 compared 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

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 September 2015.



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