

**PENINGKATAN STATUS KEANEKARAGAMAN HAYATI FAUNA DAN FLORA  
DI KAWASAN KONSERVASI ALAM  
PT SOLUSI BANGUN INDONESIA TBK PABRIK TUBAN**

**1. PENINGKATAN KEANEKARAGAMAN HAYATI FAUNA**

Keanekaragaman hayati atau indeks diversitas merupakan pernyataan mengenai berbagai macam bentuk (variasi), jumlah sifat, yang terdapat pada berbagai tingkatan makhluk hidup. Habitat, pemanfaatan, dan upaya pelestarian makhluk hidup dapat mempengaruhi status dan kecenderungan keanekaragaman hayati. Terjadi peningkatan status keanekaragaman hayati dari tahun ke tahun. Salah satu program perlindungan keanekaragaman hayati yaitu pemantauan kondisi keanekaragaman hayati. Dengan adanya pemantauan ini, maka akan diketahui tingkat keragaman flora maupun fauna (Indeks Shannon Winner/H'). Semakin tinggi indeks Shannon Winner menunjukkan bahwa dalam wilayah tersebut terdapat berbagai jenis flora maupun fauna dengan kelimpahan yang sama/merata. Berdasarkan surat penetapan spesies yang dilindungi yang ditandatangani oleh General Manager pabrik Tuban, adalah fauna sebagai berikut :

| No | Famili        | Spesies                            | Nama Indonesia        | Status Perlindungan                      |
|----|---------------|------------------------------------|-----------------------|------------------------------------------|
| 1  | Accipitridae  | <i>Elanus caeruleus</i>            | Elang tikus           | Permen LH No.106 tahun 2018, IUCN Lamp 2 |
| 2  | Accipitridae  | <i>Spilornis cheela</i>            | Elang-ular bido       | Permen LH No.106 tahun 2018, IUCN Lamp 2 |
| 3  | Ardeidae      | <i>Ixobrychus eurhythmus</i>       | Bambangan cokelat     | Permen LH No. 106 tahun 2018             |
| 4  | Cuculidae     | <i>Centropus nigrorufus</i>        | Bubut Jawa            | Permen LH No. 106 tahun 2018             |
| 5  | Estrildidae   | <i>Lonchura oryzivora</i>          | Gelatik jawa          | Permen LH No.106 tahun 2018, IUCN Lamp 2 |
| 6  | Falconidae    | <i>Falco moluccensis</i>           | Alap-alap sapi        | Permen LH No.106 tahun 2018, IUCN Lamp 2 |
| 7  | Laridae       | <i>Chlidonias leucopterus</i>      | Dara-laut Sayap-putih | Permen LH No. 106 tahun 2018             |
| 8  | Podicipedidae | <i>Tachybaptus novaehollandiae</i> | Titihan Australia     | Permen LH No. 106 tahun 2018             |
| 9  | Rhipiduridae  | <i>Rhipidura javanica</i>          | Kipasan Belang        | Permen LH No. 106 tahun 2018             |

Pemantauan keanekaragaman hayati dilakukan setiap 1 tahun sekali dimana lokasi titik pantau dibagi menjadi beberapa lokasi seperti kawasan perbukitan, kolam mliwang, dan Dam Sawir/Greenbelt. Titik pantau ini berdasarkan penetapan kawasan konservasi yang ditetapkan oleh General Manager pada tahun 2015. Pemantauan fauna dilakukan terhadap jenis avifauna, herpetofauna dan mamalia. Lokasi pemantauan digambarkan dalam peta berikut ini.

Berdasarkan pemantauan biodiversity tahun 2026, ditemukan kesimpulan sebagai berikut ;

1. Ditemukan 56 Jenis Avifauna dengan jumlah individu mencapai 1852 dari berbagai lokasi titik pemantauan
2. Ditemukan 61 Jenis insecta denan jumlah individu mencapai 787 dari berbagai lokasi titik pemantauan
3. Ditemukan 17 Jenis herpetofauna denan jumlah individu mencapai 304 dari berbagai lokasi titik pemantauan
- 4.



## 1. DATA STATUS SUMBERDAYA KEANEKARAGAMAN HAYATI FAUNA

### A. Burung/Avivauna

Pemantauan keanekaragamann hayati di Solusi Bangun Indonesia Pabrik Tuban dilakukan setiap tahun .Total temuan burung yang terdapat di kawasan Konservasi PT Solusi Bangun Indonesia Tbk Pabrik Tuban pada tahun 2021 hingga 2024 lebih

dari 50 yang keberadaannya selalu ada, pengamatan ini dilakukan di kawasan konservasi perbukitan dan areal perluasan habitat kolam Mliwang, *greenbelt*, kawasan pabrik dan perbukitan. Indeks keanekaragaman hayati dihitung dengan metode Shannon Wiener dengan rumus perhitungan sebagai berikut :

$$H' = -\sum P_i \ln(P_i), \text{ dimana } P_i = (n_i/N)$$

Keterangan:

$H'$  = Indeks keanekaragaman Shannon-Wiener,

$n_i$  = Jumlah individu jenis ke- $i$

$N$  = Jumlah individu seluruh jenis

Kriteria nilai indeks keanekaragaman Shannon-Wiener ( $H'$ )

$\leq 1$  : keanekaragaman rendah,

$1 < 3$  : Keanekaragaman sedang

$\geq 3$  : Keanekaragaman tinggi

Berikut adalah tabel hasil pengamatan jenis-jenis burung yang terdapat di kawasan konservasi dan indeks keanekaragaman hayati tahun 2022 -2026 adalah sebagai berikut

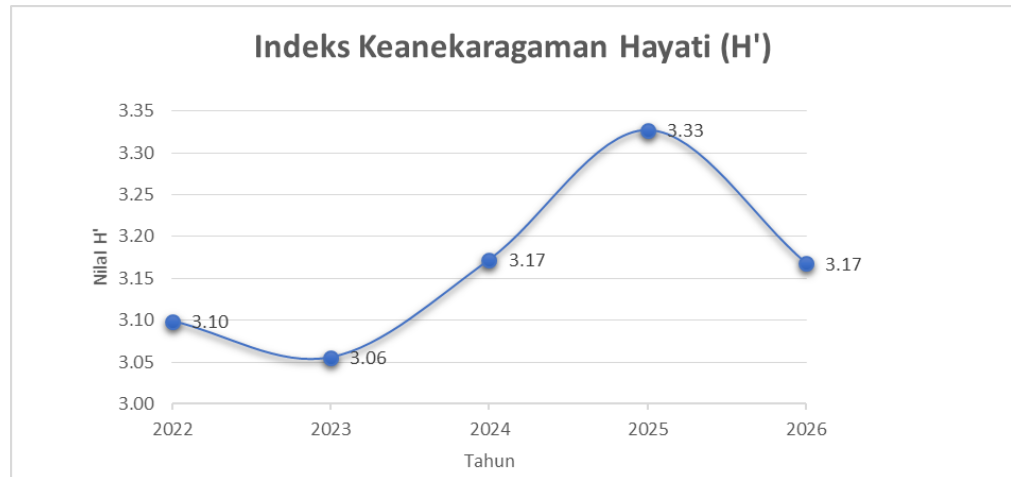
**a. Area Konservasi Kawasan Greenbelt/Dam Sawir**

**Tabel indeks Shannon wiener ( $H'$ ) Avifauna area greenbelt/dam sawir 2022 - 2026**

| No | Famili        | Nama Ilmiah                       | Nama Indonesia       | P106 | IUCN | CITES  | GREENBELT   |             |             |             |             |
|----|---------------|-----------------------------------|----------------------|------|------|--------|-------------|-------------|-------------|-------------|-------------|
|    | AVIFAUNA      |                                   |                      |      |      |        | 2022        | 2023        | 2024        | 2025        | 2026        |
| 1  | Acanthizidae  | <i>Gerygone sulphurea</i>         | Remetuk laut         | -    | LC   | -      | 3           | 4           | 4           | 5           | 1           |
| 2  | Accipitridae  | <i>Elanus caeruleus</i>           | Elang tikus          | Ya   | LC   | App-II | 1           |             |             |             |             |
| 3  | Accipitridae  | <i>Spilornis cheela</i>           | Elang-ular bido      | Ya   | LC   | App-II | 2           |             |             |             |             |
| 4  | Aegithinidae  | <i>Aegithina tiphia</i>           | Cipoh kacat          | -    | LC   | -      | 7           | 3           | 3           |             |             |
| 5  | Alcedinidae   | <i>Halcyon cyanoventris</i>       | Cekakak jawa         | -    | LC   | -      |             |             |             | 2           |             |
| 6  | Alcedinidae   | <i>Todiramphus chloris</i>        | Cekakak sungai       | -    | LC   | -      | 4           |             | 5           | 6           | 4           |
| 7  | Alcedinidae   | <i>Todiramphus sanctus</i>        | Cekakak australia    | -    | LC   | -      |             | 1           |             | 1           |             |
| 8  | Apodidae      | <i>Aerodramus maximus</i>         | Walet sarang-hitam   | -    | LC   | -      |             |             | 2           | 2           | 2           |
| 9  | Apodidae      | <i>Apus nipalensis</i>            | Kapinis rumah        | -    | LC   | -      | 9           | 2           | 7           | 4           |             |
| 10 | Apodidae      | <i>Collocalia linchi</i>          | Walet linci          | -    | LC   | -      | 41          | 45          | 47          | 32          | 24          |
| 11 | Ardeidae      | <i>Ardeola speciosa</i>           | Blekok sawah         | -    | LC   | -      |             |             |             | 4           |             |
| 12 | Ardeidae      | <i>Bubulcus ibis</i>              | Kuntul kerbau        | -    | LC   | -      |             |             |             | 4           | 4           |
| 13 | Ardeidae      | <i>Egretta garzetta</i>           | Kuntul kecil         | -    | LC   | -      |             |             |             | 1           | 1           |
| 14 | Artamidae     | <i>Artamus leucorhynchus</i>      | Kekep babi           | -    | LC   | -      | 6           | 8           | 5           | 4           | 4           |
| 15 | Campephagidae | <i>Lalage nigra</i>               | Kapasan kemiri       | -    | LC   | -      | 15          | 9           | 17          | 17          | 17          |
| 16 | Campephagidae | <i>Pericrocotus cinnamomeus</i>   | Sepah kecil          | -    | LC   | -      |             | 13          | 19          | 12          | 12          |
| 17 | Caprimulgidae | <i>Caprimulgus affinis</i>        | Cabak kota           | -    | LC   | -      | 8           |             | 4           | 2           | 2           |
| 18 | Cisticolidae  | <i>Cisticola exilis</i>           | Cici merah           | -    | LC   | -      | 1           | 2           | 2           |             |             |
| 19 | Cisticolidae  | <i>Cisticola juncidis</i>         | Cici padi            | -    | LC   | -      | 6           | 6           | 7           | 5           |             |
| 20 | Cisticolidae  | <i>Orthotomus ruficeps</i>        | Cinene kelabu        | -    | LC   | -      |             | 1           | 2           | 2           |             |
| 21 | Cisticolidae  | <i>Orthotomus sutorius</i>        | Cinene pisang        | -    | LC   | -      | 18          | 7           | 8           | 7           | 7           |
| 22 | Cisticolidae  | <i>Prinia inornata</i>            | Perenjak padi        | -    | LC   | -      | 18          | 5           | 6           | 8           |             |
| 23 | Cisticolidae  | <i>Prinia polychroa</i>           | Perenjak cokelat     | -    | LC   | -      |             | 4           | 16          | 4           | 4           |
| 24 | Columbidae    | <i>Geopelia striata</i>           | Perkutut jawa        | -    | LC   | -      | 24          | 27          | 20          | 28          | 28          |
| 25 | Columbidae    | <i>Spilopelia chinensis</i>       | Tekukur biasa        | -    | LC   | -      | 8           | 13          | 9           | 5           | 5           |
| 26 | Columbidae    | <i>Streptopelia bitorquata</i>    | Dederuk jawa         | -    | LC   | -      |             | 1           |             | 3           | 3           |
| 27 | Cuculidae     | <i>Cacomantis merulinus</i>       | Wiwik kelabu         | -    | LC   | -      | 2           |             | 1           | 3           |             |
| 28 | Cuculidae     | <i>Cacomantis sonneratii</i>      | Wiwik lurik          | -    | LC   | -      |             |             | 1           |             |             |
| 29 | Cuculidae     | <i>Cacomantis variolosus</i>      | Wiwik unguing        | -    | LC   | -      |             |             |             |             | 3           |
| 30 | Cuculidae     | <i>Centropus bengalensis</i>      | Bubut alang-alang    | -    | LC   | -      | 2           | 1           | 3           |             |             |
| 31 | Cuculidae     | <i>Centropus nigrorufus</i>       | Bubut jawa           | Ya   | VU   | -      |             |             |             | 2           | 2           |
| 32 | Dicaeidae     | <i>Dicaeum trochileum</i>         | Cabai jawa           | -    | LC   | -      | 15          | 8           | 19          | 9           | 9           |
| 33 | Estrildidae   | <i>Lonchura leucogastroides</i>   | Bondol jawa          | -    | LC   | -      | 53          |             | 38          | 23          | 23          |
| 34 | Estrildidae   | <i>Lonchura maja</i>              | Bondol haji          | -    | LC   | -      |             | 11          | 24          | 14          | 14          |
| 35 | Estrildidae   | <i>Lonchura punctulata</i>        | Bondol peking        | -    | LC   | -      | 70          | 14          | 54          | 45          | 45          |
| 36 | Falconidae    | <i>Falco moluccensis</i>          | Alap-alap sapi       | Ya   | LC   | -      |             | 1           |             |             |             |
| 37 | Hirundinidae  | <i>Hirundo javanica</i>           | Layang-layang batu   | -    | LC   | -      | 15          |             | 25          | 7           | 7           |
| 38 | Hirundinidae  | <i>Hirundo rustica</i>            | Layang-layang asia   | -    | LC   | -      | 10          |             |             |             |             |
| 39 | Hirundinidae  | <i>Hirundo striolata</i>          | Layang-layang loreng | -    | LC   | -      | 19          | 9           | 14          | 8           | 8           |
| 40 | Laniidae      | <i>Lanius schach</i>              | Bentet kelabu        | -    | LC   | -      | 2           |             | 1           |             |             |
| 41 | Megalaimidae  | <i>Psilopogon haemacephalus</i>   | Takur ungu-ungku     | -    | LC   | -      | 1           | 3           | 2           | 7           | 7           |
| 42 | Meropidae     | <i>Merops leschenaulti</i>        | Kirik-kirik senja    | -    | LC   | -      |             | 2           | 2           | 4           | 4           |
| 43 | Nectariniidae | <i>Anthreptes malacensis</i>      | Burung-madu kelapa   | -    | LC   | -      | 4           | 1           | 4           | 4           | 4           |
| 44 | Nectariniidae | <i>Cinnyris jugularis</i>         | Burung-madu sriganti | -    | LC   | -      | 14          |             | 14          | 9           | 9           |
| 45 | Passeridae    | <i>Passer montanus</i>            | Burung-gereja erasia | -    | LC   | -      | 22          | 13          | 10          | 12          | 12          |
| 46 | Picidae       | <i>Dendrocopos macei</i>          | Caladi ulam          | -    | LC   | -      | 13          | 10          | 10          | 10          | 10          |
| 47 | Picidae       | <i>Picoides moluccensis</i>       | Caladi tilik         | -    | LC   | -      | 3           | 6           | 1           | 2           | 2           |
| 48 | Pycnonotidae  | <i>Pycnonotus aurigaster</i>      | Cucak kutilang       | -    | LC   | -      | 31          | 7           | 38          | 24          | 24          |
| 49 | Pycnonotidae  | <i>Pycnonotus goiavier</i>        | Merbah cerucuk       | -    | LC   | -      |             | 4           | 7           | 12          | 12          |
| 50 | Rhipiduridae  | <i>Rhipidura javanica</i>         | Kipasan belang       | Ya   | LC   | -      | 6           | 6           | 3           | 2           | 2           |
| 51 | Sturnidae     | <i>Acridotheres javanicus</i>     | Jalak kerbau         | -    | VU   | -      | 5           |             |             | 4           | 4           |
| 52 | Turnicidae    | <i>Turnix suscitator</i>          | Gemak loreng         | -    | LC   | -      | 12          |             | 7           | 13          | 13          |
| 53 | Turnicidae    | <i>Turnix sylvaticus</i>          | Gemak tegalan        | -    | LC   | -      | 4           | 4           |             |             |             |
|    |               | <b>Jumlah Individu</b>            |                      |      |      |        | <b>474</b>  | <b>251</b>  | <b>461</b>  | <b>372</b>  | <b>332</b>  |
|    |               | <b>Jumlah Jenis</b>               |                      |      |      |        | <b>36</b>   | <b>33</b>   | <b>39</b>   | <b>42</b>   | <b>35</b>   |
|    |               | <b>Indeks Keanekaragaman (H')</b> |                      |      |      |        | <b>3.10</b> | <b>3.06</b> | <b>3.17</b> | <b>3.33</b> | <b>3.17</b> |

