

1. AGRICULTURE



1.01 Agricultural Production on Grand Cayman, 1994 - 2000

Crop	Units	1994	1995	1997	1998	1999	2000 ²
Avocados	('000 lbs.)	13.9	20.6	8.1	8.0	27.1	30.8
Bananas	('000 lbs.)	422.3	570.0	678.6
Breadfruit	('000 lbs.)	13.7	35.7	4.6	17.3	15.4	12.8
Cassava	('000 lbs.)	28.0	19.6	26.1	34.3	30.7	21.9
Coconuts	('000 lbs)	0.6	-	-	-
Citrus	('000s)	102.1	148.0	116.7	432.7	355.1	545.1
Eggs	('000 doz.)	7.8	0.2	..	-	-	-
Honey	('000 lbs.)	5.4	0.4	..	0.8	0.8	1.3
Leafy Veggies. ¹	('000 lbs.)	35.2	41.9	38.1	41.2	58.2	61.1
Mangoes	('000 lbs.)	73.0	48.8	64.1	78.5	109.1	184.4
Papaya	('000 lbs.)	31.3	14.5	9.5	12.2	15.5	21.6
Plantains	('000 lbs.)	91.0	105.2	22.2	61.0	52.6	46.3
Pumpkins	('000 lbs.)	123.1	143.0	67.0	121.9	75.7	96.2
Sweet Potatoes	('000 lbs.)	4.4	15.0	5.2	10.1	5.8	5.7
Tomatoes	('000 lbs.)	10.4	15.0	8.6	30.3	25.7	16.8
Melons	('000 lbs.)	21.1	5.5	9.2	11.7	17.4	17.4
Yams	('000 lbs.)	73.2	44.8	4.3	20.2	39.5	38.6

Notes:

¹ Calaloo and Pakchoi.

² More recent data was not available at the time of publication

The agricultural sector in the Cayman Islands is small. It consists of animal husbandry - large and small livestock animals - tree crops, vegetables and root crops for domestic consumption. In the Labour Force Survey 2008 less than two percent of the workforce responded "Agriculture and Fishing" as their main job.

Source: Department of Agriculture and Economics and Statistics Office

1.02a Livestock in Grand Cayman - Goats, 2006 - 2008

Year ¹	Number of Known Farmers ²	Bucks	Does	Kids			Total	Annual Percentage Change
				Kids < 2 Months	Kids 2-6 months	6 months - 1 year ³		
2006	58	92	484	380	219	313	1,488	
2007	58	79	586	566	328	350	1,909	28
2008	58	72	686	587	409	417	2,171	14

Notes:

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

² Data were collected from the same 58 farmers each year. Efforts were made to determine if new farmers had entered the sub-sector.

³ Kids 6 months to one year would approximate animals ready for market/ marketable sized animals.

1.02b Livestock in Grand Cayman - Pigs, 2006 - 2008

Year ¹	Number of Known Farmers ²	Bores	Sows	Weaners			Total	Annual Percentage Change
				Piglets < 2 Months	2-4 months	Fatteners ³		
2006	20	32	148	342	226	221	969	
2007	20	39	198	375	188	227	1,027	6
2008	20	30	182	262	182	276	932	(9)

Notes:

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

² Data were collected from the same 20 farmers each year. Efforts were made to determine if new farmers had entered the sub-sector.

³ Fatteners would approximate animals ready for market/ marketable sized animals.

1.02c Livestock in Grand Cayman - Cattle, 2006 - 2008

Year ¹	Number of Known Farmers ²	Bulls	Cows	Calves			Total	Annual Percentage Change
				6 Months	12 Months	12 Months ³		
2006	143	149	739	323	320	405	1,936	
2007	141	145	835	381	415	511	2,287	18
2008	139	138	881	339	577	585	2,520	10

Notes:

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

² Efforts were made to determine if new farmers had entered the sub-sector.

³ Fatteners would approximate animals ready for market/ marketable sized animals.

