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10-11 MAY, 2024 - MERSİN/TÜRKİYE

with the paper entitled

“THE DOMINANCE OF AMPHIBIAN SPECIES (ORDER ANURA) IN THE CULTIVATION AREA PRINGSEWU LAMPUNG INDONESIA”

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2. BİLSEL INTERNATIONAL KORYKOS SCIENTIFIC RESEARCHES AND INNOVATION CONGRESS

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10.05.2024

TÜRKIYE Local Time: 11:30-14:00

HEAD OF SESSION: MUHAMMAD FAISAL

SESSION-2 HALL-18

AUTHORS	AFFILIATION	TOPIC TITLE
<i>Asnita Yani</i>	<i>Columbia Asia College of Health Sciences, Indonesia</i>	THE INFLUENCE OF HUMIDITY FACTORS AND INDOOR SMOKING HABITS WITH ACUT RESPIRATORY INFECTIONS IN TODDLERS
<i>Aulia Isna Shinta Wati, M. Aris Syafi'i</i>	<i>UIN K.H. Abdurrahman Wahid Pekalongan, Indonesia</i>	ACCELERATING ECONOMIC DEVELOPMENT IN INDONESIA : PAYMENT DIGITALISATION AS A POLICY INSTRUMENT OF BANK INDONESIA
<i>GOUTHON Gilchrist Fabrice , AISSI Jean-Roitinos, SEHOUBO Amagnon Mahougnon Lambert, GBAGUIDI Arnauld</i>	<i>University of Abomey-Calavi</i>	OPEN AIR POLLUTION AND ENVIRONMENTAL PROBLEMS IN THE COMMUNITY OF QUINHI: THE CASE OF THE DISTRICT OF SAGON
<i>AISSI Jean-Roitinos , HOUSSIONON Karel , SODJI Jean , AKOGBETO Nadine , TAMEGNON Rémi , TCHAOUSI Foussemi Ayouba , SEHOUBOU Amagnon Mahougnon Lambert , SOSSOU Bignon Camus Landry , MONTCHO Bruno , ABDOULAYE Djafarou</i>	<i>University of Abomey-Calavi</i>	HEALTH RISKS RELATED TO THE USE OF CHEMICAL INPUTS IN AGRICULTURE IN THE COMMUNE OF LOKOSSA
MUHAMMAD FAISAL		ARTIFICIAL RAIN IS BEING DEPLOYED EXTENSIVELY TO COMBAT DANGEROUS LEVELS OF POLLUTION
MUHAMMAD FAISAL DR MANSOOR ALI WASSAN	<i>Ministry of Climate Change and Environmental Coordination, Pakistan</i>	STREWN THE ROLE OF PAKISTAN FOR INTERNATIONAL COVENANTS FOR THE ENVIRONMENTAL STUDIES ADDRESSING GLOBAL ENVIRONMENTAL CHALLENGES
<i>Amanda Al Adawiah, Duryat, Rommy Qurniati, Richard Stephen Moore</i>	<i>University of Lampung,</i>	UTILIZATION OF PLANTS AS BOTANICAL PESTICIDES IN GAPOKTAN SUMBER MAKMUR, UPTD KPH BATUTEGI LAMPUNG PROVINCE
<i>Bainah Sari Dewi, Ardhi Wigi Saputra, Gunardi Djoko Winarno, Sugeng P. Harianto</i>	<i>University of Lampung,</i>	THE DOMINANCE OF AMPHIBIAN SPECIES (ORDER ANURA) IN THE CULTIVATION AREA PRINGSEWU LAMPUNG INDONESIA
<i>Elizabeta Popova Ramova Damjan Balkoski</i>	<i>MIT University,</i>	ECOTHERAPY IN SCHOOL LANDSCAPE AS AN ALTERNATIVE MEDICINE METHOD FOR PHYSICAL AND MENTAL HEALTH

2. BİLSEL INTERNATIONAL KORYKOS SCIENTIFIC RESEARCHES AND INNOVATION CONGRESS

SESSION-2 HALL-18 Amanda Al Adawiah ekranını görüntüleyorsunuz Seçenekleri Görüntüle Giriş yapın Görüntüle