\*Tanda Kuning spesies yang ditetapkan untuk dilindungi

Berdasarkan tabel di atas maka dapat dibuat grafik indeks keanekaragaman hayati jenis avifauna di area greenbelt



Berdasarkan tabel, terdapat 3 famili yang dilindungi yang ditemukan di area konservasi kawasan greenbelt, diantaranya :

1. Elanus caeruleus/Elang tikus
2. Spilornis cheela/Elang-ular bido
3. Rhipidura javanica/Kipasan belang



Elanus caeruleus/Elang tikus

Spilornis cheela/Elang-ular bido



Rhipidura javanica/Kipas an belang

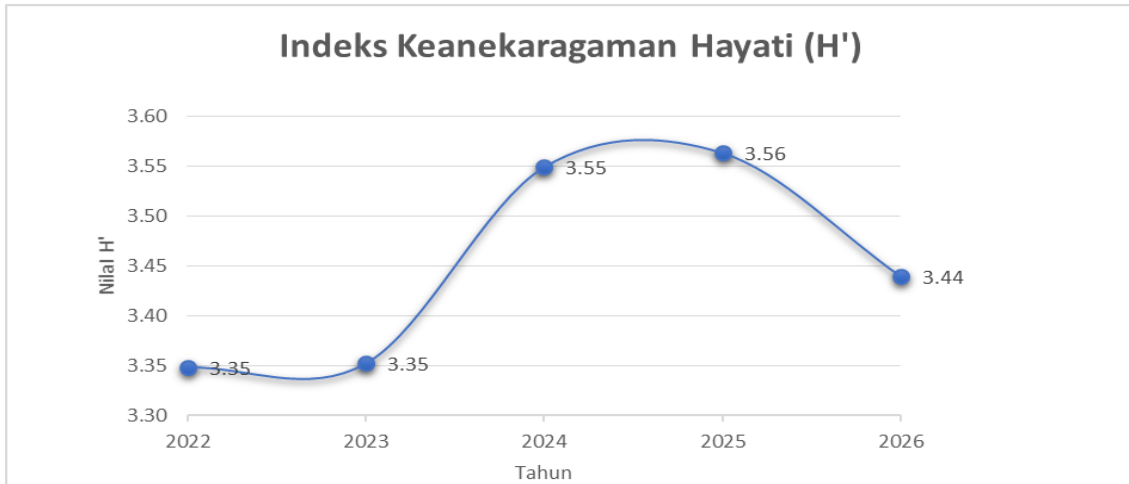
## b. Area Konservasi Kawasan Kolam Mliwang

