

Assessment of Aesthetic Valeus of Old Oyo National Park

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Abstract The assessment of aesthetic values and a wide range of cultural and natural heritage resources in the Old Oyo National Park were investigated. These resources were classified into four ecotourism features. Their aesthetic values were carried out through objective (Expert 's judgement) and subjective (public preference) methods of landscape assessment. Descriptive inventory was carried out through transects walk while public preference involves administration of questionnaires to the tourists. On the basis of objective method, the four classified features were subdivided into four characters and tabulated against tourist elements. The ecotourism features scored on the tourist elements were analyzed using chi-square test of homogeneity; it was concluded that the ecotourism features do not score equally on the various tourist elements. The result of subjective method revealed that the fauna resources have the highest scenic attractions supporting diverse ecotourism activities. However, the result of the descriptive inventory revealed that the hydrological features consisting of Dam Lake, Rivers and their tributaries and hand dug well scored highest on the seven categories of tourism elements compared with other ecotourism features. This research output will assist the management of Old Oyo National Park in integrating aesthetic value assessments and implementation as part of the planning process.

Keywords Aesthetic values, Cultural heritage tourists, Natural resources, Old Oyo National Park, Objective , Subjective method, Ecotourism , Scenic attractions

1. Introduction

Assessment is a tool which can make a significant contribution to the objectives that relate to 'environmental protection' and 'prudent resource use' as corner-stones of sustainable development[1]. The assessment of the values attributed to heritage is an important activity in any conservation effort, since values strongly shape the decisions that are made[2]. Aesthetic values are considered as the most comprehensive and balanced typology[3]. Value has always been the reason underlying heritage conservation because it is self-evident that no society makes an effort to conserve what it does not value[4]. Heritage has been defined as our legacy from the past, what we live with today, and what we pass on to the future generation[5]. Our culture and natural heritage are both irreplaceable sources of life and inspiration. They are our touchstones, our points of reference, our identity. Therefore, we hold it a duty to protect and preserve these resources for the future generation. The United Nations Educational, Scientific and Cultural Organizations (UNESCO) seek to encourage the identification, protection and preservation of cultural and natural heritage around the world that are considered to be outstanding value to humanity.

Old Oyo National Park (OONP) is considered as a mixed heritage site with outstanding natural and cultural values that if explored could serve as basis for its enlistment on the UNESCO world heritage list as the first mixed heritage site in Nigeria[6]. OONP is a landscape that serves various purposes which include recreational site, gene pool of immensurable biodiversity and research laboratory for students and researchers in the field of archeology, anthropology, ecotourism, wild life, botany, zoology, ethnobotany and wild life. National parks and other protected areas have become popular destinations for nature tourism and ecotourism, both of which are rapidly becoming important components of the international tourism industry [7]. According to the World Tourism Organisation (WTO) ecotourism generated revenue of about US\$20 billion a year and, in combination with nature tourism, contributed to 20% of global international travel[7].

Landscape is about the relationship between people and place. It provides the setting for our day-to-day lives. It results from the way that different components of our environment - both natural (the influences of geology, soils, climate, flora and fauna) and cultural (the historical and current impact of land use, settlement, enclosure and other human interventions) - interact together and are perceived by human being. Subjective and objective methods of landscape assessment are good tools to be adopted in aesthetic values assessment. These methods referred to as public preference and expert judgment, respectively[8],[9],[10].

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Unfortunately, the management plan prepared for the OONP about twenty years ago did not incorporate values assessment in its planning and recommendations[11]. It is against this back drop that Nigeria National Park Service as a government body saddle with responsibility to oversee management of the seven National Parks in Nigeria is charge to emulate countries such as Australia ICOMOS, the United States National Park Service, Parks Canada and English Heritage who have developed integrated planning methodologies that incorporate values in conservation decision making . Planning approaches should integrate issues of values with other contextual considerations like available resources, legislative environment, as well as the more technical issues of physical condition. The underlying tenet is that a thorough, holistic and integrated analysis of all these considerations paves way for clear conservation policy that is sustainable in the long term[2]. Nigeria government should take a giant step to follow suit with the mentioned countries. Aesthetic value assessment can also serve as basis for carrying out Visual Impact Assessment since the management are predetermined the impact any of their proposed development will have on the ecotourism resources in the Park based on how these resources attracts the tourists and the expert judgment. Four steps are suggested for integrating value assessments and implementation as part of the planning process. The steps are creating statements of significance, matching values to physical resources and site characteristics, analyzing threats and opportunities, and making policies and taking actions[2]. Old Oyo National Park is being threatened by anthropogenic activities of the host communities[12]. Decision making and policy formulation for comprehensive resource planning and management of OONP would be enhanced with the availability of the assessment of aesthetic values of its natural and cultural landscape.