The presentation slide displays the following text:

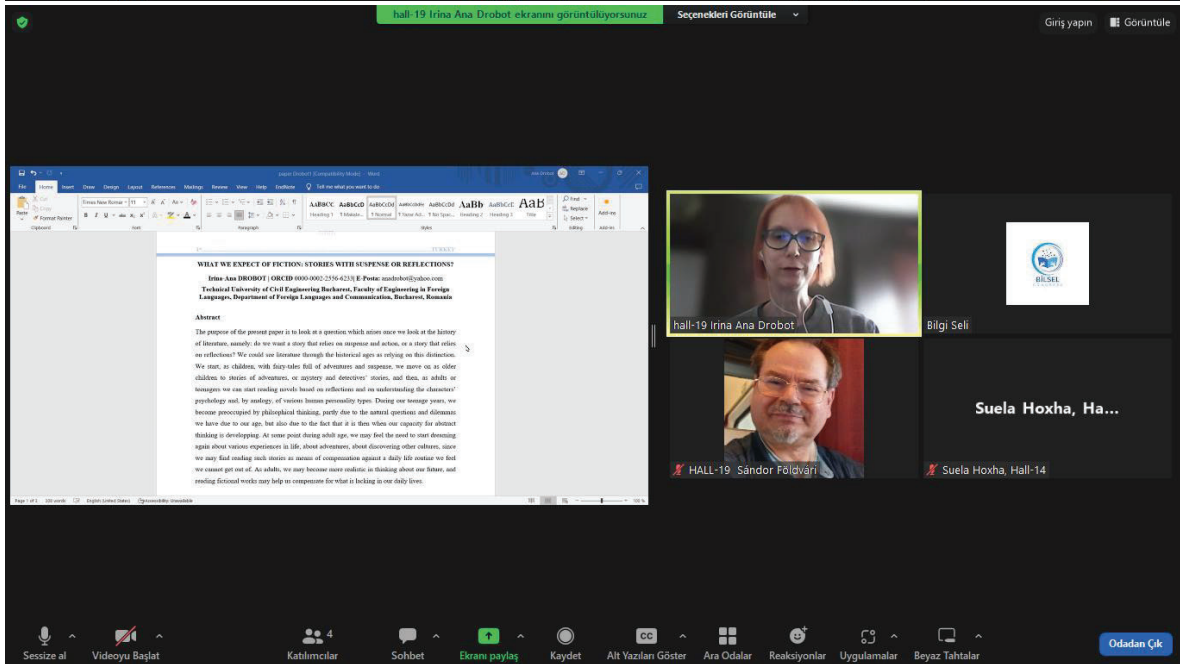
RESULT AND DISCUSSION

Likewise, Aseptianova (2019) reported that turmeric (*Curcuma longa*) rhizomes contain bioactive compounds, Ridwan and Prastio (2017) which have the effect of preventing the arrival of aphids. Turmeric extract also has the ability to inhibit the growth and development of *Colletotrichum musae* in vitro, which causes anthracnose disease in bananas (Yendi et al., 2015).

This shows that the bioactive compounds in these plants can be used as botanical pesticides. Bioactive compounds in plants have other functions, such as the bioactive tannin content which has antifeedant properties, then alkaloids can damage the nervous system of pests, reduce appetite, and saponins and flavonoids prevent pests from approaching plants and inhibit the growth of larvae (Gao et al., 2019).

Participants in the meeting include: Amanda Al Adawiah, Bilgi Seli, Ardhwi Wigi Saputra, Dr Faisal Moderator H18, and h18 Dr. Bainah Sari Dewi.

hall-19 Irina Ana Drobot ekranını görüntüleyorsunuz Seçenekleri Görüntüle Giriş yapın Görüntüle



The presentation slide displays the following text:

WHAT WE EXPECT OF FICTION: STORIES WITH SUSPENSE OR REFLECTIONS?