**Tabel indeks Shannon wiener (H') Avifauna area kolam Mliwang 2022 – 2026**

| No | Famili        | Nama Ilmiah                        | Nama Indonesia        | P106 | IUCN | CITES  | KOLAM MLIWANG |      |      |      |      |
|----|---------------|------------------------------------|-----------------------|------|------|--------|---------------|------|------|------|------|
|    |               |                                    |                       |      |      |        | 2022          | 2023 | 2024 | 2025 | 2026 |
| 1  | AVIFAUNA      |                                    |                       |      |      |        |               |      |      |      |      |
| 1  | Acanthizidae  | <i>Gerygone sulphurea</i>          | Remetuk laut          | -    | LC   | -      | 2             | 8    | 5    | 6    | 4    |
| 2  | Accipitridae  | <i>Elanus caeruleus</i>            | Elang tikus           | Ya   | LC   | App-II |               |      |      |      | 2    |
| 3  | Aegithinidae  | <i>Aegithina tiphia</i>            | Cipoh kacat           | -    | LC   | -      | 6             |      | 3    | 2    |      |
| 4  | Alcedinidae   | <i>Alcedo coerulescens</i>         | Raja-udang biru       | -    | LC   | -      | 6             | 5    | 7    | 3    | 3    |
| 5  | Alcedinidae   | <i>Alcedo meninting</i>            | Raja-udang meninting  | -    | LC   | -      | 1             | 1    | 2    | 2    |      |
| 6  | Alcedinidae   | <i>Halcyon cyanoventris</i>        | Cekakak jawa          | -    | LC   | -      |               |      | 2    | 2    | 1    |
| 7  | Alcedinidae   | <i>Todiramphus chloris</i>         | Cekakak sungai        | -    | LC   | -      | 2             | 6    | 4    | 3    |      |
| 8  | Alcedinidae   | <i>Todiramphus sanctus</i>         | Cekakak australia     | -    | LC   | -      | 2             | 2    | 1    | 2    |      |
| 9  | Anatidae      | <i>Anas gibberifrons</i>           | Itik benjut           | -    | LC   | -      |               |      | 2    | 4    | 3    |
| 10 | Anatidae      | <i>Dendrocygna javanica</i>        | Belibis polos         | -    | LC   | -      | 24            |      | 15   | 59   | 47   |
| 11 | Anhingidae    | <i>Anhinga melanogaster</i>        | Pecuk-ular asia       | Ya   | NT   | -      |               | 5    | 3    | 4    | 4    |
| 12 | Apodidae      | <i>Aerodramus maximus</i>          | Walet sarang-hitam    | Ya   | LC   | -      | 3             | 5    | 10   | 5    | 4    |
| 13 | Apodidae      | <i>Apus nipalensis</i>             | Kapinis rumah         | Ya   | LC   | -      | 6             | 1    | 17   | 9    | 9    |
| 14 | Apodidae      | <i>Collocalia linchi</i>           | Walet linci           | Ya   | LC   | -      | 38            | 58   | 47   | 46   | 37   |
| 15 | Ardeidae      | <i>Ardea cinerea</i>               | Cangak abu            | Ya   | LC   | -      |               | 2    | 1    |      |      |
| 16 | Ardeidae      | <i>Ardea purpurea</i>              | Cangak merah          | Ya   | LC   | -      | 3             | 2    | 2    | 3    | 3    |
| 17 | Ardeidae      | <i>Ardeola speciosa</i>            | Blekok sawah          | Ya   | LC   | -      | 6             | 9    | 5    | 5    | 5    |
| 18 | Ardeidae      | <i>Bubulcus ibis</i>               | Kuntul kerbau         | Ya   | LC   | -      | 14            | 17   | 17   | 6    | 6    |
| 19 | Ardeidae      | <i>Butorides striata</i>           | Kokokan laut          | Ya   | LC   | -      | 2             | 5    | 6    | 5    | 5    |
| 20 | Ardeidae      | <i>Egretta garzetta</i>            | Kuntul kecil          | Ya   | LC   | -      | 10            | 2    | 2    | 2    | 2    |
| 21 | Ardeidae      | <i>Ixobrychus eurhythmus</i>       | Bambangan cokelat     | Ya   | LC   | -      | 4             |      |      |      |      |
| 22 | Ardeidae      | <i>Ixobrychus sinensis</i>         | Bambangan kuning      | Ya   | LC   | -      | 2             |      |      |      |      |
| 23 | Ardeidae      | <i>Nycticorax nycticorax</i>       | Kowak-malam abu       | Ya   | LC   | -      | 3             | 1    | 1    | 2    | 2    |
| 24 | Artamidae     | <i>Artamus leucorhynchus</i>       | Kekep babi            | Ya   | LC   | -      | 3             | 8    | 3    | 2    | 2    |
| 25 | Campephagidae | <i>Lalage nigra</i>                | Kapasan kemiri        | Ya   | LC   | -      | 10            | 6    | 9    | 9    | 9    |
| 26 | Campephagidae | <i>Pericrocotus cinnamomeus</i>    | Sepah kecil           | Ya   | LC   | -      | 12            |      | 7    | 17   | 17   |
| 27 | Caprimulgidae | <i>Caprimulgus affinis</i>         | Cabak kota            | Ya   | LC   | -      | 3             | 8    | 2    | 4    | 4    |
| 28 | Caprimulgidae | <i>Caprimulgus macrurus</i>        | Cabak maling          | Ya   | LC   | -      |               |      | 1    | 3    | 3    |
| 29 | Charadriidae  | <i>Charadrius javanicus</i>        | Cerek jawa            | Ya   | LC   | -      | 2             |      | 3    | 2    | 2    |
| 30 | Cisticolidae  | <i>Cisticola exilis</i>            | Cici merah            | Ya   | LC   | -      | 2             | 2    | 3    | 2    |      |
| 31 | Cisticolidae  | <i>Cisticola juncidis</i>          | Cici padi             | Ya   | LC   | -      | 9             | 3    | 9    | 8    |      |
| 32 | Cisticolidae  | <i>Orthotomus ruficeps</i>         | Cinenen kelabu        | Ya   | LC   | -      | 5             | 3    |      |      |      |
| 33 | Cisticolidae  | <i>Orthotomus sutorius</i>         | Cinenen pisang        | Ya   | LC   | -      | 13            | 8    | 4    | 4    | 4    |
| 34 | Cisticolidae  | <i>Prinia familiaris</i>           | Perenjak jawa         | Ya   | NT   | -      |               | 4    | 2    |      |      |
| 35 | Cisticolidae  | <i>Prinia flavirostris</i>         | Perenjak rawa         | Ya   | LC   | -      |               |      | 3    | 2    | 2    |
| 36 | Cisticolidae  | <i>Prinia inornata</i>             | Perenjak padi         | Ya   | LC   | -      | 18            | 4    |      | 6    |      |
| 37 | Cisticolidae  | <i>Prinia polychroa</i>            | Perenjak cokelat      | Ya   | LC   | -      | 6             | 3    | 10   |      |      |
| 38 | Columbidae    | <i>Columba livia</i>               | Merpati batu          | Ya   | LC   | -      |               |      |      |      |      |
| 39 | Columbidae    | <i>Geopelia striata</i>            | Perkutut jawa         | Ya   | LC   | -      | 19            | 27   | 16   | 27   | 27   |
| 40 | Columbidae    | <i>Spilopelia chinensis</i>        | Tekukur biasa         | Ya   | LC   | -      | 8             | 3    | 9    | 7    | 7    |
| 41 | Columbidae    | <i>Streptopelia bitorquata</i>     | Dederuk jawa          | Ya   | LC   | -      |               |      | 1    | 5    | 5    |
| 42 | Cuculidae     | <i>Cacomantis merulinus</i>        | Wiwik kelabu          | Ya   | LC   | -      | 3             | 2    | 2    | 2    |      |
| 43 | Cuculidae     | <i>Cacomantis sonneratii</i>       | Wiwik lurik           | Ya   | LC   | -      | 1             | 3    |      | 1    |      |
| 44 | Cuculidae     | <i>Cacomantis variolosus</i>       | Wiwik uncuang         | Ya   | LC   | -      |               |      | 2    |      | 2    |
| 45 | Cuculidae     | <i>Centropus bengalensis</i>       | Bubut alang-alang     | Ya   | LC   | -      | 4             | 1    | 1    | 2    | 2    |
| 46 | Cuculidae     | <i>Centropus nigrorufus</i>        | Bubut jawa            | Ya   | VU   | -      | 1             | 1    | 2    | 5    | 5    |
| 47 | Dicaeidae     | <i>Dicaeum trochileum</i>          | Cabai jawa            | Ya   | LC   | -      | 12            | 12   | 23   | 11   | 11   |
| 48 | Estrildidae   | <i>Lonchura leucogastroides</i>    | Bondol jawa           | Ya   | LC   | -      | 52            | 17   | 39   | 27   | 27   |
| 49 | Estrildidae   | <i>Lonchura maja</i>               | Bondol haji           | Ya   | LC   | -      | 6             | 21   | 34   | 9    | 9    |
| 50 | Estrildidae   | <i>Lonchura oryzivora</i>          | Gelatik jawa          | Ya   | EN   | App-II | 3             |      |      |      |      |
| 51 | Estrildidae   | <i>Lonchura punctulata</i>         | Bondol peking         | Ya   | LC   | -      | 55            | 65   | 65   | 39   | 39   |
| 52 | Hirundinidae  | <i>Hirundo javanica</i>            | Layang-layang batu    | Ya   | LC   | -      | 18            | 12   | 28   | 9    | 9    |
| 53 | Hirundinidae  | <i>Hirundo rustica</i>             | Layang-layang asia    | Ya   | LC   | -      |               |      |      |      |      |
| 54 | Hirundinidae  | <i>Hirundo striolata</i>           | Layang-layang loreng  | Ya   | LC   | -      | 14            |      | 21   | 14   | 14   |
| 55 | Laniidae      | <i>Lanius schach</i>               | Bentet kelabu         | Ya   | LC   | -      | 1             | 1    |      |      |      |
| 56 | Lariidae      | <i>Chlidonias leucopterus</i>      | Dara-laut sayap-putih | Ya   | LC   | -      | 4             |      |      |      |      |
| 57 | Megalaimidae  | <i>Psilopogon haemacephalus</i>    | Takur ungkut-ungkut   | Ya   | LC   | -      |               | 1    | 4    | 4    | 4    |
| 58 | Nectariniidae | <i>Antheptes malacensis</i>        | Burung-madu kelapa    | Ya   | LC   | -      | 2             |      | 4    | 6    | 6    |
| 59 | Nectariniidae | <i>Cinnyris jugularis</i>          | Burung-madu sriganti  | Ya   | LC   | -      | 12            | 5    | 16   | 9    | 9    |
| 60 | Passeridae    | <i>Passer montanus</i>             | Burung-gereja erasia  | Ya   | LC   | -      | 38            | 18   | 23   | 17   | 17   |
| 61 | Picidae       | <i>Dendrocopos macei</i>           | Caladi ulam           | Ya   | LC   | -      | 8             | 2    | 7    | 7    | 7    |
| 62 | Picidae       | <i>Picoides moluccensis</i>        | Caladi tilik          | Ya   | LC   | -      |               | 4    | 2    | 1    | 1    |
| 63 | Podicipedidae | <i>Tachybaptus novaehollandiae</i> | Titihan australia     | Ya   | LC   | -      | 5             | 2    | 5    |      |      |
| 64 | Psittaculidae | <i>Psittacula alexandri</i>        | Betet biasa           | Ya   | NT   | App-II | 5             |      |      |      |      |
| 65 | Pycnonotidae  | <i>Pycnonotus aurigaster</i>       | Cucak kutilang        | Ya   | LC   | -      | 43            | 8    | 37   | 32   | 32   |
| 66 | Pycnonotidae  | <i>Pycnonotus goiavier</i>         | Merbah cerucuk        | Ya   | LC   | -      |               | 14   | 9    | 11   | 11   |
| 67 | Rallidae      | <i>Amamormis phoenicurus</i>       | Kareo padi            | Ya   | LC   | -      | 4             | 9    | 2    | 4    | 4    |
| 68 | Rallidae      | <i>Gallinula chloropus</i>         | Mandar batu           | Ya   | LC   | -      | 2             | 2    | 2    | 2    |      |
| 69 | Rallidae      | <i>Gallinula striata</i>           | Mandar-padi sintar    | Ya   | LC   | -      |               |      | 1    |      |      |
| 70 | Rhipiduridae  | <i>Rhipidura javanica</i>          | Kipasan belang        | Ya   | LC   | -      | 7             | 3    | 8    | 5    | 5    |
| 71 | Scolopacidae  | <i>Actitis hypoleucos</i>          | Trinil pantai         | Ya   | LC   | -      | 5             | 2    | 5    | 3    |      |
| 72 | Scolopacidae  | <i>Calidris ferruginea</i>         | Kedidi golgol         | Ya   | NT   | -      | 6             |      |      |      |      |
| 73 | Scolopacidae  | <i>Tringa glareola</i>             | Trinil semak          | Ya   | LC   | -      | 5             | 3    | 3    |      |      |
| 74 | Strigidae     | <i>Otus lempiji</i>                | Celepuk reban         | Ya   | LC   | -      | 1             | 6    | 2    | 9    |      |
| 75 | Sturnidae     | <i>Acridotheres javanicus</i>      | Jalak kerbau          | Ya   | VU   | -      | 2             |      |      | 3    |      |
| 76 | Turnicidae    | <i>Turnix suscitator</i>           | Gemak loreng          | Ya   | LC   | -      | 14            | 4    | 14   | 9    | 9    |
| 77 | Turnicidae    | <i>Turnix sylvaticus</i>           | Gemak tegalan         | Ya   | LC   | -      |               | 3    | 4    | 2    |      |
| 78 | Turnicidae    | <i>Tyto alba</i>                   | Serak jawa            | Ya   | LC   | -      |               |      | 1    | 7    | 7    |
| 79 | Turnicidae    | <i>Turnix sylvaticus</i>           | Gemak tegalan         | Ya   | LC   | -      | 60            | 54   | 64   | 60   | 48   |
| 80 | Turnicidae    | <i>Turnix sylvaticus</i>           | Gemak tegalan         | Ya   | LC   | -      | 3.35          | 3.35 | 3.55 | 3.56 | 3.44 |

\*Tanda Kuning spesies yang ditetapkan untuk dilindungi

Berdasarkan tabel di atas maka dapat dibuat grafik indeks keanekaragaman hayati jenis avifauna di area Kolam Mliwang



Jenis avifauna yang dilindungi berdasarkan penetapan jenis satwa yang ditetapkan oleh GM di area kawasan kolam mliwang lebih banyak dibandingkan kawasan lainnya. Berdasarkan tabel, terdapat 6 famili avifauna yang dilindungi yang ditemukan di area konservasi kawasan kolam mliwang, diantaranya :

1. Elanus caeruleus/Elang Tikus (Ditemukan di pemantauan 2026)
2. Ixobrychus eurhythmus/ Bambang coklat
3. Centropus nigrorufus/ Bubut jawa
4. Lonchura oryzivora/ Gelatik jawa
5. Spilornis cheela/Elang-ular bido
6. Chlidonias leucopterus/Dara-laut sayap-putih
7. Tachybaptus novaehollandiae/ Titihan Australia



Gelatik jawa

Bambangan coklat



Dara-laut sayap-putih

Titihan Australia

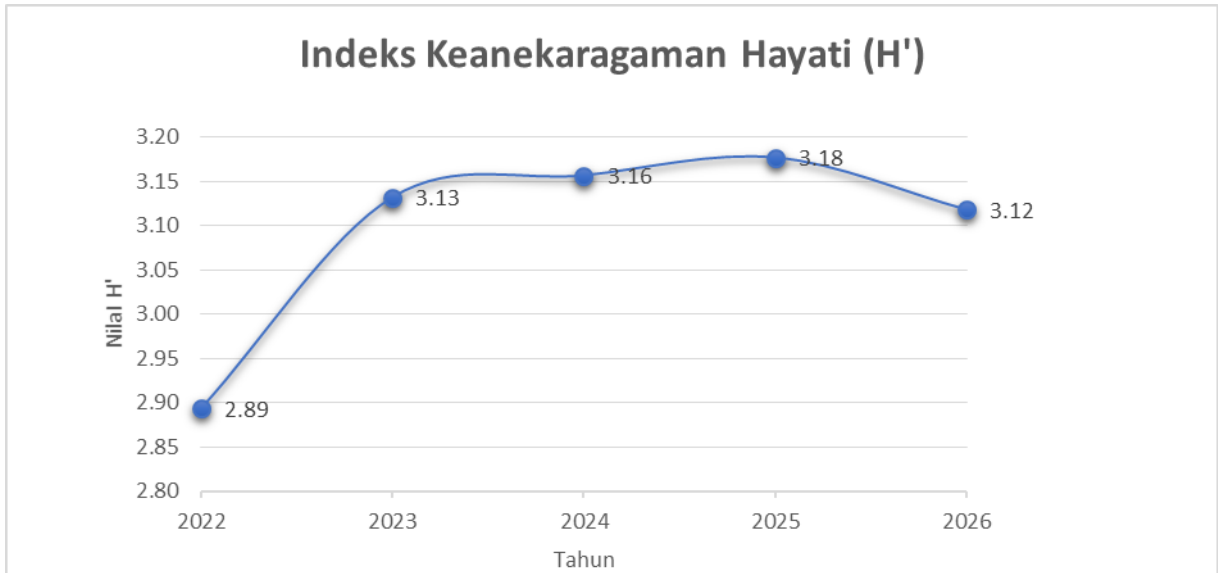
**c. Area Konservasi Kawasan Perbukitan**