This study is therefore is considered as part of the step towards policies and decisions making gears towards ecotourism planning and formulating sustainable conservation policy.

2. Methodology

2.1. Study Area

2.1.1. Location, Size and Boundary

Old Oyo National Park is geographically located between North latitudes 8° 10' and 9° 05', and East longitudes 3° 35' and 4° 21', and centered on North latitude 8° 36' 00'' and East longitude 3° 57' 05''. The Park covers a land area of approximately 2,512 km² making it the fourth largest national park in Nigeria. Politically, it lies in Oyo State in the Southwest of Nigeria and borders Kwara State in the Northeast. It is surrounded by ten (10) Local Government Areas in Oyo State namely: Atisbo (Tede/Ago-Are)

3.4220E, 8.5420N), Atiba (Oyo) (3.9260E, 7.8400N), Irepo (Kisi) (3.8510E, 9.079N), Oorelope (Igboho) (3.7550 E, 8.8340N), Saki East (Ago-Amodu) (3.6100E, 8.6090N), Iseyin (Iseyin) (3.5760E, 7.9590N), Orire (Ikoyi) (4.1690E, 8.2700N), Itesiwaju (Otu) (3.3970E, 8.2110N), Olorunsogo (Igbeti) (4.1350E, 8.7450N), Saki West (Saki) (3.3860E, 8.6620N) and Kaima Local Government Area in Kwara State. Figure 1 shows the location of Old Oyo National Park and the adjoining communities.

2.1.2. Flora

Vegetation of the OONP has been classified as Southern Guinea Savanna[13]. However more intense studies by[14] classifies the Southern portion of the vegetation as Forest savanna Mosaic with wooded savanna containing relic of Moist Semi decidious forest ,grading northwards into drier Mixed Leguminous Wooded Savanna with a continuous lower stratum of perennial grasses. The vegetation was further analyzed and classified into four broad groups including Dense woodland and Forest outlier in the Southern portion and the North West corner, Mixed open savanna in the middle and North east portions, Outcrop vegetation in the hilly and rocky areas and Riparian grassland and fringing woodland and forest vary along major rivers and streams dominated[15]. The team of experts working on the management plan of the park described and recognizes four broad ecozones to include forest and dense savanna mosaic woodland of the park around Sepeteri axis designated as site A, dense and open savanna woodland mosaic in the central portion of the park, Dense savanna woodland, north of Igbeti-Kishi axis zone C and Open savanna woodland, North-east of the park (Oyo-Ile sector)[11].

2.1.3. Fauna

Animals like Lion, Leopard, Greater bustard, Spotted hyeana, Serval cat, Aadvark, Elephant, Buffalo, Kob, Waterbuck, Reed buck, Oribi, Roan antelope, Hartebeest Bush buck, Spotted hyena, Common warthog, Red river hog, Red flanked duiker, Bush buck, Mongoose, Maxwell's duiker, Patas monkey, Tantalus monkey, Olive baboon, Hunting dog and Mangabey were sighted in the OONP[16], [17],[11],[18].

2.1.4. Watersheds and Drainage Patterns

There are three watersheds in Old Oyo National Park: River Ogun and its numerous tributaries, River Tessi and its tributaries and River Iwa and its tributaries. Ogun River flows southwards to the Atlantic Ocean. Several tributaries notably Oopo, Iwawa, Oowe and Owu flow southwestwards and southeastwards join it before its exit from the park. The Tessi River flows northwards to the River Niger. Three main tributaries including River Soro join it before its exist from the park. The Iwa River flows northeastwards to the River Niger.

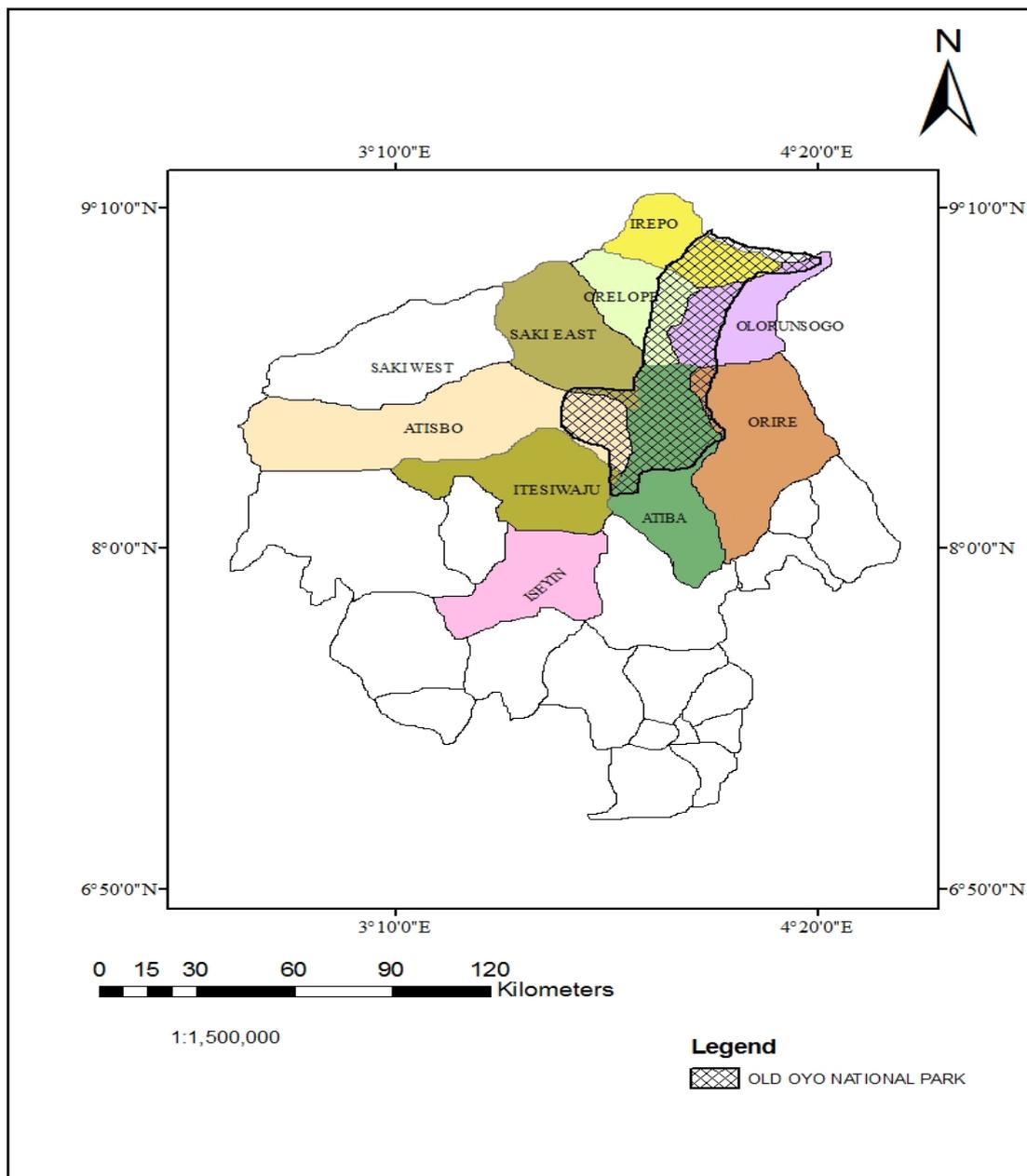


Figure 1. Map of Oyo State showing location of Old Oyo National Park and adjoining communities (Source: Computed From 2009 Field Survey)

2.1.5. Surface Water

The construction of a dam at Ikere Gorge on the Ogun River about 4km south of the park holds a very large body of water reaching up to 10 km or more upstream of Rivers Owu, Ogun and Oowe. Otherwise, all the rivers and streams in the park are seasonal and cease to flow during the dry season. However, the major rivers break into pools some quite large, but the Ogun River maintains a very low discharge rate during this period.

2.2. Method of Data Collection

Assessment of the aesthetic values of the ecotourism resources in Old Oyo National Park Natural and Cultural Landscape was carried out using research methodologies as emphasised by [19],[20]. The first one was subjective method

typically categorized as public preference methodology and the second one was objective method that fall under the category of expert’s judgement [21].

Reconnaissance Survey

Prior to the commencement of this research work repeated visits were made to the Head office of the Park in Oyo and subsequently to all the five administrative ranges with their headquarters in Tede, Igboho, Igbeti, Ikoyi and Sepeteri for a period of two months with a view to identify the suitable methods to adopt for this study. Secondary data was collected in form of record of the tourist’s influx to the Park from inception

Objective method

Objective method was carried out through field observation using existing trails as transects except in some

places where accessibilities was impaired. Three out of the five administrative ranges the Park was cartographed were selected purposively for this study as identified during the reconnaissance survey. The selected ranges and their headquarters are Tede range with the headquarter in Tede, Sepeteri range with headquarter in Igboho and Oyo-Ile range with headquarter in Igbeti. The field observation involves traversing two of the existing observation trails as transects in each range making a total of six transects in the morning immediately after the sun rise and in the evening before the sun set for three consecutive days per month over a period of four months in each of the study year of 2008 and 2009. The researchers were accompanied by research officers of the Park and the Park rangers assigned for this research work.

Subjective method

A total of five hundred respondents representing about 10% of the tourist influx between the study period of 2008 and 2009 were surveyed for the public preference methodology. The questionnaire sought information basically on the socio-economic characteristics of the respondents

Hypothesis

Ho: The four ecotourism features score equally on the 7 categories of Tourist elements (i.e. there is homogeneity of the ecotourism features in their scores on the list of tourist elements.

H1: No homogeneity among the four Ecotourism features

Decision rule: When range of P-value < $\alpha = 0.05$ level, Ho is rejected, if otherwise accept Ho

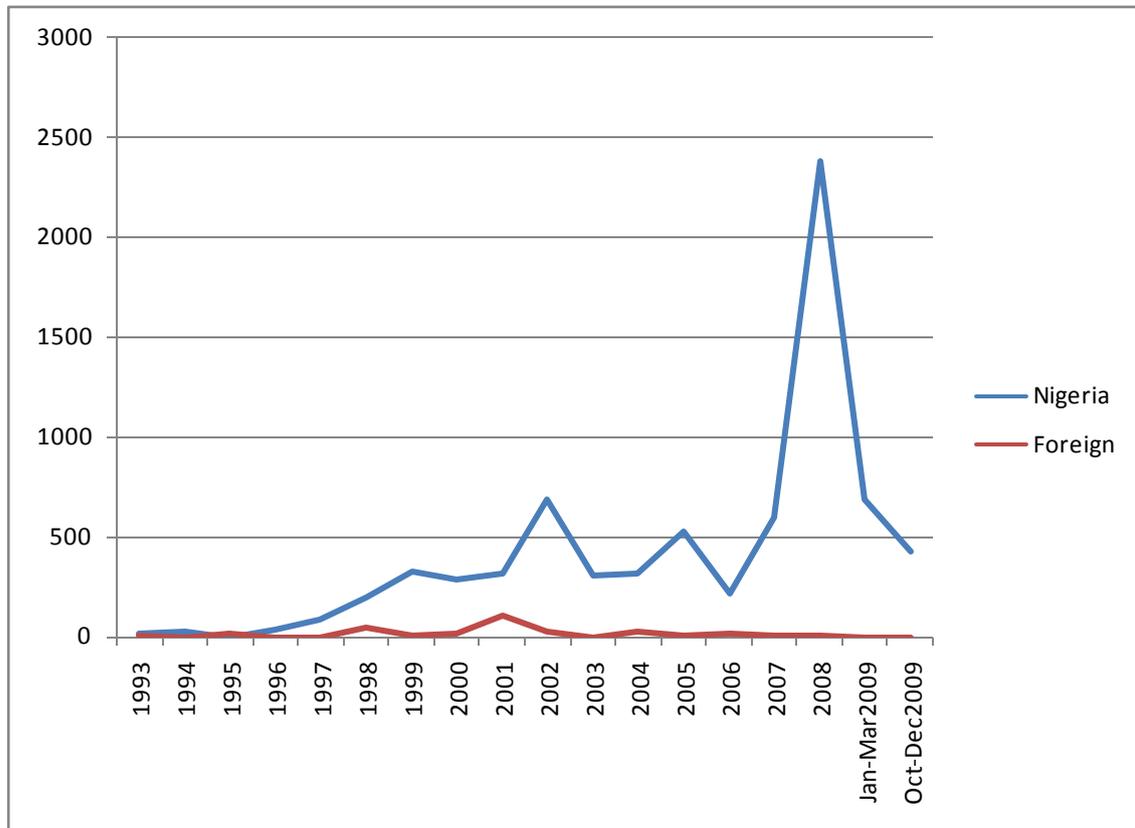
3. Results

Analysis of the secondary data

Tourist record to the Park was plotted to show the trend of the influx (Figure 2). Domestic tourists represent 97% of the total tourist influx to the Park since its inception to 2009 while international tourist represents 3%.

Subjective Method Categorized as Public Preference Methodology

Quantitative assessment is regarded as subjective based on individual preference (tourist preference). The adoption of this method was based on the notion that public preference evaluation method is the best source of data for assessing landscape quality in that general public and the visual attractiveness of the landscape is ultimately a product of the aggregated opinion of all the individual concerned with that landscape[19].The need to provide demographic information on the socio-economic activities of the respondents have necessitated the administration of questionnaires. A total of five hundred questionnaires were administered to the tourists who visited the park during the study period. The results obtained are presented in Tables 1 & 2.



Source: OONP

Figure 2. Trend analysis of domestic and International tourists' influx to the Park from 1993-2009

Table 1. Summary of socio-economic characteristics of the tourists

Respondents	Number of respondent/ frequency	Percentage
Age		
>20	72	14.3
21-40	204	40.8
41-60	194	38.8
61-80	30	6.1
Total	500	100
Sex		
Male	306	61.2
Female	194	38.8
Total	500	100
Marital status		
Single	266	53.1
Married	234	46.9
Total	500	100
Religion		
Christian	258	51.7
Muslim	220	43.9
Traditionalist	22	4.4
Total	500	100
Occupation		
Non-civil servant	75	15.0
student/researcher	204	40.8
Business	134	26.9
Civil-servant	75	15.0
No response	12	2.4
Total	500	100
Level of income/per annum		
>1,00,000	29	5.8
101,000-200,000	27	5.4
201,000-300,000	21	4.1
301,000-400,000	24	4.8
401,000-500,000	44	8.8
501,000-600,000	20	4.1
601,000-700,000	30	6.1
701,000- 800,000	220	44
801,000-900,000	26	5.1
901,000-1,000,000	25	5.1
>1,000,000	33	6.5
Total	500	100
Town/State tourists were from		
Oyo	102	20.4
Ogun	84	16.8
Lagos	68	13.5
Ondo	56	11.2
Ekiti	33	6.6
Osun	30	6.1
Kwara	21	4.1
Kogi	75	15.0
Abuja	31	6.2
Total	500	100

Source: Computed from 2008/2009 Field survey

Tourists between the age of 21-40 years recorded the highest percentage (41%) (Table 1). Male constituted 61% while the female represented 38.8% of the tourists. The data also indicated that unmarried were 53% while married were 47% of people who visited the Park. Also, Christians

constituted the highest percentage (52%). OONP witnessed the visits of students and researchers (40.8%) in the field of tourism, botany, zoology, wildlife, forestry, anthropology, archeology during the study period. Tourists from Oyo State constituted the highest percentage of 20%, followed by those from Ogun State with 17%, Kogi State 15%, Lagos State 13% while tourists from Kwara State constituted the least (4%). Income earners of between ₦601, 000- ₦700,000 recorded the highest percentage of 44% and there were close variations in the income level as obtained for other respondents.

Fauna resources took the lead of attractions as indicated by 40% of the respondents, this include those who prefer to engage in activities such as game viewing, bird watching e.t.c. This was followed by those visiting for cultural heritage tourism (22%). Next to these were the tourists attracted by geological formations (18%)

Table 2. Tourist's preference to the Park

Attractions	Frequency	Percentage
Flora resources /vegetation variations	62	11
Hydrological formations e.g. lakes, rivers, streams	58	9.9
Fauna resources e.g. wild animals, birds, fishes	234	40
Geological formations e.g. hills, mountains, caves	105	17.8
Cultural heritage resources	129	21.9
**Total	588	100

** Multiple response

Objective method: Expert's judgment

Qualitative approaches was described as those which focus upon the evaluation of the complexity of landscape using the judgment of panels of human subjects, and quantitative approaches as those with measure physical characteristics of the visual field[22].

Objective method includes ecological and formal aesthetic models methods which are mostly applied by experts in an objective manner. It has been used in assessment of the visual quality of a landscape – a phrase synonymous with beauty or aesthetic but intended to convey an impression of objectivity [23]. The result obtained is as shown in Table 2.

Pleasant weather was omitted as part of the tourism elements because OONP is in the Northern Guinea savanna of Nigeria where temperature range is between 27-30°C unlike places like Obudu in Cross river State in Nigeria with temperature range of between 7-15°C. This temperature range (7-15°C) has been considered a major attractions drawing international tourists to Obudu cattle ranch over the years[24]. Thus the temperature range in OONP has not been recorded as attraction to the site.

Table 3. Expert’s judgement of Ecotourism features of Old Oyo National Park

Tourist elements	Ecotourism Features				Total
	Hydrological Features	Geological Features	Historical Features	Wildlife Features	
Historical/ cultural factors	7	5	10	0	22
Scenic Attraction	14	12	10	16	52
Accessibility	5	5	5	2	17
Amenities	17	15	15	2	49
Accomodation	8	8	8	2	26
Safety and Security	5	5	5	2	17
Others	20	22	22	2	66
Total	76	72	75	26	249

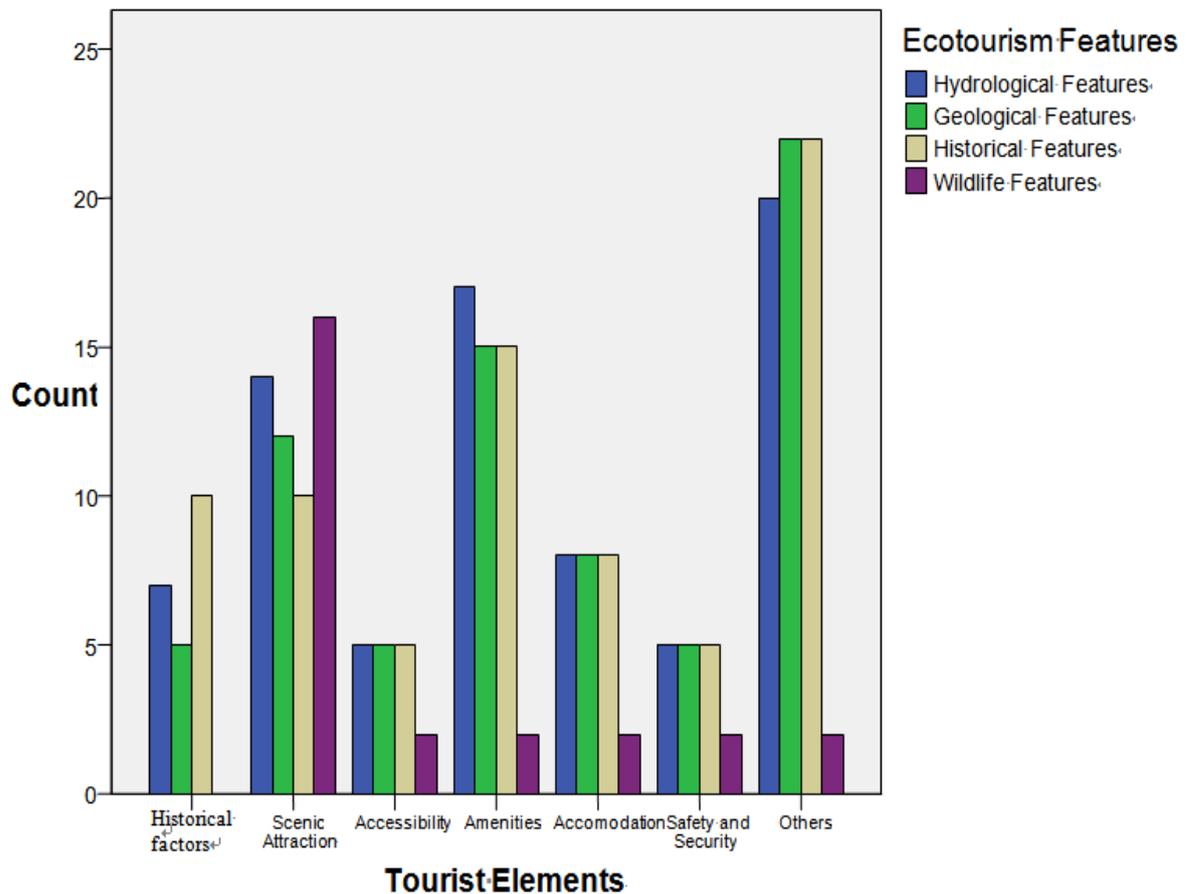


Figure 3. Bar chart showing relationship between Tourist elements and ecotourism features

The ecotourism features were tabulated against tourist elements. How the ecotourism features scored on the tourist elements were then analyzed using statistical method. The hypothesis that the four categories of ecotourism features i.e. hydrological, Geological, Historical and wildlife score equally on the various tourist elements is tested against the alternative hypothesis that at least one ecotourism feature scores differently from the others. The test statistic was the chi-square test of homogeneity and the level of significance was 0.05. The analysis showed a significance probability of 0.011 which is less than 0.05 (Table 4). The null hypothesis is therefore rejected and we conclude that the ecotourism features do not score equally on the various tourist elements.

The result shows that wildlife resources are significantly lower from the other features (Table 3).

Table 4. SPSS Result of the analysis of the data in Table 13

	Value	Df	Asymp. Sig. (2-sided)
Pearson Chi-Square	34.454(a)	18	.011
Likelihood Ratio	31.679	18	.024
Linear-by-Linear Association	2.665	1	.103
N of Valid Cases	249		

At a significance probability of 0.05, we reject H0 since

the significance probability is $0.011 < 0.05$ which is the level of significance for the test. In conclusion, the four ecotourism features do not score equally on the 7 categories of tourist elements.

This shows that wildlife features scored less than the other features on the various tourist elements. This is clearly demonstrated in the bar chart of Figure 3

4. Discussion

Aesthetic value is a strong contributor to a sense of well being and is perhaps the most personal and individualistic of the socio-cultural value types[25]. The primary and secondary data collected on the tourists visit to the park revealed that over 90% of the tourist patronage to the Park before and during the study period were domestic tourists. This is not peculiar to Old Oyo National park alone. Study on the number of domestic and international patronage to Obudu cattle ranch in Cross River state revealed that the total number of Nigerian tourists that visited the ranch supersedes that of foreign visitors in the recent years [24]. Domestic tourist patronages to the park during the study period were drawn from neighboring states. It has been internationally acknowledged that tourist currently accounts for approximately 80% of all tourists' activity[26]. The Australian National and International Visitor Surveys profiles on the Ecotourists to Australia revealed that majority of the nature tourism market for New South Wales (84%) comes from within Australia (domestic market). The tourists seeking interactions with wildlife in their natural environments is also increasing across the World[27],[28]. This general interest in nature and nature-based experiences is reflected in an increasing demand and value being placed on animals in the wild, as opposed to those in captive or semi-captive situations[29]. The same could be deduced from this study as reflected from the result obtained from the administered questionnaires through quantitative assessment method based on individual preference (tourist preference).. Greater percentage of the tourist representing 36% of the respondents prefer visiting the Park to observe fauna resources that are providing amenities for bird watching, game viewing, wilderness experience etc. Others include cultural heritage tourists (22%), those attracted by the geological formations (18%). Age between 21-40 (41%) was recorded to have highest tourists followed by those in the age range of 41-60 (39%). This supports the research findings[30] on the profile of ecotourists in Europe that their age is between middle-age to elderly. Based on data collected through a survey completed by HLA and ARA, it was also observed that the age range of the tourists (nature based and wildlife tourists) were in the age range of 35-54 years old (male to female ratio was found to be equal although clear differences by activities were found[31]. The fact that male constituted the highest percentage (61%) of the tourists than female which represents 39% and that the unmarried (53%) visited the Park than married (47%). This is in agreement

with the findings of[32]. It was also reported that definite nature tourist come from Northern European countries are more likely to be male, more likely to be single, highly likely to be aged between 20-34 years and either earn under \$30,000 or over \$100,000[33].

Old Oyo National Park witnessed the visits of students and researchers during the study period representing (41%) of the total number of tourists. It has been reported that visits by ecotourists from higher education was reported in Europe[30]. This shows a clear difference based on the observation of HLA and ARA consulting firms of North America that there had been a shift in interest in ecotourism from those who have high levels of education to those with less education indicating an expansion into mainstream markets. Higher income bracket was recorded across Europe for the ecotourists, the same could be deduced from this study. Income earners of between ₦ 601,000- ₦ 700,000 shows the highest percentage of 44% (there were close variations in the income level as obtained for other respondents). With low growth in the economy, the rise in discretionary spending levels (those not required for basic living) will remain miniscule (NTDMP, 2006). When there are increase in wages, salaries and improve standard of living of the people in the country there will be increase in discretionary income. Plans to budget part of discretionary time and money for tourism and recreational activities in the future was greater among Nigerians males with 62% than the female (38%)[32]. According to HLA and ARA[31] experienced ecotourists were willing to spend more than general tourists, the largest group (26%) stating they were prepared to spend \$1,001-\$1,500 per trip.

Apart from quantitative assessment method, descriptive inventory described as qualitative approach[22] was equally adopted for the aesthetic value assessment. Hence, the assessment of aesthetic values of OONP was carried out through subjective and objective methods[23]. Three types of landscape evaluation models have been described encompassing a diverse range of techniques[33]. One of it is descriptive inventory model which defined values by formal aesthetic models or ecological classification which is mostly applied by experts in an objective manner. It has been used in assessment of the visual quality of a landscape – a phrase synonymous with beauty or aesthetic but intended to convey an impression of objectivity[23]. Expert's judgement was carried out in this research work through field observation and Interviewed of some of the Park staff especially those in Park Protection and Conservation Unit that were assigned and accompanied the researchers in the course of carrying out this study [34],[35],[18]. These are some of the methods introduced relatively recently to assess social values, and they are already being used to bring new groups of stakeholders into the values identification process[25]. The research findings revealed that through public preference method adopted, the fauna resources are the major attractions to the Park. However the result of the descriptive inventory revealed that the hydrological features consisting

of Ikerre Gorge Dam Lake, Ibuya pool, Rivers and their tributaries, water reservoirs and hand dug well scored highest on the seven categories of tourism elements compared with other ecotourism features like wildlife resources, historical/cultural formations and geological formations. The ecotourism potentials of Ikerre Gorge Dam Lake, Ibuya pool, rivers and tributaries have been emphasized [17],[18],[36],[37]. A clean smelling lake is a source of pure pleasure, and provides a sustainable living to countless species of the aquatic ecosystem like fish, birds, insects, microorganism and aquatic vegetation [38]. The result of the Duncan multiple test revealed that the wildlife features recorded the least, they however have the highest scenic attractions. Unlike other ecotourism features the wildlife resources lack associated historical/cultural factors, this may not be of interest to the tourist except the cultural heritage tourists.

5. Conclusions

This study aimed at providing information that will be of assistance in integrating value assessment into the ecotourism management plan of Old Oyo National Park. It also serves as a basis for carrying out visual impact assessment of the Park. The fauna resources were revealed to attract greater percentage of the tourists based on the subjective method of public preference method conducted. However hydrological formations provided the highest aesthetic values having scored highest on tourist elements / features scale according to the result obtained through objective – descriptive inventory. The Park Conservation Authority will benefit tremendously if efforts could be put in place to maximize the aesthetic values of these features. Roads should be constructed and should be readily accessible all the year round for the tourist especially to places where these hydrological formations were sighted. Another impediment to full exploitation of the aesthetic values of the hydrological formations and some other features is the poor publicity of these features by the Park management, tourist should not be given the impression that the Park is meant for game viewing, bird watching and observation of cultural heritage resources alone but rather should be made to realize that other features were still available that could satisfy their demand.

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