Irina Ana DROBOT | ORCID: 0000-0002-2564-4238 | E-Posta: irina.drobot@yaboo.com
Technician of University of Civil Engineering Bucharest, Faculty of Engineering in Foreign Languages, Department of Foreign Languages and Communication, Bucharest, Romania

Abstract

The purpose of the present paper is to look at a question which arises since we look at the history of literature, namely: do we read a story that relies on suspense and action, or a story that relies on reflections? We could see literature through the historical ages as relying on the distinction: We start as children, with their value full of adventures and suspense, we move on to older children to stories of adventures, or mystery and detectives' stories, and then, as adults or teenagers we can start reading novels based on reflections and on understanding the characters' psychology such as readings of various human personality types. During our teenage years, we become preoccupied by philosophical thinking, partly due to the natural questions and dilemmas we have due to our age, but also due to the fact that it is then when our capacity for abstract thinking is developing. At some point during adult age, we may feel the need to start dreaming again about various experiences in life, these adventures, these discovering other cultures, since we may find reading such stories as means of compensation against a daily life instead we find we cannot get out of. As adults, we may become more realistic in thinking about our future, and reading fictional works may help us compensate for what is lacking in our daily lives.

Participants in the meeting include: Irina Ana Drobot, Bilgi Seli, Suela Hoxha, Hall-14, and HALL-19 Sándor Földvári.

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THE DOMINANCE OF AMPHIBIAN SPECIES (ORDER ANURA) IN THE CULTIVATION AREA PRINGSEWU LAMPUNG INDONESIA

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ABSTRACT

Amphibians, especially the Anura order, are one of the Constituent animals of ecosystems that can be used as environmental bioindicators. The cultivation area is one of the good habitats for amphibians because it has a suitable habitat type for amphibians. The purpose of this study was to determine the dominance index of amphibian species (ordo Anura). The study was carried out on July-August 2023 in of Fajar Baru village, North Pagelaran District, Pringsewu Regency, Lampung Province, Indonesia. The study sites consisted of three habitat types (pond, river, and agroforestry land). The method used in this study is Line Transect combined with Visual Encounter Survey method. Data analysis was conducted using the Simpson dominance index (D) with the Formula $Di = \sum(Pi)^2$. The results of research showed that there were 9 amphibian species found with 89 total of individuals divided into 4 families. There are consist of : *Ingerophrynus biporcatus*, *Duttaphrynus melanostictus*, *Fejervarya limnocharis*, *Limnonectes macrodon*, *Microhyla achatina*, *Hylarana erythraea*, *Hylarana nicobariensis*, *Hylarana chalconota*, and *Hylarana nigrovittata*. The value of Simpson dominance index (D) on each type of pond habitat is 0.230, on the type of river habitat is 0.289, and on the type of agroforestry land habitat is 0.301. Therefore the dominance index value of the three habitat types included (<0.5), the dominance index value of the type of research location is classified as low category. The advice for local communities is to maintain humidity by cultivating trees in the area around ponds and agroforestry land. River habitats must be protected from being contaminated by waste which causes disruption of amphibian.

Keywords: Ordo Anura, Cultivation Area, Dominance of Species, Indonesia

INTRODUCTION

Amphibians, especially the order Anura is one of the Constituent animals of the ecosystem that can be used as a bioindicator of an environment. But its existence can be less attention in research in the world, whereas anura has a very important role for the balance of nature and for humans. Anura has various benefits for humans both ecologically and economically (Leksono and Firdaus, 2017).

Amphibians have an important role in the preparation of an ecosystem, ecologically amphibians act as primary consumer predators such as insects or other invertebrate animals (Arista *et al.*, 2017). In addition, in nature amphibians are predators of plant-destroying pests, therefore amphibians act as pest controllers (Subeno, 2018). Economically amphibians can be used as a source of animal protein (Nadya, 2018). So many benefits of Anura for life, then if Anura is introduced to the community is expected to increase public awareness of the environment.

In 2004 the International Union for Conservation of Nature released a report on the global extinction of amphibian populations. More than a third of the world's amphibian population is or has been in decline. The causes of threats to the preservation of amphibians can be environmental changes such as: water pollution, destruction of native habitats, the introduction of exotic species, diseases, and parasites. If one of its habitats is damaged or polluted, it will certainly interfere with the development processes of these amphibians and may even cause extinction in certain types. In addition, overfishing can also threaten amphibian populations in these ecosystems.

The cultivation area is one of the good habitats for amphibians because it has a suitable habitat type for amphibians. A cultivated area is a defined territory with the main function of being cultivated on the basis of the conditions and potential of Natural Resources, Human Resources and artificial resources. So that many activities of the surrounding community to utilize the results of the cultivation area. This will affect the habitat of wildlife, especially the influence in the dominance of amphibian species in a habitat. According to Edo *et al.*, (2022) the higher the human activity in forest areas, the higher the rate of forest destruction, causing wildlife habitats to become narrow and forcing wildlife to find new movement space. Based on the above problems the purpose of this research is to determine the dominance of amphibian species in the Cultivation Area of Fajar Baru Village, North Pagelaran District, Pringsewu Regency Lampung, Indonesia.

METHODOLOGY

Time and Location of Research

This research was carried out in July-August 2023, in the cultivation area, Fajar Baru village, north Pagelaran District, Pringsewu Regency, Lampung Province, Indonesia. Some of the habitat types observed include ponds, rivers, and agroforestry land. map of research locations can be seen in (Figure 1.) below.

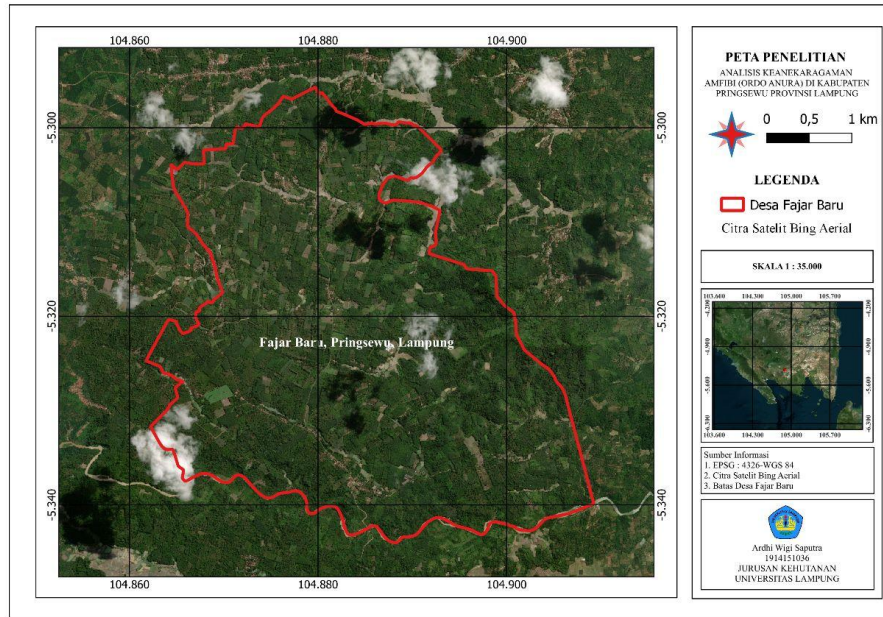


Figure 5. map of research location

Tools and Objects

The tools used in this research are headlamp and flashlight (serves as a means of lighting at night), digital clock (serves as a time meter), stationery and tally sheet (serves as a recording), avenza maps, and GPS (serves as a determination of the direction of the research location). The materials used in this research are amphibian species (ordo Anura).

Data Retrieval Methods

The method used in this research is Line Transect combined with Visual Encounter Survey. Observation by looking for amphibians that are around the transect path. This method is usually carried out along a path, in a plot, along the side of a river, around the edge of a pond, and so on, as long as samples of amphibians can be seen.