**Tabel indeks Shannon wiener ( $H'$ ) Avifauna area perbukitan 2022 – 2026**

| No | Famili          | Nama Ilmiah                       | Nama Indonesia       | P106 | IUCN | PERBUKITAN  |             |             |             |             |
|----|-----------------|-----------------------------------|----------------------|------|------|-------------|-------------|-------------|-------------|-------------|
|    |                 |                                   |                      |      |      | 2022        | 2023        | 2024        | 2025        | 2026        |
|    | <b>AVIFAUNA</b> |                                   |                      |      |      |             |             |             |             |             |
| 1  | Acanthizidae    | <i>Gerygone sulphurea</i>         | Remetuk laut         | -    | LC   |             |             |             |             | 2           |
| 2  | Accipitridae    | <i>Elanus caeruleus</i>           | Elang tikus          | Ya   | LC   | 2           |             |             | 2           |             |
| 3  | Accipitridae    | <i>Nisaetus cirrhatus</i>         | Elang brontok        | Ya   | LC   |             |             |             | 1           |             |
| 4  | Alcedinidae     | <i>Halcyon cyanoventris</i>       | Cekakak jawa         | -    | LC   |             | 1           | 1           |             |             |
| 5  | Alcedinidae     | <i>Todiramphus chloris</i>        | Cekakak sungai       | -    | LC   | 2           | 14          | 9           | 2           |             |
| 6  | Alcedinidae     | <i>Todiramphus sanctus</i>        | Cekakak australia    | -    | LC   | 1           |             | 1           |             |             |
| 7  | Apodidae        | <i>Aerodramus maximus</i>         | Walet sarang-hitam   | -    | LC   | 19          | 8           | 5           | 4           | 3           |
| 8  | Apodidae        | <i>Apus nipalensis</i>            | Kapinis rumah        | -    | LC   | 13          | 1           | 2           | 6           |             |
| 9  | Apodidae        | <i>Collocalia linchi</i>          | Walet linci          | -    | LC   | 64          | 67          | 48          | 39          | 22          |
| 10 | Ardeidae        | <i>Ardea purpurea</i>             | Cangak merah         | -    | LC   |             | 1           | 1           |             |             |
| 11 | Ardeidae        | <i>Bubulcus ibis</i>              | Kuntul kerbau        | -    | LC   |             | 6           | 2           | 8           | 9           |
| 12 | Ardeidae        | <i>Egretta garzetta</i>           | Kuntul kecil         | -    | LC   |             | 2           | 1           | 2           | 1           |
| 13 | Artamidae       | <i>Artamus leucorhynchus</i>      | Kekep babi           | -    | LC   | 6           | 4           | 5           | 3           | 4           |
| 14 | Campephagidae   | <i>Lalage nigra</i>               | Kapasir kemiri       | -    | LC   | 7           | 15          | 16          | 16          | 15          |
| 15 | Campephagidae   | <i>Pericrocotus cinnamomeus</i>   | Sepah kecil          | -    | LC   |             |             | 7           | 9           | 8           |
| 16 | Caprimulgidae   | <i>Caprimulgus affinis</i>        | Cabak kota           | -    | LC   | 4           | 27          | 14          | 6           | 7           |
| 17 | Caprimulgidae   | <i>Caprimulgus macrurus</i>       | Cabak maling         | -    | LC   |             |             |             | 2           | 3           |
| 18 | Cisticolidae    | <i>Cisticola exilis</i>           | Cici merah           | -    | LC   |             |             | 2           |             |             |
| 19 | Cisticolidae    | <i>Cisticola juncidis</i>         | Cici padi            | -    | LC   |             |             | 3           | 5           |             |
| 20 | Cisticolidae    | <i>Orthotomus ruficeps</i>        | Cinenen kelabu       | -    | LC   | 2           |             |             |             |             |
| 21 | Cisticolidae    | <i>Orthotomus sutorius</i>        | Cinenen pisang       | -    | LC   | 7           | 9           | 10          | 10          | 11          |
| 22 | Cisticolidae    | <i>Prinia familiaris</i>          | Perenjak jawa        | -    | NT   |             | 5           | 2           | 2           | 1           |
| 23 | Cisticolidae    | <i>Prinia inornata</i>            | Perenjak padi        | -    | LC   | 12          | 3           | 3           | 9           |             |
| 24 | Cisticolidae    | <i>Prinia polychroa</i>           | Perenjak cokelat     | -    | LC   | 2           | 7           | 13          | 3           | 2           |
| 25 | Columbidae      | <i>Geopelia striata</i>           | Perkutut jawa        | -    | LC   | 34          | 15          | 13          | 19          | 21          |
| 26 | Columbidae      | <i>Spilopelia chinensis</i>       | Tekukur biasa        | -    | LC   | 10          | 35          | 28          | 13          | 15          |
| 27 | Columbidae      | <i>Streptopelia bitorquata</i>    | Dederuk jawa         | -    | LC   |             | 5           | 2           | 4           | 6           |
| 28 | Cuculidae       | <i>Cacomantis merulinus</i>       | Wiwik kelabu         | -    | LC   | 3           |             | 1           |             |             |
| 29 | Cuculidae       | <i>Cacomantis variolosus</i>      | Wiwik ungu           | -    | LC   | 3           | 2           | 1           |             |             |
| 30 | Cuculidae       | <i>Centropus bengalensis</i>      | Bubut alang-alang    | -    | LC   | 1           |             | 1           | 1           | 2           |
| 31 | Cuculidae       | <i>Centropus nigrorufus</i>       | Bubut jawa           | Ya   | VU   | 1           | 4           | 3           | 1           | 2           |
| 32 | Cuculidae       | <i>Centropus sinensis</i>         | Greater Coucal       | -    | LC   | 2           | 2           |             |             |             |
| 33 | Dicaeidae       | <i>Dicaeum trochileum</i>         | Cabai jawa           | -    | LC   | 11          | 5           | 5           | 5           | 7           |
| 34 | Estrildidae     | <i>Lonchura leucogastroides</i>   | Bondol jawa          | -    | LC   | 10          | 4           | 36          | 12          | 11          |
| 35 | Estrildidae     | <i>Lonchura maja</i>              | Bondol haji          | -    | LC   |             | 18          | 33          |             |             |
| 36 | Estrildidae     | <i>Lonchura punctulata</i>        | Bondol peking        | -    | LC   | 50          | 28          | 52          | 52          | 55          |
| 37 | Falconidae      | <i>Falco moluccensis</i>          | Alap-alap sapi       | Ya   | LC   | 2           | 1           | 3           | 2           | 1           |
| 38 | Falconidae      | <i>Microhierax fringillarius</i>  | Alap-alap capung     | Ya   | LC   |             |             | 1           | 1           |             |
| 39 | Hirundinidae    | <i>Hirundo javanica</i>           | Layang-layang batu   | -    | LC   |             | 13          | 16          | 6           | 7           |
| 40 | Hirundinidae    | <i>Hirundo rustica</i>            | Layang-layang asia   | -    | LC   |             |             |             |             |             |
| 41 | Hirundinidae    | <i>Hirundo striolata</i>          | Layang-layang loreng | -    | LC   | 8           | 10          | 11          | 11          | 14          |
| 42 | Laniidae        | <i>Lanius schach</i>              | Bentet kelabu        | -    | LC   |             | 4           |             |             |             |
| 43 | Megalaimidae    | <i>Psilopogon haemacephalus</i>   | Takur ungkut-ungkut  | -    | LC   | 1           |             |             |             |             |
| 44 | Meropidae       | <i>Merops leschenaulti</i>        | Kirik-kirik senja    | -    | LC   | 1           | 2           | 4           | 3           | 5           |
| 45 | Nectariniidae   | <i>Cinnyris jugularis</i>         | Burung-madu sriganti | -    | LC   | 6           |             | 6           | 8           | 9           |
| 46 | Passeridae      | <i>Passer montanus</i>            | Burung-gereja erasia | -    | LC   | 4           | 8           | 7           | 14          | 13          |
| 47 | Picidae         | <i>Dendrocopos macei</i>          | Caladi ulam          | -    | LC   | 5           | 9           | 6           | 5           | 6           |
| 48 | Picidae         | <i>Picoides moluccensis</i>       | Caladi tilik         | -    | LC   | 2           | 6           | 3           | 2           | 1           |
| 49 | Pycnonotidae    | <i>Pycnonotus aurigaster</i>      | Cucak kutilang       | -    | LC   | 37          | 14          | 14          | 15          | 17          |
| 50 | Pycnonotidae    | <i>Pycnonotus goiavier</i>        | Merbah cerucuk       | -    | LC   | 7           | 25          | 25          | 9           | 8           |
| 51 | Rallidae        | <i>Amaurornis phoenicurus</i>     | Kareo padi           | -    | LC   |             | 5           | 1           |             |             |
| 52 | Rhipiduridae    | <i>Rhipidura javanica</i>         | Kipasan belang       | Ya   | LC   | 2           |             | 2           |             |             |
| 53 | Turnicidae      | <i>Turnix suscitator</i>          | Gemak loreng         | -    | LC   | 7           | 2           |             | 8           | 7           |
| 54 | Turnicidae      | <i>Turnix sylvaticus</i>          | Gemak tegalan        | -    | LC   | 2           |             |             |             |             |
| 55 | Tytonidae       | <i>Tyto alba</i>                  | Serak jawa           | -    | LC   |             | 5           | 1           | 2           | 2           |
|    |                 | <b>Jumlah Individu</b>            |                      |      |      | <b>350</b>  | <b>392</b>  | <b>420</b>  | <b>322</b>  | <b>297</b>  |
|    |                 | <b>Jumlah Jenis</b>               |                      |      |      | <b>36</b>   | <b>38</b>   | <b>44</b>   | <b>39</b>   | <b>33</b>   |
|    |                 | <b>Indeks Keanekaragaman (H')</b> |                      |      |      | <b>2.89</b> | <b>3.13</b> | <b>3.16</b> | <b>3.18</b> | <b>3.12</b> |

\*Tanda Kuning spesies yang ditetapkan untuk dilindungi

Berdasarkan tabel di atas maka dapat dibuat grafik indeks keanekaragaman hayati jenis avifauna di area Perbukitan



Berdasarkan tabel, terdapat 4 famili avifauna yang dilindungi yang ditemukan di area konservasi kawasan perbukitan, diantaranya :

1. Elanus caeruleus/ Elang tikus
2. Centropus nigrorufus/ Bubut jawa
3. Falco moluccensis/ Alap-alap sapi
4. Rhipidura javanica/ Kipasan belang

Secara keseluruhan status keanekaragaman hayati jenis burung di beberapa kawasan Konservasi PT Solusi Bangun Indonesia Tbk. Pabrik Tuban pada tahun 2022– 2026 mengalami peningkatan sehingga menunjukkan nilai indeks diversitas Shannon-Wiener (H') dari tahun ke tahun meningkat. Indeks Keanekaragaman hayati di kolam mliwang lebih tinggi jika dibandingkan kawasan lainnya, hal ini disebabkan kawasan kolam mliwang terdapat cadangan air yang dibutuhkan oleh fauna

Peningkatan indeks keanekaragaman hayati burung ini dipengaruhi oleh beberapa hal diantaranya sebagai berikut :

1. Tajuk pepohonan di area penghijauan mulai rapat dan tinggi sehingga menjadi habitat baru bagi kawanan burung

2. Tersedianya sumber air di kawasan konservasi kolam mliwang sebagai sumber kehidupan fauna terutama burung
3. Minimnya perburuan liar di kawasan konservasi

## B. Herpetofauna

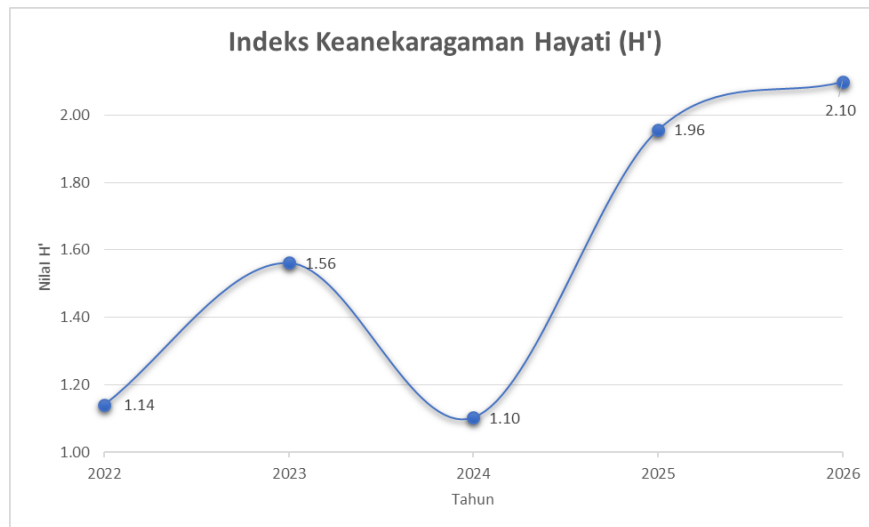
Perhitungan nilai keanekaragaman hayati untuk herpetofauna menggunakan metode Shannon wiener. Berikut daftar jenis herpetofauna yang ditemukan di kawasan konservasi dapat dilihat pada tabel berikut:

### a. Area Konservasi Kawasan Greenbelt/Dam Sawir

Tabel indeks Shannon wiener (H') herpetofauna area greenbelt/dam sawir 2022 – 2026

| No | Famili         | Nama Ilmiah                       | Nama Indonesia             | P106 | IUCN | CITES  | GREENBELT/DAM SAWIR |      |      |      |      |
|----|----------------|-----------------------------------|----------------------------|------|------|--------|---------------------|------|------|------|------|
|    | AMPHIBI        |                                   |                            |      |      |        | 2022                | 2023 | 2024 | 2025 | 2026 |
| 1  | Bufonidae      | <i>Duttaphrynus melanostictus</i> | Bangkong Kolong            | -    | LC   | -      |                     |      |      | 2    | 3    |
| 2  | Dicroglossidae | <i>Fejervarya cancrivora</i>      | Katak Sawah                | -    | LC   | -      |                     |      |      |      |      |
| 3  | Dicroglossidae | <i>Fejervarya limnocharis</i>     | Katak Tegalan              | -    | LC   | -      |                     |      |      | 1    | 2    |
|    | REPTIL         |                                   |                            |      |      |        |                     |      |      |      |      |
| 4  | Agamidae       | <i>Calotes versicolor</i>         | Bunglon taman              | -    | LC   | -      | 14                  | 9    | 6    | 5    | 6    |
| 5  | Agamidae       | <i>Draco volans</i>               | Cekibar jawa               | -    | LC   | -      |                     |      |      | 3    | 2    |
| 6  | Colubridae     | <i>Dendrelaphis pictus</i>        | Ular tambang               | -    | LC   | -      | 1                   |      |      |      |      |
| 7  | Colubridae     | <i>Ptyas korros</i>               | Ular Jali                  | -    | NT   | -      |                     |      | 1    |      |      |
| 8  | Gekkonidae     | <i>Gekko gecko</i>                | Tokek Rumah                | -    | LC   | App-II | 1                   | 2    |      | 2    | 3    |
| 9  | Gekkonidae     | <i>Hemidactylus frenatus</i>      | Cicak Kayu                 | -    | LC   | -      | 7                   | 4    | 6    | 2    | 6    |
| 10 | Gekkonidae     | <i>Hemidactylus platyurus</i>     | Cicak tembok               | -    | LC   | -      |                     | 2    |      | 5    | 7    |
| 11 | Scincidae      | <i>Eutropis multifasciata</i>     | Kadal kebun                | -    | LC   | -      | 2                   | 4    | 1    | 2    | 2    |
| 12 | Scincidae      | <i>Tytthoscincus sp.</i>          | Kadal serasah              | -    | -    | -      |                     | 1    |      |      |      |
|    |                |                                   | Jumlah Individu            |      |      |        | 25                  | 22   | 14   | 22   | 28   |
|    |                |                                   | Jumlah Jenis               |      |      |        | 5                   | 6    | 4    | 8    | 7    |
|    |                |                                   | Indeks Keanekaragaman (H') |      |      |        | 1.14                | 1.56 | 1.10 | 1.96 | 2.10 |

Dari tabel di atas dapat dibuat kurva seperti dibawah



**Ular Tambang**



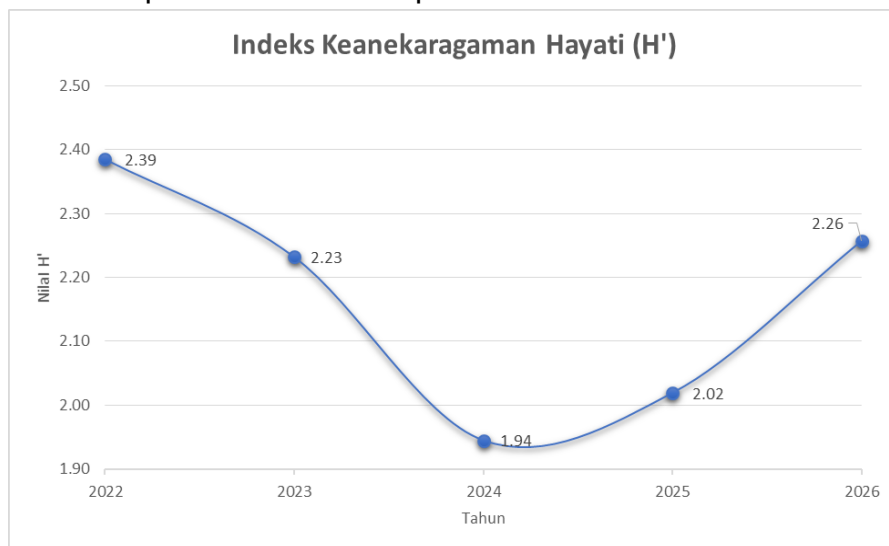
**Cicak Kayu**

#### **b. Area Konservasi Kawasan Kolam Mliwang**

**Tabel indeks Shannon wiener (H') herpetofauna kolam mliwang 2022 – 2026**

| No | Famili         | Nama Ilmiah                       | Nama Indonesia             | P106 | IUCN | CITES  | MLIWANG |      |      |      |      |
|----|----------------|-----------------------------------|----------------------------|------|------|--------|---------|------|------|------|------|
|    | AMPHIBI        |                                   |                            |      |      |        | 2022    | 2023 | 2024 | 2025 | 2026 |
| 1  | Bufonidae      | <i>Duttaphrynus melanostictus</i> | Bangkong Kolong            | -    | LC   | -      | 2       | 4    | 3    | 5    | 5    |
| 2  | Dicroglossidae | <i>Fejervarya cancrivora</i>      | Katak Sawah                | -    | LC   | -      | 4       | 5    | 39   | 17   |      |
| 3  | Dicroglossidae | <i>Fejervarya limnocharis</i>     | Katak Tegalan              | -    | LC   | -      | 7       | 16   | 55   | 30   | 30   |
| 4  | Dicroglossidae | <i>Occidozyga lima</i>            | Bancet hijau               | -    | LC   | -      | 1       |      | 1    | 15   | 15   |
| 5  | Rhacophoridae  | <i>Polypedates leucomystax</i>    | Katak-pohon bergaris       | -    | LC   | -      |         | 3    |      | 1    | 1    |
|    | REPTIL         |                                   |                            |      |      |        |         |      |      |      |      |
| 6  | Agamidae       | <i>Calotes versicolor</i>         | Bunglon taman              | -    | LC   | -      | 9       | 16   | 9    | 18   | 18   |
| 7  | Agamidae       | <i>Draco volans</i>               | Cekibar jawa               | -    | LC   | -      | 2       |      |      | 2    | 2    |
| 8  | Colubridae     | <i>Dendrelaphis pictus</i>        | Ular tambang               | -    | LC   | -      | 1       |      |      |      | 7    |
| 9  | Colubridae     | <i>Lycodon capucinus</i>          | Ular cecak                 | -    | LC   | -      |         |      |      |      | 1    |
| 10 | Colubridae     | <i>Ptyas korros</i>               | Ular Jali                  | -    | NT   | -      | 1       | 1    |      |      | 7    |
| 11 | Colubridae     | <i>Coelognathus radiatus</i>      | Ular Lanang Sapi           | -    | NT   | -      |         |      |      |      | 1    |
| 12 | Elapidae       | <i>Naja sputatrix</i>             | Kobra Jawa                 | -    | LC   | App-II | 1       |      |      |      |      |
| 13 | Gekkonidae     | <i>Gehyra mutilata</i>            | Cicak Gula                 | -    | LC   | -      | 1       |      |      |      |      |
| 14 | Gekkonidae     | <i>Gekko gecko</i>                | Tokek Rumah                | -    | LC   | App-II | 1       | 5    | 1    | 2    | 2    |
| 15 | Gekkonidae     | <i>Hemidactylus frenatus</i>      | Cicak Kayu                 | -    | LC   | -      | 5       | 7    | 3    | 3    | 3    |
| 16 | Gekkonidae     | <i>Hemidactylus platyurus</i>     | Cicak tembok               | -    | LC   | -      | 8       | 4    |      | 4    | 4    |
| 17 | Natricidae     | <i>Fowlea melanzostus</i>         | Bandotan tutul             | -    | -    | -      | 1       | 4    | 1    |      |      |
| 18 | Pythonidae     | <i>Malayopython reticulatus</i>   | Sanca kembang              | -    | LC   | App-II |         |      | 1    | 1    |      |
| 19 | Scincidae      | <i>Eutropis multifasciata</i>     | Kadal kebun                | -    | LC   | -      |         | 2    | 2    | 3    | 3    |
| 20 | Scincidae      | <i>Tytthoscincus sp.</i>          | Kadal serasah              | -    | -    | -      |         | 2    |      |      |      |
| 21 | Varanidae      | <i>Varanus salvator</i>           | Biawak-air Asia            | -    | LC   | App-II | 1       | 1    |      | 1    | 1    |
| 22 | Xenopeltidae   | <i>Xenopeltis unicolor</i>        | Ular Pelangi               | -    | LC   | -      | 1       |      |      |      |      |
|    |                |                                   | Jumlah Individu            |      |      |        | 46      | 70   | 115  | 102  | 100  |
|    |                |                                   | Jumlah Jenis               |      |      |        | 16      | 13   | 12   | 13   | 15   |
|    |                |                                   | Indeks Keanekaragaman (H') |      |      |        | 2.39    | 2.23 | 1.94 | 2.02 | 2.26 |

Dari tabel di atas dapat dibuat kurva seperti dibawah



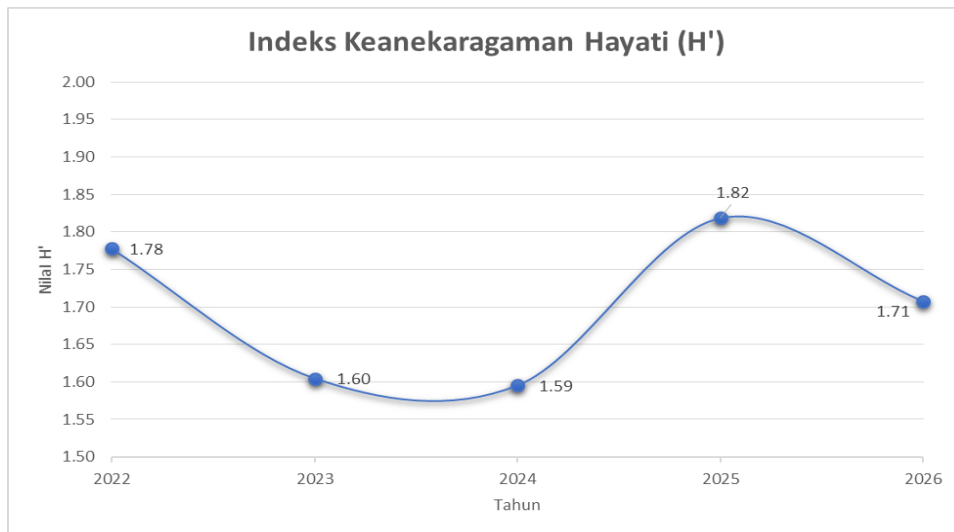


### c. Area Konservasi Kawasan Perbukitan

Tabel indeks Shannon wiener (H') herpetofauna perbukitan 2022 – 2026

| No | Famili         | Nama Ilmiah                       | Nama Indonesia             | P106 | IUCN | CITES  | PERBUKITAN |      |      |      |      |
|----|----------------|-----------------------------------|----------------------------|------|------|--------|------------|------|------|------|------|
|    | AMPHIBI        |                                   |                            |      |      |        | 2022       | 2023 | 2024 | 2025 | 2026 |
| 1  | Bufonidae      | <i>Duttaphrynus melanostictus</i> | Bangkong Kolong            | -    | LC   | -      |            |      |      | 8    | 8    |
| 2  | Dicroglossidae | <i>Fejervarya limnocharis</i>     | Katak Tegalan              | -    | LC   | -      |            | 1    | 3    | 4    | 4    |
|    | REPTIL         |                                   |                            |      |      |        |            |      |      |      |      |
| 3  | Agamidae       | <i>Calotes versicolor</i>         | Bunglon taman              | -    | LC   | -      | 13         | 17   | 10   | 26   | 26   |
| 4  | Agamidae       | <i>Draco volans</i>               | Cekibar jawa               | -    | LC   | -      | 2          |      |      | 1    | 1    |
| 5  | Colubridae     | <i>Lycodon capucinus</i>          | Ular cecak                 | -    | LC   | -      |            |      |      | 1    |      |
| 6  | Colubridae     | <i>Ptyas korros</i>               | Ular Jali                  | -    | NT   | -      | 11         |      |      | 1    |      |
| 7  | Gekkonidae     | <i>Cyrtodactylus petani</i>       | Cicak jari-lengkung peta   | -    | DD   | -      |            |      |      | 1    | 1    |
| 8  | Gekkonidae     | <i>Gehyra mutilata</i>            | Cicak Gula                 | -    | LC   | -      |            |      | 1    |      |      |
| 9  | Gekkonidae     | <i>Gekko gecko</i>                | Tokek Rumah                | -    | LC   | App-II |            | 3    | 3    | 4    | 4    |
| 10 | Gekkonidae     | <i>Hemidactylus frenatus</i>      | Cicak Kayu                 | -    | LC   | -      | 3          | 9    | 3    | 6    | 6    |
| 11 | Gekkonidae     | <i>Hemidactylus platyurus</i>     | Cicak tembok               | -    | LC   | -      |            | 4    | 1    | 8    | 8    |
| 12 | Scincidae      | <i>Eutropis multifasciata</i>     | Kadal kebun                | -    | LC   | -      | 1          | 3    | 1    | 1    | 1    |
| 13 | Scincidae      | <i>Tytthoscincus sp.</i>          | Kadal serasah              | -    | -    | -      |            | 3    |      |      |      |
|    |                |                                   | Jumlah Individu            |      |      |        | 30         | 40   | 22   | 61   | 59   |
|    |                |                                   | Jumlah Jenis               |      |      |        | 5          | 7    | 7    | 11   | 9    |
|    |                |                                   | Indeks Keanekaragaman (H') |      |      |        | 1.78       | 1.60 | 1.59 | 1.82 | 1.71 |

Dari tabel di atas dapat dibuat kurva seperti dibawah



Metode pengamatan yang dilakukan adalah dengan memadukan antara *recce walk*, jalur pengamatan, perangkat hidup, serta berdasarkan informasi dari masyarakat. Dapat dilihat bahwa status keanekaragaman hayati herpetofauna mengalami kenaikan pada area perbukitan. Pada area kolam keanekaragaman hayati cenderung stabil. Untuk area dam sawir keanekaragaman hayati cenderung turun karena terganggunya habitat hewan.

