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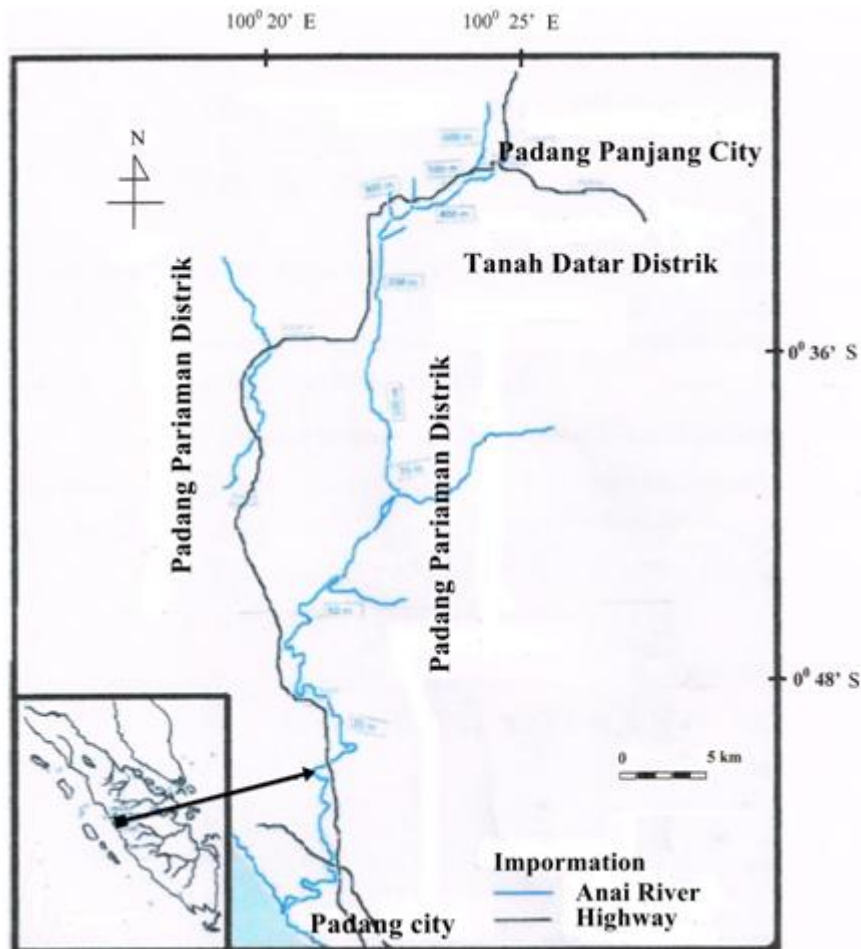


Figure 1: The sketch of Anai River waters flow and the altitude spot above the sea level (<http://maps.google.co.id>).

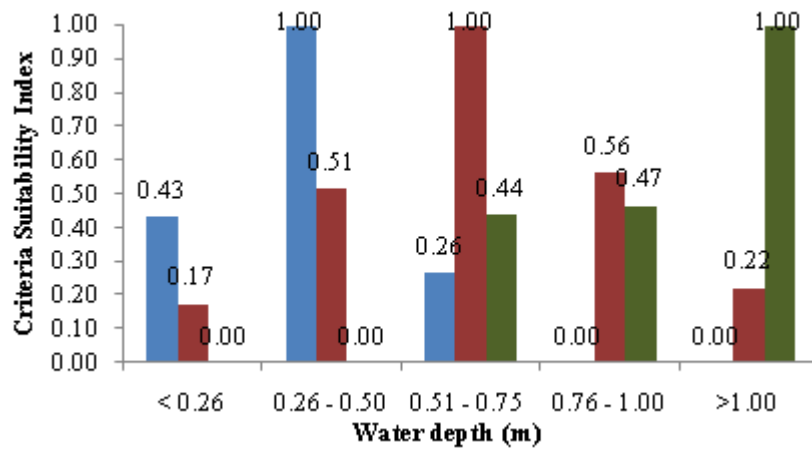


Figure 2: The histogram of index suitability criteria value bases on water depth and Garing fish life stage in Anai River West Sumatra. ■ = Juvenile stage, ■ = Subadult stage, ■ = adult stage.

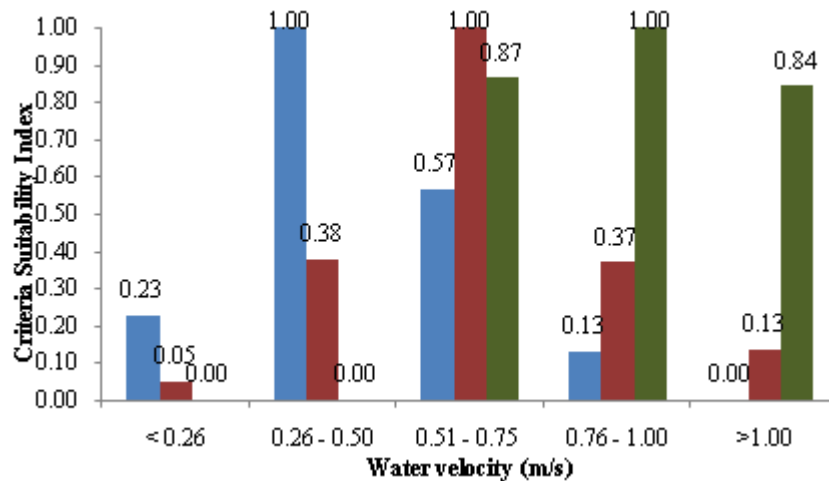


Figure 3: The histogram of suitability index criteria value bases on the water velocity and Garing fish life stage in Anai River West Sumatra. ■ = Juvenile stage, ■ = Subadult stage, ■ = adult stage

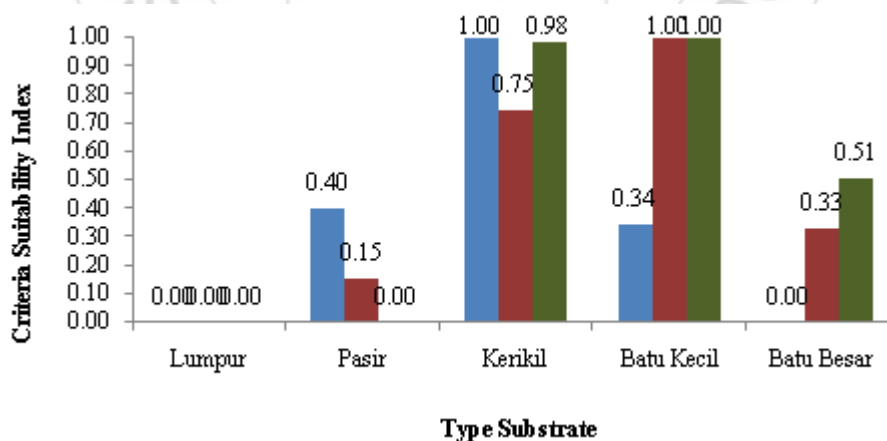


Figure 4: The histogram of suitability index criteria value bases on the type of base substrate and Garing fish life stage in Anai River, West Sumatra. ■ = Juvenile stage, ■ = Subadult stage, ■ = adult stage.

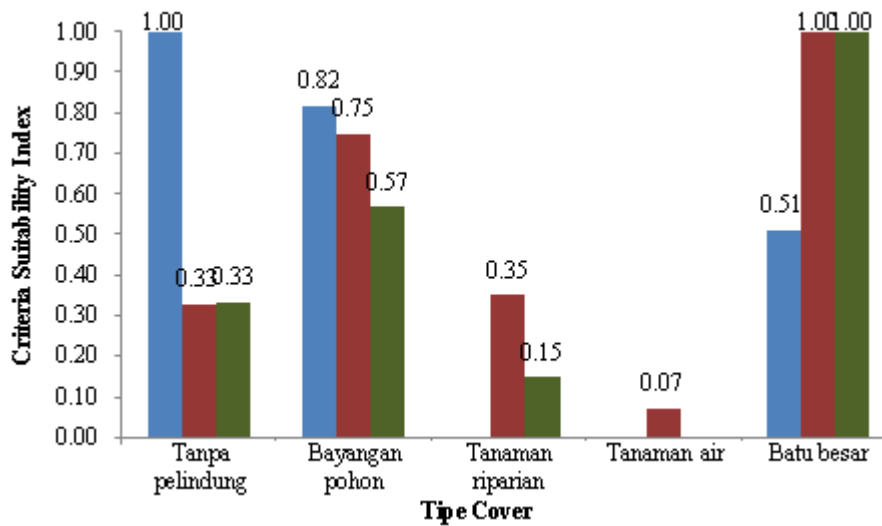


Figure 5: The histogram of suitability index criteria value bases on the cover type and Garing fish life stage in Anai River, West Sumatra. ■ = Juvenile stage, ■ = Subadult stage, ■ = adult stage.

Table 1: The result analyses of Chi-square water depth which is optimal and/or suitable for every Garing fish life stage in Anai River West Sumatra.

	Juvenile Stage		Subadult Stage		Adult Stage	
	$\chi^2_{\text{calculation}}$	Depth	$\chi^2_{\text{calculation}}$	Depth	$\chi^2_{\text{calculation}}$	Depth
Optimal	5.5566*	0.26 – 0.50	6.1243*	0.51 – 0.75	5.9771*	> 1.00
Usable	8.4917*	< 0.76	2.7911*	> 0.26	6.4486*	> 0.50

Information: * = the value of $\chi^2_{\text{calculation}} > \chi^2_{\text{table}} (1,6449)$.

Table 2: The result analyses of Chi-square water velocity which is optimal and/or suitable for every Garing fish life stage in Anai River, West Sumatra

	Juvenile Stage		Subadult Stage		Adult Stage	
	χ^2_{hitung}	Velocity	χ^2_{hitung}	Velocity	χ^2_{hitung}	Velocity
Optimal	7.2186*	0.26 – 0.50	4.3737*	0.51 – 0.75	-4.6611 ^{ns}	---
Layak	7.0571*	< 0.76	2.2388*	0.26 – 1.00	1.6449*	> 0.50

Information : * = the value of $\chi^2_{\text{calculation}} > \chi^2_{\text{table}} (1,6449)$, ^{ns} = the value of $\chi^2_{\text{calculation}} \leq \chi^2_{\text{table}} (1,6449)$, --- = The result cannot yet differentiate the velocity between the optimal with the usable one.

Table 3: The result analyses of Chi-square base substrate which is optimal and/or suitable for every Garing fish life stage in Anai River, West Sumatra

	Juvenile Stage		Subadult Stage		Adult Stage	
	$\chi^2_{\text{calculation}}$	Substrate	$\chi^2_{\text{calculation}}$	Substrate	$\chi^2_{\text{calculation}}$	Substrate
Optimal	3.3616*	Pebble	4.2269*	Small cobble	-1.9980 ^{ns}	---
suitable	4.9718*	sand, pebble & small cobble	3.6169*	pebble, small cobble & big stone	2.6279*	pebble, small cobble & big stone

Information : * = the value of $\chi^2_{\text{calculation}} > \chi^2_{\text{table}} (1,6449)$, ^{ns} = the value of $\chi^2_{\text{calculation}} \leq \chi^2_{\text{table}} (1,6449)$. --- = The result cannot yet differentiate the base substrate between the optimal with the usable one.

Table 4: The result analyses of Chi-square cover type which is optimal and/or suitable for every Garing fish life stage in Anai River, West Sumatra

	Juvenile Stage		Subadult Stage		Adult Stage	
	χ^2_{hitung}	Cover	χ^2_{hitung}	Cover	χ^2_{hitung}	Cover
Optimal	6.2042*	No cover and tree shadow	2.9945*	Big stone in flow	3.4835*	Big stone in flow
Layak	4.8439*	No cover, tree shadow and big stone in flow	-2.0508 ^{ns}	---	0.4098 ^{ns}	---

Information : * = the value of $\chi^2_{\text{calculation}} > \chi^2_{\text{table}} (1,6449)$, ^{ns} = the value of $\chi^2_{\text{calculation}} \leq \chi^2_{\text{table}} (1,6449)$, --- = The result cannot yet differentiate the cover between the suitable with the unsuitable one.