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# DRAFT

## THE GREATER ST LUCIA / MKUZI RESERVE: RECREATION SURVEY

Phase one: Current recreation use of the St Lucia-Mkuzi area.

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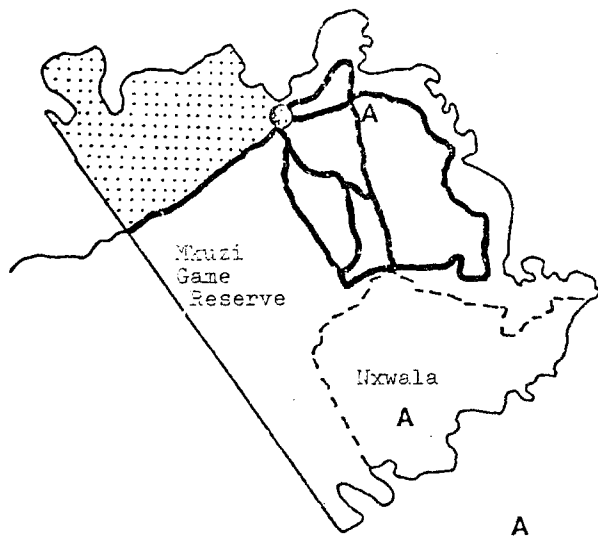
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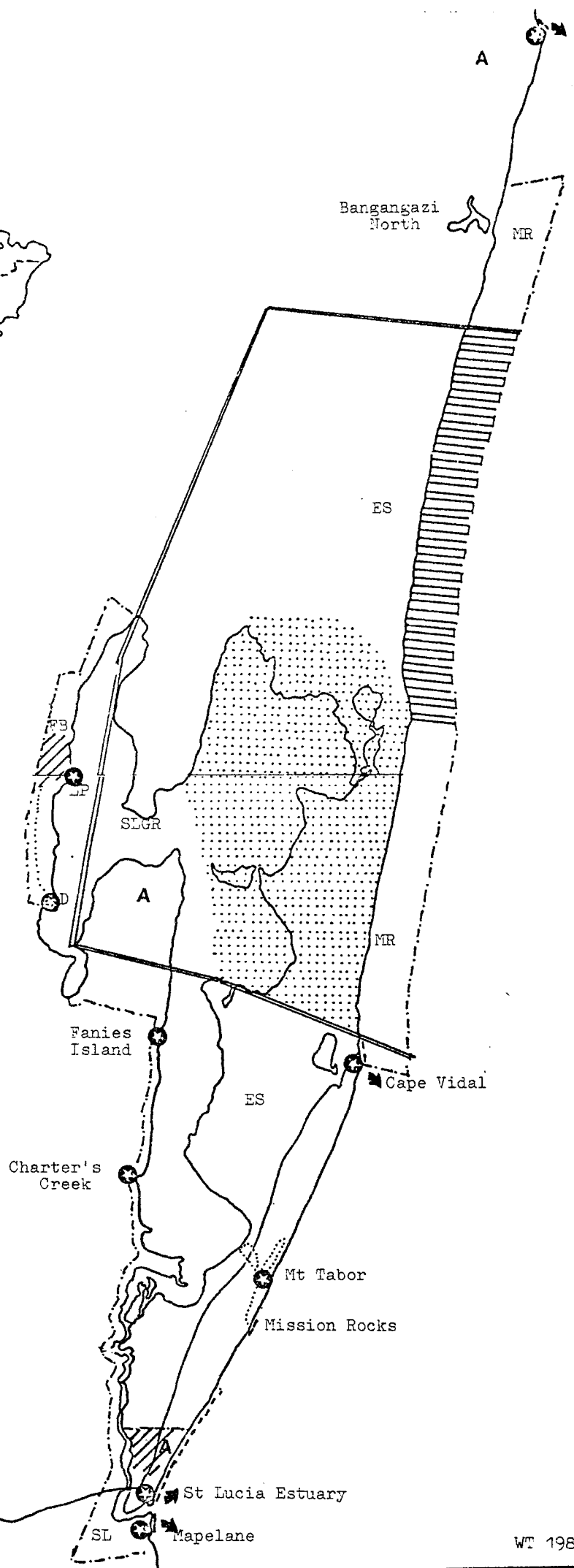
RECREATION AND LAND USE IN THE ST LUCIA-MKUZI AREA.

KEY:

- St Lucia Marine Reserve
- Core area: marine reserve
- Eastern Shores Nature Reserve
- False Bay Park
- St Lucia Park
- St Lucia Game Reserve
- Wilderness area
- SADF missile testing range
- Airstrip
- Ski - boat launching
- Day trails
- Overnight trails
- Accommodation facilities
- Game viewing roads
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## DRAFT

### THE GREATER ST LUCIA / MKUZI RESERVE: RECREATION SURVEY

Phase one: Current recreation use of the St Lucia-Mkuzi area.

#### INTRODUCTION

The objectives are to assess the current recreational use of the St Lucia-Mkuzi area and to identify gaps in our monitoring and knowledge of recreation patterns. This report is the first phase of a larger project to examine recreation utilization in the Greater St Lucia-Mkuzi Reserve and to provide guidelines for planning.

For the purpose of this study, recreation is defined as any leisure-time activity that people partake of their own free will. The recreation activities under discussion are all of an outdoor, nature-orientated character and are not usually available in an urban situation. Such outdoor recreation activities are important because they satisfy a basic need to make contact with the natural environment.

#### AREA DESCRIPTION

The study area includes the present Natal Parks Board areas (St Lucia Game Reserve, St Lucia Park, False Bay Park and the Mkuzi Game Reserve) as well as the Eastern Shores Nature Reserve and an area to the south and east of the Mkuzi Game Reserve. It has been proposed the latter area should be handed over to the Natal Parks Board, thus creating one large game reserve called the Greater St Lucia-Mkuzi Reserve. At present there are no recreation facilities in the proposed new area.

The area of the St Lucia complex (St Lucia Game Reserve and Park and False Bay Park) is 51618ha and that of Mkuzi Game Reserve is 25091ha. If the proposed new reserve is established, it will have a total area of 200000ha. The water surface of the Lake is about 35000ha and the length from north to south is about 65km. Total length of shoreline is approximately 350km.

St Lucia Estuary in the south is 240km from Durban and the closest major population centre is 80km away at Richard's Bay/Empangeni.

#### 1. Physical aspects:

##### Topography

The area is flat, with the only high ground being the ancient dune ridges on the Western shores and the recent coastal dunes. The coastline is straight with few natural bays. The beaches are sandy with rocky outcrops in places.

The main rivers that drain into the lake are unsuitable for recreation

as they are either in Kwa Zulu, on privately owned land, or are crocodile breeding areas. However, the shortest river, the Mpate has potential for nature-orientated recreation eg trails or birdwatching.

### Climate:

Temperatures are very mild in winter but can be very high in summer, especially when not moderated by altitude or proximity to the sea. The low-lying plains tend to have high relative humidity and this combined with high temperatures, makes much of the area uncomfortable for humans for the period between December and February.

Average annual rainfall ranges from 1200mm on the coastal dunes to less than 800mm at False Bay Park, and increases again to 900mm in the Lebombo Mountains. The coastal areas receive 60% of their rainfall in summer, while inland, nearly 80% of the average rainfall falls in the same period.

The wind blows for 97% of the year, mainly from the north east and the south west, and it is the latter wind which brings anti-cyclonic rainfall.

### Wildlife

The area has a fascinating combination of plant and animal life for which it is well known. Some of the creatures that visitors come to the area to see are: hippos, crocodiles, pelicans, flamingo, reedbuck, and the large mammals of the Mkuzi Game Reserve eg rhinos, giraffe and kudu.

Birdlife is abundant and many bird watchers visit the area.

The St Lucia estuary is the largest estuarine system in Southern Africa and comprises about 80% of the total estuarine area of Natal. It is ecologically a very important area and it provides a habitat for a great variety of aquatic organisms and acts as a nursery for juvenile fishes. Within the estuary are some ecologically sensitive areas which should be protected from heavy utilization eg mangroves and reedbeds.

## 2. Recreational aspects

It is the policy of the Natal Parks Board to provide facilities for the public to enjoy nature-orientated experiences of the highest quality possible, provided that the conservation value of the area concerned is not jeopardised, and that visitor numbers do not become so great that the recreation experience that originally attracted people is destroyed.

The implications of the policy are a) that nature-orientated facilities are provided in Board areas and that activities are of a

man/natural environment related nature, and b) that limits to human utilization should be set in order to protect the natural environment.

#### RECREATION AT EACH STATION .

The following description of recreation areas is a summary based on five years of data.

It is a working document which will be changed and updated as more information becomes available. Ideas put forward at this stage are preliminary suggestions and should not be implemented before detailed planning is undertaken for each station.

#### MKUZI GAME RESERVE

Mkuzi Game Reserve consists of 25091ha of bushveld which provides a habitat for a wide range of wildlife, including large mammals and many birds. The Reserve entrance is 18km from Mkuze village and the hardened road is in good condition.

##### Facilities

Mkuzi offers a range of accommodation facilities from rustic huts to self-contained cottages. There are 12 rustic huts which provide basic facilities, and a communal ablution block. Cooking is usually done over a open fire. The resthuts (6 of them) have communal kitchens and ablution blocks and a black person does the cooking. The bungalows are self-contained to the extent that they have a bathroom and kitchen area with a fridge, but there is a separate cooking area with a black person to do the cooking. There are 5 bungalows and 2 duplex bungalows with interleading doors so that they can be hired out as one large bungalow or two smaller ones.

Camping facilities are available at the entrance to the reserve, and although sites are not demarcated, there is room for about 15 sites.

An interpretive centre and spacious curio shop are at the main camp and visitors can buy petrol.

There is a picnic and braai area near the curio shop and two picnic sites in the reserve.

People in vehicles can drive around the reserve on 87km of game viewing road and there are three hides.

People on foot can go out for day and half-day walks with a game guard, or walk on a self-guided trail. Wilderness trails are taken by a white ranger from April to October. A maximum of 6 people are allowed per trail.

### Utilization

The total number of people visiting the reserve has increased by 20% in the last 5 years, while the number of people accommodated in the reserve has doubled (52% increase).

There has been a slight decline in the number of day visitors since 1977/78, probably due to petrol restrictions.

Percentage occupancy has increased steadily for all accommodation types. Unit occupancy for the period April to September 1982 is over 90% for bungalows and cottages, which means that they are at capacity levels.

Seasonal variation: The cooler months (April to October) are more popular for visitors than the summer months, and the school holiday periods show expected peaking. Number of people going on day walks is also much higher in the cooler months than in the summer.

At busy periods traffic reaches congestion levels on the roads and the hides are over-filled with people. Congestion of this nature detracts from a game reserve experience.

### Discussion

No expansion of recreation facilities that put more pressure on the roads and hides should be allowed. New recreation facilities at MKuzi should provide alternative game reserve experiences eg bush camps and walking or groups of visitors on conducted tours.

## SODWANA BAY

Dune forest, grassland and swamp forest provide an excellent setting for this resort. The sea, the beach and a reef which creates a protected bay are the main attractions to Sodwana.

The closest population centre is at Mbazwana, 16km away, and the closest town is 90km away, at Ubombo. The road to Sodwana is a dirt one which can become sandy east of Mbazwana.

### Facilities

The camping ground at Sodwana is extensive. There are a total of 600 campsites and they are well spread out with bush and vegetation

separating them from each other.

Two playgrounds have been built, as well as a jukskei field and a large community hall which is hired out for functions.

There are 20 boat storage lockers for hire. Freezer facilities are available to campers; they can either hire a power point for their own deep freezers or they can hire a freezer cabinet.

There is a private general dealers store at the resort and Natal Parks Board sells bait, firewood, petrol and has a curio shop.

No trails or game park exist as the area under Parks Board control is very limited.

### Utilization

Sodwana has very high visitor numbers ( an average of 28565 people per annum ) but there has not been any marked growth in visitor numbers over the last five years. In fact visitor numbers dropped slightly during 1979/80 and 1980/81.

Percentage occupancy has not varied greatly and ranges between 19% and 23%. This figure hides the fact that Sodwana is very busy for three months of the year, namely April, July and December when the occupancy rates are 48%, 27% and 93% respectively. Out of season very few campsites are occupied, and in August the average occupancy rate is 4%.

Most of the people come to Sodwana for sea-related activities, especially fishing. Sodwana is a popular ski-boat launching area and many people come in large groups for fishing competitions. During these competitions, as many as 130 boats launch in one day. An average of 340+ boats launch at Sodwana during a year. In 1981 a total of 1520 launchings were made on 272 days ie an average of 6 launchings per day. (ORI data).

The day visitor data that are available are not a true reflection of day visitor numbers, as people can go down onto the beach without going to the Parks Board reception area, and so their presence is not recorded. However, it is assumed that not many people will drive to Sodwana for a day visit.

### Discussion

1. The future of Sodwana is uncertain. At one stage it was planned to extend the area to include Lake Mgobezeleni. A game park and hiking trail was going to be introduced, but nothing further has happened about this. The extended Sodwana Bay area has great potential for recreation. It is an area of natural beauty with potential for both walking and

- nature observation , as well as sea and beach related activities.
2. It is important that the needs of the pedestrian beach users as well as the ski-boaters are catered for. At the moment ski-boaters launch and beach in the same area that the swimmers use, and this conflict system is undesirable. People on foot on the beach are also jepodised by the many four wheel drive vehicles that drive and park on the beach.
  3. There is a very low utilization of Sodwana for nine months of the year, and off-season use should be encouraged eg by competitions.
  4. People should not be allowed to leave their equipment such as ski-boats and caravans at Sodwana for extended periods, as this system is open to abuse.

### FALSE BAY PARK

The park is located on the western side of False Bay, approximately 16km from Hluhluwe village. The road to False Bay is tarred. The total area of the park is 2700ha and it comprises coastal forest, thicket and sand forest. The main campsite is on a peninsula known as Lister's Point.

#### Facilities and attractions

Fishing is probably one of the most important activities at False Bay although no figures are available as to number of fishermen using the area or number of boats.

Nature conservation activities are rapidly becoming more popular. Animals to be seen in the park include nyala, reedbuck, suni, red and grey duiker and zebra and the area is rich in birdlife. Public have the opportunity to explore the area on 10km of self-guided trails.

A two-day hiking trail exists in the southern section of the park with four overnight bush huts at Dugandlovu. This site commands an excellent view of the Hluhluwe floodplain where one can often see game and pelicans.

The Hluhluwe river area is also known for its pelican breeding colony and these birds can be observed from a hide on privately owned land.

Facilities at Lister's Point consist of camping grounds with 40 campsites, a public launching jetty, picnic sites and a bait shop.

#### Utilization 1977-1982

During the period under consideration, the campsites were closed to all except overnight visitors for a period of 14 months (May 1980 to

June 1981), due to water shortages. With the exception of this closed period, the number of campers visiting the park has averaged 2512 people per annum. An average of 348 people per annum stayed at the bushcamp over the last 3 years.

Occupancy rates at False Bay are low and range between 14% and 22% during normal periods.

A high proportion (82.9% average) of visitors are day visitors. Day visitor numbers increased markedly from 1980/81 to 1981/82 when a total of 20563 day visitors entered the park. The reason for this was probably because the campsites were closed.

It is not known what proportion of the people use the day trails, fish from the shore or from boats or merely just come to the park to sunbathe, relax or birdwatch. It is important to obtain this type of information so that trends can be established and predictions made for the future.

Visitor numbers show an expected peaking at holiday times with the quietest times being in February and November.

#### Discussion

Very careful zoning and planning must be undertaken before establishing new facilities in the Park. False Bay is a very narrow park, and without planning, there could very easily be a conflicting of activities.

Adequate water supplies must be ensured before any expansion of accommodation facilities are considered.

### FANIES ISLAND

Fanies Island campsite is on the western shore of Lake St Lucia approximately 40km from Mtubatuba. It is sited about 20m above lake level and commands a good view of the Lake, Fanies Island and the Eastern Shores in the distance. Coastal forest surrounds the campsite on three sides and the Lake on the fourth.

#### Facilities

Accommodation facilities consist of 12 two-bedded rondavels and a camping ground with 20 sites. Day visitor areas are also provided. There is a bait shop and launching jetty for the fishermen and boaters. Boats are available for hire. A self-guided trail exists for visitors to explore the surrounding

indigenous bush and walk along the lake-side.

### Utilization 1977 - 1982

Total capacity of the rondavels is 24 people/night and for the campsites it is 160 (20 x 8 people per site). This gives Fanie's a maximum capacity of 184 people nights.

Occupancy for the resthuts has remained constant at an average of 75% for the period 1977/78 to 1980/81. There was a marked increase in occupancy rates in 1981/82.

Average campsite occupancy is 30%.

Day visitor numbers comprise 44% of the total visitor numbers and number of day visitors has almost doubled in the last two years.

Fanie's Island's main attraction is the fishing and the visitor trends can be explained by whether fish catches were good or not: 1981 was a particularly good year for salmon catches and this is shown up in the extremely high visitor numbers, especially in July. Generally, the salmon season lasts from April until about October. November and February are exceptionally quiet months. Other than fishing, monthly peaks in visitor numbers can be explained by school holidays.

Although it is generally accepted that Fanie's Island is visited mainly by fishermen, no figures showing number of fishermen or number of boats launched are available. It is important to have this sort of data in order to establish trends. It is also not known how many people walk the trail system or merely come to the area for peace and relaxation.

### Discussion

#### 1. Siting of permanent structures:

It is important that the natural character of Fanie's Island is preserved, by the discrete location of man-made structures. They should be built in such a way that they are not conspicuous from the Lake or from any area that the public use.

#### 2. Nature orientated activities

More emphasis should be placed on providing nature orientated facilities for visitors at Fanie's Island. In hyper-saline conditions, fishing becomes very bad at Fanie's Island and the area lends itself very well to trails and nature-orientated activities eg bird watching. Fanie's Island is in a good location for operating launch tours as it is in close proximity to good bird viewing areas.

## CHARTER'S CREEK

Charter's Creek restcamp is on the western shores of the Lake on the crest of an ancient dune ridge, overlooking Lake St Lucia. The resort is 30km from Mtubatuba and access is good with only the last 5 km being untarred. The camp is surrounded on three sides by indigenous bush and forest with associated plant and animal life eg forest birds and antelope such as red and grey duiker and bushbuck.

### Facilities

There are 15 rondavels at Charter's Creek which can accomodate a maximum of 45 people per night. A self-contained cottage is currently being built. There is a swimming pool, children's playground, community hall and curio shop at the camp.

Charter's Creek is a very popular fishing resort and facilities for fishermen includes bait sales, a launching jetty and boat hire facilities.

A launch tour operates daily when circumstances permit and there are two self-guided trails, each about 5 km long.

Dayvisitor facilities include picnic sites, parking grounds and ablution blocks.

### Utilization

Rondavel utilization has steadily increased from 2571 people in 1977/78 to 3505 people per annum in 1981/82. Occupancy rate is presently 93% and the rondavels are fully booked almost all year round.

The salmon season runs from April through to September and during this period the rondavels are mainly used by fishermen, while people who want a nature-orientated holiday in peaceful quite surroundings occupy the rondavels for the remainder of the year. Peaks in fishing activity are reflected by boat and day visitor numbers. For example, 1981 was a very good salmon season and number of day visitors and boats brought into the area increased markedly. (See appendix) These figures can be compared with the relatively low day visitor numbers in 1979/80 when the Lake was fresher than normal and fishing was poor. Therefore day visitor numbers are influenced by the state of the fishing and by holiday periods.

In general the quietest times of the year are February and November.

Launch tours are very popular all year round and they partially account for the fact that Charter's Creek has higher visitor numbers

than Fanie's Island. Many foreigners come to Charter's Creek because the launch tour is the only way they can see the Lake with its birdlife and hippopotamuses for which it is renowned.

Visitor numbers for launch tours are not a reflection of their popularity as tours of necessity are cancelled when there are mechanical problems with the boats or when the Lake conditions are unfavourable or when staff are not available to drive the boat.

No utilization figures are available for the self-guided trails at Charter's Creek.

### Discussion

#### Shoreline development

Any permanent structures or development of any type must be planned very carefully so as not to detract from the natural character of the shoreline.

### EASTERN SHORES NATURE RESERVE

The area comprises 25000ha of land between the Lake and the sea and is run jointly by the Natal Parks Board and the Department of Forestry. 3313ha of land are planted under pine trees and approximately one third of the Eastern Shores is closed off from time to time for military activities.

#### Attractions and facilities:

Apart from Cape Vidal (discussed separately) the only area that the public are allowed to visit by car is Mission Rocks, a day visitor site on the coast. This is an attractive stretch of coastline, and its main features are the rocks and rockpools, while the high vegetated dunes form an attractive backdrop. Visitors come to Mission Rocks to fish, walk and explore on the rocks, and the rocky off-shore bed is suitable for diving.

Mziki trail: A self-guided trail system is available for hikers on the southern Eastern Shores. Hikers have to walk to the base camp at Mt Tabor from where they can walk on the different trails, returning to base camp each night. Total length of the trails is 30km.

Wilderness area: A wilderness area exists north of Lake Bangazi South and the intention is to retain this area in as natural a condition as possible, with no permanent structures and as little interference as possible from man. Entry into the area is on foot only, and a limited number of people are allowed into the area at one time.

### Utilization

The wilderness area is only used for six months of the year when wilderness trails are conducted by a white ranger. There is a maximum of six people per trail and four days are spent on trail. Members of public are not permitted into this area except on trail. Utilization is therefore very low; a total of 393 people have been on wilderness trails over the last 5 years with an average of 78.6 people per year.

The hut at Mt Tabor sleeps 8 people and occupancy is low (14% in 1981/82; 19.5% in 1982/83). Highest number of bednights are recorded in the school holidays. Records for Mt Tabor are only available for 1980 onwards, so data are not sufficient to pick up any other trends at this stage.

Facilities at Mission Rocks are very limited and consist of a parking area for about 20 cars and a toilet/change-room building.

No record is kept of the number of people who visit Mission Rocks as the figures are combined with those of Cape Vidal. However at times, Mission Rocks and Cape Vidal are so full that entrance onto the Eastern Shores road has to be limited to 100 cars.

First Rocks, a site about 5km south of Mission Rocks is a very popular day visitor site. Access is along the beach from St Lucia and at times this area is very crowded although no records are kept of number of visitors per day. Visitors to Mission Rocks and Mt Tabor can visit this area on foot.

### Discussion

Under-utilization of the Eastern Shores Nature Reserve:

Demand for hiking trails is high (National Hiking Way Board annual reports) and the Eastern Shores has the potential for one of the finest hiking trails in the country. In this way, a much higher number of people could be using the area without altering the character of the place and without providing extensive additional infrastructure. If public utilization of the area is higher, then there is a better chance of the area retaining its function as a conservation area when threatened by other land-uses such as afforestation or mining.

### CAPE VIDAL

Cape Vidal is situated approximately 30km north of St Lucia village on the Eastern Shores. The camp is in the sand dunes adjacent to the sea and the main attractions to the area are the sea and fishing. An off-shore reef offers a protected area for swimming and boat launching. Access is on a hardened dirt road which is sometimes sandy and corrugated. This road passes through the Eastern Shores Nature Reserve, and Cape Vidal and Mission Rocks are the only two places on this road where the public can get out of their cars, walk about, picnic and gain access to the sea.

### Facilities

Campground facilities include ablution blocks and 50 campsites. A small community centre/hall has been built near the campsites and visitors may use this for gatherings and film shows.

There is a large parking area for boats and cars near the entrance onto the beach and separate braai and parking facilities exist for day visitors. Fish gutting facilities are provided.

Petrol, firewood and charcoal are on sale to the public. Public are permitted to go on walks around Lake Bangazi, a fresh water lake in the vicinity, and it is intended to open self-guided trails in the near future.

An area of ground is leased to 13 different ski-boat clubs and 13 shacks have been built at Cape Vidal. These huts are not available for public use, but the ski-boaters make use of the facilities provided by Natal Parks Board at Cape Vidal.

It is planned to construct 5 logcabins at Cape Vidal in the near future. (Walker, 1982)

### Utilization

The total number of campers visiting Cape Vidal per annum is relatively low, compared to day visitors. Day visitor numbers reached a peak at 44 053 in 1980/81, and have declined slightly since then. On average, they form 91% of visitors to the resort. Average number of campers is 4367 per annum and average number of day visitors is 38922 p.a. (It should be noted however that the day visitor numbers include day visitors to Mission Rocks, as well as Cape Vidal. This is because the visitor's book is at the control gate that serves both Cape Vidal and Mission Rocks.)

The annual occupancy rate for campsites has increased from 43% in 1979/80 to 63% in 1982/83. Average monthly occupancy rates vary greatly and average occupancy rate for December is 86.6%.

On a seasonal basis, visitor numbers peak during the holiday periods with more people visiting in December than any other month of the year.

Two visitor surveys have been conducted at Cape Vidal: one by Sutcliff and Butler-Adam in 1976 and one in April 1982 by Natal Parks Board and Department Environment Affairs.

In the latter survey, the highest percentage of people interviewed had travelled long distances (600-800km) for a holiday of a week or longer or else were day visitors. Reasons for visiting Cape Vidal included relaxing on the beach (43%), the quiet peaceful nature of the place (59.6%) and ski-boating (44%). Activities preferred were mainly beach and sea orientated activities (beach walks, sunbathing, swimming, diving, surf angling and ski-boating).

A record is kept of the number of vehicles going onto the beach as

well as number of ski-boats launched. In 1981, approximately 230 boats were launched, and there was a total of 1461 launchings on 328 days, which makes an average of 4.34 launches per day. (ORI Data)

#### Ski-boat clubs:

The combined total of all the ski-boat club members is 284 people and they own 55 ski-boats. This means that one member in five owns a ski-boat and the rest are either crew or else they fish from the shore.

#### Discussion:

Detailed on-site planning has been undertaken for the logcabins at Cape Vidal, and this is very encouraging to see. It is essential that planning such as this be undertaken prior to any development.

It is important that Cape Vidal is not developed in such a way that it loses the features that make it so attractive to people eg remoteness, peace and quiet, opportunities to observe nature and enjoy the beach. Cape Vidal is essentially a nature-orientated resort, and detailed planning should be done in sympathy with this concept, ie fishermen's shacks removed, parking rearranged and environmental appreciation enhanced.

The beach is an important feature to most visitors to Cape Vidal and it should therefore not become a large ski-boat launching site. Zoning should be implemented to separate bathers and non-motorised beach users from the ski-boats and four wheel-drive vehicles

#### Reference

Walker, R.S.;Hornby, T.H.;MacDevette, D.R.;and Brent, B.L. (1982) Development plan for Cape Vidal Public Resort Nature Reserve. Planning Sub-committee of the Eastern Shores Management Committee.

### ST LUCIA RESORT AND VILLAGE

St Lucia Estuary is in a unique situation in the St Lucia/Mkuzi Complex as recreation facilities are provided by both private enterprise and by the Natal Parks Board. Functioning as it does, as a small town, it is far more difficult to know how many people use the area at any one time as people may stay in private accomodation, in private houses with friends, or are in the area for only a day or less.

#### Background

St Lucia Estuary is very important as a recreation resort at both national and provincial levels. On a provincial level its proximity to the large urban area of Richards Bay/Empangeni and its relative

proximity to Durban make it an important environment-related recreation area for people wishing to escape from the strains of urban life. On a national level, it is an important coastal holiday area for visitors from inland, mainly the Transvaal.

#### Main attractions to St Lucia

At present, St Lucia is primarily regarded as a fishing resort and the main attractions are the sea, beach and the Estuary Mouth. Main activities indulged in, are fishing from the shore, from ski-boats and from boats on the Estuary; beach activities including sunbathing, beach combing and bait collecting, walking, swimming and diving; driving to other areas; and picnicing.

However, there are many possibilities of providing nature-orientated activities at St Lucia. Natural features include the coastal forest at Eden Park; swamp forest and mangroves on the edge of the Estuary; a diversity of habitats in the Game Park; dune forest north of the swimming beach and the reedswamp lagoon on the seaward side of Sugarloaf Campsite. This little lagoon has tremendous potential to become an interesting bird sanctuary, and could be made accessible by means of pathways, boardwalks and viewing hides. All the above natural features could be made accessible to the public in order to enable them to see some of the bird, plant and animal life that they have heard so much about.

#### Present facilities, Natal Parks Board:

Natal Parks Board has provided two campsites for whites, with a total of 155 sites, and a campsite for non-whites with 20 sites.

The public can see wildlife and birds by walking on trails in the Game Park or by going on conducted launch tours which operate twice daily, circumstances permitting. They can also visit the Crocodile Centre where they can see crocodiles and interpretive displays.

Public are able to launch their boats at a jetty and boats (without outboard motors) are available for hire. Bait is on sale. Other Parks Board facilities include curio shops and an auditorium which seats 200 people.

#### St Lucia village:

Numerous accomodation facilities are available in the village. There are two hotels and over 20 holiday flats, cottages, and boarding establishments. (Table 1) Other facilities available in the village are: shops, garages, post office, butcheries, boat-hire facilities and deep-sea fishing trips.

Table 1

Holiday accomodation in St Lucia as at 1/4/83

	Approx. number of people accomodated
1. Owebeni holiday flats	60
2. Pelican Rest camp	120
3. Shonalanga Holiday Flats	66
4. St Lucia Fishing Resort	220
5. St Lucia Travel Lodge	71
6. Travel Lodge Caravan Park	200
7. Saxmere Lodge	83
8. Sandy Place	110
9. Aspidura Holiday Flats	28
10. Tight Lines	70
11. Will-o-Rene Rest Camp	120
12. St Lucia Holiday Flats	77
13. Grunter Holiday Flats	45
14. Chris Rondavels	50
15. Namib Holiday Flats	44
16. Khoka Moya/Cormari	72
17. Villa Mia	40
18. Mulders Flats	24
19. Javandi	132
20. Meer-en-see	25
21. Estuary Hotel	57
22. Lake View Hotel	78
25. Private houses with flats	115
Total	<u>2051</u>

Utilization

Utilization figures are difficult to obtain and it is not known what proportion of the population are using each of the facilities offered. The following breakdown gives an indication of the maximum number of people that can be accomodated in the area:

Number of permanent residents	400 people
Private holiday homes	700 people
Private enterprise accomodation	2050 people
Natal Parks Board campsites	1000 people
People visiting local residents	<u>200 people</u>
Total	4350

Therefore, at peak occupancy periods St Lucia can accomodate over 4300 people per night. These people are all potential users of the facilities offered at St Lucia, as well as at the other resorts on the Lake, which they may visit as day visitors.

Trends

Data are available for Natal Parks Board campsites only. Total number of visitors dropped from 22058 in 1977/78 to 12354 in 1980/81 but

increased again in 1981/82 to 15715 and occupancy rates are currently 40%.

Visitor utilization shows expected peaks during the school holidays in April, July, October, and December. The quietest months of the year are February and November. Visitors generally stay for at least two days and they stay for an average of 7-8 days in July and December. Average size of a group booking into a campsite is 4-5 people in the school holidays (March, July, Oct and Dec) while average group size is 3-4 people for the rest of the year (Sample survey from receipt books, St Lucia Resort 1981-1982). It should be borne in mind though, that maximum number of people allowed on one campsite is 6, so if a group consists of more than 6 people, they would have to book two campsites.

Natal Town and Regional Planning Commission have done two spot counts of people using the beach and the Estuary, but no regular utilization figures are kept. It is not known how many day visitors come to the area, or how many people walk on trails. Game Park utilization appears to be relatively low, while trails through Eden Park have fallen into disuse, probably through lack of publicizing.

#### Launch Tours

Launch tours are always popular and the decrease in number of people on launch tours, especially in 1981/82, is due to mechanical failure of the launch boats, rather than lack of demand from the public.

#### Crocodile Centre

Crocodile Centre visitor numbers peaked in 1980/81, when in fact occupancy of campsites was at its lowest, indicating that the Crocodile Centre is not dependent on visitors accommodated at Natal Parks Board campsites. Since 1980/81, visitor numbers have dropped and the attendance figures for the first six months of this year (1982/83) are 20% lower than for the corresponding period in 1981/82. The reason for this could be that the entry fees have been raised and that the centre is no longer a novelty to visitors.

#### Discussion

St Lucia Estuary provides the gateway for great many people to the sea, the natural environment, a large water surface and to areas of natural beauty on the Eastern Shores. St Lucia remains a resort where people can holiday in natural surroundings while still being able to enjoy amenities such as tar roads, electricity and shops. Care must be taken not to destroy the very features that attract people to the area, through unplanned expansion and development. The natural character of the place should be retained as much as possible, because, if it is destroyed, then people move on to less developed areas, which in turn become spoilt and subsequently lose their attraction.

Planning for St Lucia Estuary is therefore very important. Natal Town and Regional Planning have conducted a natural resources evaluation to determine which areas are suitable for different intensities of recreation and interpretation. A town planning scheme

exists for the area in which areas are zoned for different land uses, including conservation. However a recreation plan for the Natal Parks Board areas is still needed, so that the constraints on the use of natural resources is set out in detail. (eg. siting for braai and picnic areas, slipways, size of parking lots etc.).

Undeveloped natural areas are becoming so scarce now that we cannot afford to open up new "unspoilt" areas for intensive public utilization.

#### REFERENCES:

Little, A.M. & Phelan, A.J. 1976. St Lucia Estuary study: an evaluation of natural resources. Natal Town & Regional Planning Commission.

Natal Town and Regional Planning. 19.. St Lucia Estuary Development plan.

#### MAPELANE

Mapelane is a coastal resort, situated to the south of the Umfolozi River. It is flanked by high vegetated dunes which are a spectacular feature of the area.

The road to Mapelane (38km) is sandy and passes through plantations and later along the edge of the Umfolozi swamps.

#### Facilities and attractions

The sea is the main attraction to Mapelane. It is a popular fishing resort and a reef forms a protected bay which provides good ski-boat launching conditions and a protected swimming area under normal circumstances.

Accommodation facilities includes 9 chalets and a camping ground with 44 campsites and ablution blocks. A thatched community hall and a small open-sided shelter is available for visitors to keep their deep-freezers.

Bait, curios and firewood are on sale to the public, but no petrol. Picnic sites are available for day visitors, although most of the day visitors come for the beach and the fishing.

Mapelane Ski-Boat Club rents an area of land at Mapelane, which is fenced off and closed to the public. Control of this site is vested with the club. There are 40 caravan sites, 2 ablution blocks and a club house on this piece of land. Most of the members leave their caravans and boats on site all year round.

### Utilization

Total number of people accommodated per annum has risen steadily from 4233 in 1977/78 to 5508 in 1981/82. Over this 5 year period (1977-1981) occupancy rates for campsites have remained fairly constant at 32.4% (average) Chalet occupancy rate has increased rapidly from 69.2% in 1978/79 to 88% for the first half of 1982/83.

Average monthly visitor numbers show expected peaking in school holidays. Visitor numbers are much higher for the period March to August than for the rest of the year, as this is considered a good period for fishing. The quietest months of the year are February, September, and November.

### Day visitors

63% of the visitors to Mapelane are day visitors. Day visitor numbers peak in April, July, and December.

### Boats

A monthly count of boats entering the resort has been kept since June 1982. This count will be very useful to detect trends. No boat records exist prior to this date. The Mapelane ski-boat Club comprises 27 members and about 12 ski-boats. It is estimated that about 20 to 30 boats launch at Mapelane.

### Diving

One diving club visits the area annually.

### Wildlife observation and walks.

Mapelane has a fascinating combination of botanical communities including papyrus, phragmites and mangrove swamps, fresh water swamp forest and superb examples of coastal dune forest. (Weisser, 1976). In addition, the Umfolozi and Umsunduzi Rivers are inhabited by crocodiles and hippopotamuses and numerous species of coastal, estuarine and forest birds are known to occur in the area.

Mapelane is therefore ideal for nature observation. Walks and observation hides could be established to highlight these features to visitors.

At the moment, only one disused hide exists and there are no trails. A track to the Trig Beacon (a view point) has been closed down because the path was eroding badly.

### Discussion

1. There no walking trails provided at Mapelane. The resort is situated in fascinating surroundings (dune forest, swamp forest, mangrove swamps and the associated bird and animal life) and a trail would be a very popular alternative to beach

activities.

2. Care must be taken that Mapelane does not become a large ski-boat launching area as boat launching and swimming occur in the same place and additional boats and four-wheel drive vehicles on the beach will be a hazard to bathers and other beach-users.

3. Any form of development that will alter the natural character of this resort should be resisted.

Reference:

Weissen, P.J. (1978) A vegetation study of the Zululand dune areas. Natal Town and Regional Commission Report, Vol. 38.

GENERAL TRENDS

Summary

An average of 150000 people visit the area every year (Table 2). Many of these visitors stay for visits of over two days and the average number of visitor days per annum is 476054 (Table 3).

Table 2

TOTAL NUMBER OF VISITORS 1977-1982, ST LUCIA/MKUZI AREA

<u>AREA</u>	Average number of visitors per annum
Mkuzi Game Reserve	13000
Sodwana	27000
False Bay Park	15700
Fannies Island	6400
Charter's Creek	7900
Cape Vidal	42600
Mapelane	13500
St Lucia	25000
Eastern Shores	114
TOTAL	151214

Table 3: AVERAGE UTILIZATION FIGURES: 1977-1982, ST LUCIA/MKUZI AREA

	Average number of unit nights per annum	Average people nights per annum
MKUZI		
Accommodation units	6137	17155
Day visitors		6429
SODWANA		
Camping	48060	192240
FALSE BAY		
Camping	1986	7944
Bush huts	204	612
Day visitors		13247
FANIES ISLAND		
Camping	2012	8052
Resthuts	3159	6318
Day visitors		2788
CHARTER'S CREEK		
Resthuts	4507	9014
Day visitors		4868
CAPE VIDAL		
Camping	8052	32208
Day visitors		39000
MAPELANE		
Camping	1438	5752
Chalets	4996	14988
Day visitors		8468
ST LUCIA		
Camping	23604	94416
Day visitors		12000
EASTERN SHORES		
Mt Tabor		275
Wilderness trails		280
Average number of people days per year:		
	St Lucia area	452470
	Mkuzi Game Reserve	<u>23584</u>
	TOTAL FOR THE AREA	476054

Visitors to Sodwana Bay make up 192,000 people days (ie. 41% of the total). A total of 600 campsites are provided at Sodwana and at peak periods the resort is completely full.

Hutted accommodation is more heavily utilized than camp sites with

occupancy rates of 80-90% p.a.

Visitor numbers peak during the school holidays, especially Easter and Christmas. Generally the first six months of the year are busier than the latter half of the year.

Day visitors make up 50% of the average number of people days at False Bay, Charter's Creek, Cape Vidal and presumably at St Lucia. Nothing is known about day visitor numbers at St Lucia.

The main attractions to the area are nature-orientated activities and centre on the sea and the Lake. Facilities are provided by Natal Parks Board for the following activities: boating, fishing, swimming, walking, game viewing and hiking.

Visitor numbers at the Lake are influenced by the physical conditions of the Lake. When lake levels are low and salinities are high, then fishing and boating are poor and visitor numbers drop.

Day trails are becoming popular and numbers of people on trails at Mkuzi has doubled in the last five years. New trails have been opened in False Bay, Charter's Creek, Fannies Island and St Lucia during the last five years.

Visitor utilization figures do not give an accurate picture of the popularity of Wilderness Trails and launch tours. The availability of these conducted tours and trails is determined by many factors, such as weather conditions and they are always heavily booked.

Fishing and swimming are the main activities at the coastal resorts and very little is known about the relative popularity of the various beach activities eg sunbathing, swimming, shore angling, ski-boat fishing, diving, off-road driving. Conflicting beach activities have not been quantified, but ski-boaters launch and beach in the same area that people swim in, and four-wheel drive vehicles drive in areas that are used by people on foot. These activities need to be monitored so that numbers can be related to the capacity of the area.

Game viewing is the main attraction to Mkuzi Game Reserve where there are 87km of game-viewing roads and three hides. No data are available for visitor numbers at hides.

The whole study area is within a Game Reserve and, in keeping with the Board's policies, visitors should be able to experience the peace and quiet of the natural environment and urban-type facilities should be kept to a minimum.

Visitors must have the opportunity to view wild animals in a game reserve environment and, where possible, they must also be able to walk and observe animals on foot.

Care must be taken not to destroy the features that make up the natural character of an area. Any development should be of a type that will enhance the experience of the natural environment. Man-made structures should be hidden from view of people on the lake and on trails. Electrification of campsites on the lake shore should only be undertaken after careful consideration of the effect that it will have

on the natural character of the whole area.

#### Growth and development:

Development at stations tends to take place without considering its overall effect on the whole system.

It should be remembered that recreation is only one type of land use that the area has to support. It is therefore important to recognise how the other land uses fit into the overall development plan for the area, before detailed recreation plans can be drawn up.

Many plans have been drawn up for different Natal Parks Board areas: A'Beare et al (1977) undertook a land evaluation of the Eastern Shores which needs to be built on in order to set limits for recreation use. Dept. of Forestry (1981) set out goals and principles for development on the Eastern Shores. Natal Parks Board have a management plan for the Eastern Shores and False Bay Park and Natal Town and Regional Planning have produced natural resource evaluations for St Lucia Estuary and Sodwana Bay. A development plan for Cape Vidal has been drawn up by Dept. of Forestry and Natal Parks Board.

However there is still a need for a guiding strategy for recreation development in the context of the whole St Lucia/Mkuzi area ie. a holistic approach to recreation planning. Only after this has been done can carrying capacities be determined.

The plan for Greater St Lucia/Mkuzi area (Brooks, Goodman & Taylor, 1982) is the only document which puts the whole area into perspective and gives overall guidelines for zoning.

It is not the Board's objective to satisfy demand for recreation facilities, and provision of new facilities should not be governed by public demand alone. Limits must be set as to the numbers of people that an area can support, and these limits must be determined by management objectives for each area.

There is a need to examine the acceptability of diversifying both activity opportunities and accommodation facilities at each station. It should be determined whether diversification is the best method of alleviating congestion.

A strategy is needed to ensure that sufficient fresh water is available for the number of people that are to be accommodated.

#### Privileges for minority groups

There is a trend for certain members of the public to be allowed concessions in Natal Parks Board areas eg ski-boaters having their own huts, people leaving equipment on a semi-permanent basis at Natal Parks Board resorts, and long-staying residents in campsites. The ethics of allowing special privileges to minority groups (even if they pay for this privilege) should be questioned. The privileges are open to abuse and it is important to develop a policy to prevent these problems from being perpetuated.

## ADDITIONAL DATA COLLECTION REQUIREMENTS

1. Records should be kept of numbers of people walking on day trails.
2. Boats should be recorded entering the park at False Bay Park and at Fannies Island.
3. Angler effort should be quantified at all Lake stations.
4. A monitoring programme should be introduced at St Lucia Estuary, in order to find out numbers of:
  - vehicles on the beach
  - people using the beach
  - people walking in the Game Park
  - day visitors
  - people visiting Mission Rocks.
  - people boating on the Estuary.
  - people who go ski-boating.

References:

- A'Bear, D.R. et al. 1977. St Lucia Eastern Shores: an evaluation of natural resources. Natal Town and Regional Planning Commission.
- A'Bear, D.R. 1978. Sodwana Bay: Outline development plan. Natal Town And Regional Planning Commission.
- Brooks, P.M. Goodman, P.S. & Taylor, R.H. 1982. A preliminary plan for the management and development of the Greater St Lucia/Mkuzi Reserve. Natal Parks Board.
- Little, A.M. & Phelan, A.J. 1976. St Lucia Estuary: an evaluation of the natural resources. Natal Town and Regional Planning Commission.
- Natal Town and Regional Planning Commission. 19.. St Lucia Estuary Development plan.
- Natal Parks Board. 1981. St Lucia Management Plan, Eastern Shores Nature Reserve.
- Natal Parks Board. (in prep.) False Bay Management Plan.
- Walker, R.S. et al. 1982. Development plan for Cape Vidal Public Resort Nature Reserve. Planning Sub-Committee of the Eastern Shores Management Committee.

W.M.TAYLOR  
ST LUCIA ESTUARY  
MAY 1983

## APPENDIX

### TABLES

Tables show the following for each station:

1. Visitor numbers for each financial year from 1977 to 1982 and average number of visitors for each month
- 2.. Unit night occupancy for each financial year from 1977 to 1982 and average number of unit nights for each month.
3. Visitor utilization, where relevant, for Crocodile Centre, trails and launch tours.

MKUZE		TOTAL NUMBERS OF VISITORS												
		APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	TOTAL
77-78	RESTHUTS	166	163	152	135	177	156	175	164	163	118	116	163	1848
	RUSTIC	118	112	97	94	102	91	90	66	73	34	39	44	940
	CAMPERS	NA	112	60	280	108	115	70	74	195	79	7	8	1108
	DAYVISITS	748	634	493	1465	694	643	700	340	870	301	222	648	7758
	TOTAL	1032	1021	792	1974	1081	1005	1025	644	1301	532	384	863	11654
78-79	RESTHUTS	136	166	185	158	163	139	151	192	131	160	113	177	1871
	RUSTIC	34	98	108	101	77	97	106	81	86	54	45	57	994
	CAMPERS	188	112	102	351	115	142	123	62	202	150	71	95	1713
	DAYVISITS	587	583	646	1309	609	614	687	212	678	353	231	282	6791
	TOTAL	995	959	1041	1919	964	992	1067	547	1097	717	460	611	11369
79-80	RESTHUTS	174	178	157	186	164	116	149	110	142	81	45	115	1617
	RUSTIC	83	96	91	90	98	98	62	56	64	42	16	33	829
	CAMPERS	230	155	72	515	132	127	118	58	352	110	19	62	1950
	BUNGALOWS	93	177	153	203	183	188	265	208	294	264	212	278	2508
	DAYVISITS	882	495	289	796	412	467	524	239	677	401	242	325	5749
TOTAL	1452	1101	762	1790	989	996	1118	671	1529	898	534	813	12653	
80-81	RESTHUTS	154	118	157	137	150	180	90	83	138	74	77	106	1464
	RUSTIC	71	42	59	82	78	82	61	52	54	32	21	46	680
	CAMPERS	228	134	135	394	229	53	106	101	287	88	56	88	1899
	BUNGALOWS	292	285	298	283	313	253	258	239	289	223	211	227	3171
	COTTAGES	48	61	48	100	102	110	77	53	79	68	53	64	863
DAYVISITS	709	514	459	1148	647	307	656	403	609	448	216	494	6610	
TOTAL	1502	1154	1156	2144	1519	985	1248	931	1456	933	634	1025	14687	
81-82	RESTHUTS	134	117	128	129	140	130	155	117	160	100	54	130	1494
	RUSTIC	38	63	73	92	67	63	71	29	49	49	25	22	691
	CAMPERS	211	179	81	9	164	118	174	111	292	100	86	76	1592
	BUNGALOWS	323	269	267	331	316	274	300	227	299	239	189	253	3287
	COTTAGES	121	95	89	99	113	88	101	68	109	57	43	63	1046
DAYVISITS	806	466	294	1070	477	322	649	373	696	423	361	586	6523	
TOTAL	1683	1189	932	1721	1277	995	1450	925	1605	968	758	1130	14633	
82-83	RESTHUTS	147	120	149	166	194	541	151	114	156	105	84	126	2053
	RUSTIC	33	63	94	95	69	76	72	43	71	50	19	30	765
	CAMPERS	336	272	119	592	117	143	142	190	339	128	77	96	2551
	BUNGALOWS	339	330	285	369	329	281	396	237	423	235	214	308	3746
	COTTAGES	104	114	102	109	109	106	120	105	96	106	62	108	1241
DAYVISITS	837	775	597	1570	831	533	541	535	528	438	357	583	8125	
TOTAL	1346	1674	1346	2901	1649	1688	1422	1224	1613	1062	813	1251	18481	
MEAN FOR RESTHUTS		151.83	143.67	154.67	151.83	144.67	210.33	145.17	130.00	148.33	106.33	81.50	136.17	1724.50
MEAN FOR RUSTIC		87.83	79.00	85.33	92.33	81.83	84.50	75.33	54.50	66.17	43.50	27.50	38.67	816.50
MEAN FOR CAMPERS		198.83	160.67	94.83	355.33	144.17	116.33	122.17	99.33	277.83	109.17	52.67	70.83	1802.17
MEAN FOR BUNGALOWS		259.25	265.25	250.75	296.5	285.25	249	304.75	227.75	326.25	240.25	206.5	266.5	3178
MEAN FOR COTTAGES		91.00	90.00	79.67	102.67	108.00	101.33	99.33	75.33	94.67	77.00	52.67	78.33	1050.00
MEAN FOR DAYVISITS		761.50	577.33	463.00	1226.33	611.67	481.00	626.17	350.33	676.33	394.00	271.50	486.33	6926.00
MEAN FOR TOTAL		1418.33	1183.00	1004.83	2074.83	1246.50	1108.83	1221.67	823.67	1433.50	851.67	597.17	948.83	13912.83

UPDATE 10/05/83

MKUZE NUMBER OF UNIT NIGHTS

		APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	TOTAL	UNIT NIGHTS TOTAL	PERCENT OCCUP
77-78	RESTHUTS	170	177	168	178	180	163	173	165	167	136	109	137	1923	2190	87.81
	RUSTIC	104	91	87	118	99	72	70	70	83	40	35	43	912	1464	62.30
78-79	RESTHUTS	170	176	183	171	175	176	165	156	157	131	107	158	1925	2190	87.90
	RUSTIC	85	85	100	104	89	95	95	66	89	46	29	45	928	1414	65.63
	CAMPERS	79	39	56	238	75	79	88	34	106	72	37	64	1017		ERROR
79-80	RESTHUTS	166	169	167	183	171	146	160	105	137	88	45	111	1648	2169	75.98
	RUSTIC	102	79	87	110	97	90	62	41	67	30	16	40	821	1464	56.08
	CAMPERS	NA	45	46	239	70	70	79	40	171	61	3	NA	854		ERROR
	BUNGALOWS	60	114	113	169	172	163	226	168	226	193	212	203	2019	2458	82.14
80-81	RESTHUTS	161	144	157	168	163	115	100	94	153	101	79	108	1543	2190	70.46
	RUSTIC	71	45	70	85	75	85	65	41	51	29	19	42	678	1460	46.44
	CAMPERS	127	53	74	208	130	36	59	51	139	35	23	40	975		ERROR
	BUNGALOWS	246	218	239	127	262	207	207	177	227	159	132	220	2421	3285	73.70
	COTTAGES	22	31	30	62	60	39	47	22	43	30	23	25	434	689	62.99
81-82	RESTHUTS	140	139	134	174	167	128	144	90	160	91	29	103	1499	2171	69.05
	RUSTIC	71	55	80	111	78	58	71	31	69	40	12	19	695	1460	47.60
	CAMPERS	135	110	79	0	92	54	107	55	153	49	49	32	915		ERROR
	BUNGALOWS	234	234	226	266	258	219	260	193	242	200	133	191	2656	3245	81.85
	COTTAGES	55	55	43	58	47	42	42	31	51	39	21	30	514	730	70.41
82-83	RESTHUTS	151	147	154	179	169	161	142	114	142	112	94	119	1674	2089	80.13
	RUSTIC	69	49	63	111	81	46	70	41	71	50	112	22	785	1328	59.11
	CAMPERS	188	148	99	391	117	143	47	88	130	61	39		1451		ERROR
	BUNGALOWS	246	253	248	251	260	265	261	192	246	185	129	202	2738	3247	84.32
	COTTAGES	55	50	55	61	57	55	60	48	53	43	24	42	603	736	81.93
MEAN FOR RESTHUTS		159.67	158.67	160.50	175.50	170.83	148.17	147.33	120.67	152.67	109.83	75.50	122.67	1702.00		
MEAN FOR RUSTIC		83.67	67.33	81.17	106.50	86.50	74.33	72.17	48.33	71.67	39.17	37.17	35.17	803.17		
MEAN FOR CAMPERS		105.80	89.00	70.30	221.20	96.30	76.40	76.00	53.60	139.80	55.60	30.20	27.20	1042.40		
MEAN FOR BUNGALOWS		196.5	204.75	206.5	203.25	238	213.5	238.5	182.5	235.25	184.25	151.5	204	2458.5		
MEAN FOR COTTAGES		44.00	45.33	42.67	60.33	54.67	45.33	49.67	33.67	49.00	37.33	22.67	32.33	517.00		

UPDATE 26/05/83

MKUZI		PEOPLE ON TRAILS AND WALKS												
		APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	TOTAL
77-78	BUSHTRAIL	0	7	11	11	12	12	10	11	4	0	0	0	78
	DAYTRAILS	0	0	50	82	39	34	30	24	25	21	16	33	354
	DAYWALKS	0	0	0	98	74	37	56	47	56	33	28	32	461
	TOTAL	0	7	61	191	125	83	96	82	85	54	44	65	893
78-79	BUSHTRAIL	12	11	8	11	4	6	9	0	0	0	0	0	61
	DAYTRAILS	24	21	6	46	16	31	48	13	32	8	8	7	270
	DAYWALKS	0	74	81	157	49	76	60	45	74	11	25	48	700
	TOTAL	36	106	95	214	69	113	117	58	106	19	33	55	1031
79-80	BUSHTRAIL	6	12	13	11	12	2	6	0	0	0	0	0	62
	DAYTRAILS	14	18	31	98	28	34	21	13	46	31	2	17	353
	DAYWALKS	83	96	66	193	136	134	131	51	129	107	43	62	1231
	TOTAL	103	126	110	302	176	170	158	64	175	138	45	79	1646
80-81	BUSHTRAIL	7	12	13	7	12	10	6	0	0	0	0	0	67
	DAYTRAILS	24	11	8	58	28	15	23	4	1		1	3	176
	DAYWALKS	158	177	136	272	166	6	142	103	148	55	54	72	1489
	TOTAL	7	200	157	337	206	31	171	107	149	55	55	75	1550
81-82	BUSHTRAIL	11	10	11	12	12	12	11	0	0	0	0	0	79
	DAYTRAILS	9	21	14	20	18	0	11	0	5	0	0	5	104
	DAYWALKS	194	90	42	326	160	137	145	126	144	145	42	74	1625
	TOTAL	213	121	69	358	190	149	167	126	149	145	42	79	1808
82-83	BUSHTRAIL	12	11	12	6	11	13	13						78
	DAYTRAILS	0	3	10	35	14	28	28	2	3	0	0	0	123
	DAYWALKS	199	157	175	392	169	120	12	115	142	108	52	99	1740
	TOTAL	211	171	197	433	194	161	53	117	145	108	52	99	1941
MEAN FOR BUSHTRAIL		8.00	10.50	11.33	9.67	10.50	9.17	9.17	1.83	0.67	0.00	0.00	0.00	70.83
MEAN FOR DAYTRAILS		13.33	12.33	20.17	56.50	23.83	23.67	26.83	9.33	18.67	10.00	4.50	10.83	230.00
MEAN FOR DAYWALKS		105.67	99.00	83.33	239.67	125.67	85.00	91.00	81.17	115.50	76.50	40.67	64.50	1207.67
MEAN OF TOTAL		96.67	121.83	114.83	305.83	160.00	117.83	127.00	92.33	134.83	86.50	45.17	75.33	1478.17

UPDATE 26/05/83

SODWANA		TOTAL NUMBER OF VISITORS												
		APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	TOTAL
77-78	CAMPERS	6746	2123	664	2580	582	1636	2725	1178	7103	1383	734	4149	31603
	DAYVISITS	212	24	40	56	40	36	20	36	245	21	51	83	864
	TOTAL	6958	2147	704	2636	622	1672	2745	1214	7348	1404	785	4232	32467
78-79	CAMPERS	4474	1713	871	3142	731	1963	3555	1845	7232	1723	1099	1489	29837
	DAYVISITS	77	11	42	123									253
	TOTAL	4551	1724	913	3265	731	1963	3555	1845	7232	1723	1099	1489	30090
79-80	CAMPERS	5022	1653	734	2241	375	881	1763	1141	6542	1338	884	2522	25096
	DAYVISITS	27	11	0	32	4	21	24	5	147	23	0	0	294
	TOTAL	5049	1664	734	2273	379	902	1787	1146	6689	1361	884	2522	25390
80-81	CAMPERS	3496	1530	425	2315	428	1348	2424	1836	7605	1634	874	827	24742
	DAYVISITS													0
	TOTAL	3496	1530	425	2315	428	1348	2424	1836	7605	1634	874	827	24742
81-82	CAMPERS	6846	831	3276	2747	615	760	2188	1813	7888	1893	1302	1388	31547
	DAYVISITS													0
	TOTAL	6846	831	3276	2747	615	760	2188	1813	7888	1893	1302	1388	31547
82-83	CAMPERS	6169	2566	1460	3636	907	998	3057	1768	8308	2877	1176	2734	35656
	DAYVISITS										38	23	54	115
	TOTAL	6169	2566	1460	3636	907	998	3057	1768	8308	2915	1199	2788	35771
MEAN NO. CAMPERS		5458.83	1736.00	1238.33	2776.83	606.33	1264.33	2618.67	1596.83	7446.33	1808.00	1011.50	2184.83	29746.83

UPDATE 25/5/83

FALSE BAY PARK TOTAL NUMBERS OF VISITORS

		APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	TOTAL
77-78	CAMPERS	507	268	149	361	157	221	255	70	475	91	41	242	2837
	DAYVISITS	826	1101	477	975	645	779	956	680	1941	1120	642	1333	11495
	TOTAL	1333	1369	626	1336	802	1000	1211	750	2416	1211	703	1575	14332
78-79	CAMPERS	172	229	140	593	58	240	209	68	639	147	113	44	2592
	DAYVISITS	1186	1303	978	2714	1193	1128	1362	764	1961	1272	553	970	15384
	TOTAL	1358	1532	1118	3247	1251	1368	1571	932	2600	1419	666	1014	17976
79-80	CAMPERS	463	232	90	409	316	189	286	50	409	175	66	84	2769
	BUSHCAMP	20	14	19	45	24	33	17	0	35	59	15	47	328
	DAYVISITS	857	858	635	618	723	719	759	648	2938	859	305	319	10238
	TOTAL	1340	1104	744	1072	1063	941	1062	698	3382	1093	386	450	13335
80-81	CAMPERS	274	206	95	281	271	301	42	23	314	96	27	43	1973
	BUSHCAMP	25	44	18	27	13	31	18	41	20	19	25	25	306
	DAYVISITS	1107	423	512	360	613	313	885	463	1626	374	809	1068	8553
	TOTAL	1406	673	625	668	897	645	945	527	1960	489	861	1136	10832
81-82	CAMPERS	99	143	121	633	174	105	209	70	504	194	98	39	2389
	BUSHCAMP	68	51	38	92	18	19	35	0	16	28	23	22	410
	DAYVISITS	2495	2344	1596	2737	1427	881	1633	1429	2959	1474	753	835	20563
	TOTAL	2662	2538	1755	3462	1619	1005	1877	1499	3479	1696	874	896	23362
92-83	CAMPERS	433	461	102	644	270	198	283	83	512	40	23	28	3077
	BUSHCAMP	37	28	65	33	4	2	4	4	64	31	0	23	295
	DAYVISITS	2219	1325	1019	2893	1754	1286	1454	927	2006	1027	466	532	16908
	TOTAL	2689	1814	1186	3570	2028	1486	1741	1014	2582	1098	489	583	20280
MEAN FOR CAMPERS		324.67	256.50	116.17	476.83	207.67	209.00	214.00	60.67	475.50	123.83	61.33	80.00	2606.17
MEAN FOR BUSHCAMP		37.50	34.25	35.00	49.25	14.75	21.25	18.50	11.25	33.75	34.25	15.75	29.25	334.75
MEAN FOR DAYVISITS		1448.33	1225.67	869.50	1716.17	1059.17	851.00	1174.83	818.50	2238.50	1021.00	591.33	842.83	13856.83
MEAN OF TOTAL		1798.00	1505.00	1009.00	2225.83	1276.67	1074.17	1401.17	886.67	2736.50	1167.67	663.17	942.33	16686.17

UPDATE 20/4/83

SODWANA

## NUMBER OF UNIT NIGHTS

	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	TOTAL	UNIT NIGHTS	% OCCUP
77-78	10841	2785	1480	5379	699	1973	3010	2068	17737	2070	1124	3924	53090	219000	24.24
78-79	8453	2380	1582	5588	1046	1634	2179	1909	16952	2672	1976	1488	47859	219000	21.85
79-80	8577	2090	1186	4479	595	758	1814	2138	14688	2272	1552	5691	45840	219600	20.87
80-81	3777	1435	597	4185	480	1292	2432	3667	18281	2699	1377	1389	41611	219000	19.00
81-82	10167	1129	2881	4845	686	942	2193	3400	18881	2473	1948	2356	51901	219000	23.70
82-83	9764	2249	1379	5785	863	900	6055	3496	19759	3884	1577	5548	61259	219000	27.97
MEAN	8596.5	2011.3	1517.5	5043.5	728.17	1249.8	2947.2	2779.7	17716.	2678.3	1592.3	3399.3	50260		22.94

UPDATE 25/5/83

FALSE BAY PARK NUMBER OF UNIT NIGHTS

	UNIT PERCENT												NIGHTS	OCCUP	
	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR			TOTAL
77-78 CAMPSITES	1136	162	122	257	141	121	147	44	406	58	17	146	2757	15000	18.38
78-79 CAMPSITES	94	92	124	519	37	161	178	51	580	160	45	45	2086	15000	13.91
79-80 CAMPSITES	45	276	191	424	87	67	188	28	360	93	31	60	1850	15006	12.33
BUSHCAMP	14	9	13	29	14	17	17	0	40	51	6	33	243	1464	16.60
TOTAL	59	285	204	453	101	84	205	28	406	144	37	93	2093	14470	12.71
80-81 CAMPSITES	200	129	95	270	89	65	18	13	149	56	27	17	1128	15000	7.52
BUSHCAMP	18	20	7	10	8	16	15	15	24	17	12	4	166	1460	11.37
TOTAL	218	149	102	280	97	81	33	28	173	73	39	21	1294	14460	7.86
81-82 CAMPSITES	34	99	74	616	79	65	124	44	932	125	87	35	2314	14755	15.68
BUSHCAMP	50	36	22	66	7	9	17	0	8	12	10	15	252	1460	17.26
TOTAL	84	135	96	682	86	74	141	44	940	137	97	50	2566	16215	15.82
82-83 CAMPSITES	264	279	104	669	212	149	203	52	451	29	10	14	2436	14755	16.51
BUSHCAMP	33	32	65	17	6	1	2	3	30	10	0	12	211	1460	14.45
TOTAL	297	311	169	686	218	150	205	55	481	39	10	26	2647	16215	16.32
MEAN FOR CAMPSITES	295.50	172.83	118.33	459.17	107.50	104.67	143.00	38.67	479.67	86.83	36.17	52.83	2095.17		
MEAN FOR BUSHCAMP	28.75	24.25	26.75	30.5	8.75	10.75	12.75	4.5	25.5	22.5	7	16	218		
MEAN OF TOTAL	314.67	189.00	136.17	479.50	113.33	111.83	151.50	41.67	496.67	101.83	40.83	63.50	2240.50		

UPDATE 20/4/83

FANNIES ISLAND		TOTAL NUMBER OF VISITORS												
		APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	TOTAL
77-78	CAMPERS	176	262	77	222	48	132	146	60	325	141	31	167	1787
	RESTHUTS	178	178	139	163	205	154	170	122	172	149	86	160	1876
	DAYVISITS	296	229	231	191	221	269	277	175	445	119	71	357	2881
	TOTAL	650	669	447	576	474	555	593	357	942	409	188	684	6544
78-79	CAMPERS	187	176	221	325	59	169	191	54	289	96	33	58	1858
	RESTHUTS	209	152	176	181	146	174	186	158	177	112	72	169	1912
	DAYVISITS	197	198	192	320	156	219	201	90	303	180	171	149	2376
	TOTAL	593	526	589	826	361	562	578	302	769	388	276	376	6146
79-80	CAMPERS	159	98	96	268	64	95	85	87	300	109	38	50	1449
	RESTHUTS	178	172	168	154	163	128	162	117	143	90	124	121	1720
	DAYVISITS	175	153	67	244	113	166	232	125	298	179	135	157	2044
	TOTAL	512	423	331	666	340	389	479	329	741	378	297	328	5213
80-81	CAMPERS	131	117	34	174	211	87	148	32	171	76	7	44	1232
	RESTHUTS	170	151	178	171	226	116	166	154	174	132	94	148	1880
	DAYVISITS	197	196	194	320	244	95	230	104	388	155	214	241	2578
	TOTAL	498	464	406	665	681	298	544	290	733	363	315	433	5690
81-82	CAMPERS	238	0	104	450	449	101	239	122	267	139	74	52	2235
	RESTHUTS	174	195	150	173	250	212	206	183	134	130	110	166	2083
	DAYVISITS	413	374	258	593	398	296	411	165	486	305	236	130	4065
	TOTAL	825	569	512	1216	1097	609	856	470	887	574	420	348	8383
82-83	CAMPERS	240	289	227	406	244	147	146	38	166	65	16	6	1998
	RESTHUTS	195	180	151	159	173	187	191	158	153	145	85	123	1900
	DAYVISITS	536	397	236	614	267	258	215	235	405	201	103	147	3614
	TOTAL	971	866	614	1179	684	592	552	431	724	411	204	276	7504
MEAN FOR CAMPERS		188.50	157.00	126.50	307.50	179.17	121.83	159.17	65.50	253.00	104.33	33.17	62.83	1758.50
MEAN FOR RESTHUTS		184.00	171.33	160.33	166.83	193.83	161.83	180.17	148.67	158.83	126.33	95.17	147.83	1895.17
MEAN FOR DAYVISITS		302.33	257.83	196.33	380.33	233.17	217.17	261.00	149.00	387.50	189.83	155.00	196.83	2926.33
MEAN OF TOTAL		674.83	586.17	483.17	854.67	606.17	500.83	600.33	363.17	799.33	420.50	283.33	407.50	6580.00

UPDATE 26/05/83

FAHIES ISLAND NUMBER OF UNIT NIGHTS

UNIT PERCENT  
NIGHTS OCCUP

	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	TOTAL	TOTAL
77-78 RESTHUTS	281	293	297	333	296	190	329	186	328	261	136	246	3176	4380
77-78 CAMPSITES	207	257	104	353	76	90	202	108	447	158	41	98	2141	7280
78-79 RESTHUTS	297	224	301	325	228	256	280	206	322	220	137	225	3021	4380
78-79 CAMPSITES	242	157	336	453	54	131	182	124	433	86	38	64	2300	7140
79-80 RESTHUTS	327	251	305	313	246	192	272	164	316	279	188	220	3023	4392
79-80 CAMPSITES	204	84	175	430	73	76	93	97	349	109	35	52	1777	7320
80-81 RESTHUTS	256	271	250	310	321	190	250	189	284	196	158	277	2952	4380
80-81 CAMPSITES	97	153	90	245	190	52	149	38	289	101	23	31	1458	7300
81-82 RESTHUTS	283	337	273	348	349	296	328	301	322	277	244	264	3622	4380
81-82 CAMPSITES	253	0	82	531	411	165	223	36	374	140	80	92	2387	6480
82-83 RESTHUTS	323	313	304	331	323	301	300	243	329	230	124	202	3323	4380
82-83 CAMPSITES	309	304	367	611	316	177	144	57	274	93	11	10	2673	7300
MEAN RESTHUTS	294.5	281.5	288.33	326.67	293.83	237.5	293.17	214.83	316.83	235.5	164.5	239	3186.17	26292
MEAN CAMPSITES	227.83	170.33	186.50	415.83	215.67	136.00	181.83	90.33	342.50	136.83	54.50	84.67	2242.83	42820

LAST UPDATE 20/4/83

12.12  
36.28

CHARTER'S		TOTAL NUMBERS OF VISITORS												
		APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	TOTAL
77-78	RONDAVELS	289	203	232	218	200	240	217	169	157	166	173	257	2571
77-78	DAYVISITS	516	433	286	466	309	413	664	43	899	159	228	248	4658
77-78	TOTAL	805	636	568	684	509	653	881	212	1045	325	401	505	7229
78-79	RONDAVELS	208	247	276	229	249	286	204	151	214	239	209	262	2794
78-79	DAYVISITS	414	308	350	648	284	352	458	243	559	268	124	245	4253
78-79	TOTAL	622	575	626	877	533	638	662	394	773	507	333	507	7047
79-80	RONDAVELS	217	270	256	241	252	210	249	282	238	227	253	339	3046
79-80	DAYVISITS	506	296	222	413	151	368	465	142	466	265	263	199	3556
79-80	TOTAL	525	566	478	654	413	578	714	424	704	492	516	538	6602
80-81	RONDAVELS	255	253	309	293	350	263	270	248	219	291	224	222	3227
80-81	DAYVISITS	291	275	456	560	579	263	681	170	595	258	214	212	4554
80-81	TOTAL	546	558	765	853	929	526	951	418	814	549	438	434	7781
81-82	RONDAVELS	505	356	283	357	277	258	305	281	218	192	222	251	3505
81-82	DAYVISITS	565	575	674	1260	790	389	541	496	904	573	295	257	7319
81-82	TOTAL	1070	931	957	1617	1067	647	846	777	1122	765	517	508	10824
82-83	RONDAVELS	245	305	257	304	346	272	320	273	226	220	101	232	3101
82-83	DAYVISITS	591	616	607	729	408	322	408	358	500	336	247	130	5252
82-83	TOTAL	836	921	864	1033	754	594	728	631	726	556	348	362	8353
MEAN NO. RONDAVELS		286.83	280.67	277.17	273.67	280.67	254.83	260.83	234.00	212.00	222.50	197.00	260.50	3040.67
MEAN NO. DAYVISITS		447.17	417.17	432.50	679.33	420.17	352.00	536.17	242.00	652.00	309.83	228.50	215.17	4932.00
MEAN OF TOTAL		734.00	697.83	709.67	953.00	700.83	606.83	797.00	476.00	864.00	532.33	425.50	475.67	7972.67

UPDATE 10/05/83

CHARTER/MS NUMBER OF UNIT NIGHTS

RESTRICTED

	NUMBER OF UNIT NIGHTS												UNIT PERCENT		
	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	TOTAL	NIGHTS	OCCUP.
77-78	418	411	374	426		389	408	362	422	359	215	420	4177	5475	76.29
78-79	397	416	411	428	341	391	416	329	422	367	242	379	4534	5475	82.81
79-80	450	396	375	428	395	259	361	312	407	358	341	392	4458	5490	81.20
80-81	357	403	365	414	440	342	372	305	372	407	236	413	4466	5475	81.57
81-82	403	422	389	452	448	411	448	406	427	406	323	347	4902	5471	89.60
82-83	412	427	419	447	432	401	419	359	405	413	234	332	4700	5460	86.08
84-85	414.83	412.5	388.83	452.5	409.2	361.17	403	345.67	409.33	385.00	265.67	380.50	4539.50		

UPDATE 1/05/83

CHARTER'S CREEK NUMBER ON LAUNCH TOURS

	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	TOTAL
77-78	133	106	152	107	97	98	109	59	89	77	74	107	1208
78-79	142	47	113	141	131	103	100	107	132	81	74	68	1239
79-80	58	102	92	134	109	79	116	115	117	96	73	165	1256
80-81	123	150	186	245	192	86	88	26	4	3	12	88	1203
81-82	185	118	55	286	150	107	73	180	218	92	32	NA	1496
82-83	134	92	101	169	110	44	-	-	-	-	-	-	650
MEAN	129.17	102.5	116.5	180.33	131.5	86.17	97.2	97.4	112	69.8	53	107	1280.4

CHARTERS CREEK BOAT NUMBERS

	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	TOTAL
77-78 PRIVATE	26	18	11	20	15	30	47	20	30	30	17	39	303
HIRED													0
TOTAL	26	18	11	20	15	30	47	20	30	30	17	39	303
78-79 PRIVATE	32	35	38	37	27	26	45	11	24	16	15	31	337
HIRED						89	55	80	45	21	32	47	369
TOTAL	32	35	38	37	27	115	100	91	69	37	47	78	706
79-80 PRIVATE	25	16	38	37	20	67	71	22	27	15	20	22	380
HIRED	35	72	46	43	65	50	42	39	27	24	59	38	540
TOTAL	60	88	84	80	85	117	113	61	54	39	79	60	920
80-81 PRIVATE	17	17	15	21	64	32	17	15	25	16	16	31	286
HIRED	54	59	39	35	47	48	22	43	25	48	37	35	492
TOTAL	71	76	54	56	111	80	39	58	50	64	53	66	778
81-82 PRIVATE	59	81	140	126	61	40	46	44	64	56	23	40	780
HIRED	36	59	41	46	45	34	48	27	34	45	34	31	481
TOTAL	95	140	181	172	106	74	94	71	98	101	57	71	1176
82-83 PRIVATE	53	93	105	59	53	34	33	24					454
HIRED	15	39	32	22	52	50	33	42					284
TOTAL	68	132	137	81	105	84	66	66	0	0	0	0	738
MEAN PRIVATE	35	43	58	50	40	38	43	23	31	25	17	28	351
MEAN HIRED	23	38	26	24	35	45	33	38	26	28	32	30	376
MEAN TOTAL	59	81	84	74	75	83	62	61	60	54	51	63	808

MT TABOR

NUMBER OF BEDNIGHTS

UNITPERCENT

	NUMBER OF BEDNIGHTS												UNITPERCENT		
	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	TOTAL	NIGHTS	OCCUP
80-81	17	0	0	22	20	25	23	0	36	0	0	0	143	2900	4.93
81-82	64	75	28	33	36	28	54	12	34	3	16	24	407	2900	14.03
82-83	56	12	18	66	45	26	25	34					282	1450	19.45
MEAN	45.67	29.00	15.33	40.33	33.67	26.33	34.00	15.33	35.00	1.50	8.00	12.00	275.00		

UPDATE 28/12/8 2

MT TABOR

TOTAL NUMBER OF PEOPLE

	TOTAL NUMBER OF PEOPLE												
	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	TOTAL
80-81	7	0	0	11	10	12	11	0	13	0	0	0	64
81-82	26	25	12	15	18	8	27	6	8	3	8	8	164
82-83	24	6	7	28	33	18	39	12					167
MEAN	19	10.33	6.33	18	20.33	12.67	25.67	6	10.5	1.5	4	4	114

UPDATE 28/12/82



CAPE VIDAL		TOTAL NUMBER OF VISITORS												
		APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	TOTAL
77-78	CAMPERS				398	126	226	167	154	472	248	202	378	2371
	DAYVISITS				5423	2361	2279	2578	1561	6352	3184	5578	5089	34485
	TOTAL	0	0	0	5821	2487	2505	2745	1715	6824	3432	5780	5467	36776
78-79	CAMPERS	268	207	256	283	130	278	327	144	387	296	189	223	2988
	DAYVISITS	5463	2150	1538	4034	1485	2206	2837	2075	6644	2609	2258	1743	35042
	TOTAL	5731	2357	1794	4317	1615	2484	3164	2219	7031	2905	2447	1966	38030
79-80	CAMPERS	485	232	96	236	190	325	270	206	495	436	329	399	3699
	DAYVISITS	5731	2150	1538	3779	1363	2219	3164	2075	7031	2609	2447	1966	36072
	TOTAL	6216	2382	1634	4015	1553	2544	3434	2281	7526	3045	2776	2365	39771
80-81	CAMPERS	261	371	164	472	372	84	433	282	651	498	468	348	4404
	DAYVISITS	4482	2330	1232	5099	3319	1232	3159	2429	7893	7917	2633	2328	44053
	TOTAL	4743	2701	1396	5571	3691	1316	3592	2711	8544	8415	3101	2676	48457
81-82	CAMPERS	541	459	273	612	415	352	392	493	1123	1324	459	1160	7708
	DAYVISITS	5568	2612	1124	4300	2200	1589	2736	2174	7761	8444	1985	1798	42191
	TOTAL	6209	3071	1402	4912	2615	1941	3128	2667	8884	9768	2344	2958	49899
82-83	CAMPERS	582	563	650	425	2075	882	443	334	472	431	254	304	7415
	DAYVISITS	5251	3312	1340	4941	1127	1560	2843	2222	7451	3722	2608	1316	37693
	TOTAL	5833	3875	1990	5366	3202	2442	3286	2556	7923	4153	2862	1620	45108
MEAN NO. CAMPERS		447.40	366.40	288.80	405.60	636.40	384.20	373.00	291.80	625.60	597.00	339.80	486.80	5242.80
MEAN NO. DAYVISITS		4415.83	2092.33	1128.67	4596.00	1975.83	1847.50	2886.17	2089.33	7188.67	4747.50	2901.50	2373.33	38242.67
MEAN OF TOTAL		4788.67	2397.67	1369.33	5000.33	2527.17	2205.33	3224.83	2358.17	7788.67	5286.33	3218.33	2842.00	43006.83

UPDATE 20/4/83

CAPE VIDAL NUMBER OF UNIT NIGHTS

UNIT PERCENT  
NIGHTS OCCUP

	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	TOTAL	TOTAL
78-79	783	692	368	230	366	773	268	389	930	454	301	338	5892	11363
79-80	844	464	235	786	422	698	269	330	1464	773	801	841	7947	18300
80-81	591	321	477	1001	871	370	411	349	1484	958	721	909	8443	18250
81-82	1165	360	197	1193	844	306	430	564	1489	1365	625	1368	9906	18250
82-83	1164	1125	1083	1275	616	510	885	1347	1320	890	507	983	11705	18310
MEAN	913.4	592.4	472	897	623.8	531.40	452.60	595.80	1337.40	888.00	591.00	887.80	8782.60	
UNIT NTS	1500	1550	1500	1550	1550	1500	1550	1500	1550	1550	1400	1550		
OCCUPANCY	60.89	38.22	31.47	57.87	40.25	35.43	29.20	39.72	86.28	57.29	42.21	57.28		

UPDATE 20/4/83

ST LUCIA CAMPSITES TOTAL NUMBER OF VISITORS

		APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	TOTAL
77-78	WHITES	2833	2006	1462	2060	1483	1204	2159	874	3486	2056	361	1348	21332
	NON-WHITE	20	65	39	43	43	74	125	31	152	76	0	59	726
	TOTAL	2853	2071	1500	2103	1526	1278	2284	905	3638	2132	361	1407	22058
73-79	WHITES	2137	1296	919	2230	1014	1121	1703	688	2651	1495	452	533	16239
	NON-WHITE	19	34	0	11	0	0	93	14	150	81	5	5	402
	TOTAL	2156	1330	919	2241	1014	1121	1786	702	2801	1576	457	538	16648
79-80	WHITES	2131	875	754	1806	703	598	1321	491	2612	1236	432	893	13842
	NON-WHITE	69	33	41	111	37	13	0	0	135	132	43	96	710
	TOTAL	2200	908	786	1917	740	601	1321	491	2747	1368	475	989	14543
80-81	WHITES	1742	812	556	2195	398	394	940	527	2043	779	305	352	11543
	NON-WHITE	251	22	9	71	33	27	45	40	175	70	25	43	811
	TOTAL	1993	834	565	2266	431	421	985	567	2218	849	330	395	12354
81-82	WHITES	2641	1480	597	2470	1067	684	1551	488	2238	683	392	606	14897
	NON-WHITE	83	164	14	18	23	6	28	19	226	171	11	55	818
	TOTAL	2724	1644	611	2488	1090	690	1579	507	2464	854	403	661	15715
82-83	WHITES	1429	1331	685	2232	904	914	1157	752	2918	1004	516	1018	14860
	NON-WHITE	273	128	134	17	10	75	117	56	418	190	36	64	1518
	TOTAL	1702	1459	819	2249	914	989	1274	808	3336	1194	552	1082	16378
MEAN NO. WHITES		2152.17	1300.00	828.83	2165.50	1011.50	817.50	1471.93	636.67	2658.00	1208.83	409.67	791.67	15452.17
MEAN NO. NON-WHITE		119.17	74.33	39.33	45.17	24.33	32.50	66.33	26.67	209.33	120.00	20.00	53.67	830.33
MEAN OF TOTAL		2271.33	1374.33	866.67	2210.67	1040.33	850.00	1538.17	663.33	2867.33	1328.83	429.67	845.33	16286.00

UPDATE 20/4/83

ST LUCIA NUMBER OF NIGHTS

CAMPSTES APRIL MAY JUNE JULY AUG SEPT OCT NOV DEC JAN FEB MAR TOTAL TOTAL UNIT PERCENT NIGHTS OCCUP

77-78	WHITES	2980	4288	3438	4775	1040	1525	2851	409	4783	1149	477	834	28531	64628	44.15
	NON-WHITE	12	23	27	14	14	35	44	15	114	31		22	352		
	TOTAL	2992	4311	3465	4789	1054	1560	2895	425	4897	1180	477	858	28883		

78-79	WHITES	2818	2087	1954	3510	1043	1539	2151	894	3897	1384	552	779	22628	87135	25.97
	NON-WHITE	5	20					44	7	62	30	1	5	174		
	TOTAL	2823	2107	1954	3510	1043	1539	2195	901	3959	1414	553	784	22802		

79-80	WHITES	2491	1725	1763	3352	1076	729	1736	677	4577	1168	600	813	20707	87840	23.57
	NON-WHITE	141	23	6	144	56	20			95	69	10	145	709	3660	19.37
	TOTAL	2632	1748	1769	3496	1132	749	1736	677	4672	1237	610	958	21416	91500	23.41

80-81	WHITES	1655	1570	1430	4618	1265	431	1433	718	5161	917	441	523	20162	87600	23.02
	NON-WHITE	253	17	6	428	80	23	23	43	198	31	18	34	1154	5475	21.08
	TOTAL	1908	1587	1436	5046	1345	454	1456	761	5359	948	459	557	21316	93075	22.90

81-82	WHITES	3474	1780	886	5876	1856	684							14556	43920	33.14
	NON-WHITE	211	88	39	173	48	6							565	3660	15.44
	TOTAL	3685	1868	925	6049	1904	690	0	0	0	0	0	0	15121	47580	31.78

82-83	TOTAL	2401	1710	1501	3419	1232	1324	2024	1472	4110	1330	664	2451	23878	58970	39.82
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MEAN FOR WHITES	2683.60	2290.00	1894.20	4426.20	1260.00	981.60	1634.20	674.50	4599.50	1154.50	517.50	737.75	23007.00			
MEAN FOR NONWHITES	124.40	34.20	15.60	151.80	39.60	16.80	22.20	16.50	117.25	40.25	7.25	51.50	597.25			
MEAN OF TOTAL	2773.50	2221.83	1841.67	4384.83	1288.33	1059.33	2061.20	847.20	4595.40	1221.80	552.60	1121.60	23659.00			

ST LUCIA RESORT

NUMBER ON LAUNCH TOURS

	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	TOTAL
77-78	597	503	451	542	427	423	432	359	407	284	147	132	4704
78-79	330	318	339	522	360	327	295	325	484	337	277	336	4250
79-80	469	267	256	395	351	241	372	348	410	304	216	289	3918
80-81	239	331	193	432	238	105	254	146	210	307	134	487	3076
81-82	288	103	0	19	0	0	215	90	91	87	0	194	1087
82-83	210	0	230	241	244	277	181	215	227	215	230	327	2597
MEAN	355.5	253.67	244.83	358.5	270	228.83	291.5	247.17	304.83	255.67	167.33	294.17	3272

UPDATE 20/4/83

CROCODILE CENTRE ST LUCIA

TOTAL NUMBER OF VISITORS

	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	TOTAL
79-80	NA	NA	NA	3380	1379	1746	2577	1223	4310	2646	1025	1562	19848
80-81	3564	1931	1813	4723	2645	1915	3038	2172	5880	3233	1574	2080	34568
81-82	4738	3395	1770	6116	2206	1545	3381	1877	4150	2672	1275	1357	34482
82-83	3807	2552	1173	4284	2426	1701	2729	1747	4507	2482	1617	1775	30800
MEAN	4036	2626	1585	4626	2164	1727	2931	1755	4712	2758	1373	1694	29925

UPDATE 26/05/83

MAPELANE		TOTAL NUMBERS OF VISITORS												
		APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	TOTAL
77-78	CAMPERS	419	462	279	514	449	360	463	302	332	240	86	327	4233
	DAYVISITS	1348	1654	1628	1764	736	1052	1333	424	2592	680	864	1660	15735
	TOTAL	1767	2116	1907	2278	1185	1412	1796	726	2924	920	950	1987	19968
78-79	CAMPERS	350	362	409	433	299	389	349	111	429	208	199	306	3844
	CHALETS											58	132	190
	DAYVISITS	892	956	1504	1089	439	820	728	223	1208	900	800	816	10375
	TOTAL	1242	1318	1913	1522	738	1209	1077	334	1637	1108	1057	1254	14409
79-80	CAMPERS	375	262	177	332	166	278	229	115	319	365	120	202	2940
	CHALETS	156	103	197	174	190	176	161	211	161	175	180	267	2151
	DAYVISITS	1076	573	600	240	214	260	360	105	415	530	155	306	4834
	TOTAL	1607	938	974	746	570	714	750	431	895	1070	455	775	9925
80-81	CAMPERS	611	370	234	450	275	330	347	122	362	291	79	203	3674
	CHALETS	215	257	195	203	254	205	230	134	159	205	272	251	2580
	DAYVISITS	654	526	215	937	426	119	424	343	899	317	91	402	5353
	TOTAL	1480	1153	644	1590	955	654	1001	599	1420	813	442	856	11607
91-92	CAMPERS	589	256	176	402	309	101	275	213	302	180	96	64	2963
	CHALETS	210	215	204	231	197	260	276	183	162	243	95	269	2545
	DAYVISITS	1058	281	219	724	273	170	357	357	432	1276	374	523	6044
	TOTAL	1857	752	599	1357	779	531	908	753	896	1699	565	856	11552
82-83	CAMPERS	2005	559	199	468	371	264	316	112	410	233	211	580	5728
	CHALETS	922	216	225	222	315	207	238	207	151	191	211	245	3350
	DAYVISITS	493	349	314	989	685	478	979	430	1961	859	127	1058	8722
	TOTAL	3420	1124	738	1679	1371	949	1533	749	2522	1293	549	1803	17800

MEAN FOR CAMPERS	724.83	378.50	245.67	433.17	311.50	287.00	329.83	162.50	359.00	252.83	131.83	280.33	3897.00
MEAN FOR CHALETS	375.75	197.75	205.25	207.50	239.00	212.00	226.25	183.75	158.25	203.50	189.50	258.00	2656.50
MEAN FOR DAYVISITS	920.17	723.17	746.67	957.17	462.17	483.17	696.83	313.67	1251.17	760.33	401.83	794.17	8510.50
MEAN OF TOTAL	1895.50	1233.50	1129.17	1528.67	933.00	911.50	1177.50	598.67	1715.67	1148.83	669.67	1268.50	14210.17

UPDATED 26/05/83

WAPLANE NUMBER OF UNIT NIGHTS

UNIT PERCENT  
NIGHTS OCCUP

	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	TOTAL	TOTAL
77-78 CAMPSITES	538	540	351	845	564	344	434	161	689	413	84	304	5267	16860
78-79 CHALETS											43	79	122	
78-79 CAMPSITES	717	507	730	765	334	152	457	114	1048	154	112	118	5208	16060
79-80 CHALETS	147	114	242	190	165	201	165	147	238	200	130	219	2158	3118
79-80 CAMPSITES	542	289	321	887	223	162	296	115	829	374	108	223	4369	14640
80-81 CHALETS	211	148	178	244	189	151	172	93	222	222	237	221	2288	3285
80-81 CAMPSITES	672	305	219	864	581	121	264	86	1105	325	47	144	4733	16060
81-82 CHALETS	238	201	245	226	259	161	240	207	269	257	199	243	2745	3285
81-82 CAMPSITES	1009	142	206	921	394	85	329	291	876	753	181	213	5400	16060
82-83 CHALETS	265	214	249	263	271	218	222	217	264	261	221	260	2925	3285
82-83 CAMPSITES	766	713	243	894	454	231	356	125	797	251	109	409	5348	16810
MEAN CHALETS	215.25	169.25	228.5	230.75	221	182.75	199.75	166	248.25	235	196.75	235.75	2529	
MEAN CAMPSITES	587.83	331.50	223.33	735.17	369.33	157.17	279.83	129.67	716.00	352.67	95.33	228.67	4206.50	

UPDATE 26/05/83