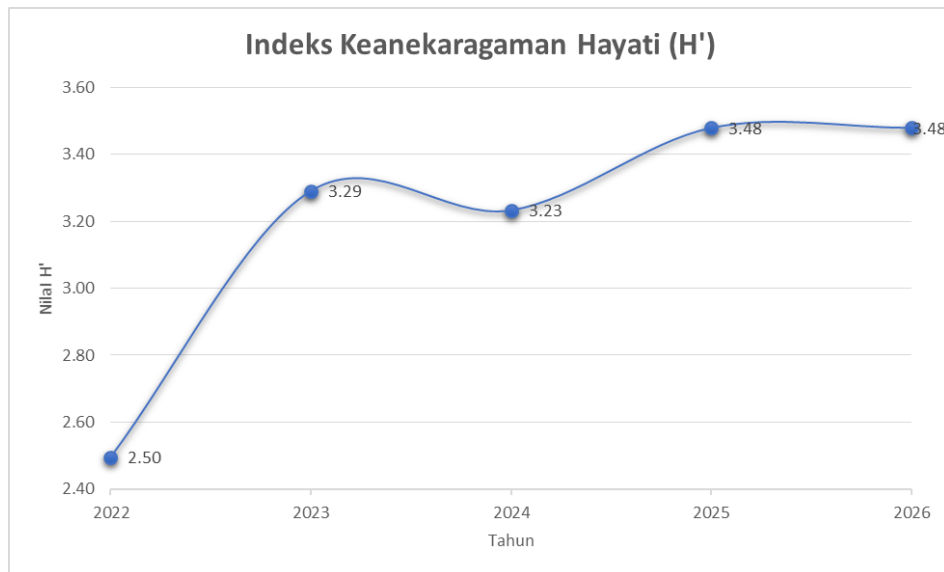
Dari semua jenis herpetofauna yang ditemukan tidak ada yang dilindungi berdasarkan PP no 7 tahun 1999. Terdapat 3 jenis reptil yang masuk dalam kategori appendices II menurut CITES (*Convention on International Trade in Endangered Species of Wild Fauna and Flora*), jenis yang masuk dalam kategori ini adalah jenis yang memiliki tingkat kepunahan yang rendah namun dapat menjadi terancam punah bila perdagangan satwa tersebut tidak diatur dan diawasi secara ketat (Hutton dan Dickinson 2000).

## C. Insecta

### a. Area Konservasi Kawasan Greenbelt/Dam Sawir

Tabel indeks Shannon wiener (H') insekta *greenbelt*/dam sawir 2022 – 2026

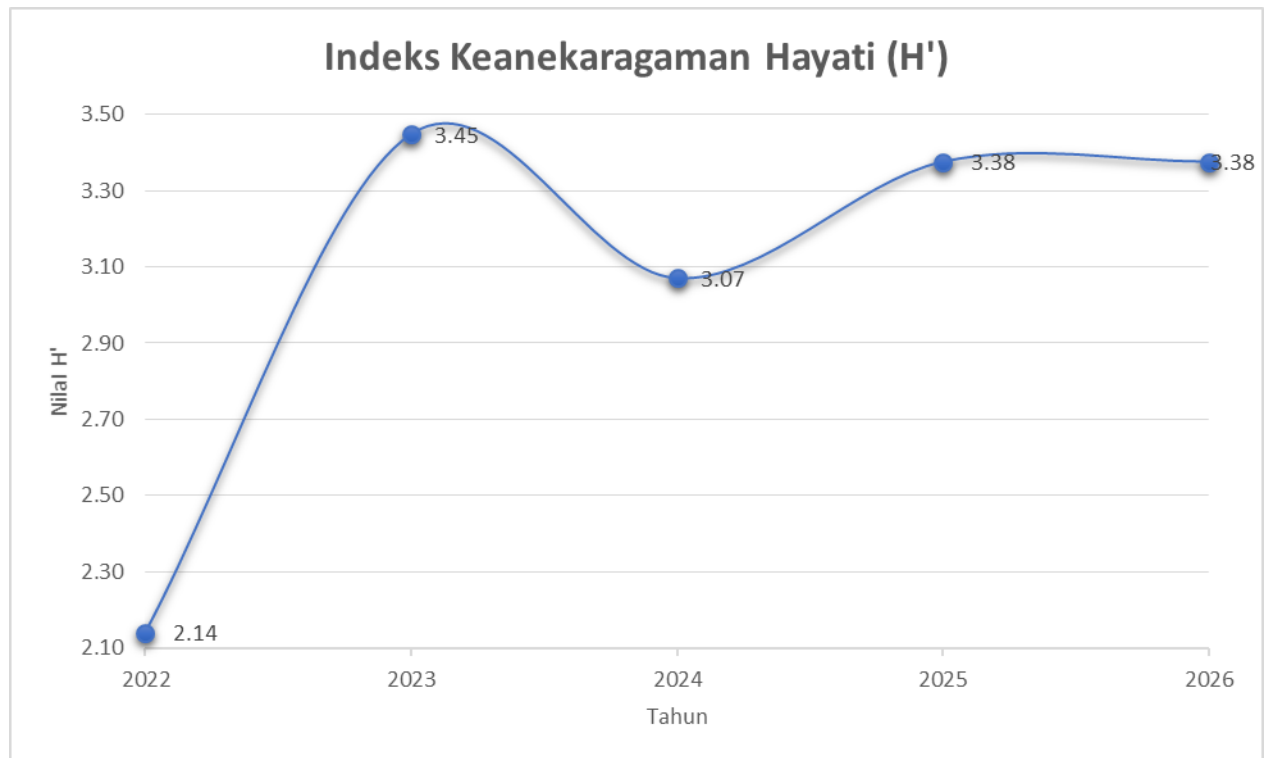
| No | Famili          | Nama Ilmiah                       | Nama Indonesia              | P106 | IUCN | CITES | GREENBELT/DAM SAWIR |             |             |             |             |
|----|-----------------|-----------------------------------|-----------------------------|------|------|-------|---------------------|-------------|-------------|-------------|-------------|
|    | INSECTA         |                                   |                             |      |      |       | 2022                | 2023        | 2024        | 2025        | 2026        |
| 1  | Acrididae       | <i>Phlaeoba fumosa</i>            | Belalang Coklat             | -    | -    | -     |                     |             |             | 9           | 6           |
| 2  | Acrididae       | <i>Stenocatantops sp.</i>         | Belalang                    | -    | -    | -     | 12                  | 12          | 7           |             |             |
| 3  | Acrididae       | <i>Xenocatantops humilis</i>      | Belalang Kaki-merah         | -    | -    | -     |                     | 2           |             |             |             |
| 4  | Apidae          | <i>Apis mellifera</i>             | Lebah Madu                  | -    | DD   | -     |                     |             | 3           |             |             |
| 5  | Asilidae        | <i>Clinopogon sp</i>              | Lalat buas                  | -    | -    | -     |                     |             |             | 1           | 1           |
| 6  | Calliphoridae   | <i>Chrysomya megacephala</i>      | Lalat Biru                  | -    | -    | -     |                     |             |             | 1           | 1           |
| 7  | Coenagrionidae  | <i>Agriocnemis femina</i>         | Unting Bedak                | -    | LC   | -     |                     |             |             |             |             |
| 8  | Coenagrionidae  | <i>Agriocnemis pygmaea</i>        | Unting Pupus                | -    | LC   | -     |                     |             |             | 1           | 1           |
| 9  | Coenagrionidae  | <i>Ischnura senegalensis</i>      | Pupus Biasa                 | -    | LC   | -     |                     |             |             | 2           | 3           |
| 10 | Gryllidae       | <i>Gymnogryllus angustus</i>      | Jangkrik                    | -    | -    | -     | 1                   | 1           | 1           |             |             |
| 11 | Hesperiidae     | <i>Cephreris trichopepla</i>      | Pisuwe Kuning               | -    | -    | -     |                     |             |             | 1           |             |
| 12 | Hesperiidae     | <i>Pelopidas mathias</i>          | Ancang bercak kecil         | -    | LC   | -     |                     |             |             | 2           | 1           |
| 13 | Hesperiidae     | <i>Tagiades japetus</i>           | Rentang salju biasa         | -    | -    | -     |                     |             |             | 1           |             |
| 14 | Hesperiidae     | <i>Taractrocer archias</i>        | Sipet Kuning                | -    | -    | -     |                     |             |             | 3           |             |
| 15 | Hesperiidae     | <i>Taractrocer nigrolimbata</i>   | Sipet rumbai gelap          | -    | -    | -     |                     |             |             | 2           |             |
| 16 | Hesperiidae     | <i>Udaspes folus</i>              | Kupu-kupu                   | -    | -    | -     |                     |             | 1           |             |             |
| 17 | Libellulidae    | <i>Brachythemis contaminata</i>   | Coblangkecil Oranye         | -    | LC   | -     |                     |             |             | 7           | 5           |
| 18 | Libellulidae    | <i>Crocothemis servilia</i>       | Perutgaris Merah            | -    | LC   | -     |                     | 2           | 1           | 5           | 12          |
| 19 | Libellulidae    | <i>Diplacodes trivialis</i>       | Sibartanah Belang           | -    | LC   | -     |                     | 1           | 4           | 3           | 2           |
| 20 | Libellulidae    | <i>Orthetrum sabina</i>           | Sambar Biasa                | -    | LC   | -     | 4                   | 10          | 1           | 10          | 3           |
| 21 | Libellulidae    | <i>Pantala flavescens</i>         | Kembara Buana               | -    | LC   | -     | 7                   | 13          | 2           | 12          | 8           |
| 22 | Libellulidae    | <i>Potamarcha congener</i>        | Penengger Ranting           | -    | LC   | -     |                     | 4           | 2           | 3           | 1           |
| 23 | Libellulidae    | <i>Rhyothemis phyllis</i>         | Sayaplukis Lebah            | -    | LC   | -     |                     |             |             | 1           | 3           |
| 24 | Libellulidae    | <i>Thalymis tillarga</i>          | Beliung senja               | -    | LC   | -     |                     |             |             |             | 2           |
| 25 | Lycaenidae      | <i>Castalius rosimon</i>          | Hambar Biasa                | -    | -    | -     | 3                   | 5           | 6           | 6           | 3           |
| 26 | Lycaenidae      | <i>Catochrysops strabo</i>        | Ercis Pelupa                | -    | -    | -     | 12                  | 3           |             |             |             |
| 27 | Lycaenidae      | <i>Euchrysops cnejus</i>          | Kapri bintik                | -    | -    | -     |                     |             | 3           | 6           | 2           |
| 28 | Lycaenidae      | <i>Jamides alecto</i>             | Kupu-kupu                   | -    | -    | -     |                     | 1           |             |             |             |
| 29 | Lycaenidae      | <i>Jamides celeno</i>             | Azura Biasa                 | -    | -    | -     | 2                   |             |             |             |             |
| 30 | Lycaenidae      | <i>Lampides boeticus</i>          | Lentil biru                 | -    | LC   | -     |                     |             |             | 4           |             |
| 31 | Lycaenidae      | <i>Leptotes plinius</i>           | Kupu-kupu                   | -    | -    | -     | 1                   | 3           | 4           |             |             |
| 32 | Lycaenidae      | <i>Luthrodes pandava</i>          | Cupid polos                 | -    | -    | -     |                     | 2           | 2           | 2           |             |
| 33 | Lycaenidae      | <i>Pseudozizeeria maha</i>        | Kupu-kupu                   | -    | -    | -     |                     |             | 2           |             |             |
| 34 | Lycaenidae      | <i>Rapala iarbus</i>              | Kupu-kupu                   | -    | -    | -     |                     |             |             |             |             |
| 35 | Lycaenidae      | <i>Zizina otis</i>                | Alang biru kecil            | -    | LC   | -     | 8                   | 5           | 3           | 6           |             |
| 36 | Lycaenidae      | <i>Zizula hylax</i>               | Ragut mungil                | -    | LC   | -     |                     | 1           |             | 1           |             |
| 37 | Nymphalidae     | <i>Acraea terpsicore</i>          | Coster Kuning-kecokelatan   | -    | -    | -     | 17                  | 9           | 7           | 12          | 6           |
| 38 | Nymphalidae     | <i>Danaus chrysippus</i>          | Macan polos                 | -    | LC   | -     | 59                  | 7           | 3           | 1           | 2           |
| 39 | Nymphalidae     | <i>Danaus genutia</i>             | Macan biasa                 | -    | -    | -     |                     | 12          |             | 2           | 3           |
| 40 | Nymphalidae     | <i>Doleschallia bisaltide</i>     | Kupu-kupu                   | -    | -    | -     |                     | 2           |             |             |             |
| 41 | Nymphalidae     | <i>Elymnias hypermnestra</i>      | Palem biasa                 | -    | -    | -     |                     |             |             | 5           | 2           |
| 42 | Nymphalidae     | <i>Euploea mulciber</i>           | Kupu-kupu                   | -    | -    | -     |                     |             | 1           |             |             |
| 43 | Nymphalidae     | <i>Hypolimnys bolina</i>          | Kupu-kupu                   | -    | -    | -     | 4                   | 3           | 2           | 8           | 2           |
| 44 | Nymphalidae     | <i>Junonia almana</i>             | Solek Merak                 | -    | LC   | -     |                     | 4           |             |             |             |
| 45 | Nymphalidae     | <i>Junonia atlites</i>            | Kupu-kupu                   | -    | -    | -     | 1                   | 12          | 3           |             |             |
| 46 | Nymphalidae     | <i>Junonia orithya</i>            | Solek Biru                  | -    | LC   | -     |                     | 6           |             | 8           | 4           |
| 47 | Nymphalidae     | <i>Melanitis leda</i>             | Senja Biasa                 | -    | -    | -     |                     |             | 2           | 4           | 2           |
| 48 | Nymphalidae     | <i>Mycalesis perseus</i>          | Semak-kusam umum            | -    | -    | -     |                     |             | 1           | 4           | 4           |
| 49 | Nymphalidae     | <i>Neptis hylas</i>               | Pelaut Biasa                | -    | -    | -     | 5                   | 4           | 3           | 5           | 2           |
| 50 | Nymphalidae     | <i>Phaedyma columella</i>         | Kupu-kupu                   | -    | -    | -     |                     |             |             |             |             |
| 51 | Nymphalidae     | <i>Phalanta phalantha</i>         | Macan-tutul biasa           | -    | LC   | -     | 1                   |             | 1           | 3           | 3           |
| 52 | Pamphagidae     | <i>Ocnodes sp.</i>                | Belalang Batu               | -    | -    | -     |                     | 3           |             |             |             |
| 53 | Papilionidae    | <i>Graphium agamemnon</i>         | Sayap-segitiga berekor      | -    | -    | -     |                     | 3           | 2           |             |             |
| 54 | Papilionidae    | <i>Graphium sarpedon</i>          | Sayap-segitiga biru         | -    | LC   | -     | 2                   |             |             |             |             |
| 55 | Papilionidae    | <i>Papilio demoleus</i>           | Ekor-walet Jeruk            | -    | -    | -     |                     | 1           | 1           | 2           | 2           |
| 56 | Papilionidae    | <i>Papilio memnon</i>             | Pastur Besar                | -    | -    | -     | 1                   |             | 1           |             |             |
| 57 | Papilionidae    | <i>Papilio polytes</i>            | Kupu-kupu                   | -    | -    | -     | 1                   |             |             |             |             |
| 58 | Pieridae        | <i>Appias olferna</i>             | Kupu-kupu                   | -    | -    | -     | 8                   | 16          | 1           |             |             |
| 59 | Pieridae        | <i>Appias olferna</i>             | Albatros lurik              | -    | -    | -     |                     |             |             | 4           | 4           |
| 60 | Pieridae        | <i>Catopsilia pomona</i>          | Migran Biasa                | -    | -    | -     | 16                  | 15          | 13          | 3           | 12          |
| 61 | Pieridae        | <i>Delias hyparete</i>            | Izebel lukis                | -    | -    | -     | 3                   | 7           |             | 4           | 3           |
| 62 | Pieridae        | <i>Delias periboea</i>            | Izebel Periboea             | -    | LC   | -     |                     | 9           | 6           | 4           | 2           |
| 63 | Pieridae        | <i>Eurema blanda</i>              | Alang-kuning bintik-tiga    | -    | -    | -     | 3                   | 5           | 5           | 9           | 4           |
| 64 | Pieridae        | <i>Eurema hecabe</i>              | Alang-kuning biasa          | -    | -    | -     | 3                   | 5           | 3           | 8           | 2           |
| 65 | Pieridae        | <i>Eurema sari</i>                | Alang-kuning bercak cokelat | -    | -    | -     |                     |             | 4           | 4           | 4           |
| 66 | Pieridae        | <i>Leptosia nina</i>              | Kupu-kupu                   | -    | -    | -     |                     | 4           |             |             |             |
| 67 | Platycnemididae | <i>Copera marginipes</i>          | Untaihanu Biasa             | -    | LC   | -     |                     |             |             |             | 1           |
| 68 | Pyrrhocoridae   | <i>Dysdercus cingulatus</i>       | Bapak Pucung                | -    | -    | -     | 6                   | 6           |             |             |             |
|    |                 | <b>Jumlah Individu</b>            |                             |      |      |       | <b>180</b>          | <b>198</b>  | <b>101</b>  | <b>179</b>  | <b>118</b>  |
|    |                 | <b>Jumlah Jenis</b>               |                             |      |      |       | <b>24</b>           | <b>35</b>   | <b>33</b>   | <b>41</b>   | <b>35</b>   |
|    |                 | <b>Indeks Keanekaragaman (H')</b> |                             |      |      |       | <b>2.50</b>         | <b>3.29</b> | <b>3.23</b> | <b>3.48</b> | <b>3.48</b> |



