

## 1. AGRICULTURE



**1.01a Livestock in Grand Cayman - Goats, 2006 - 2009**

Year <sup>1</sup>	Number of Known Farmers	Bucks	Does	Kids < 2 Months	Kids 2-6 months	Kids	Total	Annual Percentage Change
						6 months - 1 year <sup>2</sup>		
2006	58	92	484	380	219	313	1,488	
2007	58	79	586	566	328	350	1,909	28.3
2008	58	72	686	587	409	417	2,171	13.7
2009 <sup>3</sup>	51	62	612	470	493	517	2,154	(0.8)

**Notes:**

<sup>1</sup> The data were collected over a period of time (a few weeks each year) but not at the same time each year

<sup>2</sup> Kids 6 months to one year would approximate animals ready for market/ marketable sized animals.

<sup>3</sup> For 2009 the data were collected in May and November and the average of the two periods used.

**1.01b Livestock in Grand Cayman - Pigs, 2006 - 2009**

Year <sup>1</sup>	Number of Known Farmers	Bores	Sows	Piglets < 2 Months	Weaners	Fatteners <sup>2</sup>	Total	Annual Percentage Change
					2-4 months			
2006	20	32	148	342	226	221	969	
2007	20	39	198	375	188	227	1,027	6.0
2008	20	30	182	262	182	276	932	(9.3)
2009 <sup>3</sup>	16	23	193	336	254	257	1,063	14.1

**Notes:**

<sup>1</sup> The data were collected over a period of time (a few weeks each year) but not at the same time each year.

<sup>2</sup> Fatteners would approximate animals ready for market/ marketable sized animals.

<sup>3</sup> For 2009 the data were collected in May and November and the average of the two periods used.

**1.01c Livestock in Grand Cayman - Cattle, 2006 - 2008**

Year <sup>1</sup>	Number of Known Farmers	Bulls	Cows	Calves		Fatteners 12-18 Months <sup>2</sup>	Total	Annual Percentage Change
				6-12 Months	12-18 Months			
2006	143	149	739	323	320	405	1,936	
2007	141	145	835	381	415	511	2,287	18.1
2008	139	138	881	339	577	585	2,520	10.2
2009 <sup>3</sup>	133	128	700	301	413	519	2,061	(18.2)

**Notes:**

<sup>1</sup> The data were collected over a period of time (several weeks each year) but not at the same time each year.

<sup>2</sup> Fatteners would approximate animals ready for market/ marketable sized animals.

<sup>3</sup> For 2009 the data were collected in May and November and the average of the two periods used.

Source: Department of Agriculture

**1.01d Livestock in Cayman Brac - Cattle, 2007 and 2009**

Year <sup>1</sup>	Number of Known Farmers	Bulls	Cows	Calves < 6		Fatteners	Total
				Months	Calves 2- 6 months	12-18 months <sup>2</sup>	
2007	10	12	49	19	22	24	126
2009 <sup>3</sup>	9	10	56	22	29	53	170

**Notes:**

<sup>1</sup> The data were collected over a period of time (a few weeks each year) but not at the same time each year

<sup>2</sup> Kids 6 months to one year would approximate animals ready for market/ marketable sized animals.

<sup>3</sup> For 2009 the data were collected in May and November and the average of the two periods used.

Source: Department of Agriculture

**1.02 Sales of Fertilizers by Department of Agriculture<sup>1</sup>, 2006 - 2009**

Description <sup>2</sup>	Unit Size	Quantity No. of Units			
		2006	2007	2008	2009
12-6-24	50 LB	0	0	787	2428
12-8-28	50 LB	2,153	2,453	1,343	0
6-6-6 FERTILIZER	50 LB	228	265	359	149
Ammonium Nitrate	50 LB	10	0	0	0
Ammonium Sulphate	50 LB	347	419	530	412
Triple Super Phosphate	50 LB	76	81	177	170
Potassium Nitrate	50 LB	109	83	110	17
Potassium Sulphate	50 LB	57	31	34	19
Calcium Sulphate (Gypsum)	50 LB	106	89	90	70
Minor Element Mix (Microplex)	5 LB	6	5	14	1
Chelated Iron	5 LB	21	26	29	25
Stop Blossom End Rot	1 QT	14	5	16	39
Rescue Organic Fertilizer	2.5 LB	0	0	157	117
Rescue Organic Fertilizer	12 LB	0	0	87	127
Rescue Organic Fertilizer	50 LB	0	0	97	659

**Notes**

<sup>1</sup> Data do not include fertilizer sales by nurseries, garden centres or private sector retailers

<sup>2</sup> The numbers 12-8-28 are the N-P-K ratios of the fertilizer, that is, the proportion of Nitrogen (N), Phosphorous (P) and Potassium (K) contained in a blended fertilizer.

12-8-28 is Multi-purpose fertilizer used in agriculture and horticulture that has been formulated to suit Cayman Islands' soil nutrient profiles which is low in Potassium (K)

The Department switched from 12-8-28 to 12-6-24 in the later half of 2008 to reduce cost in the face of skyrocketing fertilizer prices driven by high oil prices.

Ammonium Nitrate fertilizer is no longer available as current US port security and shipping regulations prohibit the export of this fertilizer due to its potential explosive properties.

The small quantity sold in 2006 represented the remaining inventory that was imported prior to the introduction of the current US regulations.

The Rescue Organic Fertilizers were introduced in 2008.

Source: Department of Agriculture

**1.04 Farmer Registration by District**

District	Number of Registered Farmers <sup>1</sup>
<b>Total</b>	<b>302</b>
George Town	40
West Bay	32
Bodden Town	93
North Side	40
East End	81
Cayman Brac	16

**Note:**

<sup>1</sup> The Table indicates the number of persons registered as farmers between 1998 & 2007 and excludes those deceased or confirmed out of farming.

The existing Farmers Registration Programme is currently undergoing a comprehensive review to create a new Agricultural Sector Registration Programme which will more accurately capture and categorize all those persons involved in agricultural related enterprises, many of whom presently fall outside of the current registration programme.

Source: Department of Agriculture

## 5. ENVIRONMENT





**5.01 Weather Synopsis, 2005 - 2009**

	2005	2006	2007	2008	2009
<b>Highest daily temperature</b>					
- deg. F	92.9	92.1	92.0	92.1	92.5
- Date	Sep.11th	Sep.20th	Aug 2nd.	Aug.8th	July 27th
<b>Lowest daily temperature</b>					
- deg. F	62.2	68.2	65.1	62.6	67.1
- Date	Jan. 22nd	Mar. 7th	Apr. 18th	Jan. 16th	Feb. 5th
<b>Annual average temperature</b>					
- deg. F	82.4	82.4	82.6	82.1	82.1
<b>Total precipitation</b>					
- inches	71.64	66.48	53.09	71.74	50.0
<b>Most rain in 24 hour period</b>					
- inches	7.4	4.2	3.2	6.1	6.6
- Date	Nov. 17th	Jun. 8th	Oct. 9th	Nov.7th	Oct. 18th
<b>Number of days:</b>					
- rain <sup>1</sup>	160	179	180	179	162
- clear	11	9	1	3	2
- partly cloudy	199	200	230	206	193
- cloudy	155	156	134	157	170

**Note:**

<sup>1</sup> At least 0.01 inches of rain

The Cayman Islands have a tropical marine climate with two distinct seasons; a wet season from May to November and a relatively dry season from December to April.

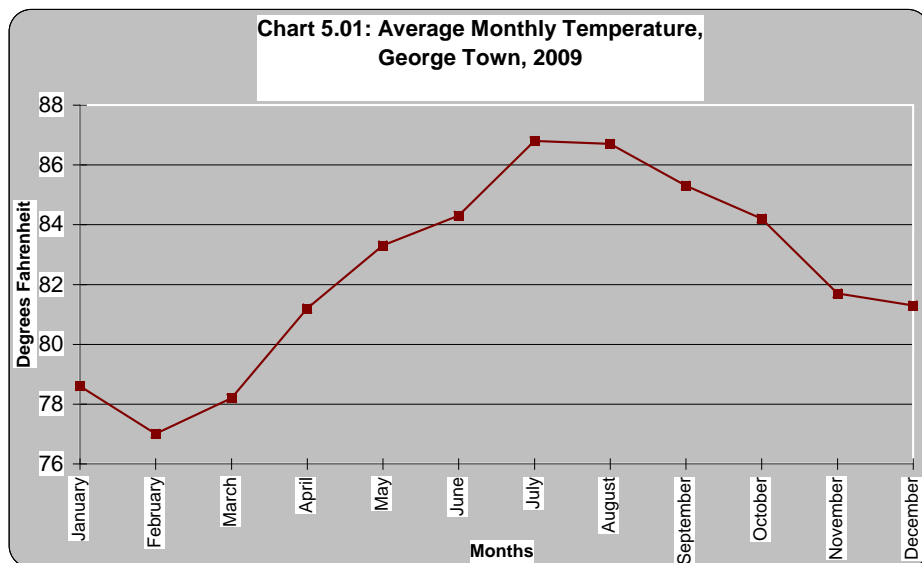
In 2009 there was 203 days free of rainfall and 162 days which rainfall was recorded. The average annual temperature in 2009 was 28 deg. C/ 82.4 deg. F. The highest monthly average temperature recorded was 30.4deg. C/ 86.8 deg. F during the month of July with the lowest monthly average of 25.0 deg. C/ 77.0deg. F occurring in the month of February.

Source: Meteorological Office, Cayman Islands Airports Authority



**5.02 Average Monthly Temperature for George Town, 2005 - 2009**

	<i>Degrees Fahrenheit</i>				
	2005	2006	2007	2008	2009
January	78.3	78.8	80.6	78.8	78.6
February	77.9	77.9	80.0	80.0	77.0
March	81.0	80.0	81.0	80.0	78.2
April	82.8	81.5	81.4	81.3	81.2
May	84.1	84.0	82.5	83.7	83.3
June	85.0	84.0	84.7	84.3	84.3
July	85.5	85.4	86.6	85.1	86.8
August	86.0	85.7	85.4	85.8	86.7
September	85.9	85.2	84.2	85.4	85.3
October	82.3	84.3	83.3	82.3	84.2
November	81.6	81.1	81.5	79.6	81.7
December	80.3	81.4	80.4	79.1	81.3
<b>Annual Avg.</b>	<b>82.6</b>	<b>82.4</b>	<b>82.6</b>	<b>82.1</b>	<b>82.4</b>

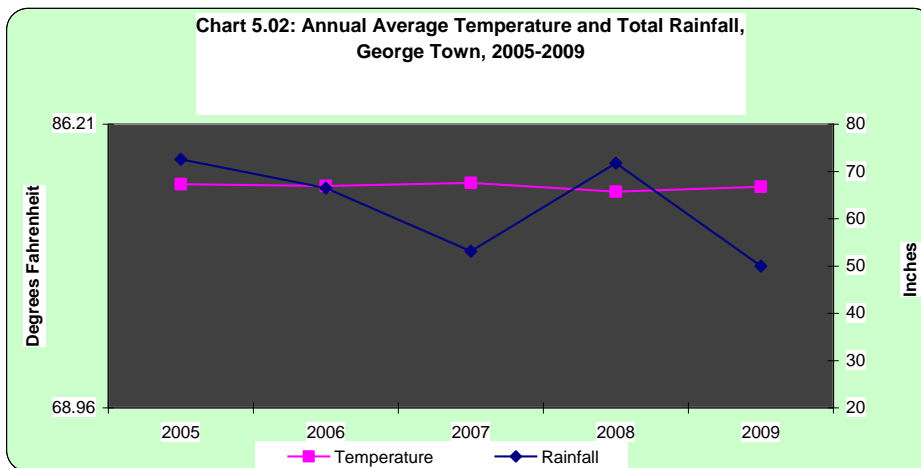


Source: Meteorological Office, Cayman Islands Airports Authority

## 5.03a

## Monthly Rainfall for George Town, 2005 - 2009

	<i>Inches</i>				
	2005	2006	2007	2008	2009
<b>GEORGE TOWN</b>					
January	0.3	0.9	0.4	3.2	1.6
February	0.1	1.5	0.3	2.3	0.2
March	1.2	0.0	0.7	3.2	0.7
April	1.1	0.6	1.6	0.7	0.2
May	1.6	2.6	10.9	2.7	1.0
June	11.9	14.6	8.0	4.3	8.0
July	12.2	9.7	3.6	11.3	1.8
August	7.5	4.9	4.5	4.5	0.6
September	6.4	11.3	5.6	5.7	9.5
October	16.2	9.9	13.3	15.4	16.2
November	12.0	4.5	1.8	14.4	7.3
December	2.0	5.9	2.5	4.1	3.1
<b>Annual Avg.</b>	<b>6.0</b>	<b>5.5</b>	<b>4.4</b>	<b>6.0</b>	<b>4.2</b>



Source: Meteorological Office, Cayman Islands Airports Authority

## 5.03b

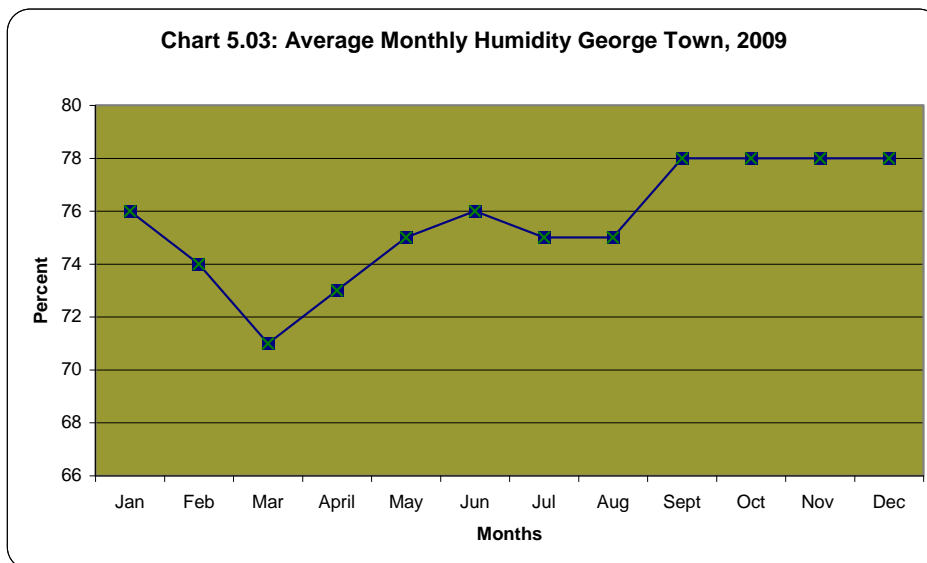
## Annual Rainfall by selected District, 2005 - 2009

District	2005	2006	2007	2008	2009
<b>George Town</b>	72.5	66.5	53.1	71.8	50.0
<b>Bodden Town</b>	68.4	62.4	73.5	57.8	46.9
<b>West Bay</b>	48.9	30.3	36.9	62.8	40.3
<b>East End</b>	61.6	61.8	63.2	58.1	50.6

Source: Meteorological Office, Cayman Islands Airports Authority

**5.04 Average Monthly Humidity, George Town, 2005 - 2009**

	2005	2006	2007	2008	Percent 2009
January	73	76	78	76	76
February	72	79	77	76	74
March	75	73	75	76	71
April	73	74	75	74	73
May	76	73	79	75	75
June	80	81	80	78	76
July	79	77	74	76	75
August	78	78	77	76	75
September	77	77	78	77	78
October	82	79	81	81	78
November	80	77	76	81	78
December	79	82	76	78	78
<b>Annual Average</b>	<b>77</b>	<b>77</b>	<b>77</b>	<b>77</b>	<b>76</b>



Source: Meteorological Office, Cayman Islands Airports Authority

**5.05 Mosquito Densities<sup>1</sup>, Grand Cayman, 2005 - 2009**

	<i>Average catch per trap per night</i>				
	2005	2006	2007	2008	2009
January	33.7	14.7	4.4	9.8	37.0
February	12.6	8.2	5.4	14.1	22.7
March	7.1	4.1	21.2	16.7	23.5
April	4.9	18.0	7.4	15.0	10.2
May	8.3	8.1	19.8	4.9	19.4
June	36.2	50.9	103.7	24.1	46.3
July	19.1	66.5	54.6	46.3	97.6
August	10.5	108.8	36	61.4	80.7
September	27.5	25.2	71.9	36.7	120.7
October	95.5	40.7	32.1	38.9	219.8
November	27.5	30.3	15.5	22.0	296.3
December	8.5	22.2	11.7	40.4	87.4
<b>Annual Average</b>	<b>24.3</b>	<b>33.1</b>	<b>32.0</b>	<b>27.5</b>	<b>88.5</b>
Number of traps	31	31	31	31	31

**Notes:**

<sup>1</sup> As measured by the island wide network of New Jersey light traps. A dozen or so species are included. The most common specie has been the Salt Marsh mosquito: *Aedes taeniorhynchus*

Source: Mosquito Research and Control Unit

## 5.06

## Cayman Islands Land Cover, 2006

Land Cover Category	Total area (acre)			Protected (acre)			Percentage Protected		
	GC <sup>1</sup>	LC <sup>2</sup>	CB <sup>3</sup>	GC <sup>1</sup>	LC <sup>2</sup>	CB <sup>3</sup>	GC <sup>1</sup>	LC <sup>2</sup>	CB <sup>3</sup>
Wetland	17,571	1,901	131	3,128	145	15	17.8	7.6	11.5
Xerophytic shrubland <sup>4</sup>	3,426	2,648	649	65	113	16	1.9	4.3	2.5
Dry Forest	7,536	1,927	4,559	550	71	262	7.3	3.7	5.7
Man-modified areas	20,862	520	3,998	45	8	28	0.2	1.6	0.7
Total area (acre)	49,395	6,996	9,337	3,788	337	321	7.7	4.8	3.4
Total area (sq. miles)	76	11	15						

**Note:**

<sup>1</sup> GC - Grand Cayman

<sup>2</sup> LC - Little Cayman

<sup>3</sup> CB - Cayman Brac

<sup>4</sup> Xerophytic = a plant which is able to survive in an environment with little available water or moisture

Source: Department of Environment

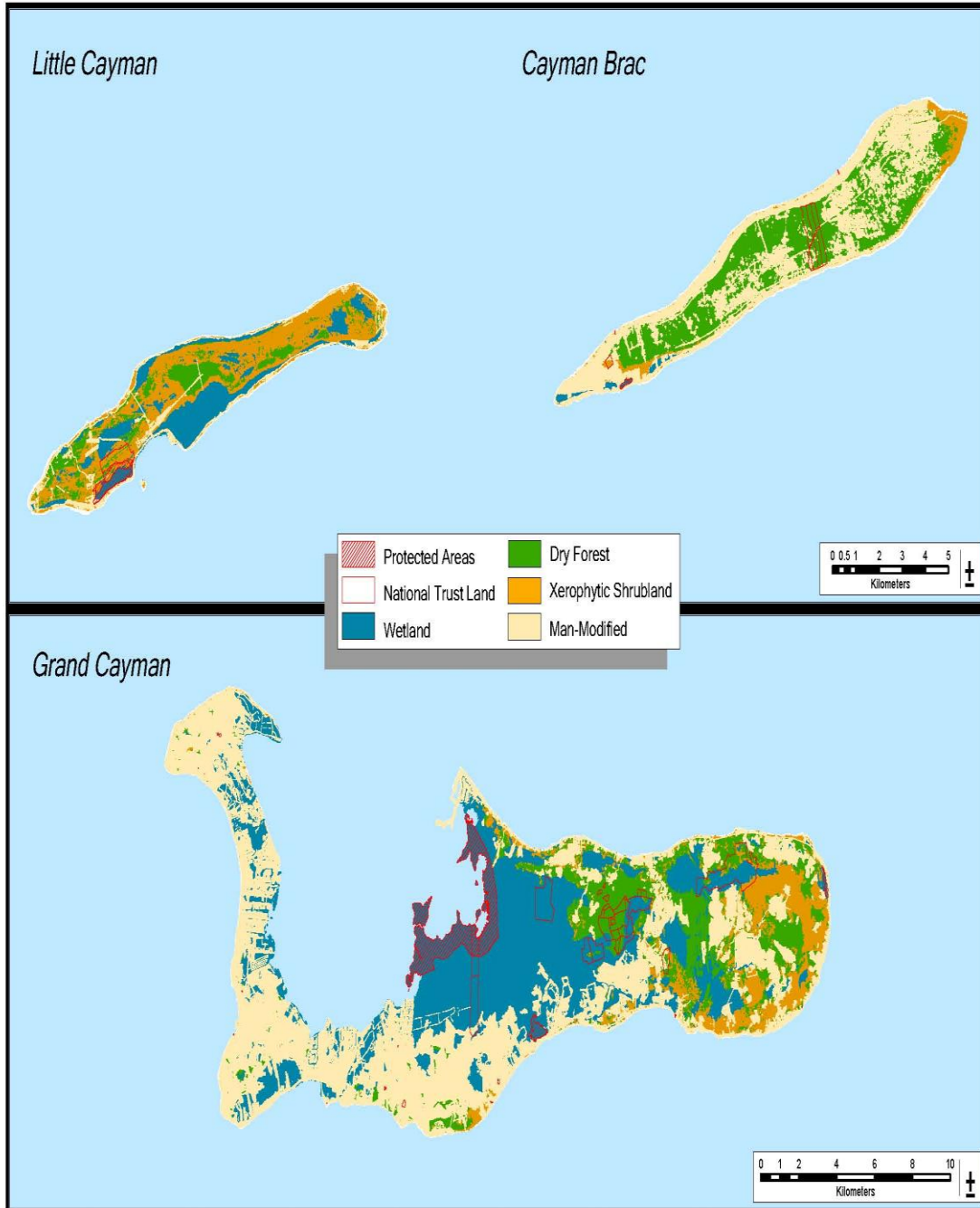
## 5.07

## Buildings and Roads, 2006

	Grand Cayman	Cayman Brac	Little Cayman
Number of buildings	18,671	2,066	334
Building area (acre)	1,007	65	11
Length of roads (km)	500	96	47

Source: Department of Environment

Chart 5.04: Cayman Islands Land Cover Classification, 2006



Source: Department of Environment