

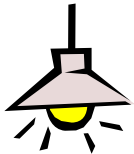
# Miscellaneous

---



Total value of building approvals rose by 3.0% (\$0.67 million) over last year but the total number of approvals fell by 14.1%. Residential buildings contributed to \$11.8 million of the total approvals, averaging to over \$100,000 per residential building.

Commercial or public establishments totaled \$11.1 million in 2008 an increase of 36.0% compared to 2007.



Total energy generated in the Cook Islands fell by 0.4% (148,000kWh) in 2008. Most of that decrease was experienced in Rarotonga but regardless of the decrease in usage, Rarotonga still maintained the biggest consumer of electricity. Major increases were noted for Aitutaki, Rakahanga, Manihiki and Atiu up by 34.3%, 33.3%, 26.8% and 20.5% respectively.



Total newly registered vehicles for 2008 was 1,350, a decrease of 298 (18.1%) vehicles compared to 2007. Contributing to this decrease is the drop in registrations for trucks & buses and cars, station wagons and vans by 32.3% and 24.8% respectively. Motorcycle registrations makes up 65.3% of all motor vehicle registration.



International flights out of Rarotonga during 2008 decreased by 18.4%. This decrease was attributed to the closure of the Fiji link in 2008 and the reduction of flights to Tahiti. The Los Angeles route is now open and in 2008 there were 64 flights. New Zealand remained the dominant destination for International flights.



The year 2008 was much drier than the last two years 2006 and 2007. Average temperature recorded for Penrhyn was 28.5°Celsius in 2008, slightly cooler when compared 29.0°Celsius to last year. Penrhyn also experienced dryer spells with total rainfall at its lowest for the last three years. Rarotonga experienced no change in average temperature and rainfall but total hours of sunshine recorded for Rarotonga took a slight increase by 0.2%. Aitutaki was much warmer and drier when compared to the last two years.

**Table 9.1 Building Approvals**

Calendar Year	Total		Residential		Commercial (*)	
	No.	Value (\$' 000)	No.	Value (\$' 000)	No.	Value (\$' 000)
1987	59	4,094	44	1,780	15	2,315
1988	63	2,599	42	1,944	21	655
1989	94	5,023	59	2,916	35	2,107
1990	91	7,726	67	2,629	24	5,096
1991	104	6,297	69	3,507	35	2,790
1992	208	10,446	168	7,605	40	2,841
1993	186	14,017	150	10,280	36	3,737
1994	62	5,863	49	3,119	13	2,744
1995	112	6,561	97	5,449	15	1,112
1996	102	5,300	70	3,028	32	2,272
1997	75	5,358	44	2,153	31	3,205
1998	164	8,430	147	5,611	17	2,819
1999	68	7,243	45	3,539	23	3,704
2000	102	10,613	64	4,079	38	6,534
2001	127	12,797	74	5,600	53	7,197
2002	140	20,417	74	8,354	66	12,063
2003	134	23,933	80	7,982	54	15,951
2004	111	12,566	75	6,174	36	6,392
2005	104	13,951	76	8,308	28	5,643
2006	157	21,532	121	13,883	36	7,649
2007	149	22,276	117	14,111	32	8,165
2008	128	22,948	113	11,846	15	11,102
<b>Percentage change over the previous year</b>						
1986	-1.1	157.7	-20.6	-0.1	54.2	338.9
1987	-35.2	-48.0	-18.5	9.1	-59.5	-62.9
1988	6.8	-36.5	-4.5	9.2	40.0	-71.7
1989	49.2	93.3	40.5	50.0	66.7	221.7
1990	-3.2	53.8	13.6	-9.8	-31.4	141.9
1991	14.3	-18.5	3.0	33.4	45.8	-45.3
1992	100.0	65.9	143.5	116.9	14.3	1.8
1993	-10.6	34.2	-10.7	35.2	-10.0	31.5
1994	-66.7	-58.2	-67.3	-69.7	-63.9	-26.6
1995	80.6	11.9	98.0	74.7	15.4	-59.5
1996	-8.9	-19.2	-27.8	-44.8	113.3	204.4
1997	-26.5	1.1	-37.1	-28.9	-3.1	41.1
1998	118.7	57.3	234.1	160.6	-45.2	-12.0
1999	-58.5	-14.1	-69.4	-36.9	35.3	31.4
2000	50.0	46.5	42.2	15.3	65.2	76.4
2001	24.5	20.6	15.6	37.3	39.5	10.1
2002	10.2	59.5	0.0	49.2	24.5	67.6
2003	-4.3	17.2	8.1	-4.5	-18.2	32.2
2004	-17.2	-47.5	-6.3	-22.7	-33.3	-59.9
2005	-6.3	11.0	1.3	34.6	-22.2	-11.7
2006	51.0	54.3	59.2	67.1	28.6	35.5
2007	-5.1	3.5	-3.3	1.6	-11.1	6.7
2008	-14.1	3.0	-3.4	-16.0	-53.1	36.0

Source: Physical Planning Division - MOWEPP

Note: (\*) - Commercial establishments including Non Private accomodations and Industrial con

**Table 9.2 Energy Generated of Selected Islands**

Calendar Year	Cook Islands	Rarotonga	Aitutaki	Atiu	Mauke	Mangaia	Mitiaro	Penrhyn	Rakahanga	Manihiki	Palm-erston
	(kwh'000)										
1987	12,521	10,984	993	170	79	116	4	64	48	56	7
1988	14,309	12,574	1,069	194	92	168	30	74	31	70	7
1989	14,661	12,801	1,106	197	108	201	36	86	31	79	16
1990	13,176	11,348	1,060	174	133	221	35	78	37	75	15
1991	16,290	14,060	1,427	207	143	235	32	83	36	67	...
1992	17,254	14,848	1,508	223	158	263	53	116	35	45	5
1993	18,621	16,090	1,551	249	198	295	58	112	11	55	2
1994	19,488	16,779	1,566	302	215	302	71	124	16	113	...
1995	19,790	16,855	1,840	312	169	350	74	90	22	72	6
1996	19,840	17,046	1,756	226	138	347	71	93	41	111	11
1997	19,615	16,790	1,831	269	155	319	65	78	27	78	3
1998	19,822	17,224	1,643	293	166	308	78	86	22	...	2
1999	21,851	19,135	1,751	255	202	339	74	84	11	...	...
2000	24,697	21,367	2,231	359	189	363	83	87	18	...	...
2001	25,837	22,292	2,410	353	196	361	82	78	36	26	3
2002	27,715	23,998	2,393	335	166	391	114	95	36	185	2
2003	29,119	25,795	1,992	354	192	407	115	111	36	117	...
2004	29,758	26,297	2,012	389	250	422	110	116	28	134	...
2005	30,294	27,107	1,841	308	183	459	111	118	28	139	...
2006	32,154	28,390	2,345	316	218	465	115	121	30	154	...
2007	33,695	29,592	2,384	443	273	464	130	124	54	231	...
2008	33,547	28,471	3,201	534	246	485	121	124	72	293	...
	Percentage change over the previous year										
1987	-0.3	0.3	-5.4	21.4	-7.1	-27.5	0.0	3.2	6.7	3.7	-12.5
1988	14.3	14.5	7.7	14.1	16.5	44.8	650.0	15.6	-35.4	25.0	0.0
1989	2.5	1.8	3.5	1.5	17.4	19.6	20.0	16.2	0.0	12.9	128.6
1990	-10.1	-11.4	-4.2	-11.7	23.1	10.0	-2.8	-9.3	19.4	-5.1	-6.3
1991	23.6	23.9	34.6	19.0	7.5	6.3	-8.6	6.4	-2.7	-10.7	...
1992	5.9	5.6	5.7	7.7	10.5	11.9	65.6	39.8	-2.8	-32.8	...
1993	7.9	8.4	2.9	11.7	25.3	12.2	9.4	-3.4	-68.6	22.2	-60.0
1994	4.7	4.3	1.0	21.3	8.6	2.4	22.4	10.7	45.5	105.5	...
1995	1.5	0.5	17.5	3.3	-21.4	15.9	4.2	-27.4	37.5	-36.3	...
1996	0.3	1.1	-4.6	-27.6	-18.3	-0.9	-4.1	3.3	86.4	54.2	83.3
1997	-1.1	-1.5	4.3	19.0	12.3	-8.1	-8.5	-16.1	-34.1	-29.7	-72.7
1998	1.1	2.6	-10.3	8.9	7.1	-3.4	20.0	10.3	-18.5	...	-33.3
1999	10.2	11.1	6.6	-13.0	21.7	10.1	-5.1	-2.3	-50.0	...	...
2000	13.0	11.7	27.4	40.8	-6.4	7.1	12.2	3.6	63.6	...	...
2001	4.6	4.3	8.0	-1.7	3.7	-0.6	-1.2	-10.3	100.0	...	...
2002	7.3	7.7	-0.7	-5.1	-15.3	8.3	39.0	21.8	0.0	611.5	-33.3
2003	5.1	7.5	-16.8	5.7	15.7	4.1	0.9	16.8	0.0	-36.8	...
2004	2.2	1.9	1.0	9.9	30.2	3.7	-4.3	4.5	-22.2	14.5	...
2005	1.8	3.1	-8.5	-20.8	-26.8	8.8	0.9	1.7	0.0	3.7	...
2006	6.1	4.7	27.4	2.6	19.1	1.3	3.6	2.5	7.1	10.8	...
2007	4.8	4.2	1.7	40.2	25.2	-0.2	13.0	2.5	80.0	50.0	...
2008	-0.4	-3.8	34.3	20.5	-9.7	4.4	-6.8	0.0	33.3	26.8	...

