ANNEX 3 WATER QUALITY SURVEY

1. Objectives of the Water Quality Survey

The objectives of the water quality survey (WQS) were to examine existing conditions of water quality and to provide fundamental informations for both, establishing environmental management plan and facilities' design criteria in Kenya.

2. Execustion of the Services

2.1. Study Points

The survey covered cities, national parks and reserves, forest reserves, lakes, rivers, beaches and local people's house in the following locations:

1. Nairobi City	2. Nakuru City	3. Embu City
4. Naivasha Ćity	5. Aberdare N.P.	6. Mt.Kenya N.P.
7. Kericho Town	8. Kisumu City	9. Kisii City
10. Homa Bay Town	11. Kakamega N.R.	12. Mt.Elgon N.P.
13. Lake Bogoria N.R.	14. Lake Baringo	15. Mombasa City
16. Malindi City	17. Lamu Island	18. Garsen Town
19. Shimba Hills N.R.	20. Garissa Town	21. Kailembwa Village

22. Mzima Springs

The samplings points are shown in Table A. 35 and Figure A. 4.

2.2. Sample Size, Amounts of Sample Water and Duration of the Survey

A total of 70 samples were collected among the 22 survey sites. The survey was conducted one (1) time. The amount of water collected for each sample was at least four (4) litres. The survey was executed in 15 days w.e.f. 22nd November, 1994.

2.3. Investigated Items

The following parameter were investigated:

General Parameter:

Weather at the sampling time, Air temperature, Water temperature, Colour of water, and Smell of water.

Water Quality Items:

pH, Colon bacillus, SS, DO, BOD, COD, T-N, T-P, Cl, and Incidental items.

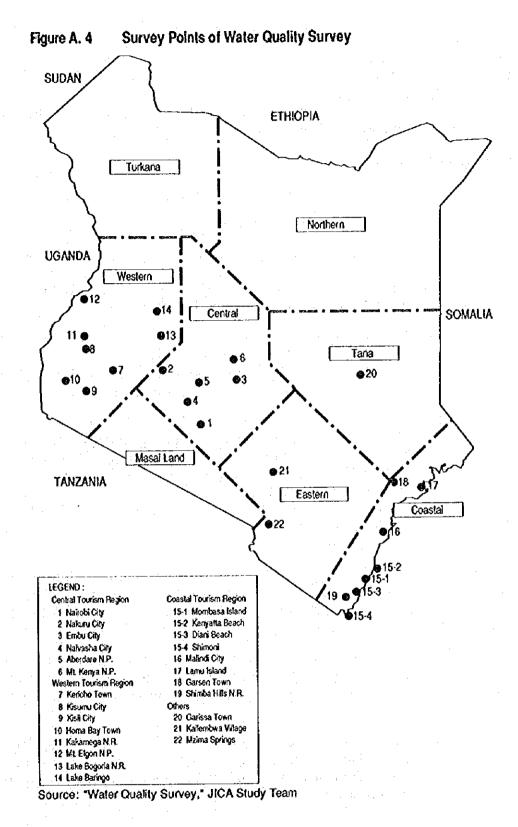
Other:

Photograph of survey site, and sampling station

Table A. 35 Survey Areas and Survey Stations

Area	Sampling Point	Kind of Water	No. of Samples
entral fourism Region			
Nairobi Town	Hotel Local Peóple's House	Drinking Water/sewerage Drinking Water/Sewerage	1 2 3 4
Nakuru Town	Hotel	Drinking Water/Sewerage	5 6
	Local People's House	Drinking Water/Sewerage	7-8
	Lake Nahuru	Lake Water	9
3. Embu Town	Hole	Drinking Water/Sewerage	10-11
x 2.00 10mi	Local People's House	Drinking Water/Sewerage	12-13
	Ena River	River Water	1 14
. Navasha Town	Lake Navasha	Lake Water	15
Aberdare N.P.	Lodge	Drinking Water/Sewerage	. 16-17
5 Mt Kenya N.P.	Lodge	Drinking Water/Sewerage	18-19
Western Tourism Region	and the state of t		
. Kericho Town	Hotel	Drinking Water /Sewerage	20-21
	Local People's House	Drinking Water/Sewerage	22-23
8. Kisumu Town	Hotel	Dricking Water/Sewerage	24-25
A LOOPING TOTAL	Local People's House	Drinking Water/Sewerage	26-27
Additional Section 2	Lakè Victoria	Lake Water	28
9. Kisii Town	Hotel	Drinking Water/Sewerage	29.30
A NISH TOWN		Drinking Water/Sewerage	31-32
Dallian Davida	Local People's House Lake Victoria	Lake Water	33
10. Homa Say Town	Lake victoria	Lake Water	
II. Kakamega N.R.	Lodge	Drinking Water/Sewerage	34-35
12. Mt Egon N.P.	Lodge	Drinking Water/Sewerage	36-37
13. Lake Bogoria N.H.	Lake Bogoria	Laka Waler	38
14. Lake Baringo	Lake Baringo	Lake Water	39
Coastal Tourism Region			
15. Mombasa Town			
15-1 Morribasa Island	Hotel	Orinking Water/Sewerage	40-41
	Local People's House	Orinking Water/Sewerage	42-43
· · · · · · · · · · · · · · · · · · ·	Beach	Sea Water	44
15-2 Kenyalta Beach	Hotel	Orinking Water/Sewerage	45-46
IV E NOUJANA DOGGI	Beach	Sea Water	47
15-3 Dani Beach	Hole!	Orinking Water/Sewerage	78 49
10-9 Craft Death	Beach	Sea Water	50
15-4 Shirroni	Lodge	Drirling Water/Sewerage	51-32
10-4 SHIDT	Looge Beach	Sea Water	53
			54-55
16. Masnd Town	Hotel	Drinking Water/Sewerage	54-55 56-57
	Local People's House	Drinking Water/Sewerage	
	Beach	Sea Water	58
	Sabaki River	River Water	59
17. Lamu Island	Hole	Drinking Water/Sewerage	60-61
•	Local People's House	Drinking Water/Sewerage	62-63
	Beach	See Water	64
18. Garsen Town	Tana River	River Waler	65
19. Shimba Hills N.R.	Lodge	Drinking Water/Sewerage	66-67
Others			
20. Ganssa Town	Tana River	River Water	68
21. Kallembwa Village	Alh River	River Waler	69
22. Marra Springs	Tsavo River	River Water	70

Source: "Water Quality Survey," JICA Study Team



2.4. Methodology

2.4.1. Microbiological Analysis

 Escherichia coli (E. Coli) and Coliform Count: The universal spread plate count method.

2.4.2. Chemical Analysis

- pH: Using a portale electric pH probe.
- Dissolved Oxyhen (DO): A portable oxygen meter.
- Chloride Ion (Cl): Standard chloride electrode method.
- Total Hardness (T-H): Titrimetric method using Erichrome Black T Indicator and titrating with EDTA.
- Total Phosphorus (T-P): Standard method as explained in Water Analysis, A practical Guide to Physico-Chemical, Chemical and Microbiological Water Examination and quality Assurance by W. Fresenius K.E. Quentin, W. Schineider (Eds).
- Total Nitrogen (T-N): Kjeldahl distillation. The organic nitrogen is digested and converted to amino nitrogen while is further converted to ammonim bisulphate. This is decomposed and distilled as ammonia from the alkaline solution into Boric acid and then titrated. The whole process was carried out in Kjeltac Electronic Equipment which does distillation and titration simultaneously using NaOH and H2SO4 and the endpoint titre recorded.
- Chemical Oxygen Demand (COD): Standard 2-hour refluxing method using mercuric sulphate, silver sulphate, H2SO4, potassium dichromate and titrating with ferroul sulphate with a ferroin indicator.
- Suspended Solids (SS): This was calculated from the difference of the weights of the total solids and total dissolved solids (TDS).
 The water is evaporated at 105 °C and both residues cooled and weighed.
- Biological Oxygen Demand (BOD): The standard 5-day innocubation period was applied in 300 ml BOD bottles. The difference dilution factors were applied depending on the level of contamination of the water sample.

3. Analytical Results and Remarks

The sample collected during the WQS comprised three different types, namely:

- Drinking water samples,

- Surface water samples (Rivers, Lakes and the Sea), and

- Sewage samples.

The analytical results are grouped in this report into three categories:

- Physico-Chemical quality,

- Organic pollution, and

- Bacteriological quality.

For each of the sample type physico-chemical, organic pollution and bacteriological quality are presented in the following tables.

The notations used for the presentation of the results are:

NWMP:

National Water Master Plan,

ND:

Not Detected,

Present:

E. Coli were detected in the sample, and

NIL:

Less than 1 mg/l.

The results of water quality survey are shown in Table A.36 - Table A.42.

	Source and Kind of Water	ρH	₩	Temp	T-H;	O .	Remarks
No.	Nairoo Hotel	7.8	mg/ I 5.0	°C 24.0	mg/lidaC03 37.0	mg/l	
٠.	nanus notei	1.0	3.0	24.0	\$1.0	22.4	A slightly akaline water. The water is tresh and soil and meets the WHO guidelines for drinking water.
3	Nairobi Local People's House	9.3	4.2	24.0	36.0	11.2	An alkaline, poorly aerated water. The water is tresh and soft pH needs to be adjusted to conform with WHO outdefines.
5	Nakuru Hotel	8.0	5.8	29.0	Ю	100.0	A slightly alkaline fresh, soft water which conforms
7	Nakuru Local Peòple's House	6.8	2.3	24.5	24.0	8.0	with WHO guidelines for drinking water. A slightly acidic, poorly aerated fresh and soft water.
10	Embu Hotel	6.2	6.2	22.0	15.0	5.0	Meets WHO guidelines for drinking water A slightly acidic well aeraled water. The water is soft and fresh. Requires pH adjustment to conform with
12	Embu Local People's House	7.5	5.2	22.0	16.0	8.0	WHO guidelines. A slightly akaine soft fresh water which meets the
16a	Aberdare Country Club	5.3	5.0	20 0	29.0	2.0	WHO guideline for drinking water. An acidic fresh soft water which requires pH
16b	The Ark	7.0	5.6	23.0	500.0		adjustments to bring to the neutral range. A neutral, moderately serated hard fresh water. Will
18	Mt. Kenya Lodge (Nanyuk i Municipal	7.0	4.6	26.0	4.0	4.5	require dilution with soft water to improve its quality. A neutral, fresh and very soft water which meets the
20	Water) Kercho Town Hotel	6.7	6.8	18.0	18.0		WHO guidelines for drinking water. A slightly addic, fresh, soft well aerated water. Meets
22	Kericho Local People's House	6.3	6.8	28.0	14.0		the WitO guideline values for physico-chemical quality. A slightly acidic, well aerated fresh water. Requires pH
24	Kisumu Sunset Hotel	7.0	, ,	26.5	42.0	1.55	adjustment to conform with the WHO guideline values. A neutral well agrated fresh water. Meets the WHO
26	Kisumu Local People's House	6.7	7.6	27.0	44.0		guidelines for the tested parameters.
-	1 '			-			A slightly acidic well asrated fresh and soft water. Meets the WHO guideline values.
29	Kisii Hotel	6.3		20.0	18.0		A fresh well aerated slightly addicsoft water. Required the pH to be adjusted to between 6.5 and 8.5.
31	Kisii Local People's House	6.3		24.5	18.0	3.2	A fresh well aerated slightly acidic soft water. Requires supward pH adjustments to be in the range 6.5 - 8.5.
34	Kakamega Lödge	6.3	6.0	26.0	32.0	1.1	A fresh well aerated, slightly acidic soft water. Needs pH adjustment to the range 6.5 - 8.5.
36	Mt. Elgon Lödge	7.0	4.0	17.0	58.0	1.3	A neutral, fresh averagely aerated moderately soft water. Meets WHO guidelines for the tested
40	Mombasa Spiendid Hotel	7.0	6.7	30.0	426.0	11.2	parameters. A neutral well aerated fresh but hardwater. Will require
42	Morribasa Local People's House	7.0			424.0		dilution with soft water to improve its quality. A neutral, moderately aerated fresh but hard water.
T.	no book coca r copie s noce	′.``	"	02.0	727.0		Will requires dilution with fresh water to improve
45	Kenyatta Beach Hotel	7.0	5.1	29.0	114.0	11.2	quality. A neutral, moderately soft fresh water. Meets WHO
48	Diani Beach Diani Sea Lodge	7.0	52	32.0	1100.0	1100.0	quideline values. A neutral, moderately aeraled slightly saline, very hard water. Does meet WHO values for chloride and total
51	Shimoni Lodge	6.5	15	32.0	NĐ	13.0	hardness. A slightly acidic poorly aerated fresh and soft water.
54	Maindi Hotel	7.0	81	30.0	118.0	7.5	Mee's WHO values for those tested parameters. A neutral, well aerated moderately soft, fresh water.
56	Maindi Local People's House	7.0	6.2	30.0	260.0	100.0	Meets WHO guideline values for drinking water. A neutral, well aerated moderately soft, fresh water.
60	Lamu Pala ce Hotel	8.3	4.4	28.0	156.0	18.0	Requires mixing with soft water to improve its quality. A slightly alkaline, moderately aerated soft fresh water
62	tamu Local People's House	7.9	4.0	29.0	150.0	17.9	Meets WHO guideline values. A slightly alkaline, poorly serated, moderately soft,
66	Shimba Hills Lodge	7.0	8.5	22.0	1750.0	ľ	fresh water. Meets WHO guideling values. A neutral, well aerated slightly saling, very hard water. Does not meet WHO guideling values for chloride and hardness.

Table A. 37 Drinking Water - Organic Pollution

Sample No.	Source and Kind of Water	SS mg/l	BOD mg/l	mg/l	T-N mg/I	T-P mg/l	Remarks
	Nairobi Hotel	"NC	1.6	48.0	6.2	0.9	A clear colourless water, free from excessive organic pollution.
3	Nairobi Locai People's House	11.0	13	400.0	6.2	0.9	A slightly turbid water. There is evidence of slight organic and inorganic contamination.
5	Nakuru Hotel	NIL	4.0	16.0	6.0	0.8	Free from suspended matter with little or roorganic pollution.
7	Nakuru Local People's House	2.0	2.0	32.0	5.0	0.8	Slightly turbid. No evidence of serious organic contamination.
10	Embu Hotel	NL	13	ND	5.0	0.7	Free from suspended matter and free from any contamination.
12	Embu Local People' s House	24.0	1.9	48.0	4.3	24.2	Suspended solids present. Evidence of slight organic contamination with phosphates.
16a	Aberdare Country Club	9.0	1.1	NO	4.0	0.5	Evidence of suspended matter, however there is little or no organic pollution.
165	The Ark	13.0	15	24.0	4.8	0.1	There is no evidence of organic contamination.
18	Mt. Kenya Lodge (Nanyuki Municipal Water)	25.0	1.4	ND	4.4	0.6	Apart from the presence of suspended matter there is no evidence of organic pollution.
50	Waterj Kericho Town Hotel	5.0	2.3	20.0	4.3	1.0	There is no evidence of organic pollution.
22	Kericho Local People's House	6.0	2.0	ND	4.4	1.0	Slight suspended material present but noevidence or organic pollution.
24	Kisumu sunset	NIL	9.7	32.0	4.0	1.0	Clear water free from organic pollution.
26		NIL	1.1	28.0	7.0	10	Clear water free from organic pollution.
29	Kisi Holel	NIL	2.0	4.0	4.0	10	Clear water free from organic pollution.
31	Kisii Local People's House	350.0	1.0	120	3.8	10	Excessive arrounts of suspended matter present. No evidence of organic pollution.
34 36		65.0 70.0		NO 8.0	4.0 4.0		
40		12,0	0.5	120	4.3	0.5	
42	Hotel Mombesa Local People's House	177.0	NIL	184.0	7.1	1.0	Excessive amounts of suspended solids present. The COD and T+N levels indicate some organic contamination present.
45	Kenyatta Beach Hotel	115.0	2.8	24.0	4.3	0.2	Suspended solids are high, however there is no evidence of organic pollution.
48	Diani Beach Diani Sea Lodge	1120	3.6	76.0	3.8	0.1	High suspended solids, there is evidence of slight organic contamination.
. 5		649.6	50.4	192.0	7.1	10.0	Grossly contaminated with suspended material with evidence of organic pollution.
54	Malino Hotel	186.0	2.6	124.0	4.3	0.4	High suspended solids. There is eAdence of slight organic pollution.
5	Malindi Local	112	22	4.0	4.3	3 0.4	High suspended solids. There is evidence of organic poliution.
6	People's House Larnu Palace Hotel	107.0	18	28.0	4.	9 0.0	There is no evidence of organic pollution. However, suspended solids are high.
6	2 Lamu Local People's House	s 135.0	1.0	36.0	4:	3 0.	There is evidence of organic pollution. However, suspendied solids are high.
6	6 Shimba Hills Lodge	109.0	2 () NO	3.8	0.	There is evidence of organic pollution. However, suspended solids are high.

Table A. 38 Drinking Water - Bacteriological Quality

Sample No.	Source and Kind of Water	Collorm Count	E.Col	Remarks		
''`	Nairobi Holel	NIL	NIL	Excellent bacterological quality.		
3	Nairobi Local People' s House	NIL	Present	Suspidious bacteriological quality.		
. 5	Nakuru Hotel	NL	NIL	Excellent bacteriological quality.		
7	Nakuru Lócal Peóple's House	NIL	NIL	Excellent bacteriological quality.		
10	Entu Hotel	1/100	NIL	Satisfactory bacteriological quality.		
12	Entru Local People's House	Over 300	Present	Unsatisfactory bacteriological quality.		
16a	Aberdare Country Club	NIL .	NIL	Excellent quality.		
165	The Ark	34.0	NL	Unsatisfactory. Chiorne dosage to be raised.		
18	Mt. Kenya Lodge (Nanyuki Municipal	33.0	NIL	Unsatisfactory quality. Needs further chlorination.		
20	Water) Kericho Town Hotel	NIL	NIL	Exelent quality.		
22	Kericho Local People's House	Over 300	N ⁺ L	Unsatisfactory. Needs chiorination.		
24	Kaumu aunset Hotel	10.0	Present	Unsatisfacory Quality.		
26	Ksumu Local People's House	Over 300	Present	Unsatisfactory quality. Proper treatment and chlorination needed.		
29	Kisi Hotel	Over 300	NIL	Unsatisfactory quality. Chlorination needed.		
31	Kisii Ločal People's House	Nic	NL	Excellent quality.		
34	Kakamega Lodge	100 x 10 ²	Present	Unsatisfactory. Proper treatment and chlorination required.		
36	Mt. Elgon Lodge	NL	NiL	Excellent quality.		
40	Mombasa Splendid Hotel	6.0	Present	Poor bacteriological quality. Further chlorination needed.		
42	Mombasa Local People's s House	Over 300	NIL	Unsatisfactory quality. Further chlorination needed		
45 48	Kenyatta Beach Hotel Diani Beach Diani Sea Lodge	9.0 Over 300	NIL NIL	Intermediate bacteriological quality. Chlorination needed. Poor bacteriological quality. Proper treatment nad further chlorination needed.		
51 54	Shimoni Lodge Malindi Hotel	Over 300 Over 300	Present Present	Unsatisfactory quality. Proper treatment radifurther chlorination needed. Unsatisfactory quality. Chlorination needed.		
56	Maindi Local People's House	Over 300	Present	Unsatisfactory quality. Chlorination needed.		
60	Lamu Palace Hotel	1.0	NIL	Satisfactory quality.		
62		Over 300	Present	Poor bacteriological quality. Chlorination needed.		
66	House Shimba Hills Lodge	Over 300	ML	Poor bacteriological quality. Chlorination needed.		

Table A.39 Surface Water - Physico-Chemical Quality

Sample No.	Source and Xind of Water	рн	mg/ i	Temp C	T-H mg/I CaCO3	Cl mg/ l 178.0	Remarks
9	Lake Nakuru Water	10.6	7.5	30.0	ND	178.0	An akafne well aerated soft water. Howeverpast results indicate that the water quality depends on the points of sampling and the time of sampling.
14	Ens River Embu	6.8	6.8	26.0	10.0	6.3	An almost neutral well aerated water, Soft and fresh water, Meets WHO guidelines for the tested parameters for water source.
15	Lake Navasta Water	7,1	4.3	17.5	76.0	6.3	A neutral moderately aerated water. A moderately soft fresh water.
28	Lake Victoria Water at Ounga Ksumu	7.0	7.0	22.0	38.0	1.0	A neutral well aerated water. The water is both soft and fresh.
33	Lake Victoria at Homa Bay	7.0	6.9	30.0	50.0	1120	exploited for many uses.
38	Lake Bogoria Water	11.3	1.0	31.0	Ю	3981.0	A very alkaline poorly aerated water. The water is saline, but exhibits no hardness. Cannot be exploited as a raw water source.
39	Lake Baringo	8.6	6.0	27.5	42.0	18.0	Alkaline well aerated water. The water is both soft and fresh and has thus unlimited potential for various uses.
4,4	Water Mombisa Ukoni Beach Water	7.0	6.7	32.0	825.0	8913.0	A neutral well aerated, hard and saline water. Unsuitable for many uses unless treated.
47	Kenyatta Beach Water	7.2	7.5	32.0	7250.0	8913.0	A neutral well aerated water. However the water is too hard and too saline to be of any practical use hits raw state.
50	Diani Beach Water	7.0	63	33.0	9750.0	8913.0	A neutral well aerated water. However the water is too hard and saline for demestic use.
53	Shimoni Sea Water	7.0	5.8	33.0	7000.0	8913.0	A neutral well aerated saline and hard water. May be suitable for recreation and navigation.
58	Malindi Beach Water	7.0	6.8	32.0	6750.0	8913.0	A neutral sell aerated, saine and hard water unsuitable for domestic purposes.
59	Sabaki River Water Malindi	7.0	8.4	27.0	19	19	A neutral well aerated, soft and fresh water with good physico-chemical characteristics.
64	Lamu -Beach Water	8.2	60	31.0	11250.0	8913.0	A slightly alkaline well aerated but saline and very hard water unsuitable for domestic purposes.
6	Tana River at Garsen		-	-			No sample.
6	Tana River At Garissa	7.8	52	26.0	NO	3.2	A slightly alkaline, well aeraled soft fresh water with good physico-chemical characteristics.
6	Athi River at Kallembwa	7.0	6.9	21.0	ND	32	physico-chemical characteristics.
. 7	Tsavo River at Maina Springs	7.0	91	26.0	164.0	3.2	A neutral well aerated moderately hard fresh water with good physico-chemical characteristics.
	1	1	1	1 .	_1	L	<u> </u>

Table A. 40 Surface Water - Organic Poliution

Sample	Source and Kind of	SS	BOO	000	TN	Ţ₽	Remarks
No.	Water	mg/l	mg/l	mg/l	mg/l	mg/l	
9	Lake Nakuru Water	54.0	20.0	48.0	4.3	1.4	Suspended matter present. There is evidence of slight organic pollution.
14	Ena River-Embu	269.0	32	NO.	6.0	100	A lot of suspended matter present. Apart from the presence of the nutrients, Nitrogen and phosphorous compounds there is no evidence or organic poliution.
15	Lake Naivasha Water	52.0	1:0	112.0	4.3	0.7	Some suspended matter present However there is no evidence of any gross organic pollution.
28	Laké Victoria Water at Dunga - Ksumu	8.0	1.7	20.0	6.0	1.0	There is no evidence of any gross organic pollution at this point of the take.
33	Lake Victoria at Homa Bay	1,114.0	30.0	76.0	9.0	3.2	Excessive suspended matter present. There is evidence of slight organic contamination at this point of the lake.
38	Leke Bogoria Water	4,511.0	87.0	1,408.0	81	10.9	This take water is rich in both nitrogen and phosphorous, necessary ingredients for eutrophication. Suspended matter is excessive, mainly blue green aig as.
39	Laké Baringo Water	615.0	NIL	65.0	5.0	3.0	A very turbid water with high amounts of suspended matter. (siit) There is however slight organic contamination.
44	Mombasa Likoni Beach Water	1,380.0	22	108.0	3.8	1.0	Excessive amounts of suspended solids present. However there is only slight contamination with organic matter.
47	Kenyatta Beach Water	657.0	3.4	204.0	4.3	0.2	High amounts of suspended solids present. However there is only slight organic pollution.
50	Ofani Beach Water	728.0	1.8	156.0	3.8	13	Excessive loads of suspended matter present. Noevidence of any gross organic contamination.
53	Shimoni Sea Water	-	-	832.0	9.5	0.3	There is evidence of moderate organic pollution.
58	Malindi Beach Water	601.0	22	428.0	4.4	0.4	Excessive arrounts of suspended matter present. There is evidence of moderate organic pollution. Sample not enough for SS and BOO.
59	Sabaki River Water Malindi	1,182.0	21.9	128.0	3.8	0.4	There is evidence of slight contamination with organic matter.
64	Lamu -Beach Water	113.0	NIL	248.0	4.8	0.8	High amounts of suspended solids present. There is evidence of slight confamination with organic matter.
65	Tana River at Garsen	-	-		-	-	No samples. Previous results indicate satisfactory chemical quality and organic pollution.
68	Tanà River At Garissa	1,040.0	7.5	- ND	4.8	0.7	Excessive load of suspended matter (sitt) present. There is however no evidence of gross organic pollution.
69	Athi River at Kallembwa	1,013.0	5.0	NĐ	4.8	08	Excessive quantities of suspended matter (silt) present. However there is no evidence of any gross organic pollution.
70	Tsavo River at Mzima Springs	205.0	5.0	. NO	4.8	05	Moderate amount of susponded matter present. However there is evidence of any organic pollution.

Table A. 41 Surface Water - Bacteriological Quality

Sample No.	Source and Kind of Water	Colif orm Count	E Col	Remarks			
9	Lake Nakuru Waler	NIC	NAL	There is no evidence of the presence of both faecal and general coliform organisms.			
14	Ena River-Embu	Over 300	Present	There is evidence of faecal and non-faecal pollution.			
15	Lake Naivasha Water	4	Present	There is evidence of gross contamination of the lake water with coliform organisms.			
28	Lake Victoria Water at Dunga Ksumu	Over 300	NIL	There is evidence of gross contamination of the lake water with colliform organisms.			
33	Lake Victoria lat Homa Bay	Over 300	Present	There is evidence of gross contamination of the lake water with both faccal and non-faccal colliform organisms.			
38	Lake Bogoda Water	NIL	NIL	There is no evidence of faecal and non-faecal coliforms contamination of this water.			
39	Lake Baringo Water	NIL	NIL	There is no evidence of faecal and non-faecal coliforms contaminations of this water.			
44		NIL	Present	There is evidence of faecal coliform contamination of this water.			
47		2	Present	The water is contaminated with both general and faecal coliform organisms.			
50	Water Diani Beach Water	NIL	NL	There is no evidence of any faecal and non-faecal colliform contamination of this water.			
53	Shimoni Sea Water	78	Present	There is evidence of both faecal and non-faecal coliform contamination of the water.			
58	Masindi Beach Water	NIL	NL	There is no evidence of any faecal and non-faecal coliform contamination of the water.			
55		10 x 10 ²	NA	The water is contaminated with general coliform organisms.			
64	-Malindi Lamu -Beach Water	Over 300	NIL	The water is contaminated with general coliform organisms.			
6	Tana River at Garson			Not sampled.			
6	8 Tana River A t	40 x 10 ²	. NR	Grossly contaminated with general coliform organisms.			
6	Garissa 9 Athi River at	1 x 10 ²	Presen	t Grossly contaminated with both faecal and non-faecal collforms.			
.7	Kailembwa 0 Tsavo River at Marta Springs	80 X 10 ²	NA	NIL Grossly contaminated with general conform organisms.			

Table A. 42 Analytical Results of Sewage Samples

Sample No.	Source and Kind of Water	क्र	mg/i	.С једо	SS mg/l	BOD-20 rc may 1	rg/l	T·H mg/ I CaCO,	CI mg/I	Coon Bacili (i) Coliform count/ 100ml	T-P mg/l	T-N mg/l
										(ii)E. Col		
5	Narooi Hotel	9.3	15.6	26.0	N.C	170.0	400.0	NO	159.0	i) Over 300	8.4	12.5
4	Nairobi Local People' s House	7.0	1.0	22.0	114.0	130.0	128.0	77.0	56.2	(ii) Present (i) Over 300 (iii) Present	5.9	10.9
6	Naturu Hotel	6.8	23	26.4	36 9	130.0	1024.0	19.0	199.0	(i) Over 300	32.9	29.0
8	Nakuru Local People's House	7.3		22.0	100.0		800.0	39.0	112.0	(i) Over 300 (ii) Présent	29.0	34.0
11	Entiu Hotel	7.0	2.0	22.0	9.0	95.0	356.0	22.0	3.0	(i) Over 300 (ii) Present	0.7	31.0
13	Entru Local People's House	PIT LAT	RINĖ - NO	SAMPLE	TAKEN		•	•		May 1 teason	• !	
17a	Aberdar e Country Club	7.0	0.7	20.0	111.0	305.0	960.0	110.0	1122.0	(i) Over300x10 ² (ii) Present	41.0	
176 19	The Ark Mt. Kenya Lodge	7.1 PERMIS	2.4 SION TO S	22.0 Sample i			584.0	1800.0	70.8		2.6	38.1
21	Kericho Town	7.0	6.4	20 0	167.0	68.0	224.0	30.0	45.0	(i) Over 300	15.2	680
23	Kencho Local People	6.8	less than	18.5	956.0	123.0	380.0	240.0	36.0	(ii) Present (i) Over 3000	12.0	. 81
25	s House Kisumu Sunset Hotel	7.8	10 2.2	25.0	571.0	CP	736.0	100.0	141.0	(ii) Present (i)154 0 x10² (ii) Present	32.1	90.0
27	Ksumu Local People' s House	7.0	5.1	25.0	461.0	98.0	188.0	2.0	40.0	(ii) Nit. (ii) Present	26.0	35.0
30	Kisii Hotel	7.2	3.8	23.0	69.0	39.0	80.0	2.0	2.0	(i)Over 30,000	1.7	14.5
32	Kisii Local People's House	7.0	1	19.0	1180.0	600.0	656.0	140.0	22.4	(i) Over300 x102 (ii) Present	- 14,3	57.2
35	Kakamega Lodge	7.2	32	26.0	942.0	165.0	376.0	48.0	5.0	(i)3000 x 10² (ii)Present	19.0	42.0
37	Mt. Eigon Lódge	7.0	6.3	18.5	248.0	80.8	40.0	54. 0	1.0	(i)3000 x 10 ² (ii)Present	2.0	7.1
41	Montasa Spiendid Hotel	6.4	0.6	32.0	900.0	40.8	184.0	220.0	100.0	(i)Over 300	120	16.0
43	Mombasa Local Pecole's House	6.3	0.9	31.0	652.0	90.5	216.0	218.0	200.0	(i)Over 300	18.0	4.3
46	Kenyatta Beach Hotel	6.5	3.3	29.0	349.0	62.4	288.0	240.0	8913.0	(i)Over 300 (ii) Present	15,8	29.0
49	Diani Sea Lodge	6.7	3.7	30.0	626.0	262.4	336.0	430.0	112.0	(i)Over 300 (ii) Present	182	32.1
52	Shimoni Lodge	6.5	15	32.0	649.0	50.4	192.0	NO	13.0	(i)Over 300 (ii) Present	10.0	7.1
55	Matindi Holet	6.5		34.0					501.0	(i)Over 300 (ii) Present	14.0	
57	Maindi Local People' s House	6.5	1.7	32.0	605.0				631.0	(i)Over 300 (ii) Present	1.0	21.8
61	Lamu -Palace Hotel	7.9	l	31.0	1191.0	350.0	592.0	ND	141.0	(i)Over 300 (ii) Present	0.9	75.0
63	Lanu local People's House	PIT LAT	RINE - N	Ó SMAPLI	E TAKEN		•	•	•	113	•	•
67	Snimba Hills Lodge	6.8	3.5	20.0	1405.0	1000.0	656.0	NO NO	16.0	(ii) Over 300 (iii) Present	2.7	78.3

ANNEX 4 ANALYSIS OF EXISTING TOURISM POLICIES AND INSTITUTIONS

	s,c		

1. National and Tourism Development Planning, Policies and Programmes

1.1. Development Planning at National Level

Since independence in 1963, Kenya's socio-economic development has been guided by Seven National Development Plans (NDP) outling principal development objectives, policies and programmes and covering traditionally a planning horizon of five years. The current NDP, however, was reduced to cover three years that is from 1994 to 1996. Besides the current NDP, the "Sessional Paper No. 1, 1986 on "Economic Management for Renewed Growth" outlines Kenya's principal long-term development objectives up to the year 2000.

Kenya's long-term development objectives up to the year 2010 as identified in the Sessional Paper are as follows:

- Renewal of economic growth. A real average annual GDP growth rate of 5.6% has been targeted over the period 1986 to 2000,
- Acceleration of employment creation, especially from the private sector,
- Increase of productivity in all parts of the economy,
- Provision of basic needs for all of Kenya, including food, shelter, clothing, water, education and health,
- Achievement of food security,
- Improvement of the rural-urban balance with a view to ensure that the benefits of economic growth are spread widely throughout Kenya, and
- Achievement of a gradual structural change of Kenya's economy from an agrarian into an urban based industrial economy.

The development goals in the seventh NDP are as follows:

- Renewal of economic growth with a greater level of self-reliance. However, the average annual real GDP growth rate for the planning period 1994 to 1996 has been targeted at 4.4%,
- Improvement of basic human needs including the health, income and living conditions of all Kenyans, and
- Guarantee of sustainable development.

1.2. Tourism Sector Development Planning and Its Role in National Economic Development

1.2.1. Tourism Sector Development Planning

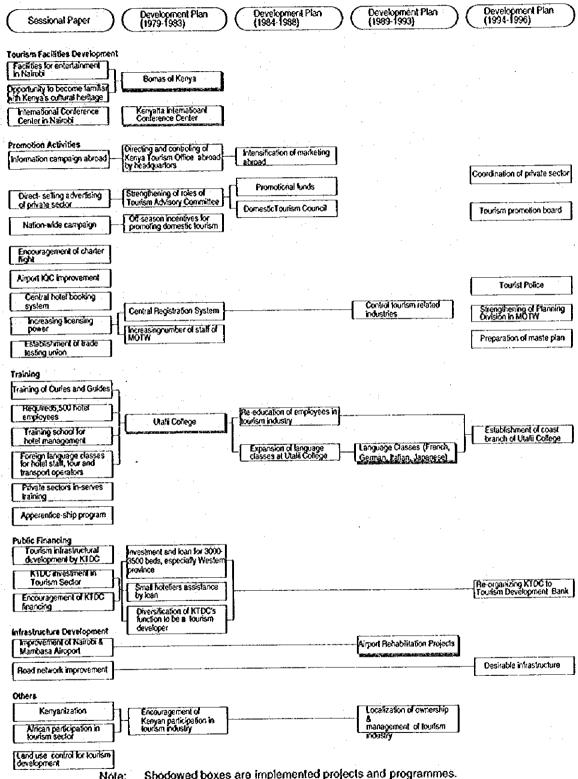
Development targets for Kenya's tourism service sector have been identified and addressed since the 1960s. A overview of the tourism development policies, programmes and projects over the period 1969 to 1996 is provided in Table A. 43 and Figure A. 5.

Table A. 43 Tourism Development Policies, Programmes and Projects 1969 to 1996

:	Sessional Paper No.8 of 1969	Development Plan (1979-1983)	Development Plan (1984-1988)	Dèvelopment Plan (1989-1993)	Development Plan (1994-1996)
Target number of tourists	20% yearly Increase	508,000 foreign visitors in 1983 5.5 million bed- nights	6.2 million bed- nights in 1988	1,183,000 foreign tourists in 1993 7.1 million bed- nights in 1993	907,000 foreign tourists in 1996 7.5 million bed- nights in 1996
Target market	Mass tourism Local tourists Conference tourism Long-term and re- tirement tourists	Increase lourists from: - Well established market (North America, UK) - Growing market (Germany, France, Italy, Holland) - New market (Australia, Japan, Middle East, Spain)	Increase tourist traffic during low seasons from existing tourist generating coun- tries Promote in North American market Local market	Less encourage- ment of "package tours" Domestic tourism	Eco-fourism Up-market tourism
Target tourism destination to be utilised	Coast Wildlife areas especially southern part of Kenya (Mt. Kenya, Aberdares, Lake Nakuru) Man-made enter- tainment	Coast Masai Mara, Amboseli, Samburu, Buffalo Springs	No description	No description	Spatial diversification of lourist destinations
Environ- ment	Land use for tourism develop- ment	Consumptive utilisation of wildlife Maximum utilisation of natural resources	Consumptive utilisation of wildlife Environmental conservation	Damages to the parks and reserves Minimise negative impacts of tourism to environment	"Environmental consciousness has created a new and growing tourism market" Utilisation of environmental and cultural resources
				1 1	by local communi- ties' participation

Source: JICA Study Team based on various sessional papers and development plans

Summary of Proposed Programmes and Projects in the Past Figure A. 5 **Development Plans**



Shodowed boxes are implemented projects and programmes. Note: Source: JICA Study Team based on sessional papers and development plans In summary, it may be stated that Kenya's general tourism development strategy over the past 30 years has been to gradually and considerably to increase the number of tourists with a strong focus on both, the mass tourism market segment and the coastal area (sun & beach holiday). However, though increasing the absolute number of tourists has remained a core element since the 1969 NDP until the current NDP, a shift in the developing focus can be observed. Since the 6th NDP (1989 to 1993), concerted development efforts have been geared more towards reducing the predominance in the spatial diversification of tourist destinations and reducing the negative impacts of tourism on the environment.

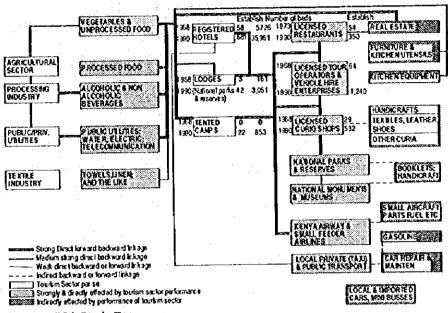
1.2.2. The Role of the Tourism Sector in the National Economic Development

Generally speaking, the tourism sector plays an important role in Kenya's national economic development, because:

- It has backward and forward linkages to the agricultural, food processing, beverage, transportation and tour operating sectors,
- It plays an important role as a generating source of foreign exchange earnings,
- It has potential for direct and indirect employment generation, and
- It has potential for improving the country's rural-urban balance.

The tourism sector, which is not separately identified as a whole in the national accounts, comprises facilities, hotels, restaurants, transport operators and retail shops, the economic activities of which are geared primarily to cater for the needs of domestic and foreign tourists. Figure A. 6 gives a heuristic overview of the tourism service sector and identifies in qualitative terms backward and forward linkage effects by type of economic sector and intensity of linkage.

Figure A. 6 Heuristic Flow Chart of the Structure of and Prevailing Linkages in the Tourism Service Sector



The magnitude of some of the major linkages in terms of physical units is illustrated in Table A. 44. These data are based on an interview with a manager of one of Nairobi's five star hotels with a total capacity of 329 rooms (about 400 beds). The consumption data are based on the hotel's average over the last 25 years and an average occupancy ratio of 65% of total capacity, translating into some 84,000 guests per year and on average.

According to these source data, 1,000 tourists/guests representing this type of tourism market segment would generate a demand for:

- Some 4,200 kg of all sorts of vegetables,
- Some 1,580 kg of fruits,
- Some 430 kg of poultry,
- Some 1,510 kg of beef and other meat,
- Some 100 kg of fish,
- About 50 liter of milk, 2,570 eggs and 230 kg of sugar,
- About 2,570 bottles of non-alcoholic beverages,
- About 1,770 bottles and 14,430 glasses of beer, and
- Some 50 bottles of Whisky, Vodka and/or Gin.

Table A. 44 Physical Linkage Effects between the Tourism and Other Sectors

UNKAGE EFFECT	AVERAGE MONTHLY	AVERAGE YEARLY	AVERAGE	AVERAGE DEMAND IMPACT PER
	CONSUMPTION	CONSUMPTION	CONSUMPTION PER	1,000 GUESTS BY MAJOR
			GUEST AND STAY	SUBSECTOR
BACKWARD LINKAGE TO	THE			
AGRICULTURE SECTOR A) VEGETABLES	T			
Cathoge	1,500 kg	18.00 tons	021 kg	T
Red Cabbage	150 kg	1.80 tons	002 kg	•
Canots	1,600 kg	1920 lons	0.23 kg	1
Potatoes	10,000 kg	120.00 tons	1.43 kg	
Spinadh	4,500 kg	54.00 lons	064 kg	
Tomatoes	3,600 kg	43.20 tons	051 kg	
Broccoli	300 kg	3.60 tons	0.04 kg	
Egoplant	\$50 kg	1.80 tons	0.02 kg	
French beans Snow peas	360 kg	4.32 tons	0.05 kg	-
Srow peas Cavidower	450 kg 500 kg	5.40 tons	0.06 kg	
Cucumber	300 kg	6.00 tons 3.60 tons	0.07 kg 0.04 kg	ł
Onions	500 kg	6.00 tons	0.07 kg	1
Mushrooms	360 kg	3.60 tons	0.05 kg	
Chables	300 kg	6.00 tons	0.04 kg	
Fresh Maize	3,000 kg	4.32 tons	0.14 kg	
Green Pepper	600 kg	3.60 tons	0.09 kg	
Ginger (fresh)	60 kg	36,000 tons	0:01 kg	ł
Avocados	700 pcs	7.20 tons	0.01 kg	
Lettuce	1,400 pcs	0.72 tons	0.01 kg	ł
Parsiey Sukuma	900 punets	8,400.00 ocs	0.01 kg	
teck	3,000 kg	16,800 pcs	0.43 kg	A) VEGETABLES
B) FRUITS	150 kg	10,800 punels	0 (2 kg	4,200 k
Lemons	305 kg	3.60 tons	004 kg	
Mangoes	360 kg	4.32 lons	006 kg	
Sweet Bananas	900 dozen	10,800 dozen	0.39 kg	!
Grapes	150 kg	1.80 tons	0.02 kg	Ì
Sweet melon	500 kg	6:00 tons	0.07 kg	
Water-melon	500 kg	6.00 lons	0:07 kg	İ
Pincapples	2,400 kg	28.80 tons	0.34 kg	
Passion fruits	900 dozen	10,800 dozen	0.26 kg	<u> </u>
Strawberries	300 punels	3,600 punets	0.01 kg	
Oranges Tangerines	1,500 kg 450 kg	18,00 tons	021 kg	o rochto
Apples	400 kg	5.40 tons 4.80 tons	0.06 kg 0.06 kg	8)FAUITS
C) POULTRY	<u> </u>		V-50-3	1,000 0
Capons	2,500 kg	30.00 tons	0.36 kg	POULTRY
Spring chicken	500 kg	6.00 pcs	0.07 kg	430 k
D) SEEF & OTHER MEAT				
Sirion Steak	750 kg	9.00 lons	011 kg	1
Beef fillets	1,400 kg	16.80 tons	0.20 kg	
Staffed Meat	2,790 kg	33.48 tons	0.40 kg	
Beet leg	1,600 kg	19:20 tons	0.23 kg	i
Lamb legs Lamb shoulder	800 kg	7.20 tons	0.09 kg	
Lamb saddle	300 kg	3.60 tors	0.04 kg	
Whole tamb	600 kg 750 kg	7.20 tons 9.00 tons	0.09 kg 0.11 kg	
Year kin	300 kg	3 60 tons	0.04 kg	
Ostrich	300 kg	3.60 tons	0.04 kg	.
Impala	300 kg	3 60 tons	0.04 kg	I .
Ham	240 kg	2.58 tons	005 kg	D) BEEF & OTHER MEAT
Porkkin	600 kg	7.20 tons	009 kg	1,510 k
E) FISH				
Whole Tilapia	300 kg	3.60 lons	004kg	
Seafish	300 kg	3 60 tons	0.04 kg	E) FISH
Tuna fishnet	150 kg	1.80 for s	002 kg	100 k
F) OTHER MAJOR ITEMS				F) OTHER MAJOR ITEMS
Mik	360 tr	4,320 ltr	0.05 ftr	50 1
Eggs Sugar	1,500 dozan	18,000 dozen	2.57 dozen	2,570 pc
BACKWARD UNKAGE YO	1,500 kg	1920 tons	023 kg	230 kg
BEYERAGE INDUSTRY GWON-ALCOHOLIC BEVE	RAGES		***************************************	GINON ALCOHOLIC BEVERAGE
Assorted Sodas	18,000 Bottles	216,000 Bottles	2.57 Bolties	2,570 Bottle
H) ALCOHOLIC BEVERAG				H) ALCOHOLIC BEVERAGES
Assorted beers	12,400 Bottles	(48,000 Sottles	1.77 Bottles	1,770 bottle
Seer (draft)	101,000 Glasses	12,000 Glasses	14.43 Glasses	14,450 Gtasses
Whisky (important)	96 Bottles	1,152 Bottles	0.01 Bottles	10 Sottle
Vodka	150 Bottles	1,800 Bottles	0.02 Bottles	20 Sotties
Gin	120 Bottles	1,400 Bottles	0.02 Bottles	20 Sottles

Source: Republic of Kenya, Economic Survey - Various Issues'.

2. Growth Performance of the Economy and Position of the Tourism Sector

2.1. Growth Performance and Relative Position of the Tourism Sector

The absolute size of Kenya's Gross Domestic Product (GDP) in constant 1982 prices has grown from K£ 3,077.7 million in 1982 to some K£ 4,337.6 million in 1993 (Table A. 45). This growth process implies a compound real GDP growth rate of some 3.19 % per year and over the given time frame. Intercensal population growth over the period 1979 to 1989 has been estimated at 3.7 % per year, which would translate into a negative compound real GDP/per capita growth rate of some - 0.51 % per year and over the period 1982 to 1993.

Table A. 45 Past Growth Performance of Real Gross Domestic Product (GDP) by Major Subsectors and over the Period 1982 to 1993

												(UNIT;	(E MILLBON)
YEAR	1382	1983	1364	1995	1986	1987	1988	1989	1990	1391	1392	1993	AVERAGE
SECTOR													1982 to 1993
VINON YRATEMON HON J	164.6	170.4	186.7	2024	201.7	208.8	214.9	223.4	2295	234.5	237.4	239.5	209 1
B MONETARY ECONOMY													
Agriculture	964.1	979.1	941.1	9/56	1,023.4	1,062.6	1,109.3	1,1525	1,1920	1,178.9	1,134.8	1,088.3	1,0668
Forestre	32.8	23.7	26.4	260	29.4	33.7	38.1	406	42.7	462	48.2	47.5	36-5
Fishing	8.3	8.9	85	9.4	98	109	123	128	13.4	13.1	122	11.3	109
PRIMARY SECTOR	1,005.2	1,011.7	9.60	1,0130	1,0624	1,107.2	1,1597	1,206 9	1,248.1	12382	1,195.2	1,1472	1,114.2
Mining & Quarrying	6.8	6.7	7.4	81	84	91	102	106	113	120	119	112	94
Manufactoring	372.3	389.1	425.8	424.1	448.7	474.3	502 8	5325	560.3	581.6	588 \$	5092	4299
Building & Construction	135.8	1145	104.5	1081	1121	116.7	121.7	1293	135.1	1362	127.2	1140	120.9
Electricity & Water	23.7	251	268	290	31.2	33.6	36.5	39.5	43.7	46.0	45.1	45.5	36
NOUSTRY SECTOR	538.4	535 4	544.5	569 3	600.4	633 7	6712	7109	7504	7778	766 9	7699	6 55.7
Trade, Pestaurants & Hole's	306.7	3153	3326	355.2	3900	4125	436.3	455.5	466.0	472 1	478.9	4796	408.4
Transport Storage Communication	195 9	2015	2023	206.5	215.4	2249	234.0	241.1	249.7	259 1	263.5	257	2300
Finance Insurance Real Estate	209.7	2260	2225	244 5	2610	274.5	291.3	313.1	333 2	363 5	377.9	436.3	292.8
Ownership Dwellings	187.8	187.9	184.6	130 4	1965	2058	2122	2205	229.4	235.3	2390	239,5	210.7
Other Services	825	863	94.2	991	104.1	111.7	119.7	127.9	135.9	141.1	144.5	145.7	116.1
Domesic Services	32.8	34 9	37.2	39.8	44.0	49.7	55.3	624	705	783	85.3	99.1	569
Government Services	441.4	450.9	4731	497.3	528.7	564.1	586.2	6184	645.7	6691	5264	699.1	571.5
SERVICE SECTOR	1,456.8	1,511.8	1,5465	1,632.8	17397	1,8320	1,835.9	2,0090	2,130.4	2,208.5	2,274.8	2,329 0	1,836 3
LESS:	1												-118.9
Imputed Bank Services Changes	-573	104.1	-99.4	103.0	-105.9	-113.4	121.8	-129.1	-134.0	-138 6	-1420 4,094.7	-148.1 4.098.0	3,537
C. TOTAL MONETARY ECONOMY	2,313.1	2,954.8	2,367.6	3,112.1	3,296.6	3,459 5	3644.1	3,826.7	3,934.9 4,224.5	4 085 9		4,337.6	
O TOTAL ECONOMY	3 077 7	31252	3,1533	3,314.5	3,498 3	3,668 3	3,858 9	4,050.1	4,224.5		1,332	7,307 0	1 3,740

Source: Republic of Keya, Economic Surveys-Various Issues'

The total value of output of tourism related economic activities is not identified as a whole in the national accounts. However, tourism sector activities are mainly reflected in the "Trade, Restaurants & Hotels", "Transport, Storage, Communication" and "Building & Construction" chapters of the national accounting system. Secondary and tertiary effects would be reflected in the gross value of output of interlinked economic sectors as shown in the previous Figure A.2. Since available statistical data and breakdowns of data do not allow for compiling and aggregating all primary, secondary and tertiary output values of the tourism sector as a whole, the "Trade, Restaurants &

Hotels" chapter of Kenya's national accounts is being used as a proxy. This approach implies an underestimation of the actual size of Kenya's tourism sector.

The absolute size of the tourism sector in 1982 constant prices grew from some K£ 306.7 million in 1982 to about K£ 479.6 million in 1993, implying a compound real growth rate of 4.18 % per year over the reference period (Table A. 46). This growth performance was 0.99 % above the real GDP growth trend. The share of the tourism sector in GDP grew steadily from 9.97 % in 1982 to a maximum of 11.31 % in 1988 and has since slightly fluctuated. Over the whole period 1982 to 1993, the tourism sector's share in GDP averaged 10.9 % (Table A.46 refers).

Table A. 46 Performance Data of the Tourism Sector 1982 - 1993

Parameter	Unit	1982	1993	Ave. 1982-93
GDP	K£ million	3077.7	4337.6	3746.7
Trade, Rest. Average	KÉ million	306.7	479.6	408.4
share GDP	Percent	9.97	11.06	10.9
Growth rate GDP	Percent	na	na	3.19
Growth rate tourism	Percent	na	na	4.18

Source: JICA team computations, n.a. = not applicable,

The share of the tourism sector in the real GDP, averaged over the period 1982 to 1993, ranked fourth with 10.9 % after agriculture (28.5 %), government services (15.3 %) and manufacturing (13.1 %). However, the absolute annual real growth performance has been quite strong (Table A. 47).

Table A. 47 Absolute Growth Performance of the Tourism Sector 1982 to 1993

_											(UNIT	:%)
Parameter	1982	' 83		85	~~	87	' 88	89	90	'91	92	'93
GDP	8Y	1.54	0.9	5.11	5.55	4.86	5.2	4.95	4.31	2.27	0.27	0.13
Service Sect.	BY	3.78	2.3	5.58	6.55					3.67	2.99	2.39
Tourism	BY	2.8	5.49	6.79	9.8	5.77	5,77	4.4	2.31	131	1.44	0.15

Note: (*) Numbers for 1993 are provisional. (1) BY = Base year. (2) Real growth rates based on 1982 constant prices.

Over the period 1984 to 1989, tourism sector growth has outperformed both, the service sector and GDP growth. However, from 1989 onwards the growth performance of the tourism sector has followed the general downward growth trend of the economy.

A sensitivity analysis investigating the impact of the real subsector on GDP growth, which employs weighted average real growth rates over the reference period 1982 to 1993, reveals that under the given factor endowment, tourism sector growth has accounted for 0.14 % points in 1.0 % real GDP growth. This would imply that:

- About 6.99 % real growth of the tourism sector generates about 1.0 % real GDP growth, and
- An increase or decrease of 1.0 % real growth in the tourism sector would result in an increase/decrease of 0.14 % real GDP growth.

Compared to other GDP subsectors, the tourism sector ranks the fourth position within Kenya's national economy in terms of real GDP growth generating power (Table Λ . 48).

Table A. 48 Subsector Growth Needed to Generate 1.0 % Real GDP Growth

	(Unit; %)
GDP Subsector	Subsector Growth Needed
Government Services	4.89
Manufacturing	5.5
Finance, Insurance, Real Estate	6.55
Tourism	6.99

Source: JICA Study Team computations.

In other words, the real growth performance of Kenya's GDP is highly sensitive to the growth performance of the above mentioned four GDP subsectors. In comparison, the agricultural sector, although accounting for a fairly large share in GDP, would have to grow at about 9.59 % in real terms (1982 constant prices) in order to generate a 1.0 % real GDP growth impact.

2.2. The Tourism Sector and Foreign Exchange Earnings

Total foreign exchange receipts over the period 1979 to 1992 have increased from US\$174.3 million in 1979 to an estimated US\$422 million in 1993 (Table A. 50). The highest foreign exchange receipts were recorded in 1990 with a total of US\$465.0 million. Average total foreign exchange receipts per person classified as holiday/business visitors have fluctuated widely over the same period. The highest per person value was recorded with US\$714/person in 1980 and the lowest value with US\$474 in 1984. On average and over the whole reference period US\$590/person were reviewed in Kenya's domestic market.

The following past long term trends can be identified:

- Under the approximation equation that "total foreign exchange receipts" are equal to "total aggregated direct tourism sector income", the above would translate into an increase of direct and nominal private sector income from K£ 65.1 million in 1979 to about K£ 1,222.4 million in 1993,
- The average nominal income per tourist/day has increased from some KSh 241.7 in 1979 to a provisional KSh 2,711.2 in 1993, and
- The absolute number of tourist arrivals has increased considerably over the period 1979 to 1993. However, the average length of stay and the average expenditure per person/day measured in US dollars has decreased over the reference period.

Selected growth indicators would generate the following trends (Table A. 49):

Table A. 49 Growth Performance of Selected Trend Indicators

(Unit; %) Parameter Compound Growth Rate 1979 to 1993 1982 to 1993 Total arrivals 4.91 4.92 Total tourist arrivals 6.68 6.12 Average length of stay -2.**0**5 -1.93 **US \$ Receipts** 6.2 3.97 Ave. US \$ receipt pers. -0.19 -2.09 Real total K£ revenues Real average K£ 9.85 expenditure per day 5.73 3.67

Source: Based on Table A. 50 JICA Study Team computations

- Total tourist arrivals in the country have grown by a compound annual growth rate of 6.42 % over the period 1982 to 1993 or 6.68 % over the reference period 1979 to 1993,
- The average length of stay in the country has declined by a compound annual growth rate of -1.93 % over the period 1982 to 1993,
- While the absolute size of foreign exchange receipts derived from tourism has increased by a compound annual growth rate of 3.97 %, average foreign exchange receipts per person have declined by an annual compound growth rate of -2.09 % over the reference period 1982 to 1993, and
- Notwithstanding the above trends, total revenues measured in K£ as well as average K£ expenditures per day measured in constant 1982 prices have grown by an annual compound growth rate of 7.00 % and 3.67 % over the period 1982 to 1993, respectively.

Table A. 50 Total Foreign Exchange Receipts, Total and Average Expenditures 1979 to 1993

9		oto		190	á	à	18	990	3000	1841	1988	1980	98	199	1,000	1001	AVERACE PERIOD
			ı	į.													1979 to 1963
CATHEODER	3		1					244.00	VAC 119	177	ABA OWN	274.660	814.400	804,800	781,500	826,250	A17,71A
A TOTAL APPRIALS	Number of people	8	2383	\$ A	a a	Į.	m tie		M 7 LB	8		!					
B) HOLDAYAUSINESS	Number of prepts	330,510	30.00	32,940	341,950	333,566	442,700	477.500	52,53	546,800	006'919	088,840	760,330	720,000	200	277.400	210'00%
C) AVERAGE SWAPE (BA)	Persex	2	77.5	æ	24.9	ě	3.86	3		280	2	3	ž	8	- S	Ī	280
D) AYERAGE LENGTH OF STAY	ž.	6.9	17.0	18.8	16.0	15.9	15.6	17.3	0,77	17.0	14.2	72	편	1.53	13.3	=	14.5
E) DARECT POPEICIN											:					:	
EXCHANCE RECEIPT.	SSD THE		92	24.2	£	*	210	3	30	95	ğ	8	*	Ą	3	Ç	9000
A) ANCHAGE EXCHANGE PATE	5	04.2	עי	29.0	10.02	25	977	15.80	3	15.47	£,7;	20.56	22.63	27.50	22.25	67.63	4
G) DRECT PEVENUES	ä	65,101,050	88,483,500	022,518,0	127,978,450	130,016,900	151,724,900	196,580,000	248,013,000	742.104.000	349,213,150	000 901 229	633,010,000	564,101,550	712,980,706	322,400,000	349,004.183
PERFORMANCE INDICATORS																	
M) AVERAGE TOTAL POPEICH																	
POREION EXCHANGE																	
RECEIPTIPERSON	USSPINON	Č.	ř	259	3	3	474	155	995	3	83	ş	\$	5.3	23	ĝį .	\$
A AVERAGE POPEICH									_				•				
EXCHANGE EXPENDITIVE														.,			
PER DAY	USSPerandey	32.36	3	\$	7	8	8	8	8	\$9.	8	Ċ.	*	*	1	4	9
J) AVERAGE HOMINAL																	
DOMESTIC EXPENDITURE																	
FIREE DAY	KSVOev	241.7	308.9	356.9	449.4	440.5	439.4	478.2	\$37.8	223	0.009	4702	1,057.8	1,307.7	1,497,4	27/72	603
K) REAL YOTAL						:			-				• •				
DARCT REVENUES	5	#1,609,278	107,122,881	425,458,00	122,928,656	117,566,068	123,453,946	147,235,840	355,053,981	186,680,520	207 836 339	20,000,00	268,564,516	266,030,741	278,278,464	307,673,142	485 195 291
ANG BASE BEST END DAY	, de	100	į	į				9.75	725	7.45	2	100	1.003	3	1.032	6000	C 374

Note: *) Deflated by using the 1982 trade weighted exchange rate index deflator Source: JICA Study Team computations.

2.3. Past Employment Generation

Private tourism sector enterprises absorbed some 94.2 % of the direct wage labor force with the remainder of 5.8 % being employed in public sector tourism enterprises (Table A. 51 refers).

In terms of general past trends over the period 1984 to 1993, the following may be observed:

- Over the ten years of the reference period a total of 355,500 new modern sector wage employment jobs were created (this is statistically recorded), which is equivalent to a compound growth rate of 3.12 % over the period per year,
- Over the same time frame a total of 36,300 new wage employment jobs were created in the tourism sector. This is equivalent to a compound growth rate of 4.05 % per year. Hence, employment reaction in the tourism sector was 0.93 % per year above the trend in job creation within the modern wage employment sector as a whole, and
- The above indicates that in the past, out of every ten new jobs created in the modern wage sector, one was created in the tourism sector (8.8: 1.0 ratio).

Another way of looking at the potential for new and additional employment creation generated by the labor intensive tourism sector is the correlation between output and labor force growth. The compound growth rate of the gross value of output in the tourism sector over the period 1982 to 1993 has been 4.18 % and that of employment 4.05 %. Under given factor endowment conditions, the above implies that 1.03 % real output growth are roughly equivalent with 1.0 % increase of employment in the sector. Hence, if the gross value of output in the tourism sector grows at past trends (4.18 %), that is from K£ 479.6 million in 1993 to K£ 499.6 million in 1994 (at constant 1982 prices), an additional number of 5,100 jobs would be underlying that growth performance.

Table A. 51 Past Direct Employment Generated in the Tourism Service Sector

			٠.								(UNT: asi	(cateo)
CATECORY	YEAR	1994	1995	1986	1987	1988	1983	1990	1991	1992	1993	GROWTH RATE 1984-1993
A) TOTAL POPULATION	Paople	19,500,000	20,200,000	21,000,000	21,800,000	22,400,000	23,200,000	24,000,000	24,800,000	25,700,000	26,500,000	
B) MODERN SECTOR EMPLOYMENT	People	5,119,400	1,174,400	1,226,700	1,34,10	1,345,900	1,368,400	1,469,300	1,445,700	1,462,600	1,474,960	3.12
C) WAGE BUPLOYMENT IN						1	•					
TRADE, FESTAURANTS		. *										
AHOTELS	2:.		- 000	6.70	8,200	8,400	8,900	9,300	7,900	7,500	7,000	3.16
(I) PUBLIC SECTOR	People People	5,600 79,200								110,900	114,100	4.15
TOTAL PRIVATE & PUBLIC	Prople	84,890	89,700	94,400	100,500	106,490	110,300	113,900	116,700	118,400	121,100	4.05
PERFÓRMANCE INCICATORS					1	1				+ 1		
D) AVERAGE SHATETOURISM	1				i .					٠.	١	
SECTOR EMPLOYMENT	Percent	7.6	7,5	77	7.9	7.9	6.8	8.1	1 -		8.2	
E) PUBLIC SECTOR SHARE	Fercent	6.5	5 6	6.7	6.1	79	9.1	92	6.9	63	5.8	
F) PRIVATE SECTOR SHARE	Percent	93.4	93.4	93.3	91.9	92.1	91.9	918	932	937	942	
GI GRÓWTH INTOURISM			1					1	ļ .			
SÉCTÓR EMPLOYMENT	Percent	Base Year	5 R	5.20	8.89	5.45	3.67	3.26	2.45	1.46	2 2 6	<u> </u>

Source: JICA Study Team Computation

2.4. Structural Adjustment and Tourism Sector Development

The current Structural Adjustment Program (SAP) covers the period 1994 to 1996. The general goal of the current SAP in terms of economic policy is to liberalise Kenya's economy and giving a broader role to the private sector.

The current SAP covers the whole range of policy reforms and adjustments, from macroeconomic policy, to trade reform, price decontrol, financial sector and agricultural marketing reforms and public enterprise and civil service reforms. The tourism sector itself is not addressed explicitly in the SAP. However, the following issuess are of indirect importance to tourism sector development:

- Issues pertaining to the civil service reform and capacity building affect the Ministry of Tourism and Wildlife (MOTW). Likewise, the need to reduce the government budget deficit may affect ministry's recurrent and development budgets,
- As shown above, the tourism sector is overwhelmingly dominated by private sector enterprises. However, tourism related economic entities currently owned by the government may be privatised under the public enterprise reform program,
- The "National Environment Action Plan", completed in June 1994, may prescribe certain environmental protection measures to be taken into account for further tourism development, and,

 The liberalisation of the foreign exchange market will facilitate the operations of the tourism sector, which depends to some extent on imports.

2.5. Projected Socio-Economic Framework

Kenya's major development planning documents, the Sessional Paper No. 1 of 1986 and the current development plan 1994 to 1996, do not provide any comprehensive long-term GDP and/or GDP subsector growth projections beyond the year 2000. The Long Term Planning Unit of the Ministry of Planning and National Development (MOP&ND) however, has undertaken such projections up to the year 2010. The projections are based on a computerised macro model. These projections, too, are not made for each and every GDP subsector, but concentrate on major GDP subsectors.

In view of this situation, the following approach has been taken to project the future growth performance of Kenya's GDP and GDP subsectors:

- The single most important assumption of the MOP&ND is that the recession of Kenya's economy has reached bottom line and that the performance of her economy will be improving as of 1994. One of the major reasons for this outlook is that the continuing liberalisation of the economy will lead to improved confidence and therefore growth performance of the economy. This base assumption has also been assumed in the following projections,
- The projections of MOP&ND up to the year 2010 are based on estimated annually varying growth rates for the following GDP subsectors: non-monetary economy, agriculture, manufacturing services and government services. The annually varying growth rates for the non-monetary economy, agriculture, manufacturing and government services have been used in the projections up to 2010. For the period 2010 to 2015 a linear trend employing the 2010 growth rate has been assumed,
- For all those GDP subsectors, for which the MOP&ND model does not provide any growth projections, linear trend extrapolation based on past performances over the period 1982 to 1993 has been used,
- All projections are in constant 1982 prices,
- All projections are calculated using a bottom-up approach, that is
 the growth performance of the primary, secondary, tertiary sectors
 as well as the total monetary economy and GDP are resulting from
 individual subsector growth projections, and

For the sake of easy understanding, all used and computed growth rates have been converted into compound growth rates using four time periods, namely 1993 to 2000, 2000 to 2005, 2005 to 2010 and 2010 to 2015.

2.6. Projected GDP and Subsector Growth Performance

It is anticipated that Kenya's GDP over the period 1993 to 2000 will grow at a compound growth rate of 4.63% per year, slightly increasing to a compound growth rate of 5.04% per year over the period 2000 to 2005. From 2005 to 2010, the GDP growth is expected to slow done somewhat to a compound growth rate of 4.88% per year and pick up again to a compound growth rate of 5.16% per year over the years 2010 to 2015 (Table A. 52 refers).

Such growth will depend strongly on the performance of the industry and services sectors. Within the industry sector, the growth performance of manufacturing will be crucial. Within the service sector, the performance of government services; finance, insurance and real estate and trade, restaurants & hotels will likewise be crucial for achieving the projected overall growth path.

The share of the primary sector in GDP is expected to decrease from some 26.45% in 1993 to about 23.53% in 2015. This decrease will be mainly caused by falling relative size of agriculture in GDP (from 25.09% in 1993 to about 22.42% in 2015).

The share of the industry sector is expected to increase from 17.75% in 1993 to some 21.12% in 2015. This increase is expected to result mainly from a strong performance of manufacturing, which is expected to increase its share in GDP from some 13.81% in 1993 to about 18.26% in 2015.

The share of the service sector is also expected to increase from 52.50% in 1993 to about 54.37% in 2015. However, this expansion is unlikely to be carried by an expansion of government services as in the past. The service sector such as "Trade, Restaurants & Hotels" and "Finance, Insurance & Real Estate" will lead that expansion process.

Table A. 52 Projected Macroeconomic Framework Up to the Year 2015 (Based on Constant 1982 Prices)

							•					(UNIT:K	EMPLLION:	PERCENT
	BASE YEA		ABSOLU	JTE SIZE		s	UBSECI	IOR SH	KRES IN	COP	MPLIC	AT COMPO	UND GROV	TH PATE
SECTOR	1993	2000	2005	2010	2015	1993	2000	2005	2010	2015	1393/2000	2000/2005	2005/2010	2010/2015
A. NON MONETARY ECONOMY	2395	320.4	394.6	4605	560.0	552	538	\$18	437	4.51	424	4 26	3.14	4.00
B MONETARY ECONOMY														
Agriculture	1,088.3	1,5398	1,917.0	2,2899	2,786.0	2509	28	2518	23.70	2242	509	€.48	3 62	400
Forestry	47.6	63.≥	77.4	94.7	1160	1.10	106	102	0:38	0 93	413	413	4.13	6.13
Fishing	11.3	14.0	16 3	190	221	0.35	023	021	0.20	0.18	3 10	3.10	3.10	3.10
PRIMARY SECTOR	1,147.2	1,617.0	2010.6	2,403.6	2,924.1	26.45	27.54	2É.41	2488	23 53	503	L4 5	354	4.90
Mining & Overlying	112	158	20 3	260	33.2	0.26	027	027	0.27	0.27	507	507	507	507
Manufacturing	599.2	8.65	1,169.1	1,541.2	2,2698	1381	14.38	1536	16:38	1826	524	6 24	702	620
Building & Construction	114.0	124.7	133.0	1418	151.1	2.63	209	1.75	1,47	122	129	1.29	129	129
Electricity & Water	45.5	8 2	93 3	1259	169 8	125	1.16	, 123	1 30	1 37	617	6.17	6.17	& 17
NOUSTRY SECTOR	769.9	1,066.4	3,415.7	1,934.8	2,624.0	17.75	17.90	18 60	20,02	21.12	4.77	583	6.45	6.29
Trade, Restaurants & Hotels	679.6	636.8	784.0	9621	1,180.7	1106	1073	10:30	936	950	4.18	4 18	4.18	4.18
Transport Storage Communicatio	2657	322.8	371.0	426 3	489 9	613	542	4.87	4.41	394	232	282	232	282
Finance, Insurance, Real Estate	4063	6203	839.1	1,106.1	1,536.6	9.37	10.41	1102	11.75	1236	623	623	6.23	6 23
Ownership, Owesings	2395	2793	3120	343 6	390.7	552	4.70	. 4 11	3 52	3.14	225	225	225	225
Other Sarvices	145.7	2066	271,7	3522	456.7	2,15	352	357	3.65	3.67	5 33	5 33	5.33	5 33
Domestic Services	93.1	1812	291.6	469.5	754.8	2.15	3.04	3.38	4.85	800	9:38	9:18	9:38	9:38
Government Services	639.1	908.8	1,191.1	1,5129	1,949.4	16.12	15.26	15.54	15.66	15.69	3 83	556	4.90	520
SERVICE SECTOR	2,3293	3,1613	4,061.2	5,207.4	6,757.9	5250	53.08	53 34	5390	\$4.37	1,46	514	510	5 35
uess;											[·			
Imputed Bank Service Charges	-148 t	-2092	-2678	-342.8	-438.7	-3.41	-351	352	\$55	3 53	506	506	5:06	506
C TOTAL MONETARY ECONOM	4,098.0	5,635.4	7,219.7	9,2031	11,867.3	94.48	94.52	94.82	95 23	95.49	4.56	508	4 57	522
O TOTAL ECONOMY	4,337.6	5,9658	7,614.3	9,663.6	12,427.6	10000	10000	10000	10000	100:00	4.63	5.04	4.83	516

Source:

The tourism sector approximated by the "Trade, Restaurants & Hotels" sector in the national accounts is expected to perform at past trends, equivalent to a compound growth rate of 4.18% over the whole time frame 1993 to 2015. Under such a growth scenario for this and all other GDP subsectors, the share of tourism in GDP would gradually decline from some 11.06% in 1993 to about 9.50% in 2015.

3. Tourism Development Set-up

3.1. General

The interrelationship between various structural elements of tourism in Kenya is summarised in Figure A. 7. The tourism sector is supported by both, the public and private sectors.

Assistance in Implementation Government & **Parastatals** Taxes/Levies Development Support, Advice & Cooperation Supervision Joint Tourism Promotion, Info. Consultant Commitee Training & Support System & Protection Tourist Facilitities. Services Promotion **Associations Tourists** Payment · Travel Trade Economic Benefit Regional Development Employment Conservation & Satisfaction Travel Development Local Governments **Tourism Objectives** Development: Tourist Infrastructure **Local Communities** & Facilities Conservation & Development

Figure A. 7 Structure of Tourism in Kenya

Source: JICA Study Team

The private sector plays an important role by providing tourist facilities and services for the direct use of tourists. Although gaining commercial benefits for itself, the private sector is contributing to the country's economic development through improvement of the balance of payments, generation of employment and promotion of agriculture and other sectors. However, sustainable development can only be achieved through sound business practice and competition. While improving and promoting their products, the tourism sector should maintain and up-hold basic commercial ethics through self-regulation, particularly in terms of hygiene, safety, security, pricing and service.

It can also be said that the public sector plays a crucial role in tourism development. The major role of the public sector is to develop and conserve tourism resources, promote tourism, support the tourism sector's activities and maintain fair practice in businesses operating in

the tourism sector. The role which the public sector plays is realised by the bodies outlined on Table A. 53.

Table A. 53 Tourism Functions

Functions	Responsible Body(s)	Enforcing Body(s)
Policy Making	MOTW	
Paming	MOTW	Planning Section
Marketing & Promotion	MOTW	Marketing Section
Ensuring the Security of Tourists	Office of the President	Office of the Commisioner of Police
	мотw	KWS (in national parks)
Ensuring the Safety of Tourists	Responsible Ministries	Responsible Sections
Improvement of Travel Conditions		
Infrastructure	Responsible Ministries	Responsible Sections
Tourist Facilities	мотw	Kenya Tourism Dev. Corporation African Tours & Hotels
Transportation	Ministry of Transportation and Communication	Transport Department
Tourist Information		:
Manpower and Tourism Services	MOTW	Lisensing Section Kenya Utalii College
Immigration procedure	Ministry of Finance Office of the President Ministry of Health	Customs Immigration
Supervision of the Tourism Sector	MOTW	Licensing Section
Development of the Tourism Sector	MOTW	KTOC

Source: JICA Study Team

3.2. Ministry of Tourism and Wildlife (MOTW)

The structure of Kenya's government comprises twenty-nine organisations, of which twenty-one are technical ministries. The organisational chart of the government is shown in Figure A. 8. The ministry with jurisdiction over tourism is the Ministry of Tourism and Wildlife (MOTW).

The major functions of the ministry are as follows:

- Planning of tourism and personnel training for the tourism sector,
- Management and conservation of wildlife and cultural heritages, which form the base for tourism, and
- Promotion of international and domestic tourism aiming at earning foreign exchange and generating employment.

Figure A. 9 provides a sketch of MOTW's organisational divisions.

Office of the President National Assembly Court of Appleal Office of the Vice-President & Ministry of Planning and National Development Ministry of Reserch, Technical Training & Ministry of Labour & ManpowerDevelopment Vinistry of Transportation & Communication Ministry of Finance Technology Ministry of Agriculture, Live-stock Development Ministry of Home Affairs & National Heritage Ministry of Commerce & Officeofthe Attorney-General Industry & Marketing Ministry of Foreign Ministry of Public Works Ministry of Environment Ministry of Culture and Affairs & Intil & Housing & Natural Resources Social Services Cooperation Ministry of Lands & Settlement Ministry of Tourism Ministry of Heath Ministry of Education & Wildite Ministry of Land Ministry of Information and Broadcasting Ministry of Local Government Ministry of Energy Redamation, Regional & Water Development

Organisation Chart of the Kenyan Government Figure A. 8

Source: Ministry of Tourism and Wildlife

MINISTER ASST.MINISTER ASST MINISTER PERMANENT SECRETARY TOURISM FISHERS & WILOUFE **ADMINISTRATION** FINANCE PARASTATAL KTOC CU KUĆ KWS DEPUTY SECRETARY DEPUTY SECRETARY DEPUTY SECRETARY DEPUTY SECRETARY UNDER SECRETARY LINDER SECRETARY

ASST. SECRETARIES

Supplies Section

ASST. SECRETARIES

TOURISM DEPARTMENT

Figure A. 9 Organisation Sketch of MOTW

UNDER SECRETARY

SNR ASST, SEC.

ASST. SECRETARIES

OFFICE

SERV. SECTION

Source: Ministry of Tourism and Wildlife

PUBLIC RELATION SECTION

UNDER SECRETARY

SNR ASST SEC. ASST. SECRETARIES

Persónnél Dívison

Ministry of Cooperative Development

SECRET REG. SECTION

The Tourism Department maintains two tourist offices within Kenya, that is in Mombasa and in Malindi. In addition, there are seven overseas tourist offices in London, Paris, Frankfurt, Zurich, Stockholm, New York and Los Angeles. These offices act as information centers and also promote the international markets' awareness of Kenya as a travell destination.

During interviews with hoteliers, travel agents and tour operators conducted by the study team, the following obstacles were frequently mentioned:

- Shortage of tourism marketing experts,
- Inadequate cooperation by the MOTW towards tourism promotion with the private sector,
- Inadequate of promotion funds, tourism promotion materials, and experienced personnel in tourist offices,
- Too many complex and time-consuming licensing requirements for the tourism sector in Kenya, and
- Coordination between public agencies (e.g. Investry Dept., Fisheries Dept. KWS, NMS, etc.) responsible for protection and conservation of tourism related resources.

The WTO Mission Report (January 1992) points out that tourism related infrastructure development projects tend to be granted by other ministries without consultation with the MOTW for their suitability. Likewise, the same report warns that the MOTW does not have sufficient permanent coordinating mechanism with the Ministry of Planning and National Development, in spite of the fact that tourism is the largest foreign exchange earner.

3.3. State Corporations and Parastatals

3.3.1. Kenya Tourist Development Corporation (KTDC)

The main objectives of the Corporation (as outlined in the Kenya Tourist Development Corporation Act) can be summarised as follows:

- Investigate, formulate, implement and/or finance tourist projects,
- Undertake improvements and/or expansion of new or existing tourist enterprises as well as their promotion, and

 Carry out projects or activities related to the tourism sector, which aim at that sector's improvement, including the general improvement and preservation of Kenya's wildlife and natural resources.

Initially, the KTDC was responsible for promoting construction and local ownership of hotel etablishments, either by joint venture tourist hotels, or through financing tourism related enterprises. Its role then developed into promoting more local ownership and participation in tourism enterprises.

The Revolving Fund Programme was set up with the primary purpose of assisting Kenyans with loans on favourable terms and conditions to set up new or acquire existing businesses in the tourist sector. As the sector grew, so did the demand for loans and the revolving fund could no longer cope with the number of applications. This was compounded by the slow recovery rate of the first loans and insufficient allocation of funds from the Treasury/Ministry of Finance.

The government is considering to transform the KTDC into the Tourism Development Bank of Kenya to meet the needs of small/medium scale owners of tourism related enterprises.

The WTO suggested that the KTDC should support small local hotels, restaurants and lodges. The KTDC, however, doesn't seem to be satisfied with that role, because the risk of retrieving money lent to these small hotels is high, as most of them are inexperienced and commercially not very viable.

3.3.2. Kenya Utalii College (KUC)

Today, the KUC has a capacity for 540 student trainees per annum and offers various courses in hotel management, front office operations, food and beverages production, travell operations and tour guide training, hotel-keeping and laundry, and other services. The college also offers refresher courses to the personnel serving various tourism related enterprises and has launched an out-reach field extension programme through the establishment of a Mobile Training Unit, where college teachers are able to train medium and small scale establishments' personnel based on their particular circumstances; that is using facilities and resources available on site.

Utalii Hotel, one of the most important training facilities, serves as an application facility with a capacity for about 650 students, who pursue various hotel courses and find here opportunities for practical training. Although the hotel is primarily a training facility, it also plays an important role in generating revenues, which contribute to the running of the college as a whole.

The training costs of Kenyan students at the college are funded in principal by the 2% training levy administered by the Catering Levy Trustees, and costs for students from various countries are funded through scholarships offered by donor governments, institutions or self sponsorship.

However, the college has been unable to cope with the excessive demand for training from school graduates and employees within the tourism sector without formal and/or relevant training in the sector on the one hand, and the very high demand from the tourism establishments for trained personnel, on the other hand. In 1992 for instance, 9,143 people applying for trainee courses competed for the 219 vacancies that were available at the college.

In addition, the college has been facing the following serious problems, which are jeopardising both, the standards and operations of the college:

- Facilities including the hotels are far from being adequate as the actual student population today exceeds the planned capacity by about 37%,
- A great number of the training equipment is obstacle,
- Classroom space is inadequate and lacks modern teaching aids,
- The model application hotel formerly classified as a five star hotel has been downgraded to a four star hotel and is badly in need of refurbishment,
- Loss of professional staff to the sector (brain drain), and
- Staff offices are inadequate and overcrowded.

In November 1991, the President directed that 85% of the total levy collected should be channelled to the college. However, this directive is yet to be implemented. When the directive is implemented, some of Utalii's problems rooted in the financing of the college may be solved.

3.3.3. The Catering Levy Trustees (CLT)

The CLT administers the catering levy, which is raised on the basis of all hotels' and restaurants' turnover, for the financing and training of Kenyan students at the college. The functions of the trustees are:

- Control and administer the fund,
- Establish, equip and control establishments, which train future hotel and restaurant staff, and

- Make payments out of the fund if necessary for the establishment, equipment and maintenance of such establishments, and the payment of training fees for persons attending for training purposes.

3.3.4. Kenya Wildlife Services (KWS)

The KWS was established in 1989 under the Wildlife Conservation and Management (Amendment) Act, 1989. The organization is a parastatal and is responsible for the conservation of Kenya's wildlife, that is plants as well as animals. The KWS is attached to the Ministry of Tourism and Wildlife, but its operations are relatively free from the constraints of a department within the civil service. The principal goals of the Kenya Wildlife Service are:

- Conservation of the natural environment of Kenya and her fauna and flora, for the benefit of present and future generations and as world heritage,
- Usage of Kenya's wildlife resources in a sustainable manner for the economic development of the nation and for the benefit of people living in wildlife areas, and
- Protection of people and property from injury or damage caused by wildlife.

The Wildlife Conservation and Management (Amendment) Act defines national parks, national reserves and other open areas as wildlife reserve areas. The KWS has eight regional offices in major regions of the country and under each regional office there are national park offices within the region. Each national park office is responsible for the conservation and management of national parks. In addition, two national reserves legally regarded as national parks are also under KWS's control.

The KWS published "A Policy Framework and Development Programme" which summarises the general policies and suggested action programmes of KWS for the period 1991 to 1996. The KWS has developed a Wildlife Conservation Plan. The programme summarises sound management of national parks and reserves and also contains tourism promotion policies for earning foreign exchange.

3.3.5. Bomas of Kenya Ltd.

Bomas of Kenya Limited, a limited liability company is a fully owned subsidiary of the Kenya Tourism Development Corporation (KTDC), which in turn is a fully owned public enterprise under the MOTW. Bomas of Kenya owns a theater with a seating capacity for 4,000 people on a 83 acre leasehold site in Langata, situated on the outskirts of Nairobi City. The company's principal activity is to perform cultural activities such as traditional dances and it displays traditional villages, arts and craft etc., as a means of entertainment for tourists and local residents and also as a means of promoting Kenyan culture. The MOTW is considering to establish of a tourist hotel and an amusement park, which would give more variety of entertainment to its site. It is inviting interested investors to enter a joint venture for the establishment of the project.

3.4. Public Enterprises and Private Organisations

3.4.1. Kenya Airways

Kenya Airways, established after the collapse of the East Africa Community in 1877 is wholly-owned by the Government of Kenya. Today, all owns three A-310 airbuses, two Boeing 737-200 and three Fokker 50s' Prop Jets in its fleet. It has 4 branch offices in Kenya and 23 overseas, operates 36 international routes to/from 22 cities and 4 domestic to/from 4 cities, and makes a profit of 450 million Kenyan Shillings by carrying 805,000 passengers in fiscal year 1993. The airline, however, has continued to face many difficulties in its management and operations and has not quite succeeded in achieving most of the objectives for which it was established. The Government of Kenya is addressing this issue. In June 1992, it awarded a contract to Speedwing Consultants of the UK to streamline the airline into an economically viable business entity. The airline is now under privatisation and makes efforts to strengthen its core. Therefore, Kenya Airways is presently not undertaking further steps either to expand its routes or to improve flight connections through joint flight and/or other arrangements.

Easy access is a crucial factor for inducing tourists to visit Kenya, so the airline will be expected to play a more positive role in the tourism development of the country.

3.4.2. The Kenyan Association of Tour Operators (KATO)

KATO is an association that represents the interests of tour operators in Kenya. It comprises some 250 member companies. The main objectives of the association are to:

- Provide a forum for government licensed tour operators in Kenya,
- Act as a representative for tour operators when dealing with other bodies.
- Promote tourism in Kenya and to improve service standards by tour operators,
- Uphold the business ethics of members, and to
- Negotiate and enter into agreements that will improve the tourism sector.

KATO is managed by an executive committee comprised of 10 board members, who are elected annually. It has 10 subcommittees whose activities are as shown in Table A. 54.

Sub-committees of KATO Table A. 54

Name of Sub-committee	Main Activities and Discussed Issues
Marketing	Promotion and marketing
en e	Preparation of promotion videos and participation in travel
	fairs
	Issues on National Tourism Board
Security	Establishment of tourist police
Ethics and Standard	Improvement of tourist facilities and services
	Licensing procedure to maintain a service level
Transport	Request for the improvement of road conditions
and a first of the second	Request for the improvement of Taxation and insurance
	cost
Education, Environment	Promotion of tourism to local people as a part of education
and Eco-Tourism	Courses and programmes in Utalii College
Regional Facilitation and	Strengthening the role of Kenya Airport Authorities and
Airport	improvement of formalities at the international airports
Tented Safari Operators	Standardisation of facilities and services in conjunction
•	with pricing
	Taxation and security
	Provision of information
Hotel and Lodge	Method of payment and cancellation
Coast Branch	Environmental problems
	Beach boys and employment
Domestic Tourism	Provision of budget hotels
	Discount of transportation

Source: Kenyan Association of Tour Operators, JICA Study Team

3.4.3. The Kenya Association of Travell Agents (KATA)

KATA has presently 78 members and 13 affiliated members nationwide, which are licensed IATA approved travell agencies. As a national association, KATA is a full member of the Universal Federation of Travell Agents Association (UFTAA) which represents 84 countries at its headquarters in Monaco. KATA is managed by an executive committee made up of senior employees of travell agencies,

who are elected annually. Their participation is on a voluntary basis. KATA is represented in committees in the MOTW, the Central Bank of Kenya, The Civil Aviation Board, the Board of Airline Representatives, the Kenya Association of Tour Operators and the Kenya Hotelkeeper and Caterer Association.

At present, KATA works in close cooperation with Kenya Airways.

3.4.4. The Kenya Association of Hotelkeepers and Caterers (KAHC)

KAHC is the principal umbrella organisation representing the interests of the hotel and catering industry in Kenya. It is a limited company by guarantee and has no share capital. The main objective for which the association was established is to encourage, promote and protect the interests of proprietors and other persons interested or concerned in hotels, restaurants and other allied trades. In pursuant to these broad objectives, the association undertakes such functions and responsibilities as:

- Being the principal spokesman for the sector nationally and internationally,
- Providing a principal information exchange network for its members and the sector,
- Promoting and protecting good industrial relations and interests of its members, and
- Fostering good industrial relations between the association and the workers' unions.

3.4.5. Other Related Organisations

(1) Local Authorities

Local authorities, such as country/urban councils, do not have tourism sections, to deal with tourism matters and resource management, even when national parks and/or tourism-oriented facilities fall under their direct authority and responsibility.

(2) Investment Promotion Centre (IPC)

The IPC's primary objective is to promote growth through private investment. The IPC gives both, local and foreign investors advice and guidance on existing and new projects in Kenya, as well as recommending necessary policies and legal reforms to improve the investment climate.

The IPC may be called upon to provide the following:

- Basic information on Kenya's investment climate,
- Detailed information on investment rules and procedures,
- Information on major investment opportunities,
- Advice on how to obtain financing,
- Suggestions on how to succeed in the Kenyan environment, and
- Assistance in arranging site visits.

The government introduced a one-stop approval system through the IPC with a view to expediting investment procedures. Thus, the centre is described as a "one stop-shop" where potential investors can obtain information, put forward proposals and obtain all the clearances and licences required to proceed with the investment. Regular meetings and discussions are held through the Joint Industrial and Commercial Consultative Council, between government ministries, the IPC and the Kenya Chamber of Commerce and Industry on matters of interest and importance to the government and the private sector.

4. The Tourism Sector and Tourism Marketing

4.1. Tour Operators and Travell Agents

4.1.1. Tour Operators

The total number of tour operators in Kenya is estimated to be about 2,240, concentrating mainly in Nairobi and Mombasa. Otherwise, they are distributed through Kenya as shown in Table A. 55. These numbers include travel agents. It is difficult to separate tour operators and travel agents, because tour operators manage tour agencies as annexes at the same time in many cases. The reason for this is that the inbound tours, which are connected with tour operators, play a leading role in foreign exchange earnings. The outbound and domestic tours, which are connected with the tour agents, though much less than the inbound tours, should however not be ignored. The leading Kenyan tour operators are organised in KATO (Kenyan Association of Tour Operators), about which some details were provided in the previous section.

Standard Kenyan tour operators arrange all kinds of reservations for tours, actually acting for overseas travel agents, which originally plan and sell the tours. They also possess their own vehicles for safari, drivers, guides who speak foreign languages, and in some of cases, even hotels, lodges and tents.

They have various characteristics and range in scales from an office with five or six staff members up to offices with many branches and approximately 500 staff members. In terms of market characteristics, they range from only one specific foreign travel agent up to multi-lateral ones, targeting their operations towards mass tourism to the Coast, towards tented safaris, the Lake Turkana or towards Kenyan tribes' folklore and so forth, respectively. They have, of course, been quite involved in the growth of Kenya's tourism. The members of KATO have confirmed the following:

- Tourism is a complex trade,
- The tourism product or holiday is a combination of visible and invisible elements,
- The visitor buys a 'dream' and the only proof that this dream exists is the attractive brochure and videos in the market place, and
- Once they have sold the dream to the visitor, they have to live up to their promises and deliver a quality product.

Table A. 55 The Number of Tour Operators (May 1994)

Tourism		No. of four	Shair
Region	Province	Operator	(%)
NAJROBI	Nairobi	1,113	49.7%
CENTRAL	Nakuru	27	12%
	Lakipia	25	1.1%
	Samburu	3	0.1%
	: Nyeri	10	0.4%
	Muranga	- 1	0.0%
4	Kiambu	. 9	0.4%
i i	Machakos	2	0.1%
	Meru	5	0.2%
	isioro	2	0.1%
WESTERN	Baringo	3	01%
	Uasin Gishu	6	0.3%
	Trans-Nzoia	7]	0.3%
	Kericho	. 1	0.0%
	Kisumu	16	0.7%
	Kakamega	. 2	0.1%
EASTERN	Taita Tavela	321	14.3%
WASAILAND	Karaoo	10	0.4%
	Narok	21	0.9%
COASTEL Y.R	Monibesa	489	21.8%
	Kwale	66	2.9%
	Kihfi	90	4.0%
	Lamu	7	0.3%
TURKANA	Turkana	2	0.1%
WHOLE COU	NTRY	2,238	100.0%

Source: MOTW, 1994

4.1.2. Travell Agents

The accurate number of travel agents in Kenya is not available, because many companies concerned with tourism manage both, travell agents and tour operators. However, there is a small number of pure travel agents. They never do tour operator business, but concentrate entirely on ticketing business and sell made-to-order trips for outbound and domestic travel. The ratio between outbound and domestic travel is different for every agent. On average, the ratio seems to be 80% to 20% on the base of their profits according to the Kenya Association of Travel Agents (KATA), which consists of 85 members nationwide.

With regard to basic tour-sale tools, almost all Kenyan travel agents do not have their own tourist information books composed of main tourist elements like accommodations, restaurants, transportation, tourist spots, souvenir shops and so forth. Therefore, their operations turn inefficient requiring a lot of communication by telephone, telex, facsimile and so on. The preparation of handmade information books has first priority; the automation of the information system has been planned by the MOTW, though. Their major concerns about Kenyan tourism promotion are as follows:

- They are supporting the establishment of proposed Tourism Marketing Board in MOTW, which would be in charge of statistics, information management, promotion and so on and be managed by professionals,
- Development of new circuits for tourists required to increase the capacity utilisation of existing destinations, and
- In accordance with the diversification of destinations, tourists' products should be diversified. 'Specialised Safari', 'Activity Holiday' and so on are examples. Activity Holidays include canoeing, rafting, horse-back riding, cycling, bird-watching, butterfly-watching, tourism horticulture.

4.1.3. Transporters

Transporters in Kenya are outlined in Table A. 56.

Table A. 56 Outlines of Transporters in Kenya

	Outline
Air	A Nairobi-centered network is regularly connected to main cities, smaller towns and certain national parks. Chartered flights by small planes are available for air safari.
Railway	Daily but only one night train with sleeping and dining cars runs between Nairobi and Mombasa, and Nairobi and Kisumu. Also Nairobi-Malaba (Uganda border) night trains run three times par week. All trains run very slowly and take a long time up to their destination.
Car Hire	Car hire is the most popular transport method for Safari. 4WD vehicles are suitable, as they often get stuck during safari. Customers can hire vehicles like land rovers not only from four operators but from full-time dealers.
Bus	Kenya has a network of regular buses, but they are not suitable for tourists, because they are very crowded. There is no regular sightseeing bus in Kenya but hire buses are available for group tours.

Source: JICA Study Team

4.2. Hotels and Restaurants

4.2.1. Hotels

- The total number of classified hotels is 240, but they are concentrated in the Coast Province (84, equivalent to 50%) and Nairobi (43, equivalent to 25.6%).
- Most of the "High" classified hotels are mostly foreign affiliated.

4.2.2. Restaurants and Other Entertainment

- Kenya's registered restaurants, which total 736, are concentrated in Nairobi (45.3%) and at the Coast (35.1%).
- In general, hospitality to the guests by restaurants' waiters is technically not satisfactory.
- In some restaurants, the payment system is not transparent to a foreign tourist.

Foreign tourists have only a little chance to enjoy authentic Kenyan traditional culture.

4.3. Tourism Marketing

Marketing activities for Kenyan tourism by the MOTW are summarised in Table A. 57. The MOTW's total budget for tourism promotional activities in 1993/94 was approximately K£1.8 million.

Table A. 57 Recurrent Expenditure Estimates 1993/94 on Tourism Promotion

HEADS		TITLE and ITEM	Production of Films & Brochures	Advertising and Publicity	Trade Fairs and Exhibitions	Show Expendes	Total
ncaus .	Headquarters Administrative Services		Tario de Cross de Co	7,000	-	Official Calendar 100,000	107,000
	Headquarters Administration and Planing		40,000	45,000	•	15,000	100,000
-		New York	15,000	35,000	20,000		70,000
	*	London	15,000		20,000	- 1	70,000
1		Frankfurt	15,000	35 000	20,00		70,000
1		Stockholm	15,000 15,000	35.000	20.000	}	70,000
ŀ		Paris	15,000	35,000	20,00	5	70,000
		Lusaka		10,000		1	10,000
		Hong Kong		20,000		 	10,000 20,000
		Zurich	15,000			1	70,000
		Caro	10,000	1 - KAAA			5.000
				5,00 0			5.000
	* *	Lagos Tokyo		40.000		 	40,000
	Overseas	Oliwa		30,000		 	30,000
ł	Tourism	Jeddah		5,000		 	5,000
:	Promotion	Harare		<u> </u>	}	 -	5,000
T-11		Abu-Dhabi	•	10,000		 	10,000
ervices	(by each Office)	Dubi	<u>-</u>	1 18.888		╂─╌┼	10.000
Services		Canberra		46,660		 	40,000
		Washington		10,000		 : 	10,000
1		Rome		30.000		1	30,000
1		The Hague		10,000		 	10,000
		Brussels		20.000		{ }	10,000 20,000
		Vienna		5,000		1	<u>- Š,ŏŏŏ</u>
1				5,000		 	5.000
		Tehran Windhoek	-	15.000		 	15,000
				39.000		 	30,000
		Johannesburg	90.000				<u> 725.000</u>
		SUBTOTAL	30,00	745,615	70,00	 	815,615
	Tourism	Services		143,010	10,00	1	0.0,010
	Domestic	Malindi Tourist Office	7,000	10,000		6,000	23,000
	Tourism Services	Mombasa Tourist Office	8,000	10,000		8,000	26,000
		SUBTOTAL	15,000	20.000		14,000	49.000
	THE SUM TOT		145,00				1,796,615

Source: 1993/94 Estimates of Recurrent Expenditure of the Government of Kenya

Promotional activities undertaken in cooperation with the private sector are as follows:

Headquarters Administrative Services issues an official calendar of KENYA, introducing typical Kenyan tourist spots. This is done in cooperation with Kenya Airways that deliveries them world-wide,

Tourism Services issues brochures such as 'KENYA HOLIDAY MAP AND GUIDE'. In many cases the brochures were produced by means of adding up several budgets for each section or office,

Budgets for participation in trade fairs and exhibitions were allocated for the following activities abroad in 1993:

- Holiday and Travel shows in Australia and New Zealand,
- Matka'93- Finnish International Exhibition in Helsinki,
- Tur-Swedish (International Tourism Exhibition in Gothenburg),
- B.I.T. 1993 Milan-Italy,
- I.T.B. Berlin-Germany,
- B.T.F. Fair,
- Flen-Sweden (as Kenya Information Seminar),
- Kenya Food Festival in Johannesburg South Africa (as Kenya Information Seminar), and
- Kenya Tourism Day at Great George Street, London (as Kenya Information Seminar).

For domestic tourism promotion the following activities were undertaken in 1993:

- Participation in all major Agricultural Society of Kenya Shows held at Kisumu, Embu, Mombasa, Nyeri, Garissa, Nairobi, Kitale and Kakamega, and
- Organisation and participation in the Kenyan International Tourism Exhibition (KITE).

5. Public and Private Investment

5.1. Introduction

The major objectives of this section are:

- Identify investment requirements in the study and classify them into public and private investment projects/programmes,
- Make projections on availability of public and private fund sources to meet the investment requirements, and
- Present external fund requirements and financing conditions, thereto for implementation of investment requirements in this study.

The present section rewievs the historical trend of investments in the tourism sector. The current Public Investment Programme (PIP), covering the period from FY 1994 to FY 1996 was reviewed as well.

5.2. Capital Formation in GDP

All investment at the national economy level is aggregated in "Gross Fixed Capital Formation (GFCF)". GFCF includes the investment of all sectors including economic and social sectors and public administration. It covers investments in the public private sectors. The historical trend of the GFCF since 1980 is shown in Table A. 58. As shown in this table, the share of GFCF in GDP (1982 prices, at factor cost) varies from 16% to 29% for the five years between 1980 and 1992 for which data were available, with an average of 19%. Compared to other African countries, this percentage is not that low, but is lower than that of developing countries in Asia.

The trend of the GFCF with a breakdown of public and private sectors is shown on Table A. 59 for the five years since 1985 for which data were available. As shown in the table, the ratio of the public sector to the total GFCF varies from 37% to 49% with the average of 42%. The majority of the investment in the national economy is carried out by the private sector.

Table A. 58 Trend of Gross Fixed Capital Formation in GDP

				Unit: K£ million			
	1980	1985	1990	1991	1992	Average	
1) GDP at market prices	3,337.3	3,781.0	4,971.7	5,043.2	5,065.2	22,198.4	
	(100)	. (100)	(100)	(100)	(100)	(100)	
2) GDP at factor cost	2,768.2	3,314.5	4,223.6	4,311.5	4,327.4	18,945.2	
3) Imports	1,524.1	901.7	1,476.7	1,412.4	1,475.5	6,790.4	
	(45.7)	(23.8)	(29.7)	(28.0)	(29.1)	(30.6)	
4) Exports	887.7	923.2	1,378.3	1,365.1	1,322.5	5,876.8	
	(26.6)	(24.4)	(27.7)	(27.1)	(26.1)	(26.5)	
5) Gross Fixed Capital							
Formation	807.3	597.2	786.5	762.2	691.3	3,644.5	
(% of GDP at market prices)	(24.2)	(15.8)	(15.8)	(15.1)	(13.6)	(16.4)	
(% of GDP at factor cost)	(29.2)	(18.0)	(18.6)	(17.7)	(16.0)	(19.2)	
6) Change in Stocks	223.7	279.5	169.4	89.9	23.4	785.9	
	(6.7)	(7.4)	(3.4)	(1.8)	(0.5)	(3.5)	
6) Public Consumption	694.7	710.0	848.7	898.0	980.0	4,131.4	
	(20.8)	(18.8)	(17.1)	(17.8)	(19.3)	(18.6)	
7) Private Consumption	2,247.9	2,173.0	3,265.5	3,340.3	3,623.4	14,650.1	
· · · · · · · · · · · · · · · · · · ·	(67.4)	(57.5)	(65.7)	(66.2)	(71.5)	(66.0)	

Note:

1) At 1982 constant prices

Source: Historical Economic Data for Kenya 1972-92, MPND (Statistical Abstract 1991)

Trend of GFCF by Public and Private Sectors Table A. 59

						Unit: K£	million
	1985	1986	1987	1988	1989	1990	Average
1) Total GFCF	597.2	668.1	707.9	766.7	760	760.8	4260.7
2) Private	363.3	387.4	446.2	446.7	434.2	390.7	2468.5
-Non-Monetary	56.4	56.7	55.5	53.4	53.9	47.7	323.6
-Modem	306.9	330.7	390.7	393.3	380.3	343	2144.9
3) Public 4) Ratio of Public to	233.9	280.7	261.8	320.1	325.8	370.1	1792.4
Total GCFC (%)	39.2	42	37	41.8	42.9	48.7	42.1

Note:

(1) GFCF at 1982 constant prices

(2) "Average" is the column for obtaining percentages computed based on the data available on the table.

(3) Figures of 1990 are provisional.

Source: Statistical Abstract, 1991

²⁾ Figures in parentheses show percentage of GDP at market prices except those of lower column for GFCF which show percentage of GDP at factor cost.

^{3) &}quot;Average" is the column for obtaining the averaged percentage computed based on the data available on this table.

The past trend of GFCF with a breakdown of major sectors including the sector "Trade, Restaurants and Hotels (TRH)" is shown in Table A. 60. The share of the TRH sector in the GFCF ranges between 2% and 6% with an average of 4%. Among economic sectors, many investments were made in sectors such as transportation and communication, manufacturing and electricity and water.

Table A. 60 Trend of Gross Fixed Capital Formation (GFCF) by Sector

					Unit: KE million
	1980	1985	1990	1991	Average
1) Total GFCF	807.3	597.2	786.5	764	738.75
2) Traditional Economy	54.4	56.4	49.9	45.1	51.45
3) Monetary Economy	752.9	540.8	736.6	718.9	687.3
-Agriculture	61.9	50.8	55.1	51.2	54.75
-Manufacturing	110.1	65.2	130.9	111.5	104.425
-Transport & Comm.	127.8	106.6	113.6	137.5	121.375
-Trade, Rest. & Hotels	39.5	24.2	. 14.7	47.2	31.4
	(4.9)	(4.1)	(1.9)	(6.2)	(4.3)
-Other Sectors	413.6	294	422.3	371.5	375.35

Note: (1) GFCF at 1982 constant prices

(2) Average is the computed average of the data on the table.

(3) Figures in the parentheses show the percentage of the total GFCF.

Source: Historical Economic Data for Kenya 1972-92, MPND (Wilson1992)

No direct statistics on national income exist individually on the tourism sector including, output, value added, employment and investment. The data of the tourism sector is scattered in a few sectors such as "Trade, Restaurants and Hotels", "Transport and Communications" and "Community, Social and Personal Services". In this section, data of the following subsectors were used to aggregate the data for the tourism sector.

a. Trade, Restaurants and Hotels

- Restaurants, cafes and other eating and drinking places, and
- Hotels, rooming houses, camps and other lodging places.

b. Transport and Communication

- Supporting services to land transport,
- Air transport carriers including aircraft rental,
- Supporting services to air transport, and
- Booking and travell agencies.

c. Community, Social and Personal Services

- Libraries, museums, botanical and zoological gardens and other cultural services,
- Pleasure boats for hire,
- Other amusement and recreational services, and
- Hunting and tourist guide services.

These aggregated data were compared to the total figures of the TRH sector, in order to obtain a hypothetical ratio of the tourism sector in the TRH sector. The data of the tourism sector were estimated based on the total TRH data multiplied by the above mentioned ratio. Due to a limited availability of a detailed subsector breakdown, the data of "Wage Employment by Industry" and "Earnings by Industry and Major Towns" both for the period from 1984 to 1990 were used to obtain the above mentioned hypothetical ratio, which was computed at 50.5% for the total TRH sector. In other words, in this section, the data of the tourism sector were estimated on investment at a half of the whole TRH sector figures.

The above mentioned ratio will be applied for estimating the availability of the fund for investment in further stages of this study.

5.3. Central Government's Budget and PIP

The source of public investment is the annual budget of the central government. The public investment is funded by the "capital expenditure" of the central government's development budget. The trend of the capital expenditure for the recent years, is shown in Table A. 61. As shown in this table, the amount of capital expenditure has been increasing and its ratio to the total expenditure including the recurrent and development expenditures was 19.1% in 1992/93.

Table A. 61 Trend of Central Government Finance

				Uni	t: KE million
	1980/81	1985/86	1990/91	1991/92	1992/93
1) Current Revenue	701.5	1205.6	2420.6	2852.3	3262.1
2) Current Expénditure	685.1	1250.8	2723	2793.8	3504.7
3) Development Expenditure	205.2	173.2	538.7	453.4	828.3
-Capital Revenue		3.8	16.2	0.7	1.3
-Capital Expenditure		177	554.9	454.1	829.6
% of Total Expenditure	23	12.4	17	14	19.1
4) Net Lending	81.8	50.5	79.3	24.1	78.8
5) External Grants	19.6	54.8	208.3	232.4	513.4
6) Overall Deficit	-251	-214.1	-712.1	-186.6	-636.3
% of current GDP	10.9	4.8	8.5	2	5.7
7) Deficit Financing					
-External Loans	126.8	-95	206.5	11.5	177,3
-Domestic Borrowing	67.5	204.2	530.1	344.9	795
-Long Term(net)	66.4	36.3	248.8	346.5	414.4
-Short Term(net)	1.1	167.9	281.3	-1.6	380.6
-Change in Cash Balance	-56.7	-105.1	24.5	169.6	336
-Total	251	214.3	712.1	186.8	636.3

Source: Historical Economic Data for Kenya 1972-92, MPND (Economic Survey, 1993)

The central government's budget has shown a big deficit every year. The deficit represented to 5.7% of the current GDP in 1992/93. The deficit has been financed mainly by domestic borrowings and by external loans. It is to be noted that external grants have become a significant revenue source in the central government's budget (Table A. 61).

The government's annual capital expenditure is compiled based on the Public Investment Programme (PIP), which is prepared by each line Ministry reflecting the development policies and strategies stipulated in the Mid-term National Development Plan (MNDP). The current PIP 1994/95-1996/97 is shown in Table A. 62. The public investment of 1,226 projects in total, including 1,039 ongoing and 187 new projects, are listed in the current PIP for the period from 1994/95 until 1996/97. The total estimated costs amount to K£11,937 million, of which K£7,104 million (value reviewed on June 30,1994) are required for completion. In the fiscal year of 1994/95, the investment of K£1,656 million, of which 86% are for ongoing projects, are proposed for investment. The ongoing projects have a priority in funding. For the proposed investment in 1994/95, 85% of the total investment requirement are planned to be financed from external funds.

Table A. 62 Public Investment Programme 1994/95 - 1996/97

Sector	Category	Proi	ects		Total Balanced Required Estimated Costs to Complete				Proposed in 94/95		
	Valogory	Number		K£ mil.	% Total	K£ mil.	% Total	K£ mil.	% Total		
Economic Sector	Ongoing	595	89	4,379	88	2,545	83	803	81		
	New	64	10	546	11	522	1.7	184	19		
	Total	659	100	4,959	100	3,067		988	100		
	GOK Funded	393	59	1,250	25	682	22	134	14		
	Ext. Funded	266	40	3,710	75	2,385	78	854	88		
Social Sector	Ongoing	238	91	1,326	98	760	96	246	95		
	New	24	9	32	Ż	32	4	13	5		
	Total	262	100	1,358	100	792	100	259	100		
	GOK Funded	191	73	467	34	348	44	29	ារ		
	Ext. Funded	71	27	891	66	443	56	2 30	89		
Public	Ongoing	206	68	4,546	81	2,179	67	377	92		
Administration	New	99	32	1,074	19	1,066	33	33			
	Total	305	100	5,620	100	3,245	100	410	100		
	GOK Funded	212	70	1,911	34	1,527	47	92	22		
	Ext. Funded	93	30	3,709	66	1,717	53	318	. 78		
Total PIP	Ongoing	1,039	85	10,250) 86	5,483	77	1,427	88		
	New	187	15	1,652	14	1,620	23	230	14		
	Tolal	1,226	100	11,937	7 100	7,104	100	1,656	100		
-	GOK Funded	796	65	3,628	30	2,557	36	254	15		
	Ext. Funded	430	35	8,310	70	4,546	64	1,402	85		

Source: Public Investment Programme 1994/95 - 1996/97

The PIP of the tourism sector is shown in Table A. 63. Forty-nine projects in total with the total estimated costs of K£525 million are listed. Some investments have been already done and the remaining balance required for completion is estimated at K£343 million, of which K£107 million are proposed for fiscal year of 1994/95. The whole investment proposed for 1994/95 is programmed to be allotted for ongoing projects. As shown in the same table, 19 projects are core projects and the remaining 30 out of 49 in total are high priority projects. These are defined in the PIP as follows:

a. "Core Projects"

Projects which will be accorded first priority for funding allocations in the budget exercises are development activities that are absolutely central and critical for carrying out the functions of the ministries.

b. "High Priority Projects"

Projects which will be given second priority for funding towards implement action of national and sectoral policies in the 7th National Development Plan.

Table A. 63 Public Investment Programme of Tourism Sector

	Pr	oiect	Total Estimated Cost		Ballance	lo Complete	Proposed in 94/95	
Category	No.	% Total	KÉ mil.	% Total	K£ mil.	% Total	KÉ mil.	% Ballance
Ongoing	35	71	470	90	287	84	107	100
New	14	. 29	55	. 10	55	16	0	0
Total	49	100	525	100	343	100	107	100
GOK funded	31	63	42	9	40	12	1	1
Ext. funded	18	37	483	91	302	88	106	99

	Pro	Project		Total Estimated Cost		Ballance to complete		l in 94/95
Category	No.	% Total	K£ mil.	% Total	K£ mil.	% TEC	KÉ mil.	% Ballance
Core	19	39	307	58	239	78	95	40
High Priority	30	61	218	42	104	48	13	12
Total	49	100	525	100	343	65	107	31

Source: Public Investment Programme 1994/95 - 1996/97

Core projects in the current PIP of the tourism sector of the Ministry of Tourism and Wildlife (MOTW) comprise the following:

- Tourist Circuit Roads Programme,
- National Tourism Development Master Plan,
- Tourism Marketing and Promotion,
- Kenya/Seychelles Joint Tourism Promotion,
- Research Services and Design,
- Wildlife and Protected Area Management,
- Protected Area and Wildlife Services Project,
- Elephant Conservation and Community Wildlife Programme,
- Purchase of Residential Houses Abroad,
- Masai Mara Conservation Project, and
- Assistance for the KWS, PAWS Wetlands Programme.

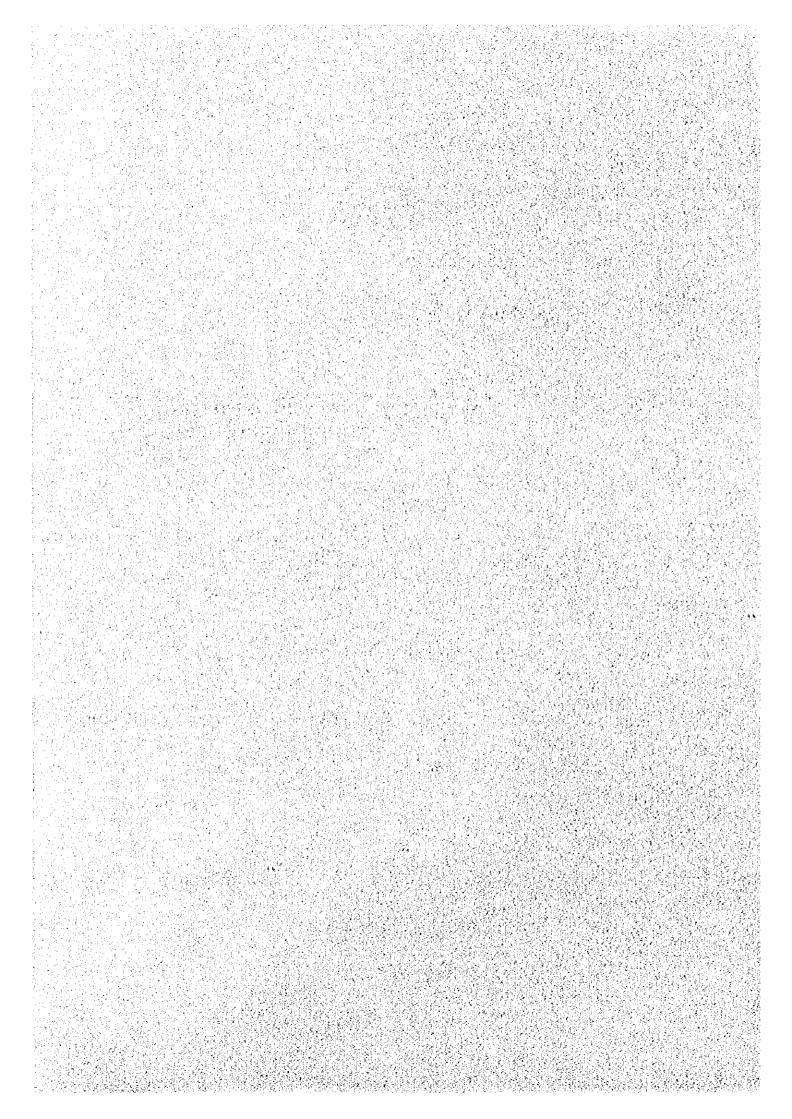
In Table A. 64, the current PIP is compared to the historical PIPs since 1992/93. The table shows a significant decline in the number of projects included in the PIP, from 2,119 in 1992/93 to 897 in 1996/97, which represents 60% reduction over the five years. There are differences in the rate of decline among sectors. As shown on the table, the tourism sector does not show a decline but an increase in terms of the number of projects and amounts of allocations in the PIP.

Table A. 64 Projects and Allocations of Tourism Sector in PIP for 1992/93 - 1996/97

	-	*			Unit:	K£ million
		1992/93	1993/94	1994/95	1995/96	1996/97
PIP Total	No Project	2119	1823	1177	1032	897
	Allocations	1160	1026	1656	1522	1086
	FB ceiling			1354	1489	1638
Tourism & Wildlife	No.Project	19	24	49	45	45
	Allocations	25	62	107	107	: 99
-	F8 ceiling			102	112	123

Note: "FB ceiling" means Forward Budget expenditure ceiling. Source: Public Investment Programme 1994/95 - 1996/97

ANNEX 5 ANALYSIS OF EXISTING TOURISM RESOURCES



Annex 5 Analysis of Existing Tourism Resources

1. Tourism Regions and Destinations

1.1. Profile of Tourism Regions

The Central Tourism Region is a highland and mountain area, which includes Nairobi, the Central Province and part of the Eastern and Rift Valley Provinces. This tourism region is the gateway to Kenya and East Africa.

The Masailand Tourism Region is semi-arid land in the southern part of the Rift Valley Province. The national reserve and national park in this region are famous destinations for wildlife safaris.

The Western Tourism Region is a highland and mountain area, which includes Nyanza, the Western and a middle part of the Rift Valley Province. The region has highland natural resources and potential cultural resources.

The Turkana Tourism Region is a dessert and arid area, surrounding Lake Turkana in the Rift Valley Province. Currently, this region is one of the attractive destinations for tented safaris.

The Northern Tourism Region is a desert and arid area, which includes the northern part of the North Eastern and Eastern Provinces.

The Tana Basin Tourism Region is a semi-arid and arid area along the Tana River, which includes a Northern part of the Coastal Province and a Southern part of the North Eastern Province.

The Coastal Tourism Region is the area along the coast of the Indian Ocean, which is a major part of the Coastal Province. This region has been well developed and is one of the famous beach resorts in Africa.

The Eastern Tourism Region is an arid and semi-arid land, which includes a Southern part of the Eastern Province and a Western part of the Coastal Province. The biggest national park of the country, which is much in resources, is located in the region.

1.2. Distribution of Tourism Destinations

Among the tourism regions, 120 tourism destinations are presently identified as major tourism destinations and spots. As shown in Table A. 65 the characteristics of the presently identified tourism destinations are summarised as follows:

- Identified tourist resorts are located mainly in the Central, Western and Coastal Tourism Regions,
- Identified tourist resorts resources are not equally developed and utilized, and,
- Other tourism resources, such as cultural and historical resources are not adequately identified.

Table A. 65 Major Tourism Destinations Presently Identified

		National Par	ks & Réserve	\$	Others	Tolal
	Developed	Developing	Under- developed	Total		
Central	5	3	9	17	12	29
Masailand	2	0 -	Ó	2	- 5	7
Western	0	1	9 -	10	8	18
Turkana	0	0	3	3	4	7
Northern	0	0	4	4	0	4
Tana Basin	0	1	8	- 7 -	2	9
Coastal	0	5	8	13	24	37
Eastern	2	0	2	4	5 -	9
Total	9	10	41	60	60	120

Source: Ministry of Tourism and Wildlife

2. Tourism Resources

2.1. Natural Resources

Abundant and characteristic natural resources in Kenya are located in the mountain and highland, arid/semi-arid land and coastal areas. Potential natural resources for tourism in those areas are geographic features for scenery and tourism activities, attractive and interesting flora and a well diversified fauna. Twenty-two national parks, 23 national reserves, 1 national sanctuary, local sanctuary, 4 national marine parks and 5 national marine reserves have been gazetted as a protected areas in which tourism is a major economic activity. The flora, fauna and ecological systems in the national parks, national sanctuaries and national marine parks are conserved and managed by KWS. Designated national reserves and national marine reserves are conserved and managed by the county councils.

Tourism resource analyses in the study could be assessed based on the data of designated national parks, national reserves, national sanctuaries, local sanctuaries marine parks and marine reserves.

2.1.1. Major Natural Tourism Resources

The major potential natural resources for tourism development can be categorised into the following three groups:

Geographic features, general and specific land forms, which present an attractive scenery; interesting scenic spots and places, which create an opportunity for sports and recreational activity for tourists,

The flora, general vegetation features in Kenya, can be roughly categorised into 8 regions. Bushland and shrubland on arid, semiarid and desert land represent the majority of Kenya's vegetation regions. On the other hand, afro-alpine forest, Guineo-congolean rain forest, coastal forest, mangrove and marine life are rare and interesting vegetation and resources attracting tourism to Kenya.

Wildlife (fauna) resources are widely spread in major tourism resources. Especially, big carnivore and herbivore species of mammals are the most attractive and interesting to tourists. Large herds of other medium and small mammals are also an attractive tourism resource. Other wildlife, birds and insects and endangered species of mammals are also important tourism resources, which attract tourists with special interest.

GEOGRAPHIC
Interesting/ Scenic Values of General/ Specific
Land Form Potentials for Sports Activities FLORA Afró-alpine Forest / Guineo-congolean Rain Forest Arid / Semiarid / Desert Bushland / Shrub land / Grassland Coastal Forest / Mangrove / Marine Life FAUNA **Big Carnivores** Medium / Small Carnivores **Big Herbivores** Medium / Small Herbivores **Endangered Species** Birds **Butterfly / Other Insects** Coral / Fish / Other Marine Life Zoological Research / Orphans / Other Facilitie

Figure A. 10 Major Natural Tourism Resources in Kenya

SUDAN ETHIOPIA Mala Mari NP O South Island NP **UGANDA** Swamp NP Maratal NS

Kamnarok NR Samburu
C SOMALIA Buffelo Springs NR TANZANIA A Kisite Marine NP Mpunguti Marine NR Source: JICA Study Team, MOTW, KWS

Location of National Parks, Reserves and Others Natural Figure A. 11 Resources

List of National Park, Reserve and Others Table A. 66

T. Region		Vea	National Park/ Reserve/	Estab	
coie	Cox)	Sanduary and Marine	Year	
i	.	i	National Park/Reserve		(sqKm)
lo. Name		Name		1	
Central Tourism Region		Nairobi Lake Nakuru/Naivasha	Nairobi N.P.	1946	117.2
7 National Parks		Lake Nakuru Naivasha Lake Nakuru Naivasha	Hells Gale N.P.	1984 1967	1
5 National Reserves		Lake Nakuru Navasha	Longonol N.P.		- 10
1 National Sanctuary		Mt. Aberdare	Aberdare N.P.	1983	5.5.6
	-	West Sambur	Lakoa N.R.	1950	786.1
		West Sambur	Maraial N.S.	1991 1968	10
•		East Samburu/Somali	Buffalo Springs N.R.	1985	1;
		East Samburu/Somali	Samburu N.R.	1985	
•		East Sambuna Somali	Shaba N.R.	1974	233
		M. Kenya	Mount Kenya N.P.	1949	717.5
		Embu Muranga	Ol Opinyo Sabuk N.P.	1967	18.
	17	Embu/Muranga	Mwea N.R.	1976	68.
2 Masailand Tourism Region		Ambose	Amboseli N.P.	1974	392
1 National Part/ 1 N. Reserve		Masai Vara	Masai Mara N.R.	1974	1,510.0
3 Western Tourism Region		Southern Victoria	Runa N.P.	1983	1,510.0
4 National Parks		Northern Victoria	Ksumu Impela L.S.	1986	
6 National Reserves		Northern Victoria	Kakamega N.R.	1985	44
# 141101 CH 1000 100		Mt. Elgon	Mount Elgon N.P.	1968	169
		ML Elgon	Salwa Swamp N.P.	1974	- 100
		Pokol	Nasolol N.R.	1979	
		Rift Valley Lakes	Kamnarok N.R.	1983	87
		Rift Valley Lakes	Rimoi N.R.	1983	
		Rift Valley Lakes	Lake Bogona N.R.	1970	107.
		Rift Valley Lakes	South Turkana N.R.	1979	1.091
4 Turkana Tourism Region		Northern Turkana	Sibliot N.P.	1973	1,570
3 National Parks	172	Mid Turkana	Central Island N.P.	1933	
	43	Southern Turkana	South Island N.P.	1983	3
5 Northern Tourism Region	🕇 झ	Marsabit	Marsabit N.R.	1949	2,088.
1 National Park	-52	Losai	LosalNR	1976	1,806.
3 National Reserves	- 53	Waka	Maka Mari N.P.	1989	8
6 Tana Basin Tourism Region	ने हा	Western Tana Basin	Kora N.P.	1989	1,787.
2 National Parks	61	Western Tana Basin	Meru N.P.	1966	870
5 National Reserves	61	Western Tarra Basin	Bisanadi N.R.	1979	8
•	61	Western Tana Basin	North Kitsuf N.R.	1979	7
	61		Rahole N.R.	1976	1,270.
	63	Easlem Tana Basin	Arawaie N.R.	1974	533
		Easlern Tana Basin	Tana River Primate N.R.	1976	7
7 Coastal Tourism Region	71	South Morroasa Coast	Shimba Hills N.R.	1968	192.
1 National Park	77	South Mombasa Coast	Kisile Marine N.P.	1978	
3 National Reserves	71	South Mombasa Coast	Mounguti Marine N.R.	1978	
4 National Marine Parks		Morricasa Coast	Moπbasa Marine N.P.	1986	
5 National Marine Reserves	72	Mombasa Coast	Mombasa Marine N.R.	1986	2
		Malindi Coast	Arabuko Skoke N.P.	1990	
	73	Malindi Coast	Maind Warne N.P.	1968	
		Malindi Coast	Watamu Marine N.P.	1968	
		Malindi Coast	Malindi Marine H.R.	1968	213.
		Maindi Coast	Walamu Marine N.R.	1968	
		Northern Coast	Boni N.R.	1976	1,339.
		Northern Coast	Dodori N.A.	1976	877.
	75	Northérn Coast	Kunga Marine N.R.	1979	2
8 Eastern Tourism Region	81	Chyulu	Chyviu N.P.	1983	470
3 National Parks		Eastern Tsavo	Isavo East N.P.		11,747.
1 National Reserve		Eastern Tsavo	South Kitsul N.R.	1979	1,833.0
	1 87	Weslem Tsavo	Tsavo West N.P.	1948	9,065.0

Note: N.P - National Park, N.R - National Reserve, N.S · National Sanctuary Source: JICA Study Team, MOTW, KWS

2.1.2. Tourism Resources of Geographic Feature

General and specific geographic features are a major tourism resource. They present attractive scenery and interesting scenic spots for sightseers and create opportunities for sports and recreational activities for tourists.

A typical scenery in Kenya could be represented by the panoramic view of the Rift Valley, the view of mount Kenya, Kilimanjaro and Mt. Elgon and the contrasting view of white coral sandy beaches/green coastal forests/blue skies and the sea.

Rock towers, small craters and crater lakes, caves, island geysers, glaciers and other land forms are interesting scenic spots.

Opportunities for sports and recreational activities for tourists are based on geographic features. For example, Mt. Kenya offers opportunities for climbing, rock climbing and trekking. The Indian Ocean provides attractive fishing and marine sports opportunities. The coastal area and coral reefs provide snorkelling and scuba diving opportunities. The Tana River provides opportunities for rafting and river safaris.

The Coastal Tourism Region has a beautiful coastal scenery and attractive scenic spots. Compared to other regions, it provides many opportunities for marine and coastal sports and recreational activities.

The Central Tourism Region has also a good scenery (Rift Valley/Mt. Kenya), a variety of scenic spots and potential for highland sports and recreational activities, which are based on the variety of land forms (mountain and highland).

The Western Tourism Region has a good scenery and scenic spots and offers opportunities for highland sports.

The Tana Basin Tourism Region provides opportunities for attractive river rafting and river safaris for tourists with special interest.

Major Geographical Feature Figure A. 12

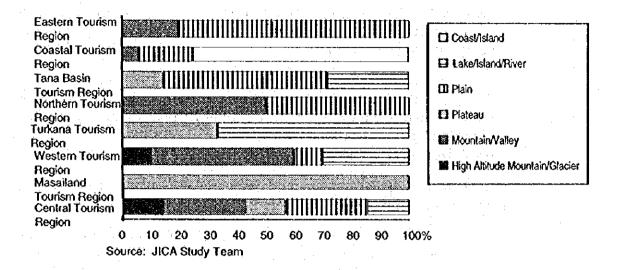
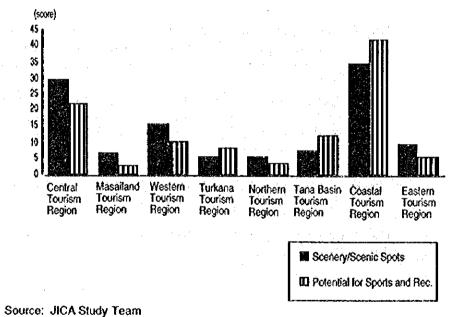


Figure A. 13 Scenery, Scenic Spots and Potentials of Sports and Recreational **Activities**



List of Tourism Resources (Geographic Features) Table A. 67

	sm Area		GEOGRAPHIC FEATURE General Land Form	Potential Activities	TGG/	neral	Fea	li jre		1	Γ-
code No.	Name	Héserve	General Land Form	of Sports and Hecreation	۳	FEIG	1 60	itor o			
UNIX	nanio							П	I	7	
										ı	-
	,				ō				. 1		l andform(Caves/other
					ligh Altitude Mountain/Glacier						5
					ত	li			1	ı	3
	'			4	ē				1		Ċ
			•		Ę				<u>,</u>		ŧ
		•		General Feature	ĭ≚	⋧			ake/Island/River	ı	ŧ
				Obviously Major	8	Mountain/Valley			δĮ	덩	1
				. Major	뎙	⋛	ا ن ا		ह्य	Coast/Island	
				O Specifo	₹	둳	룷	_	iş l	35	
				Copeciic	₽	ᅙ	Plateau	Plain	충	중	
-			Paleau	Saları	1	€.		-	d	ᄱ	ŕ
	Naircoi	Nairobi N.P	Plateau	Book Brook heervation	J.	6			М		t
	Lake Nakuru Navasha	Helis Gate N.P Lake Nakuru N.P	Narrow Gorge/Rock Pinnacle Shallow a kaline lake/Rocky	hiliside/Lill Valley	Ť	12	-		o	\dashv	۲
	Lake Nakuru Navasha Lake Nakuru Navasha	Longonel N.P	Voicanic Crater	Salary Frekking	+	A			-		ľ
	Mt. Aberdare	Aberdare N.P.,	Mountain/Waterfalls	SalaryNight Animal Watch	18	! "	\circ		ΙΤΙ		Ī
	West Sambur	Lakipa N.H.	Plaleau	Salari			•				Ĺ
	West Samour	Waraal N.S	Mountain	Saları		A	8		آبا]	Ĺ
75	East Samburu/Somalia	Buttalo Spring N.H	Riverine plain	Saları	4_	1	₩	Į 🏚	Q		L
	East Samburu/Somalia	Samouru N.H.	Riverne plain	Salari	4-		├		Q		ŀ
	East Samburu/Somalia	Shabe N.H	Riverne plain	Salari	-	6		1			ŀ
	Mr. Keriya	Mount Kenya N.P	Rocky mountain View/Glacie Waterial/Hiverine swamp	Climb/Salar/Horse Haidir Salari	1	₩	۲۰	r-	Ş		t
_1/	Embu Muranga	Fourteen Falls N.P Of Donyo Sabuk N.P	Waterian riverne swamp	Climbing/SalariV	+	þ	1-	-	==		ŀ
-1/	Embu/Muranga	WeanH.	Hiverne plain	Saları	1	╁╇	H	A	Ô	\neg	ľ
-	Embu Muranga Ambosen	Amboseli N.P	Plateau/Dry lake bed	View-Mt. Kilimanjaro	7	†	lø)	Õ		î
	Masa Mara	Masai Mara N.H.	Plateau	Safari	Ι.						L
-10	Southern Victoria	Ruma N.P	Hiliside	Saları		To	\Box				Γ
	Northern Victoria	Noere Island N.P	island al lake victoria			L	L				Į
33	Northern Victoria	Kakamega N.H	Mourian	Trekking Salari		Ĭ		!	Ш		ļ
	ML Eigon	Mount Egon N.P	Volcanic mt. /Caves/Glacier	SataryCaving	. 9	LO	ω	ļ	-	_	ľ
	MI. Elgon	Sawa Swamp N.P.,	Hivenne	Trekking Salari Salari	-	╁	₽ _æ	├ ─	92		ŀ
	Potol	Nasolot N.R.	Mountain skirt/rivenne Mountain	Salan		∤₽	ΙŌ	a	╂╼┤	_	ł
	Hill Valley Lakes	South Turkana N.H Kamnarok N.H.	Valley	Salari		9	1	-	ㅈ		t
	Hill Valley Lakes	Keno Valley N.H.	Valley	Salari	+-	Τŏ	1	_	Ö	_	t
	Hill Valley Lakes Hill Valley Lakes	Lake Bogora N.H.	Alkaline Lake/Hot Spring	Salari		上	r				ľ
<u> </u>	Nornem Turkana	Sibiloi N.P	Lakeside	SalarvFishing/Water Sport SalarvFishing/Water Sport	5	\mathbf{L}	I		$\mathbf{I}\Omega$		I
	Mid Turkana	Central Island N.P	Island al lake/3 craler lake	Salan/Hishing/Water Sport	\$	1	<u>L</u>	1_	•		Į
	Southern Lunkana	South Island N.P	Mountain Island at the take	Salan/Climb/Waler Sports	-	ΙÇ		-	la.	-	ŀ
51	Marsabit	Marsaoit N.P	Mountain	Salari			ĮΩ				ł
	Marsabit	Marsabit N.H	Mountain/Volcanic Uraters	Salari Salari	-	158	ЦΩ	la.	} -	-	Ī
5	Losai	Losai N.R.	Plain Mandera pialeau	Salah		╁~	╁╾	12	ţ	┢	t
	Waka	Kora N.P.,	Riverne plan	Hiver Haller/Salari	4	+	†~	17	10		İ
	Western Tana Basin Western Tana Basin	Meru N.P	Foothill	Hiver Haller/Salari	-†-	1	18	to	10	_	t
	Western Tana Basin	Bisanadi N.H.	Hiverine plan	Hiver Halter/Salari	1	1	1	ĕ	+-		Ī
-6		North Kirsul N.H.	Hivenne plain	Safari	I			Ō	\Box		Ţ
- 6		Harce N.H.	Hivenne plain	Hiver Halter/Salari	T	1	L	19	Q	L	Į
	3 Eastern Tana Basin	Arawaie N.H	Hiverine plain	Hiver Hafter/Salari	1	4_	Ļ	Į	1Q	 _	Į
	3 Eastern Tana Basin	Tana River Primale N.H.	Riverne plain	River Halter/Salari		╅┰	4-	Ô	48	-	ł
	South Mombasa Coast	Shimba Hills N.H	Coastal mountain	BeactyManna Sports	-{-	-∤5	4-	╂─	╂	ğ	ł
	South Mombasa Coast	Kisita Marne N.P.,	Coral reet	BeactyManne Sports	+-	-}	+-	+-	╂	3	4
7	South Mombesa Coast	Moungun Manne N.R.,	Coral reel	BeactyManne Sports	+	+-	╁╴	t	†	7	H
	2 Mombasa Coast	Mombasa Manne N.P Mombasa Manne N.R.	Coral reel	Beach/Marine Spons	-†-	†	†	T	1	8	ì
	2 Mombasa Coast 3 Maindi Coast	A/abuko Skoke N.P.,	Coastal dena	Saları	+	+	†	è	1		ì
	3 Matroi Coasi	Malno Marne N.P.	Coral reel/islands	Beach/Marrie Sports		Τ	\mathbf{I}^{-}	Ι	\mathbf{I}^{-}	Ø	J
	3 Maino Coast	Watanu Marne N.P	Coral reel	BeactyMarine Sports		Ι		L		8	Ц
	3 Malindi Coast	Maind Marne N.K.	Coral reel	Beach/Marine Sports Beach/Marine Sports	\perp	1	工	工	1_	l G	H
	3 Maindi Coast	Watanti Manne N.H	Coral reel	Beach/Manne Sports	- -	4	1	+	+	I	Ц
	4 Carru Coast	Has Tenenwi Marne N.P.	Coral reel	Beact/Marine Sports		+	╄	+	+-	Le)
~7	5 Northern Coast	ROUNH.	Coestal plain	Safari	4-	-1-	╁	19	4-	Ō	Ų
_7	5 Northern Coast	Dodon N.H.	Coastal Hivenne plain	Safari Beactymanne Sports		+-	+-	Ω	4	占	4
	5 Northern Coast	Kunga Manne N.K.	Coral reel	Salari	+	ta	, 	+	+	₩.	ź
	1 Chyulu	Chyoru N.P., Tsavo East N.P.,	Volcanic Ungin Seasonal flood planvdelta	Salan (Mudanda Hock)		╌╁┺	+	18	to:	†	1
	2 Easlem Isavo	South Kasul N.R.,	Seasonal flood planydella	Salari	-†-	+	T	12		1	-
	Z Eastern Isavo	Ngai Noethya N.H.	Seasonal flood planydella	Salari	+-	1	1	13	けぐ	1-	-
q	Z Eastern Tsavo	Tsavo West N.P	Volcanic Ungin Mountain	Spring/Safari	-1-	┰	1	Tã	1	T	7

2.1.3. Tourism Resources of Flora

Grassland, bushland and shrubland represent the majority of vegetation in Kenya. Other vegetation types create rare vegetation zones and attractive and interesting forests, trees and flowers for tourists with special interests.

The Central, Western and Coastal Tourism Regions offer a variety of vegetation and attractive and interesting species to tourists.

The other five tourism regions have mostly of arid and semiarid vegetation zones of grassland, bushland and shrubland areas. Compared to the above mentioned three tourism regions, this vegetation is vast.

The coastal forest and the guineo-congolean rain forest in the Coastal and Western Tourism Regions are the habitats for endangered species. These areas have interesting resources for tourists with special interests.

Figure A. 14 General Vegetation in National Parks/ Others

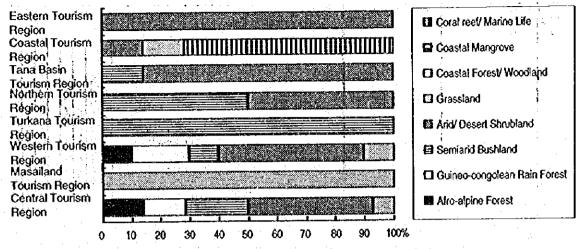


Figure A. 15 Attractive and Interesting Resources of Flora

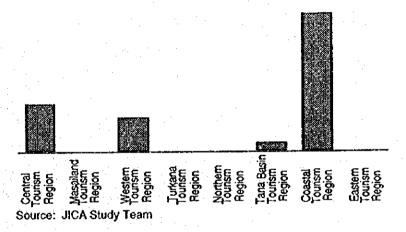


Table A. 68 List of Tourism Resources (Flora)

	m Area	Name of Park and	FLORA								
oda O	Name	Heserve	General Feature of Vegetation								
•	real to			Т	ı	Г	Г		7	Γ-	7
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			General Feature	ğ	8	12	75		S	3	
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			. –	녆	8	Ì	E	3	ॿॖॗऻ	3	
			O Specifc	Airo-alpine Fores	Sunea-gongolean Hain Fores	Semi-and Bush Land	Vid / Dessert	Grassland	Coastal Forest/Woodland	3	,
W	Nairobi	Nairobi N.P.,	Highland devit forest/Fire Induced habitat	鬠	۲	O O	۴	K	21	2	
	Cake Nakuru/Navasha	Helis Gale N.P.,	Evergreen/semi-evergreen bush land	H	Н	ă	1		М	Г	٠
	Cake Nakuru/Navasha	Lake Nakuru N.P	MarsivGrassland/Acadia woodland				ō	Q			•
	Cake Nakuru Navasha	Longono(IN.P.,	Woodland in the Craters				匚				
	Mt. Aberdare	Aberdare N.P	Afro-afpine moorland/Forest	ĮΦ	₫	<u>L</u>	ļ	Ц	_	<u> </u>	
	West Samour West Samour	Laixipia N.H Maralai N.S	And thorn bush fand/woodland	▙	!	├-	9		┝╼┦		•
	East Samburu/Somaha	Buttalo Spring N.H	And them bush land/woodland	1-	-	-	3	H	┌┤		٠
T 5	East Samouru Somalia	Samburu N.H	And thom bush land/woodland	1	1	H	ŏ	Н		 –	•
	East Samburu/Somalia	Shaba N.H.	And from bush land/woodland	1	1	<u> </u>	lō				
16	ML Kenya	Mount Kenya, N.P.,	Alro-Alpine woodland/moorland	10		Ō					
	EmbuMuranga	rourieen Falls N.P	Riverine vegetation	ļ.	9	O	<u>_</u>	L		L.	
	Embu Muranga Embu Muranga	OFDonyo Sabuk N.P., Mwea N.R.,	Highland dry forest Semi-and wood/bush land/And thom wood/bush/grassland	╀	P	┰	Ō	 -		-	-
ŹΪ	Ambosen	Amoosen N.P.,	Grassland/alkaline asiVand thorn busiVAcada/Swamp	┿╾	┢╾		14.	ō	-	-	:
23	Masa Mara	Masai Mara N.H	Semi/evergreen bush land/semi-and wood/bush/grassland	╁	┢	© ©	-	ă		-	
	Southern Victoria	Huma N.P.	Grassland lire-induced	Ť		ि	T	•			
	Northern Victoria	Notere Island N.P		Е	0			Ō			
	Northern Victoria	Kakamega N.H.	Highland moist forest	L	9	Ø	_	Ц.		L.	
	Mt. Elgon Mt. Elgon	Mount Eigon N.P., Salwa Swamp N.P.,	Afro-alpine moorland/Highland moist forest/Botanical Interest Permanent swamp/Tropical rain forest	19	(O	١	┞-	ļ			•
	Pokot	Nasokot N.H	And thom bush land woodland	╁┈	177	l	1	-		-	-
35	Rift Valley Lakes	South Turkana N.H.	The state of the s	╅╌	┢╌	H	12	╌		H	•
36	Hiff Valley Lakes	Kammarok N.H.	And thom bush land/wood/and	1	<u> </u>		ō	1		_	٠
36	Hill Valley Lakes	Keno Valley N.H	Arid thom bush land/woodland	L							
	Hill Valley Lakes	Laké Bogoria N.H., Sibiloi N.P.,	Alkaline ecosystem/And thorn bush land/wood and	╄-	Ļ.,	ட	P	_		-	•
	Norinem Turkana Mkd Turkana	Central Island N.P	Dry semi-desert bush/near desert	╀	ļ_	물	Q	!			
	Southern Turkana	South Island N.P		╀	╁╌	X	1-	┝╌	Н		•
	Marsabri	Marsabit N.P	Highland dry lorest evergreen/semi-evergreen bush land/semi-and bush land	†	 -	Ìā	ð	-	-1		٠
	Marsabit	Marsabit N.R.,	Highland dry lorest evergreen/semi-evergreen bush land/semi-and bush land	E		ē	Ĉ O			L	,
52	Losai	Losai N.H.,			Г	Ø	10				
	Maxa Westem Tana Başın	Maka Mari N.P Kora N.P	Semi-desen/And thom bush land/woodland And thom bush land/woodland	╄	_	Ļ		Ō		-	•
	Western Lana Basin	Menu N.P.	And violin dush and woodand Bush/Hivering Torest/Ngara Torest	-	톭	Q	15	┞	Н	-	-
	Western Tana Basin	Bsanad N.H.	And thom bush land woodland	1-	C	4	12	 - -	⊢┤	-	•
61	Western Tana Basin	North Kasui N.H	And thorn bush land/woodland	†=	H	ř	ă	1	М	_	•
	Western Tana Basin	Hanole N.H.,	And thom bush land/woodland	İ	L	ō	Įő				
	Easiem Lana Basin	Arawale N.H	And thom bush land/woodland	L	匚	Ó	1		П	Ĺ	
-11	Easiem Tana Basin	Tana Hiver Primate N.H	And Inom bush land/woodland	╄-	۴.,	Ļ.,	J.	Q	_	-	•
	South Mombasa Coast South Mombasa Coast	Snimoa Hilis N.H	Coastal forest/woodland/Fire induced habitat Marine ecosystem	 	-	ļ	╂	Ω			
	South Montaga Coast	Moungui Manne N.R.	Marine ecosystem	╁╌	⊢	┢	╂╼	┢╾	Н	-	۰
	Mombasa Coasi	Morricasa Manne N.P.,	Marine ecosystem	╈	┢	┢	┢	┢		_	٠
	Mombasa Coast	Morribasa Marine N.H	Marine ecosystem	\mathbf{L}	Г	Γ	Γ				
	Malindi Coast	Arabuko Skoke N.P	Coastal region tropical forest(Forest Concervation Project)			Ĺ	匚	Q		_	
	Malindi Coast Malindi Coast	Maindi Manne N.P Watamu Marine N.P	Marine ecosystem Vangroves/marine ecosystem	 -	 -	┡	╄-	 	 	-	;
	Maind Coast	Marnor Marne N.R.	Varine ecosystem	+-	╀	₽	 	! —	⊢ŀ	Ĉ	
	Malindi Coast	Watamu Manne N.K	Marine ecosystem	╁	╁	H	t	- -	┉┦	-	
74	Lamu Coast	Has Tenenwi Marine N.P.	Marine ecosystem	1	t-	i	t-	1	\vdash	Ĉ	
	Northern Coast	BOY N.R.,	Groundwater/riverine lorest/lire induced habitat	1	1	Ľ			Ó	_ً	
	Northern Coast	Uddon N.R.	Fire Induced habitat/rivenne lorest/And thom bush land/wood and/Gro	4.	L	Γ	ō		Ô		
	Northern Coast Urwau	Kunga Marme N.R., Chyulu N.P.,	Vangroves manne ecosystem	F	 	ļ_	+	_		Q	į
	Easlem Isavo	Isavo East N.P.	And from bush land/woodland/int, lorest And from bush land/woodland	╂	Ͱ	₽	摆	Ō:	\vdash	-	-
	Eastern Tsavo	South Kasui N.H.,	And from bush land/woodland	╂╾	┢╌	┢╌	摆	景		-	
	Eastern Isavo	Ngai Ndelhya N.H	And from bush land/woodland	 	 	† ~	١X	Š	┟╼┥	\vdash	
	Western Isavo	Išavo Wesl N.P	And thorn bush land woodland							۰	

2.1.4. Tourism Resources of Fauna

The wildlife fauna in Kenya is well known to be one of most attractive and famous tourism assets in the world. Especially, big wildlife mammals are the most important tourism resource for international tourists coming to Kenya.

Among wildlife mammals, big carnivores and herbivores are the most interesting and attractive species for international tourists.

Elephant orphanages, observation decks, huts for night-time mammal watching and research centres are also interesting facilities for tourists.

Endangered species among mammals, birds and other insects are interesting resources of fauna for tourists with special interest, i.e. bird watchers and researchers.

Masai Mara, Tsavo East, Nairobi and Meru National Reserves and National Parks are assessed to offer the most attractive, interesting and diversified species of attractive fauna for international tourists.

The most attractive fauna resources in the tourism regions are to be found in the Masailand Tourism Region. The Central and Tana Basin Tourism Regions are assessed to have the second most attractive fauna resources.

Figure A. 16 Diversity of Mammal Species

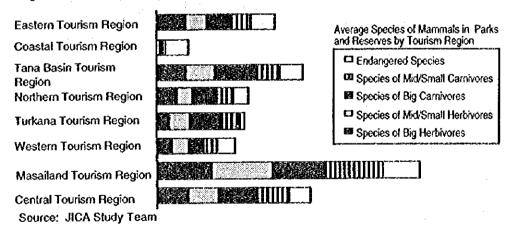


Figure A. 17 Diversity of Other Fauna Species

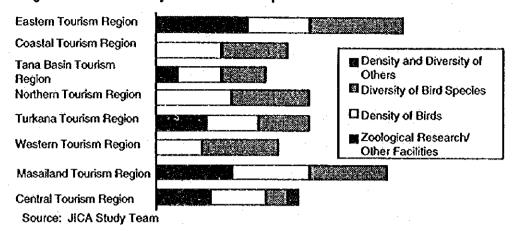


Figure A. 18 Average and Most Attractive Resources of Fauna by Tourism Region

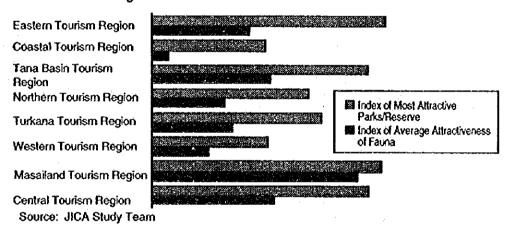


Table A. 69 List of Tourism Resources of Fauna

	sm Area		EAUNA	_			ж.								
000e	Name	Reserve	Observatories Consider/Continion	S۴	Ωė	cal.	ىخا	no.	tion	S_	٠	Bī	त्व		Γ
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							_		li	ă	Facilities	1			Constitution of Attractiveness of Fauna
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		. 1		Big Herbwores	Species of Mid/Small Herby	Camivores	3	Species		#	rctvOther		Species	\$	ΙĒ
	· ·			象	3	Ę	s of McCSmail C	8	Species	Interesting M	뛽	_		Oversay	٤
				支	휳	of Big (,	Mammal	3	H	Aasaan	Sirch Sirch	꾪	Õ	B
				5	5	8	ō	复	Endemogered	3	роборся	8	Ö	8	8
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- 31	Nairooi	Nairobi N.P.,	Birds Black Bhigocoms Chanier's Mountain Read ack)	7	$\frac{4}{2}$	4	4	3	7	į	7	Н	-	Н	胁
	Lake Nakuru Navasha	Hels Gale N.P.	Birds (Leomargeyer) Flamingo-Sanetuary/Rothschild's Girafia Introduced (Black							5		Ť	Ш	-	5
12	take Nakuru/Naivasha	Lake Nakuru N.P	Rhinoceros)	3	3	3	3	3		3	1	2			Ľ.
_12	Lake Nakuru/Naivasha	Congonal N.P		3	2	3	1	2		Ž.	Н		H	Н	<u>7</u> 3
13	Mt. Aberdare	Aberdare N.P	Observedon lodges/Elephant/Black Ptrinoceros/Eastern Bungo/Wide- strew)	2	2	2	3	3	4	2	2		1	ŀ	
-14	West Samour	такора и.н.	(Elephani/Grany's Zebra)		ם ו	8	8	8	2	U					
14	West San our	Maraia N.S.		Q.	Q	Q	ĻŲ.	Ų	 - -	Ψ.				-	ŀ¥.
- 15	East Samburu/Somalia East Samburu/Somalia	Bullato Sonng N.H Samburu N.H.	Onja (ElephanikGranj's Zebra)	1	₩.	4	4	4	2 2 2	4	-		\vdash	Н	ľЗ
- 13	Last Samouru Somalia	Snaca N.H.	Oryx Cheelaf/Croscodie (Etephan/Gravy's Zebra) Oryx Cheelaf/Capaid (Etephan/Gravy's Zebra)	3	3	4	4	14	2	4					13
16	ME RESIVE	MOUTE KERYA TEP POUTE ENTRAIS N.F	Ory w Cheetah Leopard (Etephant Gravy's Zebra) Repties (Elephant Mole shrew Lestern Borgo)		7	12	4 0 0	13	ш	Depart of the	—		Щ	Щ	ιZ
- 77	conocidentes de	reungerrans N.F.	Leocard Butterfly (Black Shinocaros)	7	¥	ŀ¥	H	₩	 	₩	-		-	1	挫
-17	Embu/Muranga Embu/Muranga	Or Donyo Saouk N.P., IAwea N.H.	O. M. L. Strakes	ታ 3	1	3	Ō	Ħ	\mathbf{t}	3		\mathbf{I}	П		12
21	Ambosen	Ambosel N.P	Elephanti The Amboset Sabson Reserch Project/NMK)	3	4	3	4	4	<u>[]</u>		L	1	1	L	
23	Masai Mara	Masai Mara N.FL.	ngrein i Bennan Eleghanf i the Amboset Saboon Rosarch Project (MR) Wild Dog Chaefah-Graat interation (White Black Stringgeros/Elephant/Charler's Mountain Readtack)	4	4	4	4	4	4	4	1				4
32	Southern Victoria	Huma N.P.	Leopard Bullefor Rothschild's Graffe introduced (Roza antelope)	2	Т	Т		Ħ	n	Ţ					П
- 33	Northern Victoria	Mara saw N P.	Impains in traduced	立	Q	Q	Ţ	ΙQ		7		<u> </u>	_		ĮŲ
	Northern Victoria	Xakamega N.H Mourr Edgor N.P Sarva Swamp N.P	Skrås (De Brazza's Monkey) Leopard Birds (Elephant African Golden Cat/Golden Mole)	H.	H	14	H,	H	13	IJ	₽	1.	ł¥	┢	H
- 34	MI, EGOI MI, EGOI	Sarra Swamp N.F	Bude (Sitehungs De Bruzze's Workey)	Н	lf	t	lf	ŧ۴	3	3	<u>t-</u>	_	tt		tt
77.	Dokol	Nasolot N.H.,	Buds (Sitatynga De Brazza's Workey) Robischild's Graffe (Etaphant/Black Rhinoceros/Lesser Kudu)	Ť	12	12	Q	Ц	13	K				Į.	18
35	Hin Valley Lakes Hin Valley Lakes	South Turkaria N.H., Kammaruk N.R.,		Ι¥	ĻΫ	ŀÄ	Ì	ł¥	17	H	 			┝	ł¥
30	Fill Valley Cakes	Keliu Yaliey N.H	(Golden Mole) (Golden Mole)	╁	H	16	Н	to	11	1	┢╾			<u> </u>	扠
. 30	Pant Valley Cakes	Cars Dogona N.R.	Flammood Creater April Grepter Kurku' Cheelah Crocodie Sad-	Н	12	.2	3	U	-		-	12			
41	Northern Turkana	Sibiloi N.P	Greater Kudu/ Cheelah/Crocodie-Sad- Skimmer/Archeological/prehistoric Harlage (Grevy's Zebra)	2	lэ	4	3	13	111	3		1	1		3
42	Mid Turkaria	Central Island N.P.	Grocodies-Breeding covines	σ	ū	1	0	Į	†	U	П			L.	H
- 13	Soulnen Turkana Warsabit	South Island N.P. Marsabil N.P.	Coxe	4	Ц	I,		H	Ι-	H	-	4	₹	μ.	н
<u> </u>	Marsabit Marsabit	Marsabit N.P.	Orania: Kudul sinicaroava: Bird (Gizor's Zabra) Grania: Kudul sinicaroava: Bird (Gizor's Zabra)	Н	H	13	3 9	H	H	Ž	╁╾	 	H	H	
-52	Losa -	LOSAI N.H.	(Gravy's Zebre)	Ō	Q	Ō	Q	Tō	Π	П	Г				Ю
	Marka	Wanta Men No.	(CVAVY) (Abra)	Ŋ,	П	Ų	Ю	t2	H	먯	-	1	١	-	₩
	Western Tana Basin	Kora N.P.	8r6	Ž	4	3	4	14		1		计	┢┷	╂-	17
	Western Tana Basin	Meru N.P.,	Leopard/Cheatah-Else's Cemp (Black Ritinocaros/Gray)'s Zebra/Elephant)	3					_		Ľ	L	_	L	
01		DSJIBOTN.K.		IJ.	K	4	Ц	12	!	Ŧ	 			- -	析
61		NORT KASU N.B PAYOR N.H	Croco-Sa)-Epopodamus Crys (Crovy's Zebrs)	Н	lδ	3	8	ťδ	h	ľ	t	<u> </u>	L	t	8
63		Arawale N.R.	Hunters hadebeest (Elephant/Grevy's Zebra/Hillora) The Tane River Project(NMK)	2	2	3	1	ĺ		2	Γ			Γ	2
			Project(NMX)	_	┡	┡	_	╄	₽-		 	<u></u> -	<u> </u>	⊢	
63	Eastern Tana Basin	Tana River Primate N.R	Birds (Tana Paver Colobus/Tene Paver Wongabey De Brazza's Monkey Zanziber Gelago)	3	3		3			3	L	1	1		3
71	South Momeasa Coast	Shimoa Hills N.H.	(Elephani/Sable antelope/Zanz bar Galago-Eastern (rea Hyrax)	T	7	7	3	12	14	8	C		Ę	C	К
<u></u>	South Mombasa Coast South Mombasa Coast	Kisaa Marrie N.P.,	Dolphica-See Bird Marice Aquatics	X	ŀΫ	ŀŘ	×	Ю		×	-	-}-	H	┪	łΧ
	South Mombasa Coast	Mpungut Manne N.H	Sea Bird'Varine Aquatics Marine Aquatics	9	ΗX	ł#	8	Η	Tʻ	Ю	H	┞┸	┵	-	18
	MONOESI COSS	Montesa Manie N.n.	Marine Aquatics	ĽĎ.	Ŭ	ĽĎ	Ŭ	Ľ		¥					ш
73		Arabuko Skoke N.P	Mairie Aguatos Birds (Schalle Bushy Tailed Monocosa Ader's Duckler/fackten Eaghant Shraw/Sokoka Saops Owl)	1	l٥	lò	0	ÌÓ	14	Ö	1	1	1		1
	Malindi Coest	Maind Marine N.P.	Marina Reserve	ᇂ	k	ስ	ō	ta	† ~	ю	t	—	1	i	
/:	Mario Coss	Traignumane N.P.	Marine Aquatics Marine Aquatics (Dupong)	Ť	ĽĎ	ĽΫ	ĽĎ	ď	1	т	т-				8
	Mairio Coast	Marks Mark & M.M.	Marine Aquatics	8	ĮΫ	ĻΨ	Я	Įβ	 - -	R	H	<u> </u>	<u> </u>	 -	Ю
	Matinu Coast Lamu Coast	Watamu Maline N.H Has Tenenwi Maline N.P.	Marine Aquatics Sea Br & Marine Aquatics (Decoratorson Jurie Fleshand)	-	Ю	t¥				Ю	t-	1	T	t	10
	Nornem Coast	Bon N.H.	(Syke's Monkey/Ader's Ouckier/Golden Elephani Shrew)	đ	ΓŎ	Ō	Lō	O	j	O			匚		ĪΦ
. 73	NOTHER CORST	DOOM N.A	Birde (Syke's Monkey/ opinstephanitiesser Kudu)	Щ	W	Ь¥	H.	1-7	14	₩.	-	H	H	-	₩
-	Normeni coasi Chyuu	Kunga WalitiShin Chylu N.P	(Syku's Monkay/Adar's OudkienGolden Elephant Shrew) Birde (Syku's Monkay/Lopis tephantilesser Kudu) Sen Parts-Money Adaptis (Indonnatives as Jurdie) Bullata Etandidaraster Kudur Birds (Elephantilisch Shinoceros)	3	tδ	ď	Ш	Ħ	tź	Ш	Ĺ	ď	ď		Ħ
	Eastern Tsavo	Tsavo East N.P.	Buffajo/Cheetah/Buds/Elsphant Orphans/wildite R, Center(Wild Dog/Elsphant/filtin)	3	4	_	4	_	_	4	2	<u> </u>	1	Γ	4
	arcastem isavo	I savo casi ur	Dog-ElephenMfirefa)	J						17	ء ا	ŀ		L.	
		<u> </u>		-	**	7	77	~	TT	77		₩-		Т	TT
- 87	castem isavo	SOURT KRISOT N. H Nga Tvoediya N. K	(Elephani)	Ą	Я	8	Ş	l	H	Y,	-	F	F	F	X

2.1.5. Natural Tourism Resources

The potential natural resources for attracting international tourists to a defined tourism region are assessed relative to attractive sceneries and scenic spots, opportunities for sports and recreational activities, attractive and interesting vegetation and attractiveness of wildlife.

The Central, Masailand and Coastal Tourism Regions are assessed to be the most resourceful tourism regions. The Western, Turkana, Tana Basin and Eastern Tourism Regions are assessed to be the second most resourceful tourism regions.

The Central Tourism Region offers a variety of attractive and interesting sceneries, scenic spots for sightseers, and a variety of sports/recreational opportunities. These resources will be a potential for establishing a gateway to East Africa.

The Masailand Tourism Region offers a variety of densely populated wildlife resources. It is a most attractive wildlife safari destination for international tourists. The balance and harmony between the natural ecosystem, the local community and tourism are a big issue for tourism development in this region.

The Coastal Tourism Region has a variety of attractive and interesting sceneries, scenic spots on the coast and in the hinterland for sightseers, a variety of sports and recreational opportunities on the Indian Ocean beach and a variety of flowers and trees. These flora and fauna resources in the Eastern Tourism Region could be utilised to improve and expand beach resort tourism.

The Western Tourism Region has a tourism potential on a highland resort.

The Turkana Tourism Region has attractive lake and island resources for tourists with special interests.

The Northern Tourism Region has an arid and desert ecological zone, which is a resource for tourists with special interests. Improvement of accessibility and security are issues for tourism development in this region.

The Tana Basin Tourism Region has a potential for river sports, interesting vegetation and attractive wildlife for special interests tourists. Improvement of accessibility and security are also issues for tourism development in this region.

The Eastern Tourism Region has a variety of wildlife resources, which could be utilised to support the Coastal and Central Tourism Regions. The balance and harmony between the ecosystem and tourism are issues for tourism development in the region.

Figure A. 19 **Potential Natural Resources**

	Attractive Scenery /	Spots / Recreation on	Attractive and interesting Vegetation	Attractiveness of Wikilife (Mammals)	Attractiveness of Wildlife (Others)	Potentials of Natural Resources	Remarks:
1 CENTRAL TOURISM REGION							Variety of Scenerics and Parks/ Reserves
2 MASAILAND TOURISM REGION	\$ 19 3 - 2 2 - 3						Most Attractive Safari Destination
3 WESTERN TOURISM REGION	8 3 S				14 († 14) 14 († 14)		Highland/Mountain Resort
4 TURKANA TOURISM REGION							Attractive Lake/Island Resources for Special Interest Groups
5 NORTHERN TOURISM REGION							Arid/ Desert Climate and Ecology for Special Interest Groups
6 TANA BASIN TOURISM REGION							Potential for River Rafting/ River Safari for Special Interest Groups
7 COASTAL TOURISM REGION				\$ \$ \$ \$ \$ \$ \$ \$			Variety of Marine /Coast /Inland Resources for Beach Resort
8 EASTERN TOURISM REGION		5					Polential Resources for Salari
Most Potential Tour	_	on I	Potential	Tourism	Region		Other Tourism Region

Source: JICA Study Team

2.2. Historical and Cultural Tourism Resources

Cultural and historical resources in Kenya are represented by a variety of prehistoric, archaeological, historical heritage, culture and traditional arts and folklore.

Currently, 71 national museums and monuments are gazetted for preservation in Kenya. However, only 16 museums and monuments are utilised on a limited scale for tourism. The utilised facilities are distributed in the Central Tourism Region (7), Coastal Tourism Region (6), Western Tourism Region (2) and Masailand Tourism Region (1), as shown in Table A. 70 and Figure A. 19.

There are 141 major cultural and historical resources mainly located in the Coastal Tourism Region (52), Western Tourism Region (36) and Central Tourism Region (35).

The diversification of cultural and historical tourism resources is one of the most important measures to attract and develop international tourism in Kenya.

The improvement of historical and cultural resources could contribute to the diversification of Kenya's tourist assets.

The enhancement and upgrading of traditional dances, music, handicrafts are also important factors to diversify tourism activities in Kenya and attract more tourists.

Table A.70 Major Cultural and Historical Tourism Resources by Tourism Region

Tou	ırism Region	No. of Spots of Resources	No. of Museum/ National Monument	No. of Utilized Resources
1	CENTRAL T.R.	35	8	7
2	MASAILAND T.R.	4	3	1
3	WESTERN T.R.	36	14	2
4	TURKANA T.R.	10	1	. 0
6	tana basin t.r.	11	0	0
7	COASTAL T.R.	52	45	8
8	EASTERN T.R.	3	0	0
	TOTAL	141	71	16

lourism Area Region	Major Cultural an	National	Prehistoric	Condition c	Calegory	Period
		Monument	Site	Utilization	2: Architectural	
Nairobi	kalian Church - Kijabe .	 -				Storie Neclithic age
	Lukenya Hili				Archeclogy	Sant Sant San
	National Museum(main)	 		-		
	National Botarical Garden Children's Museum Natrobi	+				
	National Museum(snake)			•		
	N.M. for Science & Technology	 				
	National Art Gallery					
	Karen Bixan				History of Agriculteral Devit	
	Bornas of Kenya	+		•		
	6	1		4		
Lake Nakuru Nahasha	Gamble's Cave	•			3: Archaeology	
	Kariandusi	•		•	3: Archaeology	
	Lanel	•			3: Archaeology	
. 1	Нутах Нії	•			3: Archaeckogy	Neciatric/Iron Age
	Certwidt's \$19				Antheology	Stone age
	Weathern's Ske		L		Antheology	Stone age
	Nalvasha Ratway Rock Shelter				Archeology	Stone age
	Rock Sheller		L		Anteology	Stone age
	Crescent Island			<u> </u>	Archeology	Neolithic
	Enkapurie ya Mulo				Archeclogy	Stone age
	Prospect Farm		ļ	.	Archeology	Stone/Neolithic Neolithic
•	ikek				Autheology	Neo#Inic Stone age
	Gambe's Cave				Archeology	Stone age
	Noert Oriff				Archeclogy	Neoligiic
	Prolonged Drift			┦──	Archeology	Neolitric
	Nioro River Cave		├ ──	 	Archeology	Nec it ic
	Nakuru Rurial Sha			-	Archeology	iron Age
	tanel				Archeology Archeology	Stone age
	Lion Hall Cave				Archeology	Acheulean Archeolog
·	Kariandus)		ļ	1 2	- NO 400-097	
			<u> </u>		Archaeology	Iron Ape
3 ML Aberdare	Galara Forest			-	Archaeology	Iron Age
	Gatunganga Nyeri District Museum		 			
	Nyen transcriber					
4 West Sambur	Kenyatta House				3: Archaeology	
T Treat Control	Kisima Farm		1		Archeology	Necittric
	Jome Kenyalia Memorial Museum		T			
* * * * * * * * * * * * * * * * * * *	2	1	T	0		
15 East Sambury/Somali	Fock's Farm	T			Archeology	Rock An/Stone Aligna
	Lewo				Archeology	Stone age
	5	0		0		1
16 Mt Kenya	Grand Halls				Archeology	tron age
• • • •	1	0		0		
7 EmbuMuranga	Kwamboo				Archaeology	iron Age
	Meru Museum				Historical Architecture/	
	Neud Nicheke Museum		.			
	Embu District Museum					
1.15	Madiakos District Museum					
				 		
I CENTRALTA	35	- 6		 	2: Authliectural	Iron Age
21 Amboseň	Wells and Stones- Serengel		4		Z. AJUNGCUIA	11017730
	Kajado District Museum		.	 		
	1	- -		 	3. Archaeclogy	Prahishote (600,000y)
22 Mid Misafand	Olorgesañe	1 7		+	J. AC-85(-03)	
	Alas an work				Archeology	Neolithic
23 Masai Mara	Ngamuriak Namsura	-			Archeology	Neciatio
	New Street		+	 		
2 MASAKANDTR		 	1	- 		
31 Kericho	Fort Teman		1		4. Palaeoniology	1
V, 18:00	Brooks Quarry	-	1		4. Pataeoniology	
	Chemogoch				4. Palaeonkology	
100	Songhor		1	1	4: Palacontology	
1.	Kaputay		- 	-	4. Palaeoniclogy	1
	Keringi Cave				Archectory	Necifinic
	Kapkures		┪──		Anthaeology	Iron Age
	Turnel Rocksheiter		1	 	Archeology	Necitic
0	Chemangal		1	1	Archaeology	Iron Age
	Kericho District Museum	_	1	-1	1	
A Company	9		1			

Figure A. 20 Major Cultural and Historical Tourism Resources (2/3)

	Name	National Monument	Prehistoric Site	Condition of Unitization	Category	Period
32 Southern Victoria	Thirdich Ohinga		77-20	Outgabor	2: Architectural	irod Age
•	Kanain			- 1	4. Palaeontology	Stone age
	Karyera				4. Palaeontology	Stone age
	Got Chaki				Archeology	
	Gogo Falls					Rock Art/Stone Alignme
					Archaeology	Iron Age
· · · · · · · · · · · · · · · · · · ·	Www.adviHil				Archaeology	Iron Age
•	Mangano Island				Archeology	Rock ANStone Alignme
39 Northern Victoria	Mygurik	- 3			3: Archaeology	
as two trains excitate		╅		 -		Stone Age
	Songhor				Archeology	Stone Age
	Ya'a Ale				Archeology	Stone/Iron Age
	Urews				Archeology	Stone/Iron Age
	Kisumų Musėum			•	History/Trackons/Snake Park	
•	Kakamega District Museum					
	Rusinga Site Museum(Island)			[
	5	1-1				
34 Mt. Elgon	Chelambe's Fort	•			2 Architectural	Ima Age
	Muthanda Fort	 			2: Architectural	
		 		 		Iron Age
	Tambach				Archeology	iron Aja
	Ndalat Fül's				Archeology	Rock Ast/Stone Alignetic
	Kakapeli			L	Archeclogy	Iron Age
	Kmothen	T			Archeology	Rock Art/Stone Afgrume
	Chabitryiny Rockshelter	1			Archeology	Stone Age
	Murriga Rodisheller	 				
4					Archeology	Stone Age
	Mcten				Archeology	Iron Age
	Kitale Museum			•	Outland/Traction of Western K	anyan şeople
gar a se	10	2		1		
6 Lat Valley Lakes	Kilonibo	-			3: Archaeology	Stone Age
	Kaçêrîn				Archeology	Stone Age
	Музакуи					
					Archeciogy	Necidhic
	Chesowanja				Archeology	Stone Age
	Deforain's Farm				Archeology	trod Age
	Baringo District Museum	T				
	5	1		0		
3 WESTERNTR.		12		2		
11 Northern Turkana	Stato		7411-1027		4: Palaeontology	100 200 200 200 100 100 100 100 100 100
	Koobi Fora	1			Antheology	Stone/Neolithic Age
· .	Beret		l	 -	Archeology	
						Neolithic
	Karari				Archeciogy	Stone Age
	4	1 1		0		
12 Mid Turkana	Kalckal	7			Archeciogy	Rock Art/Stone Alignme
	Aceast				Archaeirear	
	Apeget Locov				Antheology	Neoficia:
	Lopey				Archeology	Neolitric
	Lopey Loft-agam					
	Lopoy Lothagam Turkana District Museum				Archeology	Neolitik
	Lopey Loft-agam	0		0	Archeology	Neolitik
t3 Southern Turkana	Lopoy Lothagam Turkana District Museum	0		0	Archeology Archeology	Noolidiic Stone Age
13 Southern Turkana	Lopey Lothagam Turkana District Museum	0		0	Archeology Archeology Archeology	Neolidiic Stone Age Stone Age
13 Southern Turkana	Lopey Loft-agam Turk and Detrict Museum Lowasera Surima Waterfall				Archeology Archeology	Neolidiic Stone Age Stone Age
13 Southern Turkana 4 TURKANA ER	Lopey Lothagam Turkana District Museum 4 Lowasera Surima Waterfall 2	0		0	Archeology Archeology Archeology	Neolidiic Stone Age Stone Age
	Lopey Loft-agam Turk and Detrict Museum Lowasera Surima Waterfall				Archeology Archeology Archeology	Neolidiic Stone Age Stone Age
43 Southern Turkeria 4 Turbicana T.R 5 NORTHE EASTERN TJ	Lopey Loft-sparm Turkana District Museum 4 Lowasera Surima Waterfall 2 10	0	No. of the Edwards	. 0	Archeology Archeology Archeology	Noolidiic Stone Age
4 TURKANA T.R 5 NORTHE EASTERN T.	Lopey Loft-sparm Turkana District Museum 4 Lowasera Surima Waterfall 2 10	0	N3CM31220000		Archeology Archeology Archeology	Neolidiic Stone Age Stone Age
4 TURKANA T.R 5 NORTHE EASTERN T.I 61 Wastern Tana Rosin	Lopey Lothagam Turkana District Museum 4 Lowasera Surima Waterfall 2 10	0		. 0	Archeology Archeology Archeology	Nocific Stone Age Stone Age Rock At/Stone Alignme
4 TURKANA T.R 5 NORTHE EASTERN T.	Lopey Lothagam Turkana District Museum 4 Lowasera Surima Waterfall 2 10	0		. 0	Archeology Archeology Archeology	Nocific Stone Age Stone Age Rock At/Stone Alignme
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4 TURKANA T.R 5 NORTHE EASTERN T.I 61 Wastern Tana Rosin	Lopey Loft-sparm Turkana Destrict Museum 4 Lewasera Surima Waterfall 2 10 R Manaral	0	N.C. Williams	. 0	Archeology Archeology Archeology Archeology Archeology Archeology	Noofetic Stone Age Stone Age Rock Art/Stone Alignme
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4 TURKUNATR 5 NORTHE EASTERN TJ 61 Western Tana Basin 52 Wid Tana Basin 53 Eastern Tana Basin	Lopey Lothagam Turkana Detrict Museum Lowasera Surima Waterfall 2 10 R Mararal Menu Garissa District Museum Wanie	0 1	37-11-21-11-11-11-11-11-11-11-11-11-11-11-	0	Archeology Archeology Archeology Archeology Archeology Archeology	Noofetic Stone Age Stone Age Rock Art/Stone Alignme
4 TURKANATR 5 NORTHE EASTERN TS 51 Western Tana Basin 52 Mid Fana Basin 53 Eastern Fana Basin 6 TANA BASIN TR	Lopey Loft-sparm Turkana District Museum 4 Lowasera Surima Waterfall 2 10 R Manaral Manu Garissa District Museum Umanie	0 1	NC WITE DOMESTIC	0	Archeology Archeology Archeology Archeology Archeology Archeology	Noofetic Stone Age Stone Age Rock Art/Stone Alignme
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Figure A. 20 Major Cultural and Historical Tourism Resources (3/3)

fourism Area/Region	Nome	National Monument	Site	Condition of Utilization	corate.	Peño d
2 Monbasa Coast	Fort Jesus	•	2000	03200	1: Manumental	13-19th Century-Portug
e worlday coose	N. Marine Aquarium/Science C.	- -				
	Mbaraki Pilar	•			3: Archaeclogy	
	Nossa Driziora Watch Towar	-			1; Monumental	
	Portuguese Shipwreck	-			1; Monumental	
	Ksausi Bell Tower	-			1: Monumental	
	KSZ Myczani			•		
	Juna Minaga Mina			- - -	1: Monumental	·
	Ambe La Missira				1. Monumental	Iron Age(Swahii)
	Knai			-	1. Monumental	
	Takeungu				1. Monumental	
	Moarsoi				1: Monumental	
					1; Monumental	
	Taksungu North		···		Archeology	Chan Inc
	Morges					Stone Age
	Santo Anlonio de Tanna			L	Archaelogy	iron Age
	14	- 11		3		
3 Malindi Coest	Mugangani(mosque)	•		ļ	1: Monumental	
	(Oklepwa Island(mosque)	•		<u>L</u> i	1. Monumental	
	Shekh Othman	•	<u> </u>	!	1: Monumental	
	Watamu	. 0			t: Monumentali	
	Shelth Said	•			t: Monumental	
	Ge/S	•	i	•	1. Monumental	islamic
	Vasco da Garna's Palar	•	ì — — —	•	I; Monumental	
	Fortuguese Church	•			1: Monumental	
	Jamadari Mosque	0		 	1: Monumental	
	Arina Mosque	1 -	 -	 	і: Монитепіа!	
	Manbrui	-		 	1: Monumental	
	Old DO's Office(Mashdi)	-1		 		
	11			2		
74 Lamu Coast	Staka	:-		 	f: Monumental	
ru Lamo Coast					1. Monumental	
	Waungwana	-		 	1: Monumental	
	M*ara	•		ļ		
	Ras Ya Mwana Mwali Sabaa		ļ	 	1: Monumental	
	Luziwa	•		ļ	1: Monumental	
	Rischo Pillar		1		1: Monumental	
	Luma House			L	t: Monumental	
	Lamu Museum		L	9	Swahali Cultura	
	Manda	•			1: Monumental	tron Age
	Takwa and Siyu	•	T	•	1: Monumental	iron Age
	Ungwara				Artheology	Iron Age
	11	9		1		
75 Northern Coast	Pate		1		t: Monumental	
•	Siyu		 	†	1; Monumental	
	Faze		†	†	1; Morumental	
	Ras Uwani		 -	 	i, Monumental	
	Orcard		 	 	1: Monumental	
	Manibore		 	 	1: Monumental	
			 	 	1. Monumental	
	Kanga		 	 	Worlymental	
	Ishakani		}	ļ		iron Age
	Shange		 	 	Archeciogy	900 AS8
	9	- - 8	 	0		
1 COASTALT REGIO	And the second s	45		6		
B.E. Chyulu	Ngurgani			<u> </u>	Archeology	Iron Age
·	1	0	<u> </u>	0	<u></u>	
83 Southern Tsavo	Anda Dan	L	1		Archeology	Stone Age
	1	0		0	L	
64 Western Tsavo	Sarfasao		1		Archeology	iron Age
	1	0	<u> </u>	0		
8 WESTERN T. REGIO		0	1	0		

Note: Au shows respective tourism resources fall under column categories. Numbers in the same columns show the subtotals and total of resources that fall under the categories. Source: JICA Study Team