**b. Area Konservasi Kawasan Kolam Mliwang**

Tabel indeks Shannon wiener (H') insekta kolam mliwang 2022 – 2026

| No | Famili         | Nama Ilmiah                      | Nama Indonesia              | P106 | IUCN | CITES | MLIWANG |      |      |      |      |
|----|----------------|----------------------------------|-----------------------------|------|------|-------|---------|------|------|------|------|
|    | INSECTA        |                                  |                             |      |      |       | 2022    | 2023 | 2024 | 2025 | 2026 |
| 1  | Acrididae      | <i>Phlaeoba fumosa</i>           | Belalang Coklat             | -    | -    | -     |         |      |      | 5    | 3    |
| 2  | Acrididae      | <i>Stenocatantops sp.</i>        | Belalang                    | -    | -    | -     | 5       | 5    | 6    |      |      |
| 3  | Apidae         | <i>Apis mellifera</i>            | Lebah Madu                  | -    | DD   | -     |         |      | 3    |      |      |
| 4  | Asilidae       | <i>Clinopogon sp</i>             | Lalat buas                  | -    | -    | -     |         |      |      | 2    | 1    |
| 5  | Calliphoridae  | <i>Chrysomya megacephala</i>     | Lalat Biru                  | -    | -    | -     |         |      |      | 2    | 1    |
| 6  | Coenagrionidae | <i>Agriocnemis femina</i>        | Unting Bedak                | -    | LC   | -     |         | 4    | 9    |      |      |
| 7  | Coenagrionidae | <i>Ischnura senegalensis</i>     | Pupus Biasa                 | -    | LC   | -     | 1       | 5    | 29   | 8    | 6    |
| 8  | Coenagrionidae | <i>Paracercion malayanum</i>     | Capung-jarum Melayu         | -    | LC   | -     | 9       | 9    |      |      |      |
| 9  | Coenagrionidae | <i>Pseudagrion microcephalum</i> | Tekiyek kolam               | -    | LC   | -     |         | 3    | 29   | 8    | 4    |
| 10 | Coenagrionidae | <i>Pseudagrion rubriceps</i>     | Tekiyek Muka-jingga         | -    | LC   | -     |         | 3    |      |      |      |
| 11 | Erebidae       | <i>Amata huebneri</i>            | Ngengat Tawon               | -    | -    | -     | 1       |      |      |      |      |
| 12 | Gomphidae      | <i>Ictinogomphus decoratus</i>   | Gadatombak Biasa            | -    | LC   | -     | 1       | 4    | 1    | 1    | 3    |
| 13 | Gryllidae      | <i>Gymnogryllus angustus</i>     | Jangkrik                    | -    | -    | -     | 2       | 8    | 5    |      |      |
| 14 | Hesperiidae    | <i>Parnara guttatus</i>          | Kejap Jajar Biasa           | -    | -    | -     |         |      |      |      | 1    |
| 15 | Hesperiidae    | <i>Pelopidas mathias</i>         | Ancang bercak kecil         | -    | LC   | -     |         |      |      | 3    | 2    |
| 16 | Hesperiidae    | <i>Tagiades jopetus</i>          | Rentang salju biasa         | -    | -    | -     |         |      |      |      | 1    |
| 17 | Hesperiidae    | <i>Taractrocer nigrilimbata</i>  | Sipet rumbai gelap          | -    | -    | -     |         |      |      | 4    | 2    |
| 18 | Libellulidae   | <i>Acisoma panorpoides</i>       | Perutterompot Biasa         | -    | LC   | -     | 1       |      |      |      |      |
| 19 | Libellulidae   | <i>Brachythemis contaminata</i>  | Coblangkecil Oranye         | -    | LC   | -     | 71      | 19   | 70   | 16   | 12   |
| 20 | Libellulidae   | <i>Crocothemis servilia</i>      | Perutgaris Merah            | -    | LC   | -     | 1       | 8    | 21   | 12   | 6    |
| 21 | Libellulidae   | <i>Diplacodes trivialis</i>      | Sibartanah Belang           | -    | LC   | -     | 9       | 5    | 8    | 8    | 3    |
| 22 | Libellulidae   | <i>Orthetrum sabina</i>          | Sambar Biasa                | -    | LC   | -     | 9       | 19   | 24   | 15   | 16   |
| 23 | Libellulidae   | <i>Pantala flavescens</i>        | Kembara Buana               | -    | LC   | -     | 22      | 25   | 21   | 24   | 12   |
| 24 | Libellulidae   | <i>Potamarcha congener</i>       | Penengger Ranting           | -    | LC   | -     |         | 8    | 5    | 4    | 4    |
| 25 | Libellulidae   | <i>Rhodothermis rufa</i>         | Sibarmerah Biasa            | -    | LC   | -     |         | 2    |      | 1    | 2    |
| 26 | Libellulidae   | <i>Rhyothemis phyllis</i>        | Sayaplukis Lebah            | -    | LC   | -     |         |      |      |      | 3    |
| 27 | Libellulidae   | <i>Thalymis tillarga</i>         | Beliung senja               | -    | LC   | -     |         |      | 7    | 12   | 6    |
| 28 | Libellulidae   | <i>Tramea transmarna</i>         | Semprang Biasa              | -    | LC   | -     |         |      |      | 1    | 1    |
| 29 | Libellulidae   | <i>Urothemis signata</i>         | Semprangkalam Bantik-dua    | -    | LC   | -     | 2       |      | 1    |      |      |
| 30 | Lycaenidae     | <i>Castalius rasimon</i>         | Hamlar Biasa                | -    | -    | -     |         | 4    | 4    | 8    | 14   |
| 31 | Lycaenidae     | <i>Euchrysops cnejus</i>         | Kapri bintik                | -    | -    | -     |         |      | 5    | 3    | 4    |
| 32 | Lycaenidae     | <i>Jamides alecto</i>            | Kupu-kupu                   | -    | -    | -     | 1       |      |      |      |      |
| 33 | Lycaenidae     | <i>Luthrodes pandava</i>         | Cupid polos                 | -    | -    | -     |         | 1    | 2    |      |      |
| 34 | Lycaenidae     | <i>Zizina otis</i>               | Alang biru kecil            | -    | LC   | -     | 7       | 6    | 5    | 12   |      |
| 35 | Lycaenidae     | <i>Zizula hylax</i>              | Ragut mungil                | -    | LC   | -     |         | 1    |      |      |      |
| 36 | Meloidae       | <i>Hycleus biundulatus</i>       | Kumbang lepuh               | -    | -    | -     |         |      | 15   |      |      |
| 37 | Nymphalidae    | <i>Acraea terpsicore</i>         | Coster Kuning-keceklatan    | -    | -    | -     |         | 15   | 7    | 9    | 8    |
| 38 | Nymphalidae    | <i>Danaus chrysippus</i>         | Macan polos                 | -    | LC   | -     | 6       | 15   | 6    | 1    | 1    |
| 39 | Nymphalidae    | <i>Danaus genutia</i>            | Macan biasa                 | -    | -    | -     |         | 18   | 3    | 1    | 2    |
| 40 | Nymphalidae    | <i>Discophora sondaica</i>       | Pandir Biasa                | -    | -    | -     |         |      |      | 1    | 1    |
| 41 | Nymphalidae    | <i>Dolichochlora bisaltide</i>   | Kupu-kupu                   | -    | -    | -     |         | 4    |      |      |      |
| 42 | Nymphalidae    | <i>Elymnias hypermnestra</i>     | Palem biasa                 | -    | -    | -     |         |      | 2    | 3    | 7    |
| 43 | Nymphalidae    | <i>Hypolimnas bolina</i>         | Kupu-kupu                   | -    | -    | -     |         | 2    | 2    | 6    | 7    |
| 44 | Nymphalidae    | <i>Ideopsis juvena</i>           | Kupu-kupu                   | -    | -    | -     |         |      |      |      |      |
| 45 | Nymphalidae    | <i>Junonia almana</i>            | Solek Merak                 | -    | LC   | -     |         | 7    |      | 5    |      |
| 46 | Nymphalidae    | <i>Junonia atlites</i>           | Kupu-kupu                   | -    | -    | -     |         | 9    | 4    |      |      |
| 47 | Nymphalidae    | <i>Junonia hedonia</i>           | Solek Coklat                | -    | -    | -     |         |      |      |      | 1    |
| 48 | Nymphalidae    | <i>Junonia orithya</i>           | Solek Biru                  | -    | LC   | -     | 1       | 8    |      | 1    |      |
| 49 | Nymphalidae    | <i>Lethe europa</i>              | Rimbawan Bambu              | -    | -    | -     |         |      |      | 2    | 2    |
| 50 | Nymphalidae    | <i>Melanitis leda</i>            | Senja Biasa                 | -    | -    | -     |         |      | 1    | 4    | 4    |
| 51 | Nymphalidae    | <i>Mycalis perseus</i>           | Semak-kusam umum            | -    | -    | -     | 1       |      |      | 1    |      |
| 52 | Nymphalidae    | <i>Neptis hylas</i>              | Pelaut Biasa                | -    | -    | -     | 1       | 6    | 4    | 6    | 3    |
| 53 | Nymphalidae    | <i>Phalanta phalantha</i>        | Macan-tutul biasa           | -    | LC   | -     |         |      |      | 2    | 2    |
| 54 | Pamphagidae    | <i>Ocnodes sp.</i>               | Belalang Batu               | -    | -    | -     |         | 6    |      |      |      |
| 55 | Papilionidae   | <i>Graphium agamemnon</i>        | Sayap-segitiga berekor      | -    | -    | -     | 1       | 2    | 2    |      |      |
| 56 | Papilionidae   | <i>Graphium doson</i>            | Kupu-kupu                   | -    | -    | -     | 2       |      |      |      |      |
| 57 | Papilionidae   | <i>Graphium sarpedon</i>         | Sayap-segitiga biru         | -    | LC   | -     | 1       |      |      |      | 2    |
| 58 | Papilionidae   | <i>Papilio demoleus</i>          | Ekor-walet Jeruk            | -    | -    | -     |         | 1    | 1    | 2    | 3    |
| 59 | Papilionidae   | <i>Papilio memnon</i>            | Pastur Besar                | -    | -    | -     |         | 2    | 1    |      |      |
| 60 | Pieridae       | <i>Appias alferna</i>            | Kupu-kupu                   | -    | -    | -     |         | 17   |      |      |      |
| 61 | Pieridae       | <i>Appias alferna</i>            | Albatros lurik              | -    | -    | -     |         |      |      | 17   | 10   |
| 62 | Pieridae       | <i>Catopsilia pomona</i>         | Migran Biasa                | -    | -    | -     |         | 28   | 14   | 8    | 15   |
| 63 | Pieridae       | <i>Catopsilia scylla</i>         | Kupu-kupu                   | -    | -    | -     |         | 3    |      |      |      |
| 64 | Pieridae       | <i>Delias hyparete</i>           | Izebel lukis                | -    | -    | -     |         | 5    |      | 4    | 2    |
| 65 | Pieridae       | <i>Delias periboea</i>           | Izebel Periboea             | -    | LC   | -     | 2       | 8    | 7    | 1    |      |
| 66 | Pieridae       | <i>Eurema blanda</i>             | Alang-kuning bintik-tiga    | -    | -    | -     |         | 7    | 7    | 17   | 14   |
| 67 | Pieridae       | <i>Eurema hecabe</i>             | Alang-kuning biasa          | -    | -    | -     |         | 6    | 5    | 19   | 5    |
| 68 | Pieridae       | <i>Eurema sari</i>               | Alang-kuning bercak cokelat | -    | -    | -     |         |      |      | 5    | 5    |
| 69 | Pieridae       | <i>Leptosia nina</i>             | Kupu-kupu                   | -    | -    | -     |         | 6    |      |      |      |
| 70 | Pieridae       | <i>Pareronia valeria</i>         | Kembara Biasa               | -    | -    | -     |         |      | 20   |      |      |
| 71 | Platynemididae | <i>Copera marginipes</i>         | Untaihanu Biasa             | -    | LC   | -     |         |      |      | 1    | 1    |
| 72 | Pyrrhocoridae  | <i>Dysdercus cingulatus</i>      | Bapak Pucung                | -    | -    | -     | 4       | 4    |      |      |      |
| 73 | Sphingidae     | <i>Agrius convolvuli</i>         | Ulat keket Convolvulus      | -    | -    | -     |         |      |      | 1    | 1    |
| 74 | Sphingidae     | <i>Theretra oldenlandiae</i>     | Ulat keket talas            | -    | -    | -     |         |      |      | 1    | 1    |
| 75 | Tetrigidae     | <i>Eucriotettix oculatus</i>     | Belalang kerdil             | -    | -    | -     |         |      | 5    |      |      |
|    |                | Jumlah Individu                  |                             |      |      |       | 161     | 318  | 361  | 267  | 204  |
|    |                | Jumlah Jenis                     |                             |      |      |       | 24      | 41   | 37   | 44   | 44   |
|    |                | Indeks Keanekaragaman (H')       |                             |      |      |       | 2.14    | 3.45 | 3.07 | 3.38 | 3.38 |



