INTERNATIONAL RESEARCH COLLABORATION





INNOVATION IN ACTION: UNIVERSITY-BASED AGRO-EDUCATION TOURISM MODELS FOR PEATLAND SUSTAINABILITY IN INDONESIA (A Case of Arboretum Land Universitas Sriwijaya)

PART OF PENELITIAN PENUNJUKKAN LANGSUNG RESTORASI LAHAN GAMBUT SEBAGAI TINDAK PREVENTIF TERHADAP PERUBAHAN IKLIM DAN MEDIA PENDIDIKAN LINGKUNGAN BAGI MASYARAKAT PADA EKOSISTEM LAHAN BASAH)

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RESEARCH BACKGROUND

Sumatra's economic valuation reveals that community involvement in education and agriculture-based tourism can boost local awareness, promote sustainable management, and diversify income. University-based agroeducation connects agriculture, conservation, and education.

RESEARCH OBJECTIVES

The research aims to investigate the economic and social impacts of university agro-education in peatland areas, aiming to create locally

RESEARCH METHOD

Cases

Bidding Amount

(**R**p/person)

Rp25.000,00

Rp50.000,00

Rp75.000,00

Rp100.000,00

Rp125.000,00

Rp150.000,00

Total



The Arborteum of Indralaya Campus







Economic Valuation

RESEARCH RESULTS

No	Characteristics	Category	n	%	
1	Age	< 40 yers old	87	66,41	
		40-55 years old	28	21,37	
		> 55 years old	16	12,21	
2	Gender	Male	53	40,46	
		Female	78	59,54	
3	Etnicity	Malay	54	41,22	
		Javanese	43	32,82	
		Bataknese	9	6,87	
		Padangnese	2	1,53	
		Others	23	17,56	

relevant and globally sustainable innovations.

RESEARCH LOCATION

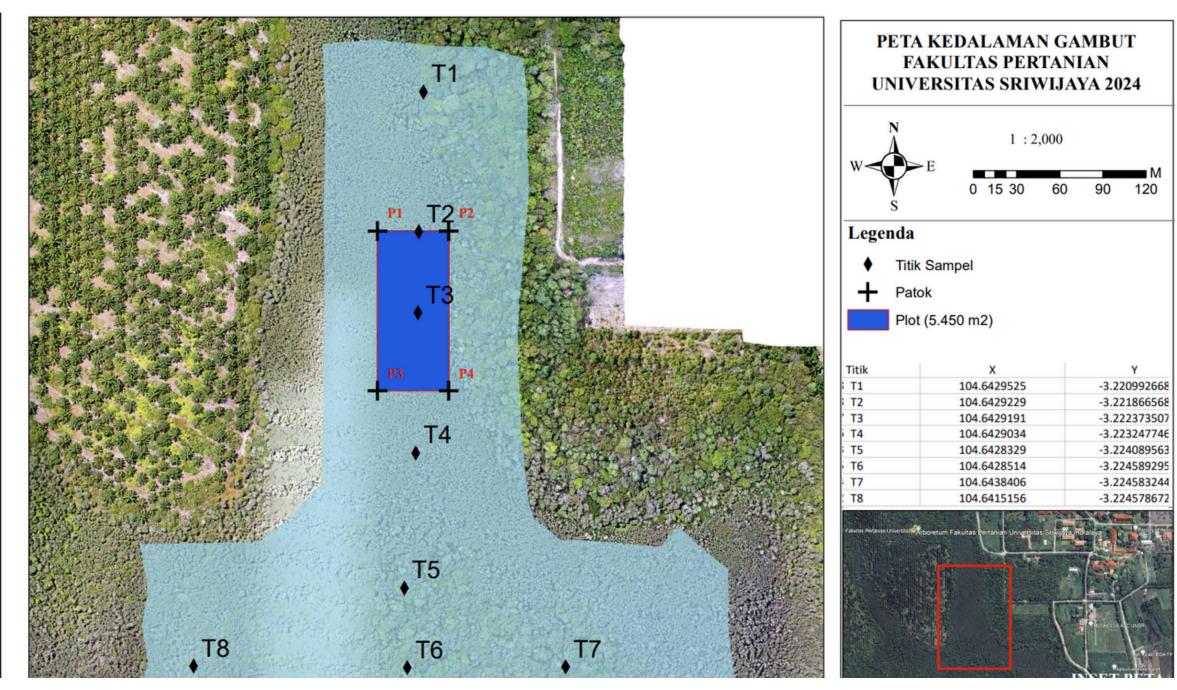




Table2. Respondents' Vi					
Explanation	Farmers	Lecterur	Students	Alumni and others	Total
Very Important	2	15	25	0	42
Important	4	20	21	0	45
Neutral	3	7	9	2	21
Not Important	3	0	1	0	4
Very Unimportant	18	0	0	1	19
Jumlah	30	42	56	3	131

Freq Relative

(Person)

0,4656

0,1908

0,0611

0,0382

0,0458

0,0382

Total WTP

(Rp/year)

Rp1.525.000,00

Rp1.250.000,00

Rp600.000,00

Rp500.000,00

Rp750.000,00

Rp750.000,00

Rp5.375.000,00

Mean WTP

(Rp/Person)

Rp4.545,45

Table 3. Respondents' Willingness to Pay to Maintain the Existence of the Arboretum Land

Total

Respondent

61

25

8

5

6

5

110

Figure 1. Respondents' Expectations for the Arboretum Area



Figure 2. Willingness to Pay to maintain the existence of land

Table 4. Total Economic Value of Environmental Services of the Arboretum Land Universitas Sriwijaya

No	Category	Value (Rp/year)	Total Value (Rp/year)	No	Category	Value (Rp/year)	Total Value (Rp/year)
A.	Direct Benefits			B.	Indirect Benefits		18.335.805,34
1.	Direct Use		102.608.053,45	1.	Value of Existence	5.375.000,00	
	Understory Plants	592.350,00		2.	Biodiversity Value	2.700.000,00	
	Litter	2.358.300,00		3.	Heritage Value	10.260.805,34	
	Nekromas	1.330.800,00			Value of Ecosystem Servixes of the Unsri		5.096.097.536,13
	Vegetasi	98.326.603,45			Value of Ecosystem Services of the Unst	ri Arboretum per Ha *	424.674.794,68
2.	Indirect Benefits		4.172.400.386,33				
	Fire Extinguishing Costs	376.500.000,00		Note: * On average these sets of services yield USD 15,000/ha/year in benefits, but some provide benefits totaling nearly USD 50,000/ha/year.			
	Pollution Cost	3.624.299.268,09					
	Cost of Loss of Ntfah Plasma	171.600.000,00		Source:	https://www.worldbank.org/en/country/ind mangrove-conservation-and-restoration-in-	-	onomics-of-large-scale-
	Carbon Absorption Cost Stored CO2	1.118,24			On average these sets of services yield USD 15,000/ha/year in benefits, but some provide benefits totaling nearly USD 50,000/ha/year.		
3.	Benefits of The Value Of Choice Usage		802.753.291,00		USD 15,000	Rp 225.000.000,00	
	Tourism	585.753.291,00			USD 50,000	Rp 750.000.000,00	
	Education	180.000.000,00					
	Research	37.000.000,00					



CONCLUSION

Total Economic Value of Environmental Services of the Arboretum Land at Sriwijaya University. Amounting to Rp 5,096,097,536.13. According to Louange, E. T. (2024) and Vam Zanten (2022), the calculated value in the research is still lower their publication, where on average, this series of services generates benefits of USD 15,000/ha/year, but some of them provide benefits reaching almost USD 50,000/ha/year.

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