Before the removal of amphibian species, the determination of the habitat path is carried out. Making observation path is divided into 2 lines. In the river habitat type, a path with a length of 300 meters is made by following the river, the width of the path is 5 meters to the right and 5 meters to the left of the river body. In the habitat type of agroforestry land, the path is made with a length of 400 meters with a path width of 5 meters to the right and 5 meters to the left. Sketch of the research path can be seen in (Figure 2.) below.

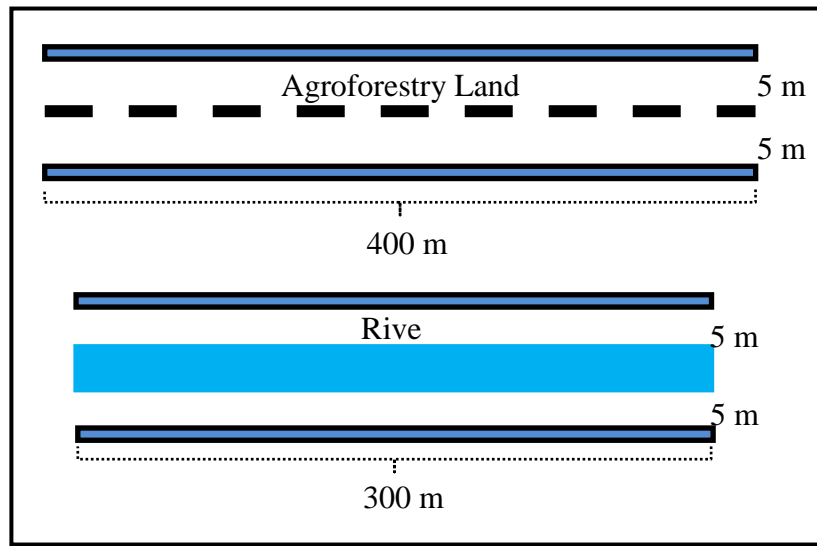


Figure 2. Sketch of observation path on agroforestry and River Land type.

Data analysis

The data obtained were analyzed using amphibian dominance index (Simpson) analysis. The dominance index is the sum of each species ' significance or value in relation to the community as a whole. The type dominance index (Simpson) is calculated using the formula.

$$Di = \sum(Pi)^2$$

Description :

Di = dominance index of type to-i

Pi = proportion of significant value of type to-i

Simpson's Index (D):

$0 < 0.5$ = low

$0.5 < 0.75$ = medium

$0.75 < 1$ = High (Tantap *et al.*, 2022).

RESULT AND DISCUSSION

The results of research showed that there were 9 amphibian species found with 89 total of individuals divided into 4 families. There are consist of : *Ingerophrynus biporcatus*, *Duttaphrynus melanostictus*, *Fejervarya limnocharis*, *Limnonectes macrodon*, *Microhyla achatina*, *Hylarana erythraea*, *Hylarana nicobariensis*, *Hylarana chalconota*, and *Hylarana nigrovittata*.

Table 4. Amphibian Species (Order Anura) Found at the Research Location.

Family	Species Name	Type of Habitat			Total
		Pond	River	Agroforestry	
Ranidae	<i>Hylarana chalconota</i>	16			16
	<i>Hylarana nicobariensis</i>	6	6		12
	<i>Hylarana erythraea</i>	15			15
	<i>Hylarana nigrovittata</i>		5	3	8
Microhylidae	<i>Microhyla achatina</i>			10	10
Dicroglossidae	<i>Limnonectes macrodon</i>	3	3		6
	<i>Fejervarya limnocharis</i>	5		5	10
Bufonidae	<i>Duttaphrynus melanostictus</i>			5	5
	<i>Ingerophrynus biporcatus</i>	5	2		7
Total Individu		50	16	23	89

The results of the observations presented in (Table 1.) shows the total number of amphibian individuals (order Anura) which is 89 individuals belonging to 4 Families and 9 species of amphibians. The difference in the number of amphibian species found at the research site is more than the study (Edo et al., 2022) in the Oelsonbai Special Purpose forest area, Fatukoa Village, Maulafa District, Kupang City, East Nusa Tenggara province, Indonesia. There are only 5 species of amphibians. This difference is due to several factors including

the location of the research site and the length of time in data retrieval in the field. The amphibian species found can be seen in Figure 3.

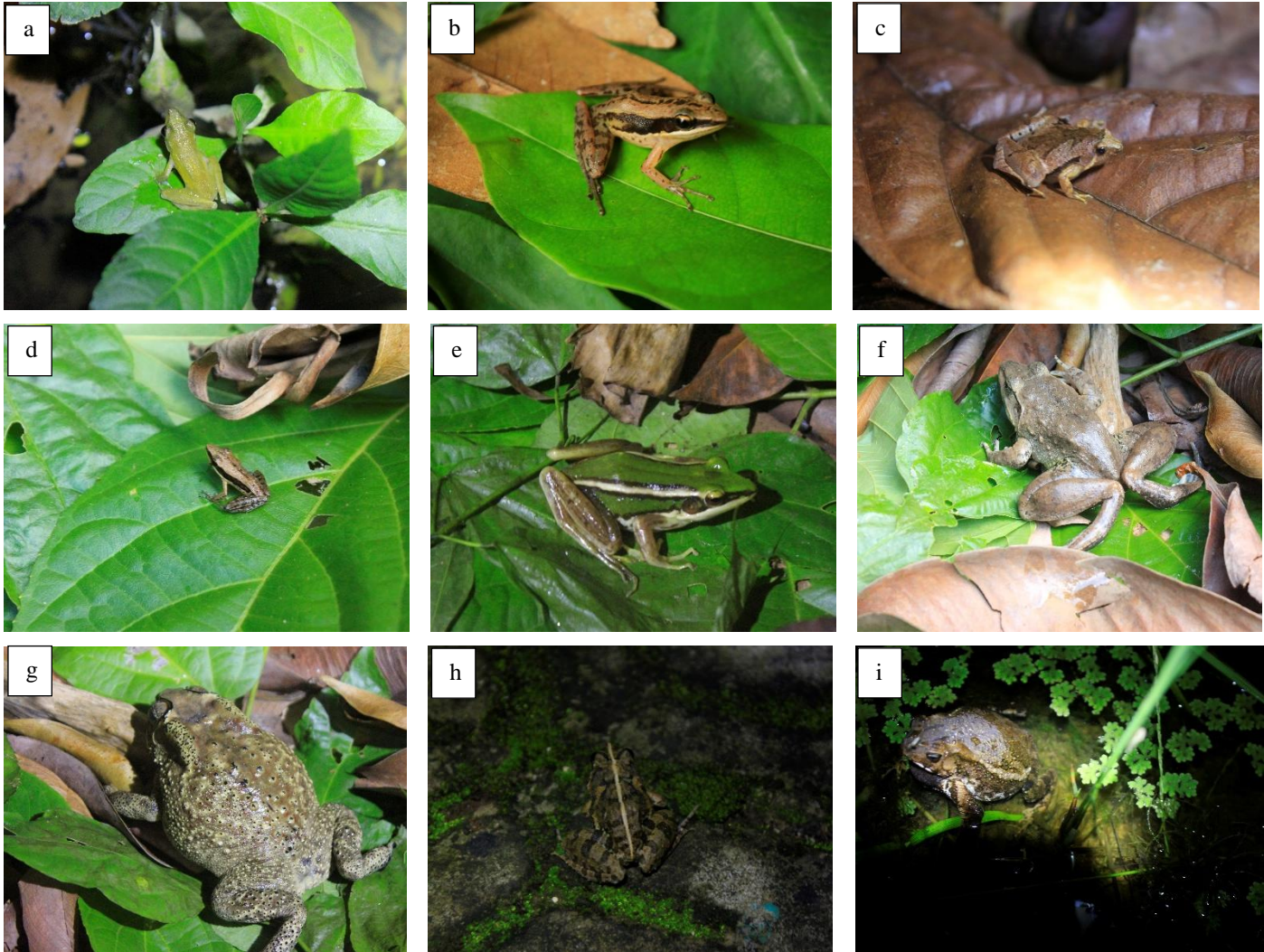


Figure 3. Types of amphibians found in research sites. (a) *Hylarana chalconota*; (b) *Hylarana nicobariensis*; (c) *Microhyla achatina*; (d) *Hylarana nigrovittata*; (e) *Hylarana erythraea*; (f) *Limnonectes macrodon*; (g) *Duttaphrynus melanostictus*; (h) *Fejervarya limnocharis*; (i) *Ingerophrynus biporcatus*.

The type dominance index is used to determine the extent to which one group of biota dominates another group. Considerable dominance will lead to unstable and depressed communities (Febrian et al., 2022). The dominance index describes the pattern of concentration and spread of species dominance in an ecosystem (Nuraina et al., 2018). The type (Simpson) dominance index of amphibians (Ordo Anura) is described in (Figure.4).

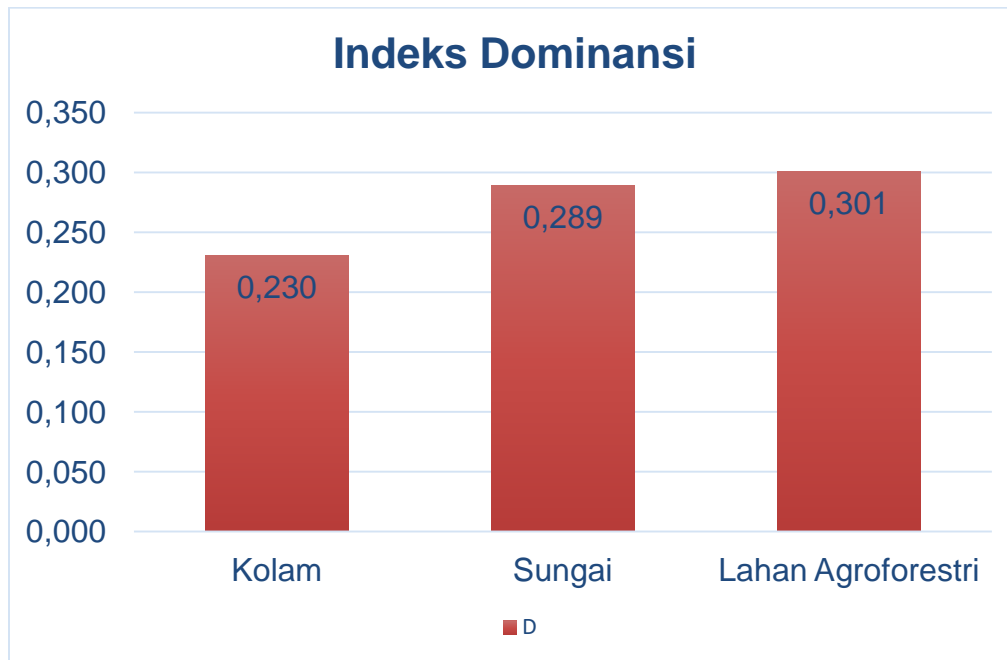


Figure 4. Simpson dominance index (D) of amphibians (order Anura) in three types of habitat (ponds, rivers and agroforestry land).

Based on the calculation of the simpson dominance index, the value obtained on the type of pond habitat is 0.230, on the type of river habitat is 0.289, and on the type of agroforestry land habitat is 0.301. The dominance index values produced in the three different habitat types at the study site showed that the habitat type of agroforestry land had a higher dominance index value than the other two habitat types. However, the dominance index value of the three habitat types is less than 0.5, which means that the criteria of dominance value is low. This figure is not far adrift from what was obtained by Anwar (2023) at KTH Harapan Sentosa which is 0.343 with the species that dominates is polypedates leucomystax and at KTH Margo Rukun which is 0.361 with the species that dominates is ranidae. This shows that the three habitat types in the cultivation area of Fajar Baru village, Pagelaran Utara Pringsewu Sub-District, do not have amphibian species (Ordo Anura) that dominate. According to Rafi *et al.*, (2022) the differences in the variety of types of Anura that predominate can also be influenced by rainfall and the characteristics of the watershed.

CONCLUSION AND ADVICE

From the results of the research it can be concluded that there are no types of amphibians that dominate in each habitat in the cultivation area, Pringsewu, Lampung, Indonesia, because the value of the dominance index (D) in each habitat type $<0,5$. The advice for local communities is to maintain humidity by cultivating trees in the area around ponds and agroforestry land. River habitats must be protected from being contaminated by waste which causes disruption of amphibian.

REFERENCES

- Anwar, K., Darmawan, A., Dewi, B. S., Fitriana, Y. R., Febryano, I. G. 2023. Keanekaragaman Amfibi Pada Agroforestri di Areal Kelola KPH Batutege Provinsi Lampung. *Makila: Jurnal Penelitian Kehutanan*. 17(1):26-44.
- Arista, A., Winarno, G. D., dan Hilmanto, R. 2017. Keanekaragaman Jenis Amfibi Untuk Mendukung Kegiatan Ekowisata di Desa Braja Harjosari Kabupaten Lampung Timur. *Jurnal Biosfera*. Vol. 34, No.3 : 103-109.
- Edo, E., Purnama, M. M. E., Pramatana, F. 2022. Keanekaragaman Jenis Amfibi di Kawasan Hutan Dengan Tujuan Khusus Oelsonbai, Kelurahan Fatukoa, Kecamatan Maulafa, Kota Kupang, Provinsi Nusa Tenggara Timur. *Jurnal Wana Lestari*. 4(2); 408-419.
- Febrian, I., Nursaadah, E., Karyadi, B. 2022. Analisis Indeks Keanekaragaman, Keragaman, dan Dominansi Ikan di Sungai Aur Lemau Kabupaten Bengkulu Tengah. *Bioscientist: Jurnal Ilmiah Biolog*. 10(2): 600-612.
- Leksono, S.M. and Firdaus, N. 2017. Pemanfaatan Keanekaragaman Amfibi (Ordo Anura) di Kawasan Cagar Alam Rawa Danau Serang Banten Sebagai Material Edu-Ekowisata. *Proceeding Biology Education Conference*. Vol.14, No.1 : 75-78.
- Nadya, H. 2018. Inventarisasi Keanekaragaman Amfibi di Kawasan Wisata Air Terjun Bajuin Kabupaten Tanah Laut. *Jurnal Pendidikan Hayati*. Vol.4, No.2 : 85 – 92.
- Nuraina, I., Fahrizal., Prayogo, H. 2018. Analisa Komposisi dan Keanekaragaman Jenis Tegakan Penyusun Hutan Tembawang Jelomuk di Desa Meta Bersatu Kecamatan Sayan Kabupaten Melawi. *Jurnal Hutan Lestari*. 6(1): 137-146.
- Rafi, M., Nugraha, F. A. D. 2022. Keanekaragaman Jenis Anura Daerah Cagar Alam Lembah Anai Kabupaten Tanah Datar Sumatera Barat. *Jurnal Serambi Biologi*. 7(1): 52-58.
- Subeno. 2018. Distribusi dan Keanekaragaman Herpetofauna di Hulu Sungai Gunung Sindoro, Jawa Tengah. *Jurnal Ilmu Kehutanan*. 12(1): 40-51.
- Tantap, G. O., Purnama, M. M. E., Pramatana, F. 2022. Keanekaragaman Jenis Amfibi (Ordo Anura) Di Kawasan Hutan Penelitian Bu'at-So'e Kecamatan Mollo Selatan Kabupaten Timor Tengah Selatan Provinsi Nusa Tenggara Timur. *Jurnal Wana Lestari*. 4(2): 275-282.
- Yunus, F., Lambui, O., Suwastika, I. N. (2017). Kelimpahan mikroorganisme tanah pada sistem perkebunan kakao (*Theobroma cacao* L.) semi intensif dan non intensif. *Natural Science: Journal of Science and Technology*. 6(3):194-205.