Source: Energy Division - MOWEPP, and Te Aponga Uira, Rarotonga.

**Table 9.3 Newly Registered Vehicles**

Calendar Year	Total	Newly Registered Vehicles				
		Motor Cycle	Cars, S/Wagons & Jeeps	Trucks & Buses	Vans & Other Vehicles	Pickups
1987	728	450	106	35	103	34
1988	686	439	114	15	95	23
1989	916	530	199	22	150	15
1990	806	425	159	30	144	48
1991	824	396	188	46	142	52
1992	1,570	1,052	288	44	129	57
1993	911	638	110	45	113	5
1994	820	529	108	54	119	10
1995	491	357	54	15	59	6
1996	447	314	47	3	79	4
1997	639	375	133	6	123	2
1998	622	404	106	18	92	2
1999	965	605	212	25	122	1
2000	1,256	796	273	63	115	9
2001	1,698	1,115	361	67	149	6
2002	1,254	809	239	55	144	7
2003	1,641	984	400	55	192	10
2004	1,588	1,151	293	41	89	14
2005	1,660	1,086	350	58	131	35
2006	1,862	1,323	307	55	141	36
2007	1,648	1,047	355	65	163	18
2008	1,350	882	267	44	137	20
Percentage change over the previous year						
1988	-5.8	-2.4	7.5	-57.1	-7.8	-32.4
1990	-12.0	-19.8	-20.1	36.4	-4.0	220.0
1991	2.2	-6.8	18.2	53.3	-1.4	8.3
1992	90.5	165.7	53.2	-4.3	-9.2	9.6
1993	-42.0	-39.4	-61.8	2.3	-12.4	-91.2
1994	-10.0	-17.1	-1.8	20.0	5.3	100.0
1995	-40.1	-32.5	-50.0	-72.2	-50.4	-40.0
1996	-9.0	-12.0	-13.0	-80.0	33.9	-33.3
1997	43.0	19.4	183.0	100.0	55.7	-50.0
1998	-2.7	7.7	-20.3	200.0	-25.2	0.0
1999	55.1	49.8	100.0	38.9	32.6	-50.0
2000	30.2	31.6	28.8	152.0	-5.7	800.0
2001	35.2	40.1	32.2	6.3	29.6	-33.3
2002	-26.1	-27.4	-33.8	-17.9	-3.4	16.7
2003	30.9	21.6	67.4	0.0	33.3	42.9
2004	-3.2	17.0	-26.8	-25.5	-53.6	40.0
2005	4.5	-5.6	19.5	41.5	47.2	150.0
2006	12.2	21.8	-12.3	-5.2	7.6	2.9
2007	-11.5	-20.9	15.6	18.2	15.6	-50.0
2008	-18.1	-15.8	-24.8	-32.3	-16.0	11.1

Source: Bank of the Cook Islands (BCI), Rarotonga.

**Table 9.4 Aircraft Movements<sup>(1)</sup>**

Calendar Year	Total Flights	From Rarotonga to:					
		Fiji	Tahiti	New Zealand	Honolulu	Los Angeles	Other
1987	463	21	59	209	-	-	72
1988	442	52	52	175	-	-	35
1989	420	51	86	121	52	-	7
1990	385	49	49	136	52	-	51
1991	544	52	146	157	84	-	17
1992	546	52	103	163	63	-	73
1993	573	53	152	157	57	-	71
1994	548	47	180	162	50	-	29
1995	503	51	115	169	50	-	41
1996	323	53	53	156	53	-	8
1997	437	57	81	187	-	52	60
1998	384	52	105	167	-	60	-
1999	486	93	101	228	-	60	4
2000	631	63	92	370	-	76	30
2001	559	52	54	324	-	31	98
2002	453	51	62	304	7	18	11
2003	631	51	152	364	62	2	-
2004	670	52	153	371	-	-	-
2005	765	54	156	555	-	-	-
2006	894	52	155	687	-	-	-
2007	844	44	111	663	26	-	-
2008	689	-	83	542	64	-	-
Percentage change over the previous year							
1987	-4.7	-59.6	-33.0	36.6	..	-	-51.7
1988	-4.5	147.6	-11.9	-16.3	..	-	-51.4
1989	-5.0	-1.9	65.4	-30.9	..	-	-80.0
1990	-8.3	-3.9	-43.0	12.4	-	-	628.6
1991	41.3	6.1	198.0	15.4	61.5	-	-66.7
1992	0.4	0.0	-29.5	3.8	-25.0	-	329.4
1993	4.9	1.9	47.6	-3.7	-9.5	-	-2.7
1994	-4.4	-11.3	18.4	3.2	-12.3	-	-59.2
1995	-8.2	8.5	-36.1	4.3	-	-	41.4
1996	-35.8	3.9	-53.9	-7.7	6.0	-	-80.5
1997	35.3	7.5	52.8	19.9	-	-	650.0
1998	-12.1	-8.8	29.6	-10.7	-	15.4	-100.0
1999	26.6	78.8	-3.8	36.5	-	-	-
2000	29.8	-32.3	-8.9	62.3	-	26.7	650.0
2001	-11.4	-17.5	-41.3	-12.4	-	-59.2	226.7
2002	-19.0	-1.9	14.8	-6.2	-	-41.9	-88.8
2003	39.3	0.0	145.2	19.7	785.7	-88.9	-100.0
2004	6.2	2.0	0.7	1.9	-100.0	-100.0	-
2005	14.2	3.8	2.0	49.6	-	-	-
2006	16.9	-3.7	-0.6	23.8	-	-	-
2007	-5.6	-15.4	-28.4	-3.5	-	-	-
2008	-18.4	-100.0	-25.2	-18.3	146.2	-	-

Source: Air New Zealand and Air Rarotonga.

Note: (1) - International aircraft movement from Rarotonga and first stop only.

**Table 9.5 Average Temperature, Total Rainfall and Total Sunshine Hours for Selected Islands**

Calendar Year	Average Temperature (Celsius)			Total Rainfall (mm)			Total Hours of Rarotonga	
	Rarotonga	Aitutaki	Penrhyn	Rarotonga	Aitutaki	Penrhyn		
1987	23.8	25.5	28.2	1,255	1,538	1,538	1,907	
1988	24.7	25.9	27.6	2,447	2,316	2,316	1,894	
1989	24.5	25.9	25.1	1,785	1,790	1,790	2,215	
1990	24.6	26.0	27.9	1,597	1,597	1,597	2,230	
1991	24.4	26.0	28.2	1,790	2,006	3,310	2,075	
1992	24.5	26.2	28.2	1,299	1,439	3,992	2,355	
1993	24.3	25.6	28.0	1,791	1,635	3,983	2,161	
1994	24.2	26.0	28.1	1,940	2,159	3,146	2,008	
1995	24.6	26.3	28.2	2,121	2,222	1,989	2,177	
1996	24.8	25.9	28.5	1,957	2,595	1,839	2,209	
1997	24.1	24.6	28.5	1,372	1,127	2,172	2,409	
1998	24.5	27.2	28.9	1,084	1,172	2,029	2,301	
1999	25.0	25.3	28.8	2,303	1,184	1,054	2,109	
2000	24.2	25.9	28.6	2,122	1,765	846	2,439	
2001	24.6	25.7	28.8	1,837	2,191	1,263	2,245	
2002	24.8	26.4	29.2	1,794	1,394	1,657	2,269	
2003	24.6	25.9	29.2	2,073	952	1,862	2,246	
2004	24.8	26.1	28.8	1,724	602	1,994	2,525	
2005	24.6	25.5	29.0	1,969	793	1,179	2,099	
2006	24.8	25.5	29.1	2,246	1,460	1,882	2,169	
2007	25.0	25.3	29.0	1,991	1,828	2,024	2,084	
2008	25.0	26.1	28.5	1,991	1,358	1,213	2,088	
	Percentage change over the previous year							
1987	-1.7	-1.3	...	-43.4	-39.0	-41.3	-2.6	
1988	3.8	1.5	-2.3	95.0	50.6	50.6	-0.7	
1989	-0.8	0.1	-8.8	-27.1	-22.7	-22.7	16.9	
1990	0.4	0.3	10.9	-10.5	-10.8	-10.8	0.7	
1991	-0.8	-0.1	1.0	12.1	25.6	107.3	-7.0	
1992	0.4	1.0	0.1	-27.4	-28.3	20.6	13.5	
1993	-0.8	-2.3	-0.9	37.9	13.6	-0.2	-8.2	
1994	-0.4	1.7	0.4	8.3	32.0	-21.0	-7.1	
1995	1.7	0.9	0.4	9.3	2.9	-36.8	8.4	
1996	0.8	-1.3	1.2	-7.7	16.8	-7.5	1.5	
1997	-2.8	-5.0	0.0	-29.9	-56.6	18.1	9.1	
1998	1.7	10.6	1.4	-21.0	4.0	-6.6	-4.5	
1999	2.0	-7.0	-0.3	112.5	1.0	-48.1	-8.3	
2000	-3.2	2.4	-0.7	-7.9	49.1	-19.7	15.6	
2001	1.7	-0.8	0.7	-13.4	24.1	49.3	-8.0	
2002	0.8	2.7	1.4	-2.3	-36.4	31.2	1.1	
2003	-0.8	-1.9	0.0	15.6	-31.7	12.4	-1.0	
2004	0.8	0.8	-1.4	-16.8	-36.8	7.1	12.4	
2005	-0.8	-2.3	0.7	14.2	31.7	-40.9	-16.9	
2006	0.8	0.0	0.3	14.1	84.1	59.6	3.3	
2007	0.8	-0.8	-0.3	-11.4	25.2	7.5	-3.9	
2008	0.0	3.2	-1.6	0.0	-25.7	-40.1	0.2	

Source: Meteorological Office, Rarotonga.