



مركز الإحصاء - أبوظبي  
STATISTICS CENTRE - ABU DHABI



# Agricultural Statistics 2011

Issued in October 2012

## Foreword

Statistics Centre – Abu Dhabi is pleased to provide decision and policy makers, businessmen, researchers, and all those concerned with agricultural statistics and indicators, with the third edition of the Agricultural Bulletin, which sheds light on and accurately monitors indicators and evidences of the comprehensive agricultural development in the Emirate of Abu Dhabi during 2011, under the wise leadership of H.H. Sheikh Khalifa Bin Zayed Al Nahyan – President of the UAE and Ruler of Abu Dhabi; in addition to the unlimited support of H.H. General Sheikh Mohammed Bin Zayed Al Nahyan – Crown Prince of Abu Dhabi, Deputy Supreme Commander of the Armed Forces, and Chairman of the Executive Council of Abu Dhabi.

The report tackles in detail all aspects of the agricultural sector, whose importance stems from the fact that it consists of a large array of analytical statistics and indicators that assist in pursuing the directives of this sector; in addition to studying them in-depth and analyzing their effect to forecast the future, and develop integrated policies and strategies; in fulfillment of sustainable development of the agricultural sector that corresponds to the Abu Dhabi Vision 2030.

Further, the report consists of many detailed statistical tables that cover numerous agricultural indicators pertinent to all aspects of this sector, in addition to graphs and a summary of the important outcomes.

As we present to you the third edition of the Annual Agriculture Bulletin 2011, we look forward to receiving your suggestions and comments to develop this significant annual publication in terms of coverage, quality of data and analysis, in order to offer decision makers and all those concerned with agricultural statistics and indicators of Abu Dhabi agriculture development.

On this occasion, I am pleased to pay tribute to the cooperation of the Abu Dhabi Food Control Authority, Department of Municipal Affairs - Abu Dhabi, Environment Agency - Abu Dhabi and all our strategic partners, government departments and entities that have contributed in providing most of the data used in this bulletin.

Best Regards,

Butti Ahmed Mohammed Butti Al Qubaisi  
Director General

## Contents

	<b>Subject</b>	<b>Page</b>
	Foreword	2
	Summary of agricultural indicators	6
	Introduction	7
<b>1</b>	<b>Plant Production Statistics</b>	<b>8</b>
1.1	Introduction	9
1.2	Plant holdings	9
1.3	land use	20
1.4	Fruit trees	21
1.5	Field crops	31
1.6	Vegetables	35
1.7	Area of greenhouse	39
1.8	Forests	43
1.9	Irrigated area	44
1.10	Agricultural producer price index	47
1.11	Wells	48
1.12	Loans given to the farmers	48
1.13	Agricultural pesticides	50
<b>2</b>	<b>Foreign Trade of Agricultural Commodities</b>	<b>51</b>
2.1	Introduction	52
<b>3</b>	<b>Annex</b>	<b>56</b>
	<b>Explanatory notes</b>	<b>57</b>
	Definitions and classifications	57
	Data source	58
	Notes on table	58
	More information	58

---

## List of Tables

Table no.		Page
<b>1. Plant production statistics</b>		
1.1	Number and area of plant holdings by region, 1986 to 2011	10
1.2	Number and area of plant holdings by region, 2005 to 2011	11
1.3	Number and area of plant holdings by region, 2011	12
1.4	Number and area of plant holdings by region In Abu Dhabi, 2011	13
1.5	Number and area of plant holdings by region In Al Ain, 2011	13
1.6	Number and area of plant holdings by region In Al Gharbia, 2011	14
1.7	Number and area of plant holdings by type of area category and region, 2011	14
1.8	Number and area of plant holdings by area category and region in Abu Dhabi, 2011	14
1.9	Number and area of plant holdings by type of area category and region in Al Ain, 2011	15
1.10	Number and area of plant holdings by type of area category and region in Al Gharbia, 2011	16
1.11	Number and area of working plant holdings by region, 2009 to 2011	16
1.12	Number and area of working plant holdings by region in Abu Dhabi, 2011	17
1.13	Number and area of working plant holdings by region in Al Ain, 2011	18
1.14	Number and area of working plant holdings by region in Al Gharbia, 2011	19
1.15	Area of plant holdings by land use and Region, 2011	20
1.16	Number and area of fruit trees by type and region, 2011	21
1.17	Number and area of fruit trees by type and region in Abu Dhabi, 2011	22
1.18	Number and area of fruit trees by type and region in Al Ain, 2011	23
1.19	Number and area of fruit trees by type and region in Al Gharbia, 2011	25
1.20	Number and area of palm trees by region, 2011	27
1.21	Number and area of palm trees by region in Abu Dhabi, 2011	27
1.22	Number and area of palm trees by region in Al Ain, 2011	28
1.23	Number and area of palm trees by region in Al Gharbia, 2011	29
1.24	Quantity and value of dates produced by region, 2008 to 2011	29
1.25	Number and area of forest trees by type and region, 2011	30
1.26	Cultivated area, quantity and value of production of field crops by type, 2011	31
1.27	Cultivated area, quantity and value of production of field crops by type in Abu Dhabi, 2011	32
1.28	Cultivated area, quantity and value of production of field crops by type in Al Ain, 2011	32
1.29	Cultivated area, quantity and value of production of field crops by type in Al Gharbia, 2011	32
1.30	Cultivated area of field crops by region, 2007 to 2011	33
1.31	Quantity of production of field crops by region, 2007 to 2011	33
1.32	Value of production of field crops by region, 2007 to 2011	34
1.33	Cultivated area, quantity and value of production of vegetables by type of crop, 2011	35

## List of Tables

Table no.		Page
1.34	Cultivated area, quantity and value of production of vegetables by type of crop in Abu Dhabi, 2011	36
1.35	Cultivated area, quantity and value of production of vegetables by type of crop in Al Ain, 2011	37
1.36	Cultivated area, quantity and value of production of vegetables by type of crop in Al Gharbia, 2011	38
1.37	Number and area of greenhouses by region, 2008 to 2011	39
1.38	Number and area of greenhouses productive by region, 2011	40
1.39	Number and area of greenhouses productive by region in Abu Dhabi, 2011	40
1.40	Number and area of greenhouses productive by region in Al Ain, 2011	41
1.41	Number and area of greenhouses productive by region in Al Gharbia, 2011	42
1.42	Number and area of forest trees by region, 2010 and 2011	43
1.43	Irrigated areas by type of irrigation system and region, 2011	44
1.44	Irrigated areas by type of irrigation system and region in Abu Dhabi, 2011	45
1.45	Irrigated areas by type of irrigation system and region in Al Ain, 2011	45
1.46	Irrigated areas by type of irrigation system and region in Al Gharbia, 2011	46
1.47	Agricultural producer price index, 2008 to 2011	47
1.48	Number of agricultural wells by region, 2011	48
1.49	Value of loans given to the farmers by region 2005 to 2011	48
1.50	Value of loans given to the farmers by type and region, 2011	49
1.51	Quantity and value of loans given to the farmers by type in Abu Dhabi, 2011	49
1.52	Quantity and value of loans given to the farmers by type in Al Ain, 2011	49
1.53	Quantity and value of loans given to the farmers by type in Al Gharbia 2011	50
1.54	Quantity of chemicals used by type and region, 2011	50
<b>2. Foreign trade of agricultural commodities</b>		
2.1	Value of agricultural commodities imported, exported, re-exported through the Ports of the Emirate of Abu Dhabi, 2005 to 2011	53
2.2	Value of Emirate of Abu Dhabi imports of agricultural goods and foods, 2005 to 2011	54
2.3	Value of Emirate of Abu Dhabi of exports of agricultural goods and food, 2005 to 2011	54
2.4	Value of re-exports of agricultural goods and foods through the ports of the Emirate of Abu Dhabi, 2005 to 2011	54
2.5	Quantity of imports, exports and re-exports of agricultural fertilizers through the ports of the Emirate of Abu Dhabi, 2005 to 2011	55
2.6	Value of imports, exports and re-exports of agricultural fertilizers through the ports of the Emirate of Abu Dhabi, 2005 to 2011	55

## Summary of agricultural indicators

The bulletin consists of a number of statistical tables that include detailed statistical data on the agricultural sector for 2011. The hereunder are key indicators:

### Plant production statistics 2011

Indicator	Unit	Value of indicator
Total Area of agricultural holdings	donum	752,839
Number of agricultural holdings	holding	24,394
Area of working agricultural holdings	donum	704,761
Number of working agricultural holdings	holding	22,315
Area cultivated with fruit trees	donum	293,022
Area cultivated with field crops	donum	179,513
Area cultivated with vegetables	donum	10,500
Cultivated area of greenhouses	donum	3,375
Value of vegetables production	1000 AED	58,925
Value of field crops production	1000 AED	2,183,570
Number of working wells	number	49,273
Total value of loans paid to farmers	1000 AED	18,488

### Foreign trade of agricultural commodities 2011

Indicator	Unit	Value of indicator
Value of agricultural commodities imported	1000 AED	8,275,498
Value of agricultural commodities exported	1000 AED	584,835
Value of agricultural commodities re-exported	1000 AED	116,382

## Introduction

Economic development relies on the entire economic activities, including the agricultural activity, which is deemed to be a cornerstone for achieving the objectives of the overall development. The agricultural sector is one of the productive sectors contributing to the GDP, in addition to being the main source supplier of food commodities and raw materials required for many of the food industry in the Emirate of Abu Dhabi.

Thus agriculture activity was the first pillar of development, established by the late Sheikh Zayed bin Sultan Al Nahyan - may God rest his soul - and it still enjoys a continuous encouragement of H.H. Sheikh Khalifa Bin Zayed Al Nahyan – President of the UAE; in addition to the support of H.H. General Sheikh Mohammed Bin Zayed Al Nahyan – Crown Prince of Abu Dhabi, Deputy Supreme Commander of the Armed Forces, and Chairman of the Executive Council of Abu Dhabi.

Based on the significance of the agriculture activity and taking into consideration the requirements of the future, it was essential to build an agricultural database using reliable numbers and statistics as it is not possible to achieve further growth without development plans and programs that have specific goals and strategies. Those various plans can't be implemented by any country without accurate, realistic and expressive statistical data.

Therefore, statistical data and information are deemed to be base on which plans are built to develop the agricultural sector. This requires accurate and reliable statistical data that helps decision makers and policy planner to make sound decisions based on a proper scientific planning in all areas, including production, marketing and consumption.

The annual bulletin includes quantitative and qualitative statistical data on the plant production, allowing researchers and students to benefit from the data while planning - by using the past as the foundation- for development and drawing future goals and strategies. The bulletin includes data on the numbers of agricultural plant holdings "farms", size of agricultural land, indicators of crop area and quantities of agricultural production and value.

The methodology of the bulletin adopted the descriptive analysis of agricultural indicators. The bulletin relied on the agricultural data available in various government and private sources involved in the agricultural sector, especially the Abu Dhabi Food Control Authority.

Agricultural statistics is an important source that contributes to the support of the agricultural sector and to help policy and decision-makers to develop future agricultural plans.

# 1.Plant Production Statistics



## 1.1 Introduction

Plant production statistics contribute to provide data on the changes taking place in the agriculture activity from one season to another. In 2011, the areas cultivated with fruit trees accounted for 45% of the cultivated area, followed by the area cultivated with field crops at 28% and the area cultivated with vegetables at 2%. Additionally, plant production statistics create an overall image of food security showing levels of surplus or shortage in plant products, which accordingly allow drawing plans on policies of foreign trade, in terms of export and import volumes, developing plans of agricultural patterns to reduce the shortage in certain field crops, and the surplus in others.

The agricultural policy aims at enhancing contribution of the agricultural sector to achieve economic development and raise the efficiency in utilizing available agricultural resources technically, economically, and environmentally to attain sustainable development. It also aims to raise the value of agricultural production, support agricultural industries, and increase their GDP contribution; as well as establish equality in development between the agricultural sector, and other economic sectors.

## 1.2 Plant holdings

The area of plant holdings amounted to 752,839 donums in 2011, an increase of 0.7% compared with 2010. The number of holdings totaled 24394 holding.

Most of the plant holdings are located in Al region with a total number of 11,985 holding, comprising a total area of 446,898 donums and accounting for 59% of the total area of plant holdings in the Emirate of Abu Dhabi. The number of plant holdings in Al Gharbia region totaled 8,572 holding, with a total area of 210,458 donums and accounting for 28% of the total area of planet holding in the Emirate. Meanwhile, the number of plant holdings in Abu Dhabi region totaled 3,837 holding, with a total area of 95,483 donums and accounting for 13% of the total area of planet holding in the Emirate.

The majority of the total agriculture area falls within the category of 20-39 donums, accounting for 68%, followed by the category of 40-59 donmus, accounting for 16% of the total agriculture area in the Emirate of Abu Dhabi.

The number of plant holdings in Al Ain region within the category of 20-39 constitutes the majority of the total number of holdings with 79%, followed by the category of more than 60 donums with 16% of the total number of plant holdings in Al Ain region.

In Al Gharbia, the majority of the plant holdings fall within the category of 40-59 with 47%, followed by the category of 20-39 donums with 39% of the total number of plant holdings in Al Gharbai region.

**Table 1.1 Number and area of plant holdings by region, 1986 to 2011**

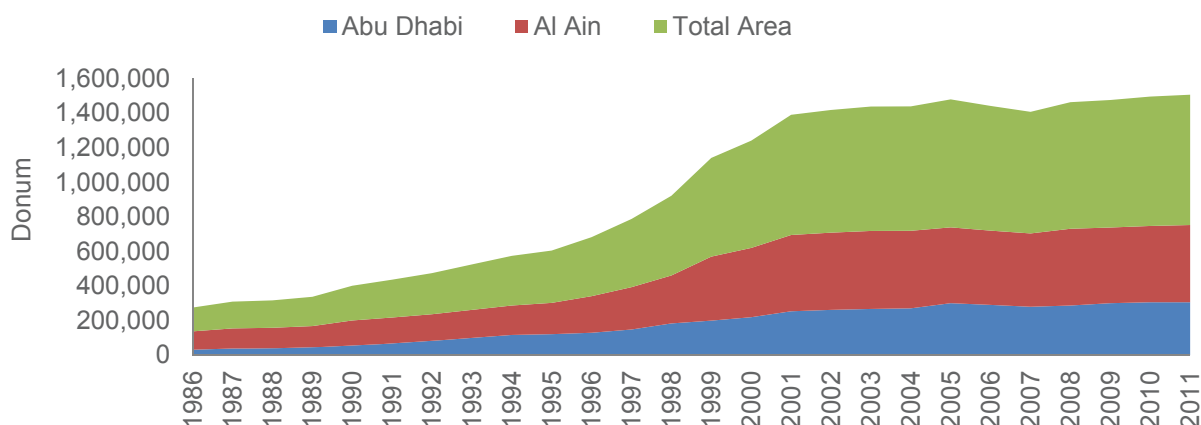
(Area in Donums)

year	Abu Dhabi *		Al Ain		Total	
	No .of holdings	Area of holdings	No .of holdings	Area of holdings	No .of holdings	Area of holdings
1986	3,027	31,612	2,228	106,244	5,255	137,856
1987	3,520	39,378	2,280	115,680	5,808	155,058
1988	3,585	40,455	2,317	118,115	5,902	158,570
1989	2,197	44,947	2,388	124,037	4,585	168,984
1990	2,747	56,675	3,003	143,978	5,750	200,653
1991	3,219	67,222	3,213	151,070	6,432	218,292
1992	4,113	83,821	3,305	153,322	7,418	237,143
1993	4,976	100,466	3,376	162,000	8,352	262,466
1994	5,455	117,084	3,532	170,370	8,987	287,454
1995	5,718	121,438	3,783	181,162	9,501	302,600
1996	6,200	130,135	4,525	211,350	10,725	341,485
1997	6,762	148,442	5,510	245,317	12,272	393,759
1998	7,843	183,933	6,431	277,252	14,274	461,185
1999	8,487	200,356	9,178	369,856	17,665	570,212
2000	9,179	220,162	10,155	399,981	19,334	620,143
2001	10,551	253,935	11,307	441,031	21,858	694,966
2002	10,739	262,352	11,511	446,463	22,250	708,815
2003	11,192	267,922	11,603	450,722	22,795	718,644
2004	11,382	271,496	11,458	447,613	22,840	719,109
2005	12,175	300,866	11,529	438,820	23,704	739,686
2006	12,076	291,188	11,572	429,463	23,648	720,651
2007	11,497	280,665	11,701	423,083	23,198	703,748
2008	12,264	287,524	11,751	443,988	24,015	731,512
2009	12,315	301,301	11,782	436,656	24,097	737,957
2010	12,396	306,042	11,894	441,637	24,290	747,679
2011	12,409	305,941	11,985	446,898	24,394	752,839

Source: Abu Dhabi Food Control Authority

\* Data for Abu Dhabi includes Al Gharbia

**Figure 1.1 Historical developments in the total area of plant holdings, 1986 to 2011**



Source: Statistics Centre - Abu Dhabi  
 \* Data for Abu Dhabi includes Al Gharbia

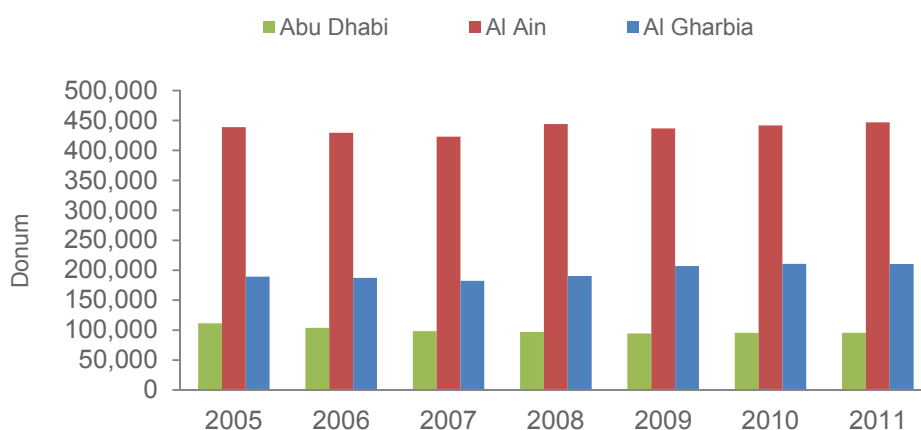
**Table 1.2 Number and area of plant holdings by region, 2005 to 2011**

(Area in Donums)

Year	Total		Abu Dhabi		Al Ain		Al Gharbia	
	Number	Area	Number	Area	Number	Area	Number	Area
2005	23,704	739,686	4,793	111,452	11,529	438,820	7,382	189,414
2006	23,648	720,651	4,556	103,815	11,572	429,463	7,520	187,373
2007	23,198	703,748	4,072	98,314	11,701	423,083	7,425	182,351
2008	24,015	731,512	3,854	97,045	11,751	443,988	8,410	190,479
2009	24,097	737,957	3,814	94,380	11,782	436,656	8,501	206,921
2010	24,290	747,679	3,837	95,483	11,894	441,637	8,559	210,559
2011	24,394	752,839	3,837	95,483	11,985	446,898	8,572	210,458

Source: Abu Dhabi Food Control Authority

**Figure 1.2 Area of plant holdings by region, 2005 to 2011**



Source: Statistics Centre - Abu Dhabi

**Table 1.3 Number and area of plant holdings by region, 2011**

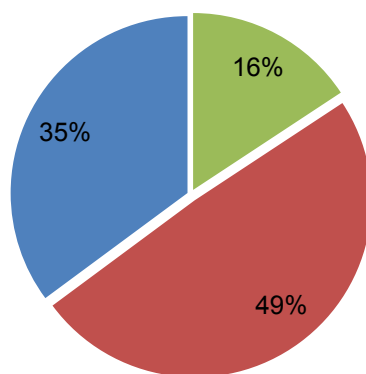
(Area in Donums)

Region	Number of holdings	Area of holdings
<b>Total</b>	<b>24,394</b>	<b>752,839</b>
Abu Dhabi	3,837	95,483
Al Ain	11,985	446,898
Al Gharbia	8,572	210,458

Source: Abu Dhabi Food Control Authority

**Figure 1.3 Percentage distribution of number of plant holdings by region, 2011**

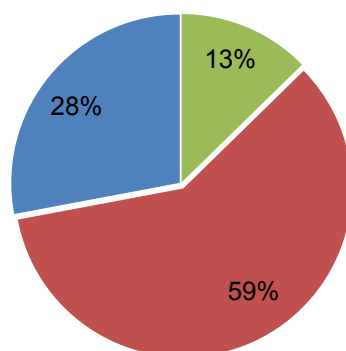
■ Abu Dhabi ■ Al Ain ■ Al Gharbia



Source: Statistics Centre - Abu Dhabi

**Figure 1.4 Percentage distribution of area of plant holdings by region, 2011**

■ Abu Dhabi ■ Al Ain ■ Al Gharbia



Source: Statistics Centre - Abu Dhabi

**Table 1.4 Number and area of plant holdings by region in Abu Dhabi, 2011**

(Area in Donums)

Region	No. of farms	Area
<b>Total</b>	<b>3,837</b>	<b>95,483</b>
Al Rahba	2,156	58,183
Al Khatim	1,681	37,300

Source: Abu Dhabi Food Control Authority

**Table 1.5 Number and area of plant holdings by region in Al Ain, 2011**

(Area in Donums)

Region	No. of farms	Area
<b>Total</b>	<b>11,985</b>	<b>446,898</b>
Abu Kreyah	894	29,737
Al Arad	1,112	36,590
Al Damtha	236	13,270
Al Dhahra	780	25,674
Al Fagah	91	5,215
Al Hayer & Moheir	394	16,932
Al Khazna	793	23,468
Al Oya	634	21,917
Al Qattara	228	13,185
Al Saad	210	6,469
Al Salamat	651	21,305
Al Shewaib	58	6,074
Al Wagan	545	17,497
Al Yahar	72	2,541
Beda Fares	872	29,253
Gumodh	721	25,167
Masakin	122	13,349
Naahal	415	14,262
Remah & Abu Samraa	556	20,610
Seih Bin Ammar	253	24,077
Seih Herez & Al Ajban	1,022	34,105
Seraa	590	19,880
Sweihan	275	11,156
Um Ghafa	86	2,966
Wahat Al Sahra	375	12,199

Source: Abu Dhabi Food Control Authority

### 1.6 Number and area of plant holdings by region in Al Gharbia, 2011

(Area in Donums)

Region	No of farms	Area
<b>Total</b>	<b>8,572</b>	<b>210,458</b>
Al Dhafra	132	2,473
Al Mirfaa	111	1,110
Al Silaa	116	1,776
Al Tharwaniya	1,931	43,970
Delma	102	1,011
Ghayathi	472	18,217
Hamim	870	18,990
Hassan	1,269	28,872
Madinat Zayed	536	15,338
Muzairaa	1,624	36,896
Seih Al Khair	524	21,006
Um Al Hassan	885	20,799

Source: Abu Dhabi Food Control Authority

### 1.7 Number and area of plant holdings by area category and region, 2011

(Area in Donums)

Region	Total		Less than 20 donum		20-39 donum		40 - 59 donum		60 donums and more	
	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>24,394</b>	<b>752,839</b>	<b>3,738</b>	<b>42,176</b>	<b>17,311</b>	<b>512,332</b>	<b>2,920</b>	<b>118,808</b>	<b>425</b>	<b>79,523</b>
Abu Dhabi	3,837	95,483	722	9,721	3,028	79,475	68	3,007	19	3,280
Alan	11,985	446,898	537	8,109	10,742	350,613	351	16,235	355	71,941
Al Gharbia	8,572	210,458	2,479	24,346	3,541	82,244	2,501	99,566	51	4,302

Source: Abu Dhabi Food Control Authority

### 1.8 Number and area of plant holdings by area category and region in Abu Dhabi, 2011

(Area in Donums)

Region	Total		Less than 20 donum		20-39 donum		40 - 59 donum		60 donums and more	
	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>3,837</b>	<b>95,483</b>	<b>722</b>	<b>9,721</b>	<b>3,028</b>	<b>79,475</b>	<b>68</b>	<b>3,007</b>	<b>19</b>	<b>3,280</b>
Al Rahba	2,156	58,183	-	-	2,156	58,183	-	-	-	-
Al Khatim	1,681	37,300	722	9,721	872	21,292	68	3,007	19	3,280

Source: Abu Dhabi Food Control Authority

### 1.9 Number and area of plant holdings by area category and region in Al Ain, 2011

(Area in Donums)

Region	Total		Less than 20 donum		20-39 donum		40 - 59 donum		60 donums and more	
	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>11,985</b>	<b>446,898</b>	<b>537</b>	<b>8,109</b>	<b>10,742</b>	<b>350,613</b>	<b>351</b>	<b>16,235</b>	<b>355</b>	<b>71,941</b>
Abu Kreyah	894	29,737	9	134	885	29,603	0	0	0	0
Al Arad	1,112	36,590	18	278	1,093	36,219	0	0	1	93
Al Damtha	236	13,270	0	0	210	6,632	5	262	21	6,376
Al Dhahra	780	25,674	0	0	780	25,674	0	0	0	0
Al Fagah	91	5,215	11	174	70	2,303	3	150	7	2,588
Al Hayer & Moheir	394	16,932	66	1,107	266	8,775	29	1,489	33	5,561
Al Khazna	793	23,468	143	2,305	584	18,163	62	2,608	4	392
Al Oya	634	21,917	7	115	624	20,538	1	58	2	1,206
Al Qattara	228	13,185	58	706	82	2,358	56	2,524	32	7,597
Al Saad	210	6,469	9	136	185	5,495	11	508	5	330
Al Salamat	651	21,305	16	299	607	18,890	16	651	12	1,465
Al Shewaib	58	6,074	40	560	9	277	0	0	9	5,237
Al Wagan	545	17,497	14	224	514	16,212	15	610	2	451
Al Yahar	72	2,541	9	91	39	1,239	21	1,010	3	201
Beda Fares	872	29,253	0	0	871	29,169	0	0	1	84
Gumodh	721	25,167	9	144	686	22,038	9	509	17	2,476
Masakin	122	13,349	0	0	73	2,433	11	592	38	10,324
Naahal	415	14,262	2	32	409	13,497	1	50	3	683
Remah & Abu Samraa	556	20,610	15	300	479	15,420	37	1,764	25	3,126
Seih Bin Ammar	253	24,077	52	572	53	1,498	32	1,551	116	20,456
Seih Herez & Al Ajban	1,022	34,105	8	134	1,014	33,971	0	0	0	0
Seraa	590	19,880	0	0	589	19,820	0	0	1	60
Sweihaan	275	11,156	0	0	219	7,260	38	1,704	18	2,192
Um Ghafa	86	2,966	46	708	31	1,020	4	195	5	1,043
Wahat Al Sahra	375	12,199	5	90	370	12,109	0	0	0	0

Source: Abu Dhabi Food Control Authority

### 1.10 Number and area of plant holdings by area category and region in Al Gharbia, 2011

(Area in Donums)

Region	Total		Less than 20 donum		20-39 donum		40 - 59 donum		60 donums and more	
	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>8,572</b>	<b>210,458</b>	<b>2,479</b>	<b>24,346</b>	<b>3,541</b>	<b>82,244</b>	<b>2,501</b>	<b>99,566</b>	<b>51</b>	<b>4,302</b>
Al Dhafra	132	2,473	109	1,871	22	562	1	40	0	0
Al Mirfaa	111	1,110	111	1,110	0	0	0	0	0	0
Al Silaa	116	1,776	112	1,680	4	96	0	0	0	0
Al Tharwaniya	1,931	43,970	830	7,223	577	14,501	512	21,150	12	1,096
Delma	102	1,011	101	953	0	0	1	58	0	0
Ghayathi	472	18,217	21	248	10	277	440	17,612	1	80
Hamim	870	18,990	260	2,293	437	9,680	172	6,948	1	69
Hassan	1,269	28,872	136	1,303	976	22,002	151	5,129	6	438
Madinat Zayed	536	15,338	143	2,126	118	2,241	269	10,596	6	375
Muzairaa	1,624	36,896	619	5,119	590	14,723	403	16,211	12	843
Seih Al Khair	524	21,006	8	68	17	444	486	19,093	13	1,401
Um Al Hassan	885	20,799	29	352	790	17,718	66	2,729	0	0

Source: Abu Dhabi Food Control Authority

### 1.11 Number and area of working plant holdings by region, 2009 to 2011

(Area in Donums)

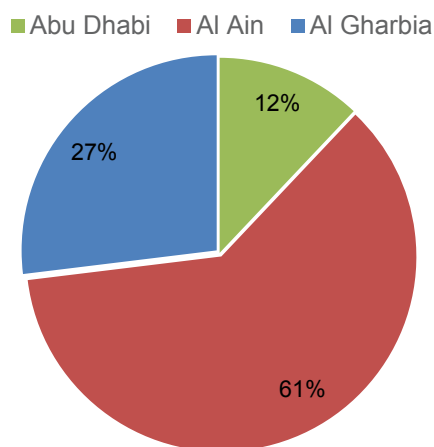
Region	Unit	2009	2010	2011
<b>Total</b>	Number	<b>22,318</b>	<b>22,285</b>	<b>22,315</b>
	Area	<b>704,426</b>	<b>706,341</b>	<b>704,761</b>
Abu Dhabi	Number	3,246	3,308	3,290
	Area	83,132	85,472	84,970
Al Ain	Number	11,782	11,519	11,549
	Area	436,656	430,879	429,883
Al Gharbia	Number	7,290	7,458	7,476
	Area	184,638	189,990	189,908

Source: Abu Dhabi Food Control Authority



The area of the operating agriculture holding in the Emirate of Abu Dhabi totaled 704,761 donums, most of them were located in Al Ain region at 61% of the total active holdings in the Emirate, followed by Al Gharbia region by 27% and finally Abu Dhabi region by 12% of the total active holdings in the Emirate.

**Figure 1.5 Percentage distribution of area of working plant holdings by region, 2011**



Source: Statistics Centre - Abu Dhabi

**Table 1.12 Number and area of working plant holdings by region in Abu Dhabi, 2011**

(Area in Donums)

Region	No. of farms	Area
<b>Total</b>	<b>3,290</b>	<b>84,970</b>
Al Rahba	1,952	52,669
Al Khatim	1,338	32,301

Source: Abu Dhabi Food Control Authority

**Table 1.13 Number and area of working plant holdings by region in Al Ain, 2011**  
(Area in Donums)

Region	No. of farms	Area
<b>Total</b>	<b>11,549</b>	<b>429,883</b>
Abu Kreyah	891	29,637
Al Arad	1,098	36,156
Al Damtha	224	12,821
Al Dhahra	764	25,146
Al Fagah	86	5,050
Al Hayer & Moheir	390	16,810
Al Khazna	764	22,716
Al Oya	624	20,405
Al Qattara	216	12,554
Al Saad	208	6,423
Al Salamat	531	17,980
Al Shewaib	53	5,080
Al Wagan	537	17,241
Al Yahar	68	2,440
Beda Fares	858	28,784
Gumodh	655	22,884
Masakin	102	11,405
Naahal	409	14,064
Remah & Abu Samraa	535	19,924
Seih Bin Ammar	249	23,981
Seih Herez & Al Ajban	992	33,100
Seraa	573	19,312
Sweihan	270	11,002
Um Ghafa	86	2,966
Wahat Al Sahra	366	12,002

Source: Abu Dhabi Food Control Authority

**Table 1.14 Number and area of working plant holdings by region in Al Gharbia, 2011**  
(Area in Donums)

Region	No. of farms	Area
<b>Total</b>	<b>7,476</b>	<b>189,908</b>
Al Dhafra	80	1,452
Al Mirfaa	95	950
Al Silaa	114	1,746
Al Tharwaniya	1,471	37,288
Delma	102	1,011
Hamim	781	17,106
Hassan	1,187	27,091
Madinat Zayed	482	14,413
Muzairaa	1,482	33,639
Seih Al Khair	496	19,780
Um Al Hassan	736	17,974

Source: Abu Dhabi Food Control Authority

### 1.3 Land use

The number of plant holdings in the Emirate of Abu Dhabi totaled 24,290 with a total area of 752,839 donums, which is equivalent to approximately 1% of the total area of the Emirate of Abu Dhabi. The results show that 38.9% of the total area of holdings plant in the Emirate of Abu Dhabi were cultivated with fruit trees and 23.8% of the total area of holdings plant were cultivated with field crops, while the area cultivated with vegetables equaled 1.8% of the total area of holdings plant, of which 1.4% were dedicated for exposed vegetable and 0.5% for protected vegetables. It was noted that 18.5% of the total area of holdings plant has been left fallow to rest, meanwhile forest trees accounted for 3.4% of the total area of holdings plant in the Emirate of Abu Dhabi.

In 2011, the area utilized for agriculture purposes accounted for 13.4% of the total area of agriculture holding in the Emirate of Abu Dhabi.

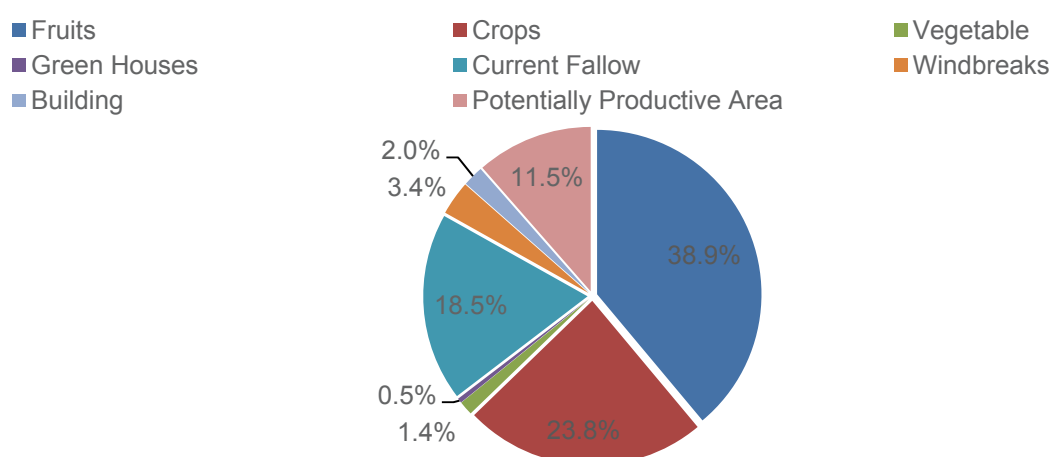
**Table 1.15 Area of plant holdings by land use and region, 2011**

(Area in Donums)

Item	Abu Dhabi	Al Ain	Al Gharbia	Total
<b>Total</b>	<b>95,483</b>	<b>446,898</b>	<b>210,458</b>	<b>752,839</b>
Fruits	27,183	187,557	78,282	293,022
Crops	29,684	120,757	29,072	179,513
Vegetable	3,420	3,598	3,482	10,500
Green Houses	325	1,954	1,096	3,375
Current Fallow	11,478	72,024	55,902	139,404
Windbreaks	6260	8340	10860	25,460
Building	4,026	6,911	4,370	19,677
Potentially Productive Area	13,108	45,757	27,395	86,260

Source: Abu Dhabi Food Control Authority

**Figure 1.8 Percentage distribution of agricultural area by land use, 2011**



Source: Statistics Centre - Abu Dhabi

## 1.4 Fruit trees

The area cultivated with fruit trees in the Emirate of Abu Dhabi is estimated at 293,022 donums or 39% of the total area of agricultural holdings. The palm trees accounted for 98% of the total area of fruit trees, while the rest of the fruits constitute 2% of the total area of fruit trees in the Emirate of Abu Dhabi.

The majority is concentrated in Al Ain region with 64% of the total area of fruit trees, followed by Al Gharbia region with 27% and Abu Dhabi with 9% of the total area of fruit trees in the Emirate of Abu Dhabi.

**Table 1.16 Number and area of fruit trees by type\* and region, 2011**

(Area in Donums)

Fruit Trees*	Abu Dhabi		Al Ain		Al Gharbia		Total	
	Number	Area	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>54,875</b>	<b>1,344</b>	<b>69,666</b>	<b>2,386</b>	<b>57,101</b>	<b>1,794</b>	<b>181,642</b>	<b>5,524</b>
Banana	0	0	1,540	47	0	0	1,540	47
Cider Fruit	50,125	1,240	12,997	431	28,127	1,144	91,249	2,815
Figs	300	2	3,958	131	10,369	221	14,627	354
Grapes	0	0	5,341	183	0	0	5,341	183
Guava	400	1	3,072	103	2,249	54	5,721	158
Almond	0	0	1,116	103	0	0	1,116	103
Lemon	3,000	75	19,259	643	11,390	264	33,649	982
Mango	500	12	10,446	348	962	24	11,908	384
Murus Alba	0	0	1,972	68	0	0	1,972	68
Olive	0	0	152	5	0	0	152	5
Orange	250	6	7,200	237	1,790	30	9,240	273
Pomegranate	300	8	2,613	87	2,214	57	5,127	152

Source: Abu Dhabi Food Control Authority

\*Excluding Date Palms

**Table 1.17 Number and area of fruit trees by type\* and region in Abu Dhabi, 2011**

(Area in Donums)

Fruit Trees*	Total		Banana		Cider Fruite		Figs		Grapes		Guava		Almond	
	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>54,875</b>	<b>1,344</b>	<b>0</b>	<b>0</b>	<b>50,125</b>	<b>1,240</b>	<b>300</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>400</b>	<b>1</b>	<b>0</b>	<b>0</b>
Al Rahba	10,125	240	0	0	10,125	240	0	0	0	0	0	0	0	0
Al Khatim	44,750	1104	0	0	40,000	1,000	300	2	0	0	400	1	0	0

Source: Abu Dhabi Food Control Authority

\*Excluding Date Palms

**Contd / 1.17 Number and area of fruit trees by type\* and region in Abu Dhabi, 2011**

(Area in Donums)

Fruit Trees*	Lemon		Mango		Murus Alba		Olive		Orange		Pomegranate	
	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>3,000</b>	<b>75</b>	<b>500</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250</b>	<b>6</b>	<b>300</b>	<b>8</b>
Al Rahba	0	0	0	0	0	0	0	0	0	0	0	0
Al Khatim	3,000	75	500	12	0	0	0	0	250	6	300	8

Source: Abu Dhabi Food Control Authority

\*Excluding Date Palms

**Table 1.18 Number and area of fruit trees by type\* and region in Al Ain, 2011**

(Area in Donums)

Fruit Trees*	Total		Banana		Cider Fruit		Figs		Grapes		Guava		Almond	
	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>69,666</b>	<b>2,386</b>	<b>1540</b>	<b>47</b>	<b>12,997</b>	<b>431</b>	<b>3,958</b>	<b>131</b>	<b>5,341</b>	<b>183</b>	<b>3,072</b>	<b>103</b>	<b>1,116</b>	<b>103</b>
Abu Kreyah	291	11	0	0	120	4	7	0	12	0	29	1	0	1
Al Arad	2,218	73	0	0	24	1	50	2	0	0	0	0	0	0
Al Damtha	1,811	58	49	2	675	22	254	8	20	0	83	3	106	3
Al Dhahra	136	5	0	0	136	5	0	0	0	0	0	0	0	0
Al Fagah	702	25	0	0	254	8	178	6	0	0	37	1	0	1
Al Hayer & Moheir	3,868	153	56	2	168	6	48	2	110	4	690	23	13	23
Al Khazna	2,313	76	0	0	0	0	67	1	0	0	141	5	29	5
Al Oya	1,530	49	0	0	910	30	15	0	5	0	10	0	0	0
Al Qattara	9,260	310	279	9	1,217	40	358	12	4,209	140	133	4	14	4
Al Saad	379	13	0	0	165	6	0	0	0	0	0	0	25	0
Al Salamat	4,616	154	0	0	3,809	127	5	0	0	0	0	0	9	0
Al Shewaib	2,900	95	5	0	96	3	584	19	0	0	69	2	15	2
Al Wagan	209	5	0	0	132	4	5	0	0	0	4	0	0	0
Al Yahar	47	2	0	0	29	1	0	0	0	0	0	0	0	0
Beda Fares	292	7	0	0	134	4	20	1	0	0	7	0	60	0
Gumodh	3,318	114	64	2	614	20	55	2	40	1	169	6	72	6
Masakin	9,592	324	417	14	1,245	42	587	20	475	25	441	15	673	15
Naahal	1,386	47	0	0	150	5	75	2	0	0	50	2	1	2
Remah & Abu Samraa	1,290	46	0	0	601	20	63	2	1	0	45	2	0	2
Seih Bin Ammar	19,559	682	152	5	944	31	1,348	45	429	11	1,090	36	56	36
Seih Herez & Al Ajban	1,110	37	0	0	1,110	37	0	0	0	0	0	0	0	0
Seraa	818	28	5	0	140	5	85	3	28	1	53	2	43	2
Sweihan	1,445	44	450	10	316	10	119	4	2	1	0	0	0	0
Um Ghafa	576	28	63	3	8	0	35	2	10	0	21	1	0	1
Wahat Al Sahara	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Source: Abu Dhabi Food Control Authority

\*Excluding Date Palms

Contd / 1.18 Number and area of fruit trees by type\* and region in Al Ain, 2011

(Area in Donums)

Fruit Trees*	Lemon		Mango		Murus Alba		Olive		Orange		Pomegranate	
	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>19,259</b>	<b>643</b>	<b>10,446</b>	<b>348</b>	<b>1,972</b>	<b>68</b>	<b>152</b>	<b>5</b>	<b>7,200</b>	<b>237</b>	<b>2,613</b>	<b>87</b>
Abu Kreyah	50	2	22	1	24	1	0	0	0	0	27	1
Al Arad	1,600	53	0	0	14	0	0	0	100	3	430	14
Al Damtha	265	9	75	2	43	2	132	4	90	3	19	0
Al Dhahra	0	0	0	0	0	0	0	0	0	0	0	0
Al Fagah	147	5	20	1	1	1	0	0	65	2	0	0
Al Hayer & Moheir	1,715	57	113	4	125	4	0	0	780	26	50	2
Al Khazna	1,197	40	485	16	38	1	0	0	291	7	65	1
Al Oya	250	8	35	1	0	0	0	0	75	2	230	8
Al Qattara	1,561	52	1,206	40	91	3	0	0	98	3	94	3
Al Saad	120	4	0	0	30	1	0	0	0	0	39	2
Al Salamat	484	16	202	7	18	1	0	0	84	3	5	0
Al Shewaib	864	29	522	15	76	3	0	0	600	20	69	2
Al Wagan	35	1	0	0	6	0	0	0	2	0	25	0
Al Yahar	18	1	0	0	0	0	0	0	0	0	0	0
Beda Fares	41	1	0	0	0	0	0	0	7	0	23	1
Gumodh	1,805	60	67	2	212	7	0	0	156	6	64	2
Masakin	2,036	68	1,049	35	808	27	0	0	1,311	44	550	19
Naahal	300	10	0	0	70	2	0	0	670	22	70	2
Remah & Abu Samraa	384	13	56	2	12	0	0	0	48	2	80	3
Seih Bin Ammar	5,980	199	6,142	205	329	11	0	0	2,610	87	479	16
Seih Herez & Al Ajban	0	0	0	0	0	0	0	0	0	0	0	0
Seraa	158	5	54	2	48	2	9	0	67	2	128	4
Sweihan	120	4	270	9	7	1	0	0	80	2	81	3
Um Ghafa	129	6	128	6	20	1	11	1	66	3	85	4
Wahat Al Sahara	0	0	0	0	0	0	0	0	0	0	0	0

Source: Abu Dhabi Food Control Authority

\*Excluding Date Palms



**Table 1.19 Number and area of fruit trees by type\* and region in Al Gharbia 2011**

(Area in Donums)

Region	Total		Banana		Cider Fruit		Figs		Grapes		Guava		Almond	
	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>57,101</b>	<b>1,794</b>	<b>0</b>	<b>0</b>	<b>28,127</b>	<b>1,144</b>	<b>10,369</b>	<b>221</b>	<b>0</b>	<b>0</b>	<b>2,249</b>	<b>54</b>	<b>0</b>	<b>0</b>
Al Dhafra	1,533	14	0	0	1,533	14	0	0	0	0	0	0	0	0
Al Mirfaa	244	5	0	0	244	5	0	0	0	0	0	0	0	0
Al Silaa	13	0	0	0	0	0	0	0	0	0	0	0	0	0
Al Tharwaniya	491	217	0	0	320	200	11	3	0	0	4	0	0	0
Delma	3,175	97	0	0	245	19	600	20	0	0	400	18	0	0
Ghayathi	1,497	432	0	0	1,233	430	87	1	0	0	7	0	0	0
Hamim	2,408	60	0	0	2,408	60	0	0	0	0	0	0	0	0
Hassan	9,092	102	0	0	7,782	76	350	7	0	0	45	1	0	0
Madinat Zayed	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Muzairaa	3,987	153	0	0	2,102	85	749	18	0	0	73	2	0	0
Seih Al Khair	25,820	529	0	0	3,660	75	8,570	172	0	0	1,710	33	0	0
Um Al Hassan	8,841	185	0	0	8,600	180	2	0	0	0	10	0	0	0

Source: Abu Dhabi Food Control Authority

\*Excluding Date Palms

Contd / 1.19 Number and area of fruit trees by type\* and region in Al Gharbia, 2011

(Area in Donums)

Region	Lemon		Mango		Murus Alba		Olive		Orange		Pomegranate	
	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>11,390</b>	<b>264</b>	<b>962</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,790</b>	<b>30</b>	<b>2,214</b>	<b>57</b>
Al Dhafra	0	0	0	0	0	0	0	0	0	0	0	0
Al Mirfaa	0	0	0	0	0	0	0	0	0	0	0	0
Al Silaa	0	0	0	0	0	0	0	0	0	0	13	0
Al Tharwaniya	110	8	16	2	0	0	0	0	0	0	30	4
Delma	450	10	210	7	0	0	0	0	720	8	550	15
Ghayathi	80	1	0	0	0	0	0	0	40	0	50	0
Hamim	0	0	0	0	0	0	0	0	0	0	0	0
Hassan	600	10	60	2	0	0	0	0	225	4	30	2
Madinat Zayed	0	0	0	0	0	0	0	0	0	0	0	0
Muzairaa	123	24	52	1	0	0	0	0	35	1	853	22
Seih Al Khair	9,850	207	610	12	0	0	0	0	770	17	650	13
Um Al Hassan	177	4	14	0	0	0	0	0	0	0	38	1

Source: Abu Dhabi Food Control Authority

\*Excluding Date Palms

**Table 1.20 Number and area of \*palm trees by region, 2011**

(Area in Donums)

Region	Total		Productive		Unproductive	
	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>5,982,103</b>	<b>287,498</b>	<b>4,327,935</b>	<b>212,986</b>	<b>1,654,168</b>	<b>74,513</b>
Abu Dhabi	516,880	25,839	241,568	12,073	275,312	13,766
Al Ain	3,718,196	185,171	2,848,021	142,035	870,175	43,136
Al Gharbia	1,747,027	76,488	1,238,346	58,877	508,681	17,611

Source: Abu Dhabi Food Control Authority

\*Excluding Date Palms

The government gives agriculture in general and palm cultivation particularly great attention in order to develop palm cultivation through increasing number of trees, widen the cultivated area, increase production and improve the quality by optimizing use of natural resources and encouraging investments in sector.

The number of palm trees in the agriculture holdings in the Emirate of Abu Dhabi is estimated at 5,982,103 trees on a total area of 287,498 donums; fruit trees accounted for 72% of the total number of palm trees in the Emirate of Abu Dhabi, 2011.

Palm trees constitute 98% of the total area of fruit trees in the Emirate of Abu Dhabi are mainly located in Al Ain with 64%, followed by the Al Gharbia region with 27% and Abu Dhabi region with 9% of the total area palm in the Emirate of Abu Dhabi in 2011.

**Table 1.21 Number and area of \*palm trees by region in Abu Dhabi, 2011**

(Area in Donums)

Region	Total		Productive		Unproductive	
	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>516,880</b>	<b>25,839</b>	<b>241,568</b>	<b>12,073</b>	<b>275,312</b>	<b>13,766</b>
Al Rahba	220,000	11,000	105,000	5,250	115,000	5,750
Al Khatim	296,880	14,839	136,568	6,823	160,312	8,016

Source: Abu Dhabi Food Control Authority

\* Palm Trees in the Farms

**Table 1.22 Number and area of \*palm trees by region in Al Ain, 2011**

(Area in Donums)

Region	Total		Productive		Unproductive	
	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>3,718,196</b>	<b>185,171</b>	<b>2,848,021</b>	<b>142,035</b>	<b>870,175</b>	<b>43,136</b>
Abu Kreyah	200,385	10,019	144,591	7,229	55,794	2,790
Al Arad	290,559	14,527	232,447	11,622	58,112	2,905
Al Damtha	98,365	4,917	76,647	3,832	21,718	1,085
Al Dhahra	170,570	8,528	141,645	7,082	28,925	1,446
Al Fagah	51,949	2,597	40,618	2,031	11,331	566
Al Hayer & Moheir	163,786	8,190	128,292	6,415	35,494	1,775
Al Khazna	159,518	7,976	120,000	6,000	39,518	1,976
Al Oya	201,671	10,084	159,440	7,972	42,231	2,112
Al Qattara	140,274	7,016	109,105	5,456	31,169	1,560
Al Saad	68,469	3,424	56,995	2,850	11,474	574
Al Salamat	150,409	7,521	115,734	5,787	34,675	1,734
Al Shewaib	37,817	1,891	31,102	1,555	6,715	336
Al Wagan	170,250	8,012	131,565	6,378	38,685	1,634
Al Yahar	28,232	1,417	23,462	1,179	4,770	238
Beda Fares	243,412	11,927	170,560	8,357	72,852	3,570
Gumodh	207,970	10,399	185,390	9,270	22,580	1,129
Masakin	91,497	4,575	74,621	3,731	16,876	844
Naahal	115,688	5,784	100,000	5,000	15,688	784
Remah & Abu Samraa	201,567	10,078	166,806	8,340	34,761	1,738
Seih Bin Ammar	319,839	15,992	248,820	12,441	71,019	3,551
Seih Herez & Al Ajban	169,332	8,467	107,734	5,387	61,598	3,080
Seraa	161,871	8,094	108,418	5,421	53,453	2,673
Sweihan	125,402	6,269	68,835	3,441	56,567	2,828
Um Ghafa	35,583	1,779	17,968	898	17,615	881
Wahat Al Sahara	113,781	5,689	87,226	4,361	26,555	1,328

Source: Abu Dhabi Food Control Authority

\* Palm Trees in the Farms

**Table 1.23 Number and area of \*palm trees by region in Al Gharbia, 2011**

(Area in Donums)

Region	Total		Productive		Unproductive	
	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>1,747,027</b>	<b>76,488</b>	<b>1,238,346</b>	<b>58,877</b>	<b>508,681</b>	<b>17,611</b>
Al Dhafra	13,663	68	9,088	45	4,575	23
Al Mirfaa	7,085	145	6,064	124	1,021	21
Al Silaa	7,560	92	4,000	48	3,560	44
Al Tharwaniya	50,296	20,010	276	17,100	50,020	2,910
Delma	8,150	230	4,480	130	3,670	100
Ghayathi	138,800	1,666	97,350	1,168	41,450	497
Hamim	266,941	8,008	145,991	4,672	120,950	3,337
Hassan	241,992	7,985	241,992	7,985	0	0
Madinat Zayed	195,600	7,824	146,400	5,856	49,200	1,968
Muzairaa	440,942	15,896	308,102	11,075	132,840	4,821
Seih Al Khair	215,225	8,609	170,100	6,804	45,125	1,805
Um Al Hassan	160,773	5,955	104,503	3,870	56,270	2,085

Source: Abu Dhabi Food Control Authority

\* Palm Trees in the Farms

Dates industry is considered one of the new food industries; just few decades the Emirate wasn't producing dates in commercial quantities. It has made significant progress in the palm cultivation and dates production through cultivating large areas with palm seedlings, which fit with the natural conditions. Currently, the Emirate has become one of the countries exporting dates, and its derivatives.

The date palm is characterized by early production and a good quality fruit, where the tree begins the production at the age of four years, and this violates the usual attic where tree begins the production at the age of 6 - 8 years.

**Table 1.24 Quantity and value of dates produced, 2008 to 2011**

(Quantity: tons, Value: 1000 AED)

Region	Item	2008	2009	2010	2011
<b>Total</b>	<b>Quantity</b>	<b>65,657</b>	<b>62,594</b>	<b>72,900</b>	<b>76,980</b>
	<b>Value</b>	<b>389,317</b>	<b>428,532</b>	<b>439,873</b>	<b>516,369</b>
Abu Dhabi	Quantity	2,675	2,632	5,175	5,705
	Value	11,750	13,724	33,109	41,319
Al Ain	Quantity	39,358	35,329	45,660	46,955
	Value	236,273	233,507	265,596	298,908
Al Gharbia	Quantity	23,625	24,633	22,065	24,320
	Value	141,294	181,301	141,168	176,142

Source: Al Foah Company

The produced quantities of dates totaled 76,980 tons in 2011, an increase of 5.6% compared to 2010. Classifying the quantity of produced dates by regions of the Emirate, it has been proven that Al Ain region produces 61%, followed by Al Gharbia region with 31.5, and finally Abu Dhabi region with 7.5% of the total quantity of dates produced in 2011.

**Table 1.25 Number and area of forest trees by type and region, 2011**

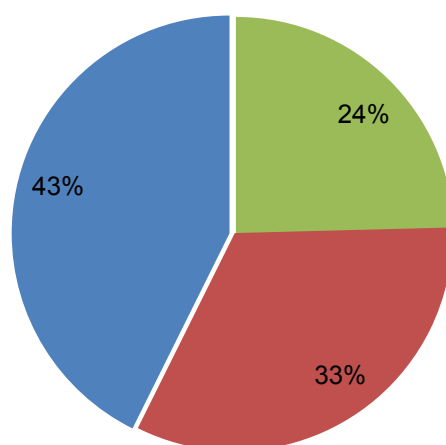
(Area in Donums)

Type	Abu Dhabi		Al Ain		Al Gharbia		Total	
	Number	Area	Number	Area	Number	Area	Number	Area
Total	252,500	6,260	328,637	8,340	430,053	10,860	1,011,190	25,460
Cider	200,500	4,960	51,863	1,731	131,120	5,717	383,483	12,408
Damas	6,000	150	7,426	177	19,593	399	33,019	726
Ghaf	30,000	750	18,403	448	237,967	3,648	286,370	4,846
Ghwaf	0	0	0	0	3,661	63	3,661	63
Kef Merriam	9,000	225	0	0	8,650	281	17,650	506
Kenyah	0	0	0	0	920	14	920	14
Samar	0	0	0	0	2,265	62	2,265	62
Raaq	7,000	175	102,412	2,042	20,858	516	130,270	2,733
Others	0	0	148,533	3,942	5,019	160	153,552	4,102

Source: Abu Dhabi Food Control Authority

**Figure 1.9 Percentage distribution of forest trees area by region, 2011**

■ Abu Dhabi ■ Al Ain ■ Al Gharbiya



Source: Statistics Centre - Abu Dhabi

## 1.5 Field crops

The area of plant holdings cultivated with field crops in the Emirate of Abu Dhabi equaled 179,513 donums or 24% of the total plant holdings area in Abu Dhabi Emirate. Classifying the area cultivated with field crops by region, results show that the majority of the area is mainly located in Al Ain region with 67%, followed by Abu Dhabi region by 17% and Al Gharbia region by 16% of the total area cultivated with field crops in the Emirate.

The field crops production is estimated at 1,503,841 tons, at the value of AED 2,183,570. Most of the production came from Al Ain region with 64% of the total field crop production of the Emirate of Abu Dhabi.

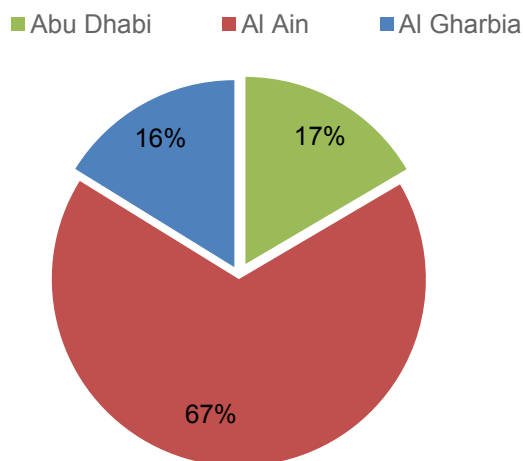
**Table 1.26 Cultivated area, quantity and value of production of field crops by type, 2011**

Area in Donums, Quantity in Tons

Type	Area	Quantity	Value ( 1000 AED)
<b>Total</b>	<b>179,513</b>	<b>1,503,841</b>	<b>2,183,570</b>
Alfalfa	6,715	1,087,751	1,579,413
Barley	50	0	0
Dry Corn	3,587	3,557	9,731
Rhodes Green	168,480	253,801	414,254
Others Crops	681	158,732	180,173

Source: Abu Dhabi Food Control Authority

**Figure 1.10 Percentage distribution of cultivated area of field crops by region, 2011**



Source: Statistics Centre - Abu Dhabi

**Table 1.27 Cultivated area, quantity and value of production of field crops by type in Abu Dhabi, 2011**

Area in Donums, Quantity in Tons

Type	Area	Quantity	Value ( 1000 AED)
<b>Total</b>	<b>29,684</b>	<b>220,486</b>	<b>324,340</b>
Alfalfa	150	156,942	227,878
Barley	0	0	0
Dry Corn	2,965	2,965	8,112
Rhodes Green	26,537	39,405	64,317
Others Crops	32	21,174	24,033

Source: Abu Dhabi Food Control Authority

**Table 1.28 Cultivated area, quantity and value of production of field crops by type in Al Ain, 2011**

Area in Donums, Quantity in Tons

Type	Area	Quantity	Value ( 1000 AED)
<b>Total</b>	<b>120,757</b>	<b>965,049</b>	<b>1,414,382</b>
Alfalfa	6,355	674,009	978,661
Barley	50	0	0
Dry Corn	52	52	142
Rhodes Green	113,951	211,803	345,705
Others Crops	349	79,185	89,874

Source: Abu Dhabi Food Control Authority

**Table 1.29 Cultivated area, quantity and value of production of field crops by type in Al Gharbia, 2011**

Area in Donums, Quantity in Tons

Type	Area	Quantity	Value ( 1000 AED)
<b>Total</b>	<b>29,072</b>	<b>318,306</b>	<b>444,848</b>
Alfalfa	210	256,800	372,874
Barley	0	0	0
Dry Corn	570	540	1,477
Rhodes Green	27,992	2,593	4,232
Others Crops	300	58,373	66,265

Source: Abu Dhabi Food Control Authority



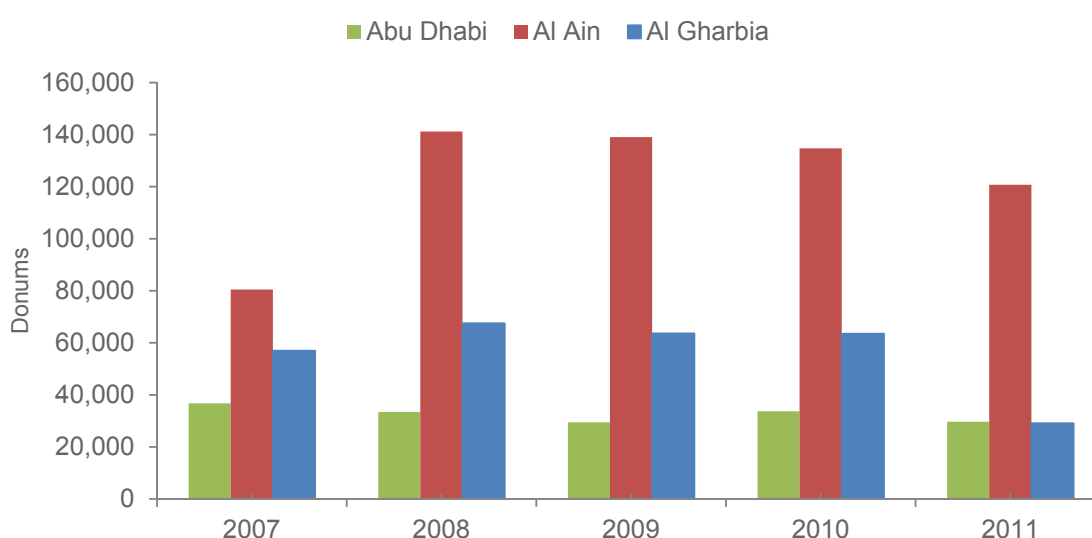
**Table 1.30 Cultivated area of field crops by region, 2007 to 2011**

Area in Donums

Year	Total	Abu Dhabi	Al Ain	Al Gharbia
2007	174,178	36,726	80,471	56,981
2008	242,148	33,456	141,191	67,501
2009	232,141	29,470	139,046	63,625
2010	231,919	33,708	134,734	63,477
2011	179,513	29,684	120,757	29,072

Source: Abu Dhabi Food Control Authority

**Figure 1.11 Cultivated area of field crops by region, 2007 to 2011**



Source: Statistics Centre - Abu Dhabi

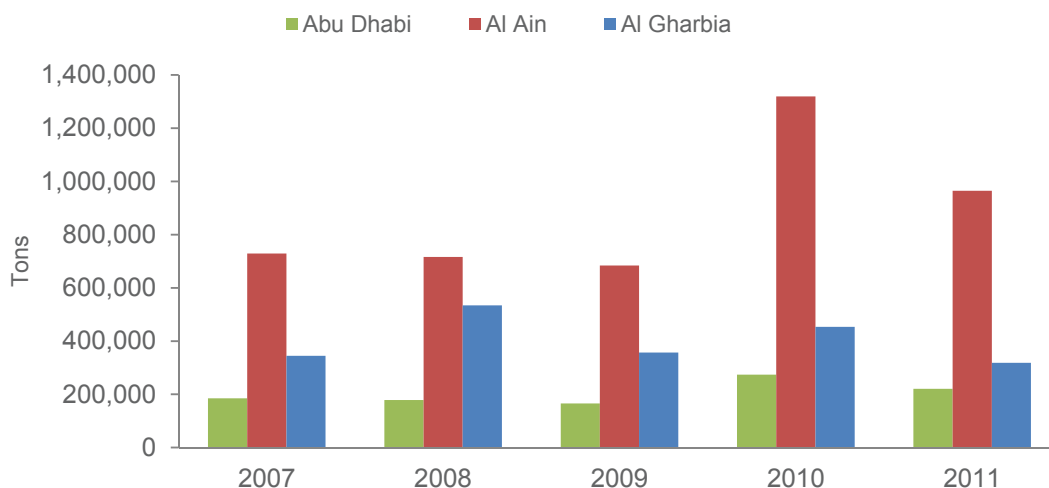
### 1.31 Quantity of production of field crops by region, 2007 to 2011

(Quantity in Tons)

Year	Total	Abu Dhabi	Al Ain	Al Gharbia
2007	1,259,069	185,136	728,953	344,980
2008	1,429,438	178,663	716,451	534,324
2009	1,206,638	165,466	683,936	357,236
2010	2,046,733	273,699	1,319,530	453,504
2011	1,503,841	220,486	965,049	318,306

Source: Abu Dhabi Food Control Authority

**Figure 1.12 Quantity of production of field crops by region, 2007 to 2011**



Source: Statistics Centre - Abu Dhabi

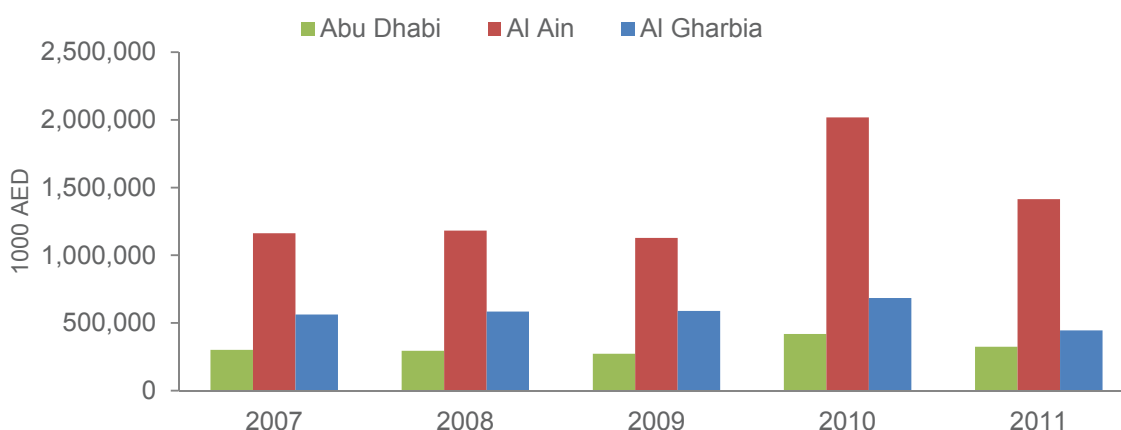
**1.32 Value of production of field crops by region, 2007 to 2011**

(Value in 1000 AED)

Year	Total	Abu Dhabi	Al Ain	Al Gharbia
2007	2,026,664	301,762	1,162,603	562,299
2008	2,061,569	294,793	1,182,141	584,635
2009	1,990,953	273,019	1,128,495	589,439
2010	3,121,807	419,183	2,018,021	684,603
2011	2,183,570	324,340	1,414,382	444,848

Source: Abu Dhabi Food Control Authority

**Figure 1.13 Value of production of field crops by region, 2007 to 2011**



Source: Statistics Centre - Abu Dhabi

## 1.6 Vegetables

In 2011, the amount of vegetables supplied to the agricultural distribution centers was approximately 36,029.9 tons of various crops, where the crop of tomatoes was accounted for 85% of the total quantities produced.

The area cultivated with vegetables in 2011 stood at 13,875 donums, or 2% of the total area of plant holdings in the Emirate of Abu Dhabi.

Classifying the area cultivated with vegetables by region, results show that Al Ain region is the largest area with 5,552 donums or 40% of the total area cultivated with vegetables in the Emirate of Abu Dhabi, followed by Al Gharbia region with 4,578 donums or 33%, and Abu Dhabi region with 3,745 acres or 27% of the total area cultivated with vegetables in the Emirate of Abu Dhabi.

**Table 1.33 Cultivated area, quantity and value of production of vegetables by type of crop, 2011**

Type	Area (Donums)	Quantity (Tons)	Value (AED000)
<b>Total</b>	<b>13,875.0</b>	<b>36,029.9</b>	<b>58,925.4</b>
Tomato	7,396.0	30,511.0	46,289.6
Beans	468.0	360.1	1,795.9
Beet	71.0	33.9	32.2
Cabbage	768.0	1,599.1	1,597.6
Cucumber	1,072.0	52.2	111.3
Carrot	51.0	42.9	47.9
Cauliflower	93.0	92.3	129.1
Mallow	30.0	18.2	22.8
Hot Pepper	90.0	58.3	69.7
Sweet Pepper	90.0	69.2	151.9
Egg Plant	196.0	391.5	381.9
Green beans	8.0	4.7	26.8
Marrow	701.0	118.6	221.5
Dry Onion	2,447.0	2,451.3	7,404.4
Sweet Corn	158.0	163.6	545.7
Sweet Melon	70.0	8.8	14.0
Turnip	3.0	2.1	2.4
Water Melon	29.0	22.5	29.6
Coriander	5.0	2.5	2.3
Parsley	16.0	24.2	35.5
Peas	13.0	1.7	9.1
Potato	41.0	1.0	4.2
Cowpeas	2.0	0.0	0.0
Okra	41.0	0.0	0.0
Broccoli	2.0	0.0	0.0
Mint	5.0	0.0	0.0
Others	9.0	0.0	0.0

Source: Abu Dhabi Food Control Authority

**Table 1.34 Cultivated area, quantity and value of production of vegetables by type of crop in Abu Dhabi, 2011**

Type	Area (Donums)	Quantity (Tons)	Value (AED000)
<b>Total</b>	<b>3,745</b>	<b>6,834.2</b>	<b>13,358.9</b>
Tomato	2,031	5,244.0	8,023.3
Beans	0	0.0	0.0
Beet	0	0.0	0.0
Cabbage	0	0.0	0.0
Cucumber	64	19.7	41.3
Carrot	0	0.0	0.0
Cauliflower	0	0.0	0.0
Mallow	0	0.0	0.0
Hot Pepper	0	0.0	0.0
Sweet Pepper	0	0.0	0.0
Egg Plant	0	0.0	0.0
Green beans	0	0.0	0.0
Marrow	0	0.0	0.0
Dry Onion	1,620	1,545.9	5,260.6
Sweet Corn	0	0.0	0.0
Sweet Melon	18	6.9	10.7
Turnip	0	0.0	0.0
Water Melon	12	17.7	0.0
Coriander	0	0.0	0.0
Parsley	0	0.0	0.0
Peas	0	0.0	0.0
Potato	0	0.0	0.0
Cowpeas	0	0.0	0.0
Okra	0	0.0	0.0
Broccoli	0	0.0	0.0
Mint	0	0.0	0.0
Others	0	0.0	0.0

Source: Abu Dhabi Food Control Authority

**Table 1.35 Cultivated area, quantity and value of production of vegetables by type of crop in Al Ain, 2011**

Type	Area (Donums)	Quantity (Tons)	Value (AED000)
<b>Total</b>	<b>5,552</b>	<b>14,925.3</b>	<b>23,130.3</b>
Tomato	3,233	13,959.6	21,079.0
Beans	82	63.1	310.9
Beet	71	33.9	32.2
Cabbage	36	75.0	73.4
Cucumber	1,006	32.5	69.9
Carrot	42	35.4	36.5
Cauliflower	26	25.8	36.0
Mallow	15	9.1	11.4
Hot Pepper	37	24.0	69.7
Sweet Pepper	37	28.5	50.8
Egg Plant	32	63.9	54.3
Green beans	8	4.7	26.8
Marrow	460	77.8	139.9
Dry Onion	377	412.7	928.3
Sweet Corn	27	48.0	160.1
Sweet Melon	2	0.1	0.2
Turnip	3	2.1	2.4
Water Melon	7	2.0	2.8
Coriander	5	2.5	2.3
Parsley	15	22.7	33.2
Peas	13	1.7	9.1
Potato	12	0.3	1.2
Cowpeas	2	0.0	0.0
Okra	4	0.0	0.0
Broccoli	0	0.0	0.0
Mint	0	0.0	0.0
Others	0	0.0	0.0

Source: Abu Dhabi Food Control Authority

**Table 1.36 Cultivated area, quantity and value of production of vegetables by type of crop in Al Gharbia, 2011**

Type	Area (Donums)	Quantity (Tons)	Value (AED000)
<b>Total</b>	<b>4,578</b>	<b>14,270.4</b>	<b>22,436.1</b>
Tomato	2,132	11,307.4	17,187.3
Beans	386	297.0	1,485.0
Beet	0	0.0	0.0
Cabbage	732	1,524.2	1,524.2
Cucumber	2	0.1	0.1
Carrot	9	7.6	11.4
Cauliflower	67	66.5	93.2
Mallow	15	9.1	11.4
Hot Pepper	53	34.3	0.0
Sweet Pepper	53	40.8	101.2
Egg Plant	164	327.6	327.6
Green beans	0	0.0	0.0
Marrow	241	40.8	81.5
Dry Onion	450	492.7	1,215.5
Sweet Corn	131	115.6	385.6
Sweet Melon	50	1.8	3.1
Turnip	0	0.0	0.0
Water Melon	10	2.8	3.8
Coriander	0	0.0	0.0
Parsley	1	1.5	2.3
Peas	0	0.0	0.0
Potato	29	0.7	3.0
Cowpeas	0	0.0	0.0
Okra	37	0.0	0.0
Broccoli	2	0.0	0.0
Mint	5	0.0	0.0
Others	9	0.0	0.0

Source: Abu Dhabi Food Control Authority

## 1.7 Area of greenhouses

Greenhouse agriculture “protected agriculture” is defined as the production of vegetables or ornamental plants in tunnels or agriculture plastic or glass houses, which are heated by either the sun or a heating apparatus to protect the crops against weather changes and agricultural pests. It aims at optimizing the cultivated area to the maximum extent possible and reducing the cost. It is known that vegetables are rich with high nutritional value due to the large amounts of mineral salts, carbohydrates, proteins, fats and vitamins, which are key elements in the human food. The Government has given vegetable production in greenhouses great attention in order to get earlier production, in non-traditional times, where it would be difficult to produce the same vegetables using open ground.

In 2011, the total number of greenhouses in the Emirate of Abu Dhabi equaled 10,003 with a total area of 3,375 donums, an increase of 19.5% compared with 2010. Greenhouse area of land approximately constitutes 0.5% of the total area of plant holdings in the Emirate of Abu Dhabi.

Classifying the greenhouse area by regions, results show that most of the greenhouse area is located in Al Ain region with 58%, followed by Al Gharbia region with 32% and Abu Dhabi region with 10% of the total area of greenhouses in the Emirate of Abu Dhabi.

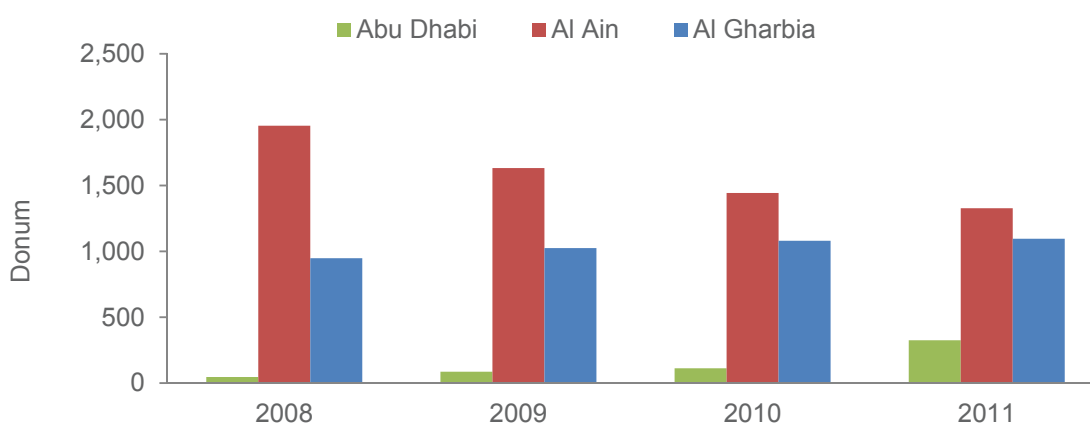
**Table 1.37 Number and area of greenhouses by region, 2008 to 2011**

(Area in Donums)

Region	Unit	2008	2009	2010	2011
Total	Number	6,916	7,683	8,363	10,003
	Area	2,322	2,555	2,825	3,375
Abu Dhabi	Number	102	191	243	720
	Area	46	87	113	325
Al Ain	Number	3,948	4,313	4,852	5,832
	Area	1,328	1,443	1,632	1,954
Al Gharbia	Number	2,866	3,179	3,268	3,451
	Area	948	1,025	1,080	1,096

Source: Abu Dhabi Food Control Authority

**Figure 1.14 Area of greenhouses by region, 2008 to 2011**



Source: Statistics Centre - Abu Dhabi

Most of the operating green houses are located in Al Gharbia region with a total of 1,009 donums or 50% of the total area of operating green houses, followed by Al Ain region with a total area of 859 donmus or 43% and finally Abu Dhabi region with a total area of 144 donums or 7% percent of the total area of operating green houses in 2011.

**Table 1.38 Number and area of greenhouses productive by region, 2011**

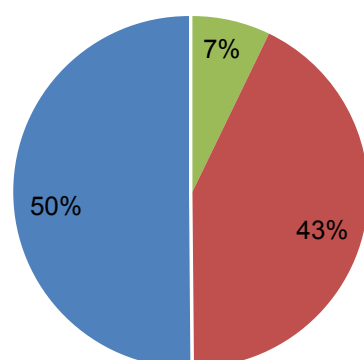
(Area in Donums)

Region	Productive greenhouse		Nonproductive greenhouse		Total	
	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>5,633</b>	<b>2,012</b>	<b>4,370</b>	<b>1,363</b>	<b>10,003</b>	<b>3,375</b>
Abu Dhabi	347	144	373	181	720	325
Al Ain	2,122	859	3,710	1,095	5,832	1,954
Al Gharbia	3,164	1,009	287	87	3,451	1,096

Source: Abu Dhabi Food Control Authority

**Figure 1.15 Percentage distribution of area of greenhouses productive by region, 2011**

■ Abu Dhabi ■ Al Ain ■ Al Gharbia



Source: Statistics Centre - Abu Dhabi

**Table 1.39 Number and area of greenhouses productive by region in Abu Dhabi, 2011**

(Area in Donums)

Region	Productive greenhouse		Nonproductive greenhouse		Total	
	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>347</b>	<b>143</b>	<b>373</b>	<b>182</b>	<b>720</b>	<b>325</b>
Al Rahba	200	100	345	173	545	273
Al Khatim	147	43	28	9	175	52

Source: Abu Dhabi Food Control Authority



**Table 1.40 Number and area of greenhouses productive by region in Al Ain, 2011**

(Area in Donums)

Region	Productive greenhouse		Nonproductive greenhouse		Total	
	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>2,122</b>	<b>859</b>	<b>3,710</b>	<b>1,095</b>	<b>5,832</b>	<b>1,954</b>
Abu Kreyah	10	3	0	0	10	3
Al Arad	99	30	30	9	129	39
Al Damtha	0	0	158	52	158	52
Al Dhahra	131	39	0	10	131	49
Al Fagah	39	13	142	48	181	61
Al Hayer & Moheir	473	157	985	318	1,458	475
Al Khazna	0	0	7	2	7	2
Al Oya	33	8	0	0	33	8
Al Qattara	30	10	101	42	131	52
Al Saad	11	2	34	11	45	13
Al Salamat	62	20	59	16	121	35
Al Shewaib	49	18	118	38	167	56
Al Wagan	21	7	10	3	31	10
Al Yahar	0	0	0	0	0	0
Beda Fares	178	57	109	35	287	92
Gumodh	319	100	657	212	976	312
Masakin	14	5	329	105	343	110
Naahal	183	116	118	44	301	160
Remah & Abu Samraa	192	52	259	87	451	139
Seih Bin Ammar	0	132	415	0	415	132
Seih Herez & Al Ajban	102	33	3	1	105	34
Seraa	52	17	13	4	65	21
Sweihan	114	38	147	49	261	87
Um Ghafa	10	5	16	8	26	13
Wahat Al Sahara	0	0	0	0	0	0

Source: Abu Dhabi Food Control Authority

**Table 1.41 Number and area of greenhouses productive by region in Al Gharbia, 2011**

(Area in Donums)

Region	Productive greenhouse		Nonproductive greenhouse		Total	
	Number	Area	Number	Area	Number	Area
<b>Total</b>	<b>3,164</b>	<b>1,009</b>	<b>287</b>	<b>87</b>	<b>3,451</b>	<b>1,096</b>
Al Dhafra	0	0	0	0	0	0
Al Mirfaa	0	0	0	0	0	0
Al Silaa	0	0	0	0	0	0
Al Tharwaniya	565	181	0	0	565	181
Delma	4	2	4	1	8	3
Ghayathi	0	0	0	0	0	0
Hamim	119	52	15	7	134	58
Hassan	238	75	13	4	251	80
Madinat Zayed	0	0	3	1	3	1
Muzairaa	828	248	151	75	979	323
Seih Al Khair	1,378	441	101	0	1,479	441
Um Al Hassan	32	10	0	0	32	10

Source: Abu Dhabi Food Control Authority

## 1.8 Forests

Forests are not only considered as a wide green cover but they are deemed to be an economic and industrial supplier.

Forests prevent soil degradation and erosion; they also protect water springs, and maintain the stability of the mountains. Forests cool the air, absorb carbon dioxide and produce oxygen which reduces the global warming. Moreover, they function as wind barrier and provide a shelter for many plants and animals that can not only live in it.

The afforestation process in the Emirate of Abu Dhabi has made significant progress; during the last decades large areas had been afforested. This revitalized the environment of the desert and encouraged people to pay more attention to agriculture as a fundamental that affect the country's future and destiny in terms of deepening the link with land and achieving food security.

Forests are heavily spread in the Eastern region surrounding Al Ain region, and in Al Gharbia region up to the edge of the Empty Quarter. They also spread in Abu Dhabi city and its extensions in all directions, east, west and north.

These forests accommodate many wild animals, particularly various types of deer, such as the Arabian oryx, the goitred gazelle and the Indian spotted deer, as well as different types of birds such as ostriches and different kinds of wild rabbits.

The policy of the late Sheikh Zayed bin Sultan Al Nahyan had an influence in terms of paying attention to agriculture. He said once at the Earth Summit in Brazil in 1992 that 140 hectare had been planted in the Eastern region, full of trees till the edge of the Empty Quarter, known as the place with the driest and the harshest climate in the world.

The area planted with forests amounted to 1,693,500 donums in the Emirate of Abu Dhabi and the estimated number of trees is 17,408,021 in 2011. It is noticeable that most of the forest area is located in Al Ain region with 35.2% of the total forest area, followed by Abu Dhabi region with 32.5%, and the Al Gharbia with 32.3% of the total forest area in the Emirate of Abu Dhabi.

**Table 1.42 Number and area of forest trees by region, 2011**

(Area in Donums)

Region	Item	2011
Total	Number	17,408,021
	Area	1,693,500
Abu Dhabi	Number	8,028,311
	Area	550,700
Al Ain	Number	4,395,135
	Area	596,370
Al Gharbia	Number	4,984,575
	Area	546,430

Source: Environmental Agency - Abu Dhabi

## 1.9 Irrigated areas

The United Arab Emirates in general and the Emirate of Abu Dhabi in particular is considered one of the countries with limited water resources compared to the arable irrigated area, thus introducing advanced irrigation techniques will provide large amounts of water that helps in the horizontal expansion of the irrigated area. The irrigated area totaled 651,274 donums or 87% of the total area of plant holdings in the Emirate of Abu Dhabi.

Drip irrigation method is the most commonly used method with 591,452 donums or 91% of the total irrigated area in the Emirate of Abu Dhabi.

Most of the irrigated area is located in Al Ain region with 58%, followed by Al Gharbia with 29%, and Abu Dhabi region with 13% of the total irrigated area in the Emirate of Abu Dhabi.

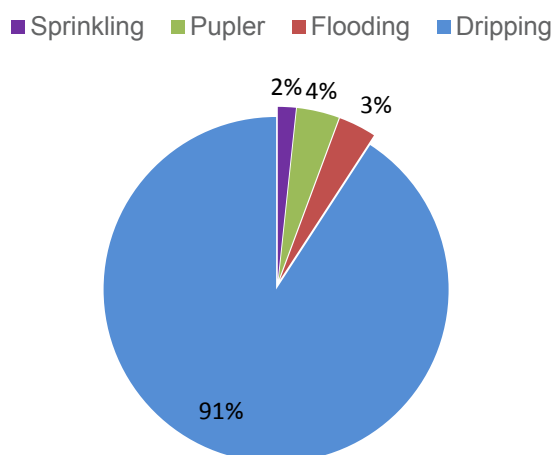
**Table 1.43 Irrigated areas by type of irrigation system and region, 2011**

(Area in Donums)

Region	Irrigation system				Total
	Dripping	Flooding	Pupler	Sprinkling	
Total	591,452	22,975	25,902	10,945	651,274
Abu Dhabi	84,970	0	0	0	84,970
Al Ain	317,014	22,935	25,742	10,705	376,396
Al Ghabia	189,468	40	160	240	189,908

Source: Abu Dhabi Food Control Authority

**Figure 1.16 Percentage distributions of irrigated areas by type of irrigation system, 2011**



Source: Statistics Centre - Abu Dhabi

**Table 1.44 Irrigated areas by type of irrigation system and region in Abu Dhabi, 2011**

(Area in Donums)

Region	Irrigation system				Total
	Dripping	Flooding	Pupler	Sprinkling	
<b>Total</b>	<b>84,970</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>84,970</b>
Al Rahba	52,669	0	0	0	52,669
Al Khatim	32,301	0	0	0	32,301

Source: Abu Dhabi Food Control Authority

**Table 1.45 Irrigated areas by type of irrigation system and region in Al Ain, 2011**

(Area in Donums)

Region	Irrigation system				Total
	Dripping	Flooding	Pupler	Sprinkling	
<b>Total</b>	<b>317,014</b>	<b>22,935</b>	<b>25,742</b>	<b>10,705</b>	<b>376,396</b>
Abu Kreyah	19,693	0	3,231	0	22,924
Al Arad	33,672	308	707	0	34,687
Al Damtha	8,302	540	1,228	200	10,270
Al Dhahra	15,361	0	3,168	36	18,565
Al Fagah	3,260	42	540	86	3,928
Al Hayer & Moheir	13,073	240	180	2,943	16,436
Al Khazna	19,676	2,880	0	160	22,716
Al Oya	18,708	1,097	0	600	20,405
Al Qattara	5,131	3,150	1,164	690	10,135
Al Saad	5,578	845	0	0	6,423
Al Salamat	9,528	0	2,746	0	12,274
Al Shewaib	2,235	20	689	705	3,649
Al Wagan	14,407	2,329	156	24	16,916
Al Yahar	1,601	359	142	42	2,144
Beda Fares	16,812	0	3,807	256	20,875
Gumodh	20,114	163	316	1,635	22,228
Masakin	7,667	1,370	545	690	10,272
Naahal	7,951	60	1,949	53	10,013
Remah & Abu Samraa	8,857	500	3,177	788	13,322
Seih Bin Ammar	15,793	6,038	264	1,336	23,431
Seih Herez & Al Ajban	29,042	0	1,297	66	30,405
Seraa	19,249	63	0	0	19,312
Sweihan	8,136	1,696	263	360	10,455
Um Ghafa	1,883	518	172	35	2,608
Wahat Al Sahara	11,285	717	0	0	12,002

Source: Abu Dhabi Food Control Authority

**Table 1.46 Irrigated areas by type of irrigation system and region in Al Gharbia, 2011**

(Area in Donums)

Region	Irrigation system				Total
	Dripping	Flooding	Pupler	Sprinkling	
<b>Total</b>	<b>189,468</b>	<b>40</b>	<b>160</b>	<b>240</b>	<b>189,908</b>
Al Dhafra	1,452	0	0	0	1,452
Al Mirfaa	950	0	0	0	950
Al Silaa	1,746	0	0	0	1,746
Al Tharwaniya	37,288	0	0	0	37,288
Delma	1,011	0	0	0	1,011
Ghayathi	17,458	0	0	0	17,458
Hamim	17,106	0	0	0	17,106
Hassan	27,091	0	0	0	27,091
Madinat Zayed	14,413	0	0	0	14,413
Muzairaa	33,639	0	0	0	33,639
Seih Al Khair	19,340	40	160	240	19,780
Um Al Hassan	17,974	0	0	0	17,974

Source: Abu Dhabi Food Control Authority

## 1.10 Agricultural producer price index

The price index of agricultural producers increased to 1.1% in 2011 compared with 2010, (2005 = 100). Among the most important crops contributing to this increase, were Onion by 15.9%, tomatoes by 8.0%, cucumber by 7.8%, eggplant by 6.9%, sweet melon by 6.1% and sugar beet by 5.9%.

The following crops experienced a decrease in prices, such as pepper, carrot, coriander, corn and turnip by 18%, 16.1%, 10%, 7.9% and 4.1% respectively.

**Table 1.47 Agricultural producer price index , 2008 to 2011**

(2005 = 100)

Crop	2008	2009	2010	2011
<b>All products</b>	<b>95.2</b>	<b>104.8</b>	<b>103.5</b>	<b>104.6</b>
Tomato	95.2	97.4	94.7	102.3
Pepper	74.8	115.3	74.8	61.2
Cucumber	101.8	100.9	100.2	108.1
Marrow	100.2	98.5	93.1	96.4
Sweet Cucumber	-	89.2	-	-
Water Melon	119.9	99.5	100.3	101.8
Sweet Melon	102.1	99.5	104.4	110.8
Onion	113.6	108.9	108.2	125.5
Cowpeas	100.9	110.0	100.0	-
Beans	100.6	100.3	100.5	100.8
Peas	101.2	100.9	100.5	105.1
Eggplant	97.7	101.0	96.5	103.2
Cauliflower	97.5	102.7	103.7	104.1
Broad Bean	99.4	98.5	100.0	115.0
Cabbage	86.7	104.9	105.3	105.5
Lettuce	104.4	107.6	129.3	-
Spinach	82.4	100.0	-	-
Jews Mallow	115.9	107.7	110.0	137.5
Coriander	105.1	94.9	104.4	93.9
Beets	93.6	89.8	89.7	95.0
Parsley	101.1	103.0	102.4	104.1
Potato	107.2	111.2	-	105.2
Corn	112.4	108.9	114.6	105.5
Turnip	97.2	100.0	100.0	95.8
Carrot	111.6	101.9	96.3	80.7
Garden Rocket	-	106.0	105.5	-

Source: Statistics Centre - Abu Dhabi

## 1.11 Wells

The total number of wells in the Emirate of Abu Dhabi equaled 70,666 wells, of which 70% are operating wells. Classifying the operating wells by region, results show that 63% of the operating wells are located in Al Ain, followed by Al Gharbia with 32% and finally Abu Dhabi with 5% of the total number of operating wells in the Emirate of Abu Dhabi.

**Table 1.48 Number of agricultural wells by region, 2011**

Region	working wells	non-working wells	Total
<b>Total</b>	<b>49,273</b>	<b>21,393</b>	<b>70,666</b>
Abu Dhabi	2,420	1,180	3,600
Al Ain	30,899	15,944	46,843
Al Gharbia	15,954	4,269	20,223

Source: Abu Dhabi Food Control Authority

## 1.12 Loans given to the farmers

Agricultural loans play an important and essential role in developing the sector, increasing the production and sustaining agricultural projects through utilizing modern production means, employing labor and diversifying agricultural activities that support agricultural producers.

The loan has many forms such as machinery, agricultural equipment and drip irrigation system or in fertilizers and agricultural pesticides. The total value of loans granted to farmers in 2011 amounted to AED 18,488.