**c. Area Konservasi Kawasan Perbukitan**

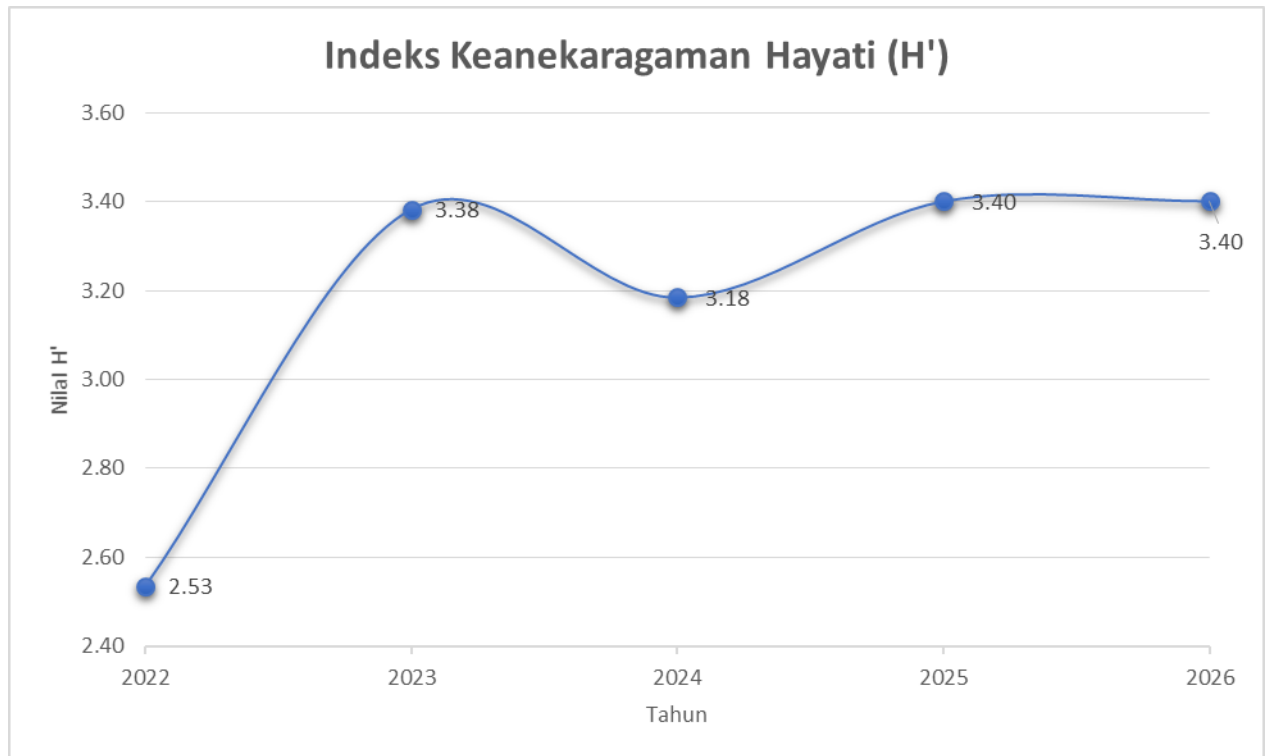
**Tabel indeks Shannon wiener (H') perbukitan 2022 – 2026**

| No | Famili        | Nama Ilmiah                      | Nama Indonesia             | P106 | IUCN | CITES | PERBUKITAN |      |      |      |      |
|----|---------------|----------------------------------|----------------------------|------|------|-------|------------|------|------|------|------|
|    | INSECTA       |                                  |                            |      |      |       | 2022       | 2023 | 2024 | 2025 | 2026 |
| 1  | Acrididae     | <i>Phlaeoba fumosa</i>           | Belalang Coklat            | -    | -    | -     |            |      |      | 7    | 7    |
| 2  | Acrididae     | <i>Stenocatantops sp.</i>        | Belalang                   | -    | -    | -     | 14         | 14   | 7    |      |      |
| 3  | Acrididae     | <i>Xenocatantops humilis</i>     | Belalang Kaki-merah        | -    | -    | -     | 1          | 1    |      |      |      |
| 4  | Apidae        | <i>Apis mellifera</i>            | Lebah Madu                 | -    | DD   | -     |            |      | 4    |      |      |
| 5  | Calliphoridae | <i>Chrysomya megacephala</i>     | Lalat Biru                 | -    | -    | -     |            |      |      | 3    | 1    |
| 6  | Curculionidae | <i>Hypomeces pulviger</i>        | Kumbang debu-emas          | -    | -    | -     |            |      | 1    |      |      |
| 7  | Geometridae   | <i>Scopula sp.</i>               | Ngengat                    | -    | -    | -     |            |      | 1    |      |      |
| 8  | Gryllidae     | <i>Gymnogryllus angustus</i>     | Jangkrik                   | -    | -    | -     |            |      | 3    |      |      |
| 9  | Hesperiidae   | <i>Taractrocera archias</i>      | Sipet Kuning               | -    | -    | -     |            |      |      | 3    | 2    |
| 10 | Hesperiidae   | <i>Taractrocera nigrolimbata</i> | Sipet rumbai gelap         | -    | -    | -     |            |      |      | 5    | 7    |
| 11 | Hesperiidae   | <i>Udaspes folus</i>             | Kupu-kupu                  | -    | -    | -     |            |      | 4    |      |      |
| 12 | Libellulidae  | <i>Crocothemis servilia</i>      | Perutgaris Merah           | -    | LC   | -     |            | 3    | 1    | 3    | 2    |
| 13 | Libellulidae  | <i>Diplacodes trivialis</i>      | Sibartanah Belang          | -    | LC   | -     |            | 4    | 6    | 1    | 4    |
| 14 | Libellulidae  | <i>Orthetrum sabina</i>          | Sambar Biasa               | -    | LC   | -     | 9          | 17   | 17   | 17   | 14   |
| 15 | Libellulidae  | <i>Pantala flavescens</i>        | Kembara Buana              | -    | LC   | -     |            | 15   | 31   | 31   | 7    |
| 16 | Libellulidae  | <i>Potamarcha congener</i>       | Penenger Ranting           | -    | LC   | -     |            | 6    | 3    | 6    |      |
| 17 | Libellulidae  | <i>Rhodothermis rufa</i>         | Sibarmerah Biasa           | -    | LC   | -     |            |      |      | 1    |      |
| 18 | Lycaenidae    | <i>Castalius rosomon</i>         | Hambar Biasa               | -    | -    | -     |            | 4    | 13   | 27   | 8    |
| 19 | Lycaenidae    | <i>Catochrysops strabo</i>       | Ercis Pelupa               | -    | -    | -     | 2          | 5    |      | 4    |      |
| 20 | Lycaenidae    | <i>Cupido lacturnus</i>          | Cupid Berekor              | -    | -    | -     |            |      |      | 5    |      |
| 21 | Lycaenidae    | <i>Euchrysops cnejus</i>         | Kapri bintik               | -    | -    | -     |            |      | 1    | 5    | 5    |
| 22 | Lycaenidae    | <i>Jamides alecto</i>            | Kupu-kupu                  | -    | -    | -     |            | 1    |      |      |      |
| 23 | Lycaenidae    | <i>Jamides celeno</i>            | Azura Biasa                | -    | -    | -     |            | 1    |      | 5    | 12   |
| 24 | Lycaenidae    | <i>Luthrodes pandava</i>         | Cupid polos                | -    | