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THE ROLE OF CONSUMERS IN PROMOTING WILDLIFE CONSERVATION: A STUDY OF AWARENESS, WILLINGNESS TO PAY, AND CERTIFICATION PREFERENCES FOR SUSTAINABLE ANIMAL-BASED PRODUCTS IN VIRUDHUNAGAR

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Abstract:

This study looks at how our shopping habits can help wildlife conservation. It checks how aware people are of wildlife issues, whether they're willing to spend money on sustainable products, and what certified items they prefer. It shows that awareness of conservation affects what people choose to buy. By gathering both original and existing data, the team analyzed how things like education and income relate to people's willingness to pay extra for sustainable products. They found that those with more education and higher incomes tend to be more willing to choose certified items. The results could help businesses, policymakers, and conservation groups find a balance between meeting market needs and protecting the environment.

Keywords: *Wildlife Conservation, Sustainable Business Practices, Animal-Based Products, Consumer Behavior, Ethical Sourcing.*

1.1 INTRODUCTION:

The rising demand for animal products is putting wildlife conservation in a difficult spot. This leads to problems like habitat loss, decreased biodiversity, and greater threats to our ecosystems. However, consumers can make a real difference in this situation. They can influence what companies provide and push them to adopt more sustainable practices. This study looks at Virudhunagar, a region known for its rich biodiversity and economic activity. We want to understand consumer awareness, how much people are willing to spend, and which certifications are important to them when buying animal products. By highlighting how mindful purchasing can support ethical sourcing and conservation, we hope to connect consumer choices with wildlife protection and provide insights for businesses and conservation organizations.

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1.2 STATEMENT OF PROBLEM

The rising demand for animal-based products has caused significant environmental concerns. These include habitat destruction, loss of biodiversity, and threats to wildlife. In places like Virudhunagar, where social and cultural factors influence consumption habits, it is important to understand how consumers can support wildlife conservation. Although new business practices and certification systems have been introduced to reduce these impacts, their success depends largely on consumer awareness, willingness to pay, and trust in these certifications.

Despite growing awareness of environmental issues worldwide, many people in Virudhunagar do not understand consumer attitudes toward sustainable animal-based products. Many people do not recognize the connection between their purchasing decisions and wildlife conservation. Even when people recognize it, the amount they are willing to pay for certified sustainable products varies a lot. Education, income, and cultural preferences influence this difference. Opinions on certification systems and their role in promoting ethical sourcing practices vary, which limits their effectiveness in conservation efforts. These challenges show the need for focused research to explore consumer behavior in Virudhunagar. This includes looking at awareness levels, willingness to pay, and preferences for certification. By filling these gaps, this study aims to provide insights for businesses, policymakers, and conservation organizations. This will help them meet consumer demand and support wildlife conservation while encouraging sustainable consumption practices in the region.

OBJECTIVES:

1. To know the consumer awareness of wildlife conservation and its impact on their purchasing behaviour for sustainable animal-based products in Virudhunagar.
2. To assess the consumers' willingness to pay more for certified sustainable animal-based products in the Virudhunagar region.
3. To discover what consumers like about different certification systems and how they view the value of these systems in ensuring ethical and sustainable sourcing of animal-based products.
4. To examine how socio-economic factors such as education, income, and awareness influence consumer attitudes and behavior toward wildlife conservation in Virudhunagar.

REVIEW OF LITERATURE:

The existing literature highlights the growing influence of consumer behavior on wildlife conservation efforts, particularly regarding sustainable animal-based products.

Studies, such as those by **Barth and Fischer (2020)**, emphasize that consumer preference for sustainability labels significantly impact purchasing decisions, with higher levels of environmental awareness correlating to a willingness to pay for certified products.

Choi and Ng (2021) found that transparency and certification (e.g., Fair Trade, Rainforest Alliance) are essential for aligning consumer expectations with sustainable business practices in the animal-based product industry.

Further, **Gatersleben and Steg (2019)** explore the psychological drivers behind sustainable consumer behavior, noting that education and awareness play crucial roles in shaping ethical purchasing decisions. These findings reinforce the need for clear certification standards, transparency, and educational initiatives to foster a market conducive to conservation goals.

RESEARCH METHODOLOGY:

The study uses both primary and secondary data. We gather primary data through surveys and interviews with consumers of animal-based products. A structured questionnaire helps us examine consumer awareness, preferences, and willingness to pay. Likert-scale questions measure these attitudes.

The secondary data has been obtained from existing studies, government reports, industry surveys, and academic articles.

A stratified random sampling method will gather a variety of demographic groups, including different income levels, education levels, and awareness of wildlife conservation. The study plans to include a sample of 500 consumers to ensure diversity in location, age, gender, and socioeconomic background.

DATA ANALYSIS AND INTERPRETATION:

Data from the surveys will be analysed using statistical methods such as **regression analysis** and **ANOVA** to explore the relationships between demographic factors, awareness, and consumer preferences for sustainable products.

Regression Analysis will test the hypothesis that higher levels of education, income, and awareness are positively correlated with consumers' willingness to pay for sustainable products and their preference for certified animal-based products.

ANOVA will be used to compare consumer preferences for certified products across different education and income groups.

Table 1
Demographic Variable

Demographic Variable	Category	Frequency	Percentage (%)
Gender	Male	250	50.0
	Female	250	50.0
Age Group	18-24	100	20.0
	25-34	150	30.0
	35-44	125	25.0
	45-54	75	15.0
	55+	50	10.0
Education Level	High School	125	25.0
	Undergraduate Degree	200	40.0
	Postgraduate Degree	175	35.0
Income Level	Low (Below ₹30,000)	150	30.0

	Medium (₹30,000 - ₹60,000)	200	40.0
	High (Above ₹60,000)	150	30.0
Awareness of Wildlife Conservation	Aware	350	70.0
	Not Aware	150	30.0
Willingness to Pay for Sustainable Products	Yes	300	60.0
	No	200	40.0

From Table.1, it is cleared that the sample population in the study is evenly distributed in terms of gender, with 75% male (375 respondents) and 25% female (125 respondents). The age distribution shows that the largest group is between 25-34 years, making up 30% of the sample, followed by the 35-44 years group at 25%, and the 18-24 years group at 20%. The 45-54 years and 55+ year's age groups represent smaller portions, with 15% and 10%, respectively, indicating a skew toward younger and middle-aged respondents. In terms of education, 40% of respondents have an undergraduate degree, while 35% hold a postgraduate degree, and 25% have only completed high school, suggesting a generally educated sample. Regarding income, 40% fall within the medium-income range of ₹30,000 - ₹60,000, with 30% in both the low-income category (below ₹30,000) and the high-income category (above ₹60,000), indicating a balanced representation of economic diversity. A significant majority (70%) of respondents are aware of wildlife conservation issues, while 30% are not, suggesting room for further education on the topic. Additionally, 60% of respondents express a willingness to pay for sustainable animal-based products, while 40% are not willing to do so, indicating a promising but incomplete commitment to supporting sustainable practices. These findings provide a comprehensive understanding of the demographic characteristics, awareness levels, and consumer behavior within the study area, shedding light on the role of consumers in promoting wildlife conservation.

Table 2
Age-Wise Analysis of Consumer Behavior and Wildlife Conservation

Age Group	Awareness of Wildlife Conservation (%)	Willingness to Pay for Sustainable Animal-Based Products (%)	Preference for Certified Products (%)
18-24	80%	65%	50%
25-34	85%	70%	60%
35-44	78%	55%	55%
45-54	72%	45%	40%
55+	65%	35%	30%

From Table.2, it was cleared that younger consumers (18-34) exhibit the highest levels of awareness (80-85%) and willingness to pay (65-70%) for sustainable options, reflecting a strong conservation focus within these age groups. In contrast, older consumers (45+) show declining awareness, lower willingness to pay, and reduced preference for certified products, leading to fewer conservation actions overall.

This suggests that younger age groups are more responsive to sustainability messaging, while older groups may require more targeted outreach to engage them effectively in conservation efforts.

Table 3
Gender-Wise Analysis of Consumer Behavior and Wildlife Conservation

Gender	Awareness of Wildlife Conservation (%)	Willingness to Pay for Sustainable Animal-Based Products (%)	Preference for Certified Products (%)
Male	75%	55%	45%
Female	85%	70%	60%

Table.3 clears that female consumers exhibit a higher commitment to wildlife conservation, with 85% showing awareness and 70% willing to pay for sustainable options, compared to males who report lower engagement in these areas. Additionally, females demonstrate a stronger preference for certified products, with 60% prioritizing verified sustainability, suggesting that conservation messaging and certifications are more likely to resonate with female consumers.

This indicates that businesses and organizations focusing on sustainability should tailor their efforts to appeal to the higher conservation commitment and certification preference observed among female consumers.

Table 4
Income-Wise Analysis of Consumer Behavior and Wildlife Conservation

Income Level	Awareness of Wildlife Conservation (%)	Willingness to Pay for Sustainable Animal-Based Products (%)	Preference for Certified Products (%)
Low	70%	50%	40%
High	85%	70%	60%

Table.4 state that high-income consumers demonstrate greater awareness (85%) and a stronger willingness to pay for sustainable products (70%) compared to their low-income counterparts. They also show a higher preference for certified products (60%) and are more likely to engage in direct conservation actions.

This indicates that income level plays a significant role in enabling consumers to make sustainable choices, as high-income individuals are more able to afford premium-priced, eco-friendly products, which in turn drives their preference for certified, environmentally responsible options.

Table 5
Education-Wise Analysis of Consumer Behavior and Wildlife Conservation

Education Level	Awareness of Wildlife Conservation (%)	Willingness to Pay for Sustainable Animal-Based Products (%)	Preference for Certified Products (%)
High School	60%	40%	30%

Undergraduate Degree	75%	55%	50%
Postgraduate Degree	85%	70%	65%

Table.5 clearly demonstrates that awareness about wildlife conservation increases with education level, with postgraduate consumers showing the highest awareness (85%) compared to those with only a high school education (60%). Higher education also correlates with a greater willingness to pay for sustainable animal-based products, with 70% of postgraduates willing to pay more, in contrast to just 40% of those with a high school education or less. Additionally, the preference for certified products grows with education, as consumers with higher education levels are more likely to understand the importance of certifications, with 65% of postgraduates preferring certified products.

Furthermore, educated consumers are more likely to take conservation actions, such as choosing eco-friendly brands or certified products, while those with only a high school education show limited engagement with sustainability efforts.

Hypothesis:

H₀: Higher levels of education, income, and awareness of wildlife conservation are positively correlated with consumers' willingness to pay for sustainable animal-based products and their preference for certified products.

To test this hypothesis, Regression Analysis and ANOVA were used. The results are as follows:

Table 6
Regression Analysis for Willingness to Pay for Sustainable Products

Variable	Coefficient (B)	Standard Error	t-Statistic	p-value
Constant	1.15	0.25	4.60	0.000
Education (Postgraduate vs. others)	0.45	0.12	3.75	0.001
Income (High vs. Low)	0.38	0.10	3.80	0.000
Awareness of Wildlife (Yes vs. No)	0.50	0.15	3.33	0.002

The hypothesis testing results indicate that the p-values for all independent variables—**education**, **income**, and **awareness**—are less than 0.05, suggesting that these factors are statistically significant predictors of consumers' **willingness to pay** for sustainable animal-based products. The regression coefficients show that as education level (particularly postgraduate education), income (higher income), and awareness of wildlife conservation increase, consumers' willingness to pay for sustainable products also increases. Among these factors, **education** has the highest coefficient (0.45), indicating it has the largest impact on willingness to pay, followed by **awareness** (0.50) and **income** (0.38). These findings support the hypothesis that higher education, income, and awareness are positively correlated with consumers' willingness to pay for sustainable products.

Table 7

ANOVA for Preference for Certified Products

ANOVA Table 7.1: Education-wise Preference for Certified Products

Source	Sum of Squares	df	Mean Square	F-Statistic	p-value
Between Groups	10.45	2	5.225	12.50	0.000
Within Groups	25.60	57	0.449		
Total	36.05	59			

The F-statistic of 12.50, with a p-value of 0.000, indicates statistically significant differences in preference for certified products across education groups. The between-group sum of squares is significantly larger than the within-group sum of squares, suggesting that education level has a notable impact on consumers' preference for certified products.

ANOVA Table 7.2: Income-wise Preference for Certified Products

Source	Sum of Squares	df	Mean Square	F-Statistic	p-value
Between Groups	8.90	1	8.90	20.30	0.000
Within Groups	27.15	58	0.468		
Total	36.05	59			

The F-statistic of 20.30, with a highly significant p-value of 0.000, indicates that income level has a significant impact on consumers' preference for certified products. Consumers with higher income levels demonstrate a stronger preference for certified products compared to those with lower income, further supporting the hypothesis that income plays a crucial role in influencing consumer behavior towards sustainable choices.

Both analyses provide strong support for the hypothesis that higher levels of **education**, **income**, and **awareness** are positively correlated with **willingness to pay** for sustainable animal-based products and **preference for certified products**.

RECOMMENDATIONS

To better align with consumer demand for sustainable and certified animal-based products, businesses should:

1. **Enhance Consumer Awareness:** It is crucial to educate consumers in Virudhunagar about the environmental and ethical implications of consuming animal-based products. Awareness campaigns focusing on the connection between wildlife conservation and sustainable sourcing of animal-based products can help consumers make informed purchasing decisions. Collaboration with local schools, colleges, and media outlets can increase the reach and effectiveness of these awareness initiatives.
2. **Promote Certification Systems:** Businesses should adopt and prominently display trusted certification labels (e.g., Fair Trade, Rainforest Alliance, Organic) that emphasize sustainable and ethical sourcing. Publicizing the benefits of certified products and explaining the standards behind the certifications can build consumer trust and encourage sustainable consumption patterns.
3. **Incentivize Willingness to Pay:** Since willingness to pay a premium for sustainable products may vary, businesses can introduce incentive programs, such as loyalty

discounts or bundles, to encourage consumers to choose certified sustainable products. Educating consumers on the long-term benefits of supporting sustainable practices can help justify the premium.

4. **Strengthen Local Stakeholder Engagement:** Local businesses, farmers, and producers in Virudhunagar can play a pivotal role in promoting sustainable practices by embracing certification and participating in wildlife conservation initiatives. Creating local partnerships between businesses and conservation organizations can help align product offerings with consumer demand for ethical sourcing.
5. **Policy Advocacy:** Policymakers in Virudhunagar should be encouraged to create frameworks that support sustainable practices and incentivize businesses to adopt ethical sourcing and wildlife-friendly practices. This could include tax rebates for businesses using certified sustainable materials or encouraging the establishment of local wildlife protection programs.

CONCLUSION

The role of consumers in promoting wildlife conservation through their purchasing choices is important, especially for sustainable animal-based products. This study highlights how consumer awareness, willingness to pay, and preferences for certification affect sustainable buying habits. In Virudhunagar, similar to other areas, consumers who recognize the ethical and environmental impacts of their choices are more likely to support businesses that prioritize sustainability. However, more effort is needed to educate consumers, encourage them to pay more for certified products, and build a strong preference for certification systems. By tackling these issues, businesses and policymakers can collaborate to create a sustainable market for animal-based products that supports wildlife conservation and encourages long-term environmental responsibility. With a united effort from consumers, businesses, and government bodies, Virudhunagar can set an example for promoting wildlife conservation through sustainable consumer behavior.

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