**Table 1.49 Value of loans given to the farmers by region, 2005 to 2011**

Value: 1000 AED

Region	2005	2009	2010	2011
<b>Total*</b>	<b>46,509</b>	<b>25,755</b>	<b>26,719</b>	<b>18,488</b>
Abu Dhabi**	5,689	4,280	4,967	52
Al Ain	40,820	21,475	21,752	18,436

Source: Abu Dhabi Food Control Authority

\* The Farmer pay only 50% of the value of the Loan

\*\* Abu Dhabi data Includes Al Gharbia



**Table 1.50 Value of loans given to the farmers by type and region, 2011**

Value: 1000 AED

Type	Abu Dhabi	Al Ain	Al Gharbia	Total
<b>Total*</b>	<b>47</b>	<b>18,436</b>	<b>4</b>	<b>18,488</b>
Machines & Pumps	0	18,239	0	18,239
Plastic Boxes & Veg. Bags	30	139	0	169
Pipes Plastic	0	0	0	0
Org. Fertilizers	0	0	0	0
Barbed Wires	2	1	0	4
Others	15	57	4	76

Source: Abu Dhabi Food Control Authority

\* The Farmer pay only 50% of the value of the Loan

**Table 1.51 Quantity and value of loans given to the farmers by type in Abu Dhabi, 2011**

Value: 1000 AED

Type	Units	Quantity	Value
<b>Total*</b>			<b>47</b>
Machines & Pumps	Number	0	0
Plastic Boxes & Veg. Bags	Number	300,000	30
Pipes Plastic	Number	0	0
Org. Fertilizers	Tons	0	0
Barbed Wires	Roll	42	2
Others	Number	220	15

Source: Abu Dhabi Food Control Authority

\* The Farmer pay only 50% of the value of the Loan

**Table 1.52 Quantity and Value of Loans given to the Farmers by Type in Al Ain, 2011**

Value: 1000 AED

Type	Units	Quantity	Value
<b>Total*</b>			<b>18,436</b>
Machines & Pumps	Number	486	18,239
Plastic Boxes & Veg. Bags	Number	645,000	139
Pipes Plastic	Number	0	0
Org. Fertilizers	Tons	0	0
Barbed Wires	Roll	25	1
Others	Number	817	57

Source: Abu Dhabi Food Control Authority

\* The Farmer pay only 50% of the value of the Loan

**Table 1.53 Quantity and Value of Loans given to the Farmers by Type in Al Gharbia 2011**

Value: 1000 AED

Type	Units	Quantity	Value
<b>Total*</b>			<b>4</b>
Machines & Pumps	Number	0	0
Plastic Boxes & Veg. Bags	Number	0	0
Pipes Plastic	Number	0	0
Org. Fertilizers	Tons	0	0
Barbed Wires	Roll	5	0
Others	Number	60	4

Source: Abu Dhabi Food Control Authority

\* The Farmer pay only 50% of the value of the Loan

### 1.13 Agricultural pesticides

Pesticides are widely used in the agricultural activity to combat various agricultural pests that are damaging crops, or reducing production. There are different types of agricultural pesticides, including pest pesticides, fungicides, spider's pesticides and other. Pesticides are deemed to be the most commonly used in the Emirate.

**Table 1.54 Quantity of chemicals used by type and region, 2011**

Description	Units	Abu Dhabi	Al Ain	Al Gharbia	Total
<b>Insecticides</b>	Liter	58	162,679	1,713	<b>164,450</b>
	Kilogram	621	307	23	<b>951</b>
<b>Fungicides</b>	Liter	0	0	0	<b>0</b>
	Kilogram	262	55,193	86	<b>55,541</b>
<b>Acaroids</b>	Liter	0	53,103	3,032	<b>56,135</b>
	Kilogram	0	72	24	<b>96</b>
<b>Phostoxin</b>	Number	0	0	0	<b>0</b>
	Kilogram	0	1,823	482	<b>2,305</b>
<b>Pheromones</b>	Number	26,643	151,474	110,571	<b>288,688</b>
<b>Kairmone</b>	Number	0	0	0	<b>0</b>
<b>Others</b>	Liter	0	6,307	3	<b>6,310</b>
	Kilogram	0	588	0	<b>588</b>

Source: Abu Dhabi Food Control Authority

## **2. Foreign Trade In Agricultural Commodities**

## 2.1 Introduction

The Emirate of Abu Dhabi witnessed an active movement in the foreign trade of agricultural commodities, thanks to its geographical location and proximity to the East Asian countries as well as trade facilitation, trade laws and regulations that helped the development and growth of trade for both agricultural commodities and food products.

Foreign trade data on agricultural commodities show that 2011 had witnessed a 21.6% increase compared with 2010.

The value of agricultural commodities imports in 2011 increased by 23.4% compared with 2010 and the value of exports rose in 2011 by 4.1%. At the same, the value of re-exports of increased by 0.4% compared with 2010.

Data of the agricultural goods and food imports indicate that animal and vegetables oils and grease have increased by 55% compared with 2010, plant products by 29%, foodstuffs, beverages, spirits and tobacco by 17%, live animals and their products by 16% and fertilizer by 6% compared with 2010. Imports of pesticides and rodents in 2011 decreased by 17% compared with 2010.

The data of agricultural goods and food show that fertilizer exports has increased by 14% in 2011 compared with 2010, meanwhile exports of fats and oils by 13% in 2011 compared with 2010. At the same time, exports of animal and vegetables oils and grease increased by 13%, foodstuffs, beverages, spirits and tobacco increased by 4 % in 2010 compared to 2009. At the same time, exports of pesticides and rodents in 2011 decreased by 60% compared with 2010, as well as exports of Live animal and their products which decreased by 16% in 2011 compared with 2010.

Data on agricultural re-exported goods indicate that fertilizer re-exports in 2011 increased by 112% compared with 2010, while animal and vegetables oils and grease re-exports increased by 43%. Re-exports of Live animal and their products increased by 19% and foodstuffs, beverages, spirits and tobacco by 3%. Plant products decreased in 2011 by 9% compared with 2010.

The contribution of imports to the total foreign trade of agricultural commodities in the Emirate of Abu Dhabi accounted for 92.2%, meanwhile the contribution of exports to the foreign trade of agricultural commodities accounted for 6.5%, and the re-exports of agricultural goods and food have was 1.3% to the total foreign trade of goods agriculture in the Emirate of Abu Dhabi in 2011.

**Table 2.1 Value of agricultural commodities imported, exported, re-exported through the Ports of the Emirate of Abu Dhabi, 2005 to 2011**

Value: 000 AED

Year	Imports	Exports	Re-Exports	Total
2005	3,317,479	293,298	163,206	<b>3,773,984</b>
2006	3,627,429	343,956	94,308	<b>4,065,693</b>
2007	4,432,513	448,799	130,883	<b>5,012,195</b>
2008	5,679,425	614,156	131,842	<b>6,425,422</b>
2009	6,395,953	447,497	91,691	<b>6,935,140</b>
2010	6,705,979	561,997	115,902	<b>7,383,878</b>
2011	8,275,498	584,835	116,382	<b>8,976,715</b>

Source: Statistics Centre - Abu Dhabi

**Table 2.1 Value of agricultural commodities imported, exported, re-exported through the Ports of the Emirate of Abu Dhabi, 2005 to 2011**



Source: Statistics Centre - Abu Dhabi

**Table 2.2 Value of Emirate of Abu Dhabi imports of agricultural goods and foods, 2005 to 2011**

( Value: 000 AED)

Description	2005	2009	2010	2011
<b>Total</b>	<b>3,317,479</b>	<b>6,395,953</b>	<b>6,705,979</b>	<b>8,275,498</b>
Live animals and their products	980,136	1,784,291	1,891,753	2,186,142
Vegetable products	1,257,529	2,869,276	2,816,473	3,635,564
Animals or vegetable fats, oils and waxes	182,638	268,108	328,253	509,402
Foodstuffs, beverages, spirits and tobacco	812,332	1,408,733	1,581,916	1,859,382
Fertilizers	61,320	38,648	52,728	55,944
Pesticides and rodents, fungi, weeds	23,524	26,898	34,857	29,064

Source: Statistics Centre - Abu Dhabi

**Table 2.3 Value of Emirate of Abu Dhabi of exports of agricultural goods and food, 2005 to 2011**

( Value: 000 AED)

Description	2005	2009	2010	2011
<b>Total</b>	<b>293,298</b>	<b>447,497</b>	<b>561,997</b>	<b>584,835</b>
Live animals and their products	48,647	107,913	112,270	94,626
Vegetable products	34,120	37,667	60,009	64,565
Animals or vegetable fats, oils and waxes	125,751	107,554	154,475	175,404
Foodstuffs, beverages, spirits and tobacco	47,761	143,326	181,108	188,735
Fertilizers	37,020	51,036	53,929	61,426
Pesticides and rodents, fungi, weeds	0	0	205	81

Source: Statistics Centre - Abu Dhabi

**Table 2.4 Value of re-exports of agricultural goods and foods through the ports of the Emirate of Abu Dhabi, 2005 to 2011**

( Value: 000 AED)

Description	2005	2009	2010	2011
<b>Total</b>	<b>163,206</b>	<b>91,691</b>	<b>115,902</b>	<b>116,382</b>
Live animals and their products	37,679	32,854	20,673	24,552
Vegetable products	45,012	18,965	64,978	59,342
Animals or vegetable fats, oils and waxes	27,766	9,655	1,106	1,581
Foodstuffs, beverages, spirits and tobacco	50,855	29,004	28,416	29,383
Fertilizers	682	948	630	1,334
Pesticides and rodents, fungi, weeds	1,213	264	98	190

Source: Statistics Centre - Abu Dhabi

**Table 2.5 Quantity of imports, exports and re-exports of agricultural fertilizers through the ports of the Emirate of Abu Dhabi, 2005 to 2011**

Quantity: tons

Year	Imports	Exports	Re-Exports	Total
2005	85,897	18,805	310	<b>105,012</b>
2007	22,112	20,568	308	<b>42,988</b>
2008	20,892	20,361	188	<b>41,441</b>
2009	18,690	19,138	103	<b>37,930</b>
2010	24,707	18,935	300	<b>43,942</b>
2011	24,472	18,692	403	<b>43,568</b>

Source: Statistics Centre - Abu Dhabi

**Table 2.6 Value of imports, exports and re-exports of agricultural fertilizers through the ports of the Emirate of Abu Dhabi, 2005 to 2011**

( Value: 000 AED)

Year	Imports	Exports	Re-Exports	Total
2005	61,320	37,020	683	<b>99,022</b>
2007	33,595	47,346	474	<b>81,415</b>
2008	54,408	79,692	202	<b>134,302</b>
2009	38,648	51,036	948	<b>90,633</b>
2010	52,728	53,929	630	<b>107,287</b>
2011	55,944	61,426	1,334	<b>118,703</b>

Source: Statistics Centre - Abu Dhabi

### 3. Annex



## Explanatory notes

### Definitions and classifications

- **Agricultural holding:** an economic unit for agricultural production that is subject to a single administrative unit, and consists of all or part of the lands utilized for the purposes of agricultural production, regardless of ownership, legal form or area. The single unit may be under the control of an individual or a family, or may be shared by two persons or two families or more. It also may be under the control of a clan or a tribe, or may be subject to the control of a legal person such as a company or a cooperative society, or governmental agency. A holding may consist of one piece (partial holding) or more that is located in one or more of the separated areas of a regional or administrative jurisdiction, provided that all holdings share the same production methods utilized by the holding such as laborers, buildings, machines, or draft animals. Sharing the same production methods must be evident to an extent that justifies considering all land pieces an integral part of one economic unit. The economic units whose activities are confined to the hereunder economic activities may not be regarded as agricultural holdings; as such economic activities are located outside the agricultural framework:
  - 1- Hunting and breeding game.
  - 2- Exploiting forests or wood cutting.
  - 3- Fishing.
  - 4- Agricultural services.
- **Part of holding:** it is a piece of land that is separated from other holding lands, whether it be land not under the control of the holding owner, or separated by a railroad, or a public road, or by forests, or anything similar.
- **Aggregated holding area:** it is the overall area of all pieces of land comprising an agricultural holding. Any land that is owned by the holding owner or leased to others should not be accounted for in calculating the holding area. The aggregated holding area consists of the farmyard, and the area upon which a farm building are erected. Further, the dwelling of the holding owner is also calculated within the holding area, unless it is erected outside the holding parameters (i.e. in a residential area of a village or a close city), and not for residential purposes. The aggregated holding area should include the area cultivated with crops during the reference period, and the farmed area which is not cultivated yet. Deserted land should not be taken into account during the reference period. Holding owners should not also take into account their estimated share of land used as pastures. The aggregated holding area should be equal to the total land area used for different purposes.

- **Agricultural land:** it is the collective number of lands that cover most of the land uses, consisting of temporary farming land, land for permanent crops, permanent grazing land, fallow land, and other lands not specified elsewhere.
- **Nun arable area:** it is part of the aggregated area of a holding that is not suitable for any farming due to a permanent or temporary obstacle, such as salinity, rocky terrain, and extreme slopes.

## Explanatory notes

### Data sources

The report data was sourced from Abu Dhabi Food Control Authority, Department of Municipalities (Abu Dhabi, Al Ain, Al Gharbia) and Al Foah Company. SCAD thereafter subjected the data to further checking and research.

### Notes on tables

- The term plant holding in this bulletin means plant farms in the Emirate of Abu Dhabi.
- The number and area of palm trees in the bulletin refers to the area and the number of palm trees in the plant holdings only.
- Some figures have been rounded to the nearest final digit shown. Consequently, discrepancies may exist within a table between totals and sums of constituent items.

### More information

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

The next release is expected in September 2012 for 2013 data

w w w . s c a d . a e

---

Tel: +971 2 8100000 - Fax: +971 2 8100800

P.O. Box: 6036, Abu Dhabi, U.A.E.