Source: Department of Agriculture

1.03 Sales of fertilizers by Department of Agriculture,¹ 2006 - 2008

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

Notes

¹ Data does not include fertilizer sales by nurseries, garden centres or private sector retailers

² 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 ¹
Total	302
George Town	40
West Bay	32
Bodden Town	93
North Side	40
East End	81
Cayman Brac	16

Note:

¹ 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, 1999 - 2008

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Highest daily temperature - deg. F	93.0	93.8	94.0	93.0	93.2	94.5	92.9	92.1	92.0	92.1
- Date	16th Aug.	24th Jun.	4th Jul. 13th Aug. 19th Sept.	30th Jun. 10th Jul. 14th Sept.	11th Aug.	3rd Aug.	11th Sep.	20th Sep.	2nd Aug.	8th Aug.
Lowest daily temperature - deg. F	63.0	59.0	63.0	67.7	68.0	62.3	62.2	68.2	65.1	62.6
- Date	28th Feb. 29th Dec.	20th Jan. 11th Feb.	7th Jan.	17th Feb.	10th Jan. 22nd Jan.	4th April	22nd Jan.	7th Mar.	18th Apr.	16th Jan.
Annual average temperature - deg. F	81.8	81.6	82.5	83.2	83.2	83.0	82.4	82.4	82.6	82.1
Total precipitation - inches	79.8	45.7	55.8	63.5	72.6	51.91	71.64	66.48	53.09	71.74
Most rain in 24 hour period										
- inches	6.0	4.9	5.6	6.9	9.5	12.1	7.4	4.2	3.2	6.1
- Month	Jul.	Dec.	May	Sep.	Jan.	Sept.	Nov.	Jun.	Oct.	Nov.
- Day	31st	2nd	14th	19th	18th	12th	17th	8th	9th	7th
Number of days:										
- rain ¹	180	161	148	179	178	142	160	179	180	179
- clear	28	39	12	20	18	12	11	9	1	3
- partly cloudy	265	242	247	251	249	266	199	200	230	206
- cloudy	72	85	106	92	98	85	155	156	134	157

Note:
¹ 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.

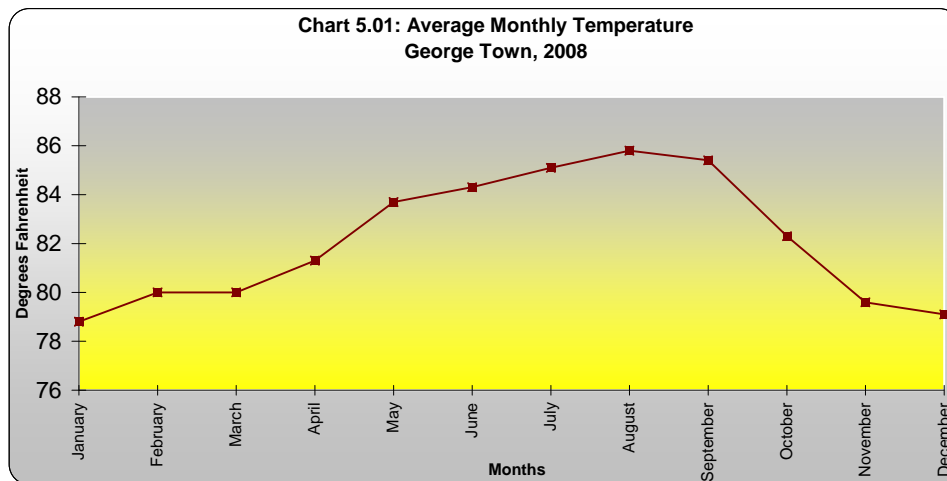
In 2008 there was 187 days free of rainfall and 179 days which rainfall was recorded. The average annual temperature in 2008 was 27.8 deg. C/ 82.1 deg. F. The highest monthly average temperature recorded was 29.9 deg. C/ 85.8 deg. F during the month of August with the lowest monthly average of 26.0 deg. C/ 78.8 deg. F occurring in the month of January.

Source: Meteorological Office, Cayman Islands Airports Authority

5.02

 Temperature¹, 1999 - 2008

	<i>Degrees Fahrenheit</i>									
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
January	79.7	76.8	76.1	79.6	77.6	78.8	78.3	78.8	80.6	78.8
February	77.9	77.7	80.0	80.1	81.4	80.5	77.9	77.9	80.0	80.0
March	79.5	79.2	79.8	81.7	82.8	80.5	81.0	80.0	81.0	80.0
April	82.4	81.1	81.7	82.4	82.4	81.2	82.8	81.5	81.4	81.3
May	83.5	82.6	82.5	83.9	85.0	83.2	84.1	84.0	82.5	83.7
June	84.7	84.4	86.0	85.0	84.4	85.9	85.0	84.0	84.7	84.3
July	84.4	85.3	86.1	86.5	85.9	85.3	85.5	85.4	86.6	85.1
August	85.3	85.4	86.7	85.7	86.0	86.0	86.0	85.7	85.4	85.8
September	84.3	84.2	86.0	84.6	85.3	85.9	85.9	85.2	84.2	85.4
October	82.5	82.9	84.0	84.2	84.6	85.9	82.3	84.3	83.3	82.3
November	79.3	81.5	80.0	83.0	83.0	82.6	81.6	81.1	81.5	79.6
December	78.0	78.6	80.7	81.2	80.0	80.3	80.3	81.4	80.4	79.1
Annual Avg.	81.8	81.6	82.5	83.2	83.2	83.0	82.6	82.4	82.6	82.1

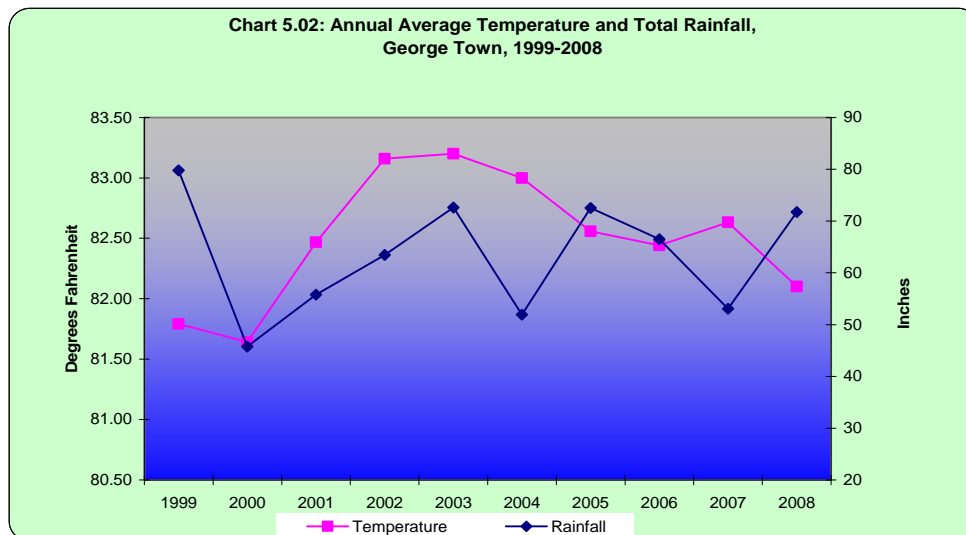
Note:
¹ Average monthly temperatures in George Town, Grand Cayman


Source: Meteorological Office, Cayman Islands Airports Authority

5.03

Rainfall, 1999 - 2008

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
<i>Inches</i>										
GEORGE TOWN										
January	2.65	3.24	4.14	0.96	11.42	0.98	0.30	0.93	0.43	3.24
February	2.33	0.29	0.60	0.75	0.34	0.17	0.12	1.49	0.26	2.33
March	0.53	0.00	0.22	0.69	0.36	2.19	1.15	0.02	0.71	3.23
April	0.99	3.24	0.56	0.81	0.17	0.03	1.07	0.63	1.61	0.69
May	7.59	2.76	12.10	14.14	9.18	3.90	1.62	2.60	10.86	2.69
June	3.51	2.89	1.81	3.09	15.45	0.99	11.94	14.64	8.04	4.26
July	11.96	2.47	2.37	2.68	4.43	9.06	12.24	9.65	3.63	11.28
August	5.54	4.09	4.25	8.88	4.34	10.23	7.47	4.94	4.54	4.48
September	9.84	9.26	5.81	18.72	12.15	20.55	6.42	11.25	5.56	5.68
October	14.82	3.07	13.70	4.44	10.92	2.49	16.17	9.92	13.25	15.44
November	19.83	1.76	9.36	4.32	1.98	1.06	12.00	4.50	1.75	14.38
December	0.20	12.67	0.85	3.99	1.88	0.28	2.03	5.91	2.45	4.05
Annual Avg.	6.65	3.81	4.65	5.29	6.05	4.33	6.04	5.54	4.42	5.98
Annual Total	79.79	45.74	55.77	63.47	72.62	51.93	72.53	66.48	53.09	71.75
BODDEN TOWN	98.90	56.56	52.13	56.24	61.30	34.17	68.40	62.40	73.50	57.8
WEST BAY	63.88	41.51	49.27	41.32	33.15	13.35	48.90	30.30	36.90	62.8
EAST END	49.45	66.29	58.94	58.23	58.03	25.83	61.60	61.80	63.20	58.1

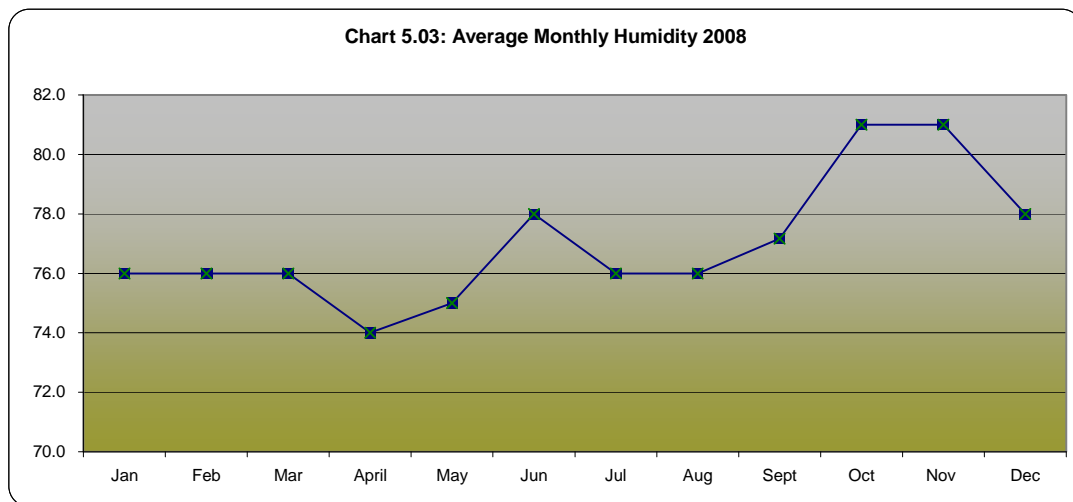


Source: Meteorological Office, Cayman Islands Airports Authority

5.04

Humidity, 1999 - 2008

	1999	2000	2001	2002	2003	2004	2005	2006	2007	Percent 2008
January	78	76	76	80	81	73	73	76	78	76
February	76	75	78	80	79	76	72	79	77	76
March	73	72	73	77	77	74	75	73	75	76
April	75	77	76	74	75	72	73	74	75	74
May	77	78	77	80	75	75	76	73	79	75
June	78	77	76	80	78	74	80	81	80	78
July	74	76	76	78	79	76	79	77	74	76
August	78	79	79	79	77	78	78	78	77	76
September	79	81	78	81	78	76	77	77	78	77
October	81	77	82	80	79	72	82	79	81	81
November	81	76	80	80	76	71	80	77	76	81
December	75	83	81	82	75	72	79	82	76	78
Annual Average	77.1	77.3	77.7	79.3	77.4	74.1	77.0	77.2	77.2	77.0



Source: Meteorological Office, Cayman Islands Airports Authority

5.05

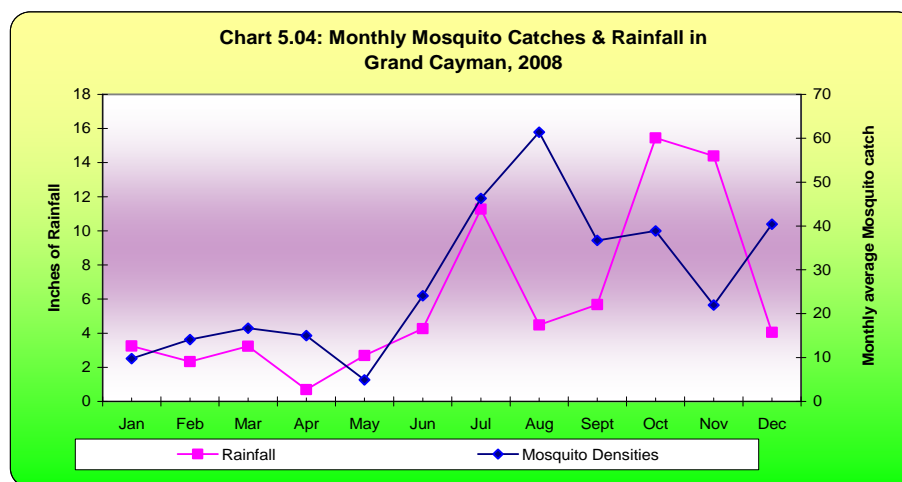
Mosquito Densities¹, Grand Cayman, 1999 - 2008

	<i>Average catch per trap per night</i>									
	1999	2000	2001	2002	2003	2004 ²	2005	2006	2007	2008
January	81.0	62.0	171.0	77.4	40.8	24.5	33.7	14.7	4.4	9.8
February	87.0	83.0	174.1	62.9	35.6	8.3	12.6	8.2	5.4	14.1
March	78.0	33.0	55.5	25.2	45.5	4.6	7.1	4.1	21.2	16.7
April	36.0	22.0	36.2	11.3	21.2	4.7	4.9	18.0	7.4	15.0
May	31.0	49.0	110.5	20.7	71.7	0.7	8.3	8.1	19.8	4.9
June	59.0	73.0	67.2	182.7	261.4	6.5	36.2	50.9	103.7	24.1
July	198.0	58.0	62.0	195.7	156.9	12.2	19.1	66.5	54.6	46.3
August	258.0	79.0	206.6	60.7	144.4	59.9	10.5	108.8	36	61.4
September	439.0	221.0	134.5	82.7	150.8	. .	27.5	25.2	71.9	36.7
October	421.0	252.0	247.8	94.8	63.5	. .	95.5	40.7	32.1	38.9
November	96.0	102.0	140.4	94.3	33.0	. .	27.5	30.3	15.5	22.0
December	61.0	349.0	138.9	86.9	29.3	. .	8.5	22.2	11.7	40.4
Annual Average	153.8	115.3	128.7	82.9	87.8	15.2	24.3	33.1	32.0	27.5
Number of traps	28	28	28	28	29	29	31	31	31	31

Notes:

¹ From 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*

² Mosquito collection equipment was destroyed in Hurricane Ivan.



Source: Mosquito Research and Control Unit

5.06

Cayman Islands Land Cover, 2006

Land Cover Category	Total area (acre)			Protected (acre)			Percentage Protected		
	GC ¹	LC ²	CB ³	GC ¹	LC ²	CB ³	GC ¹	LC ²	CB ³
Wetland	17,571	1,901	131	3,128	145	15	17.8	7.6	11.5
Xerophytic shrubland ⁴	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:
¹ GC - Grand Cayman

² LC - Little Cayman

³ CB - Cayman Brac

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

Source: Department of Environment

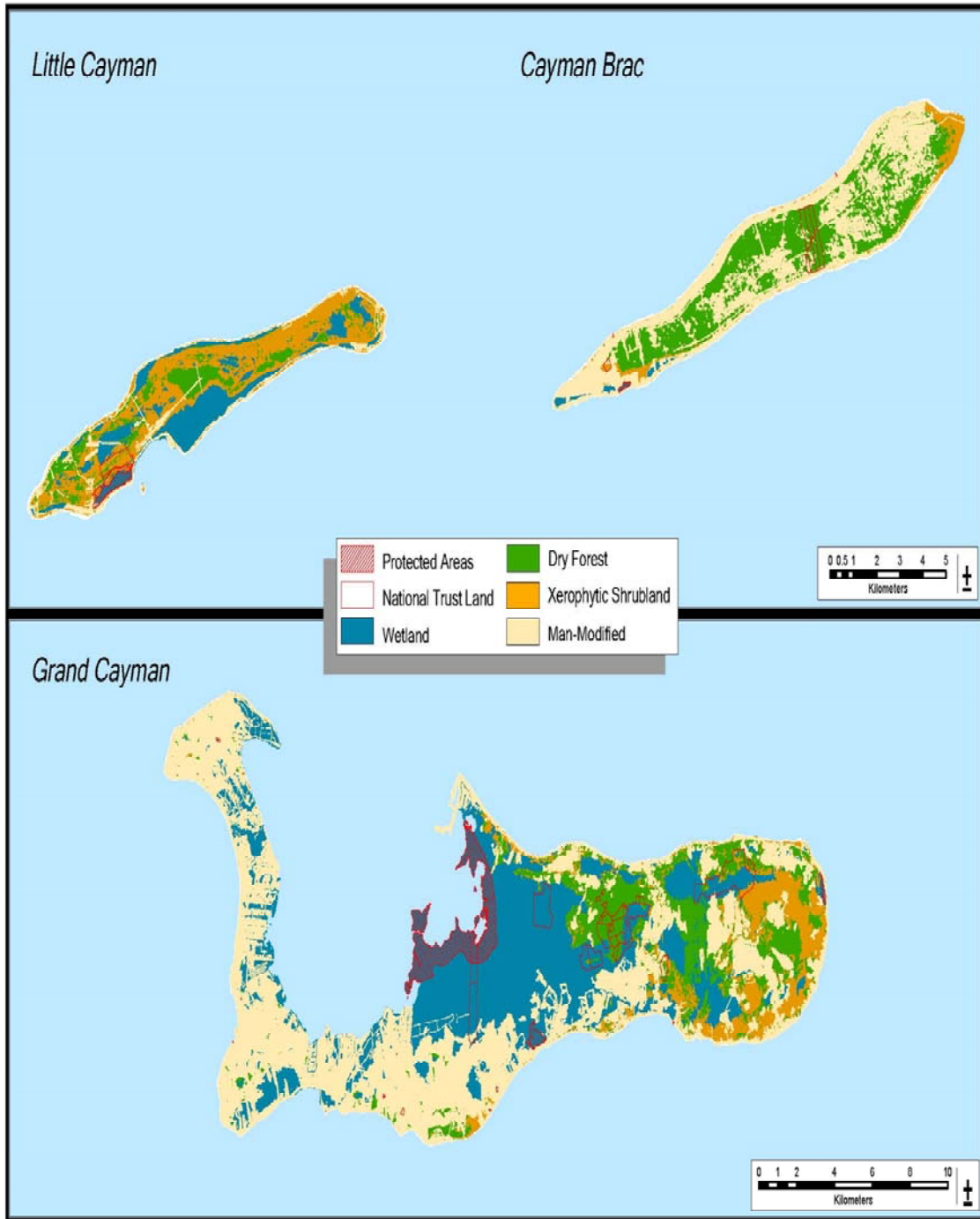
5.07

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 5.05: Cayman Islands Landcover Classification, 2006



Source: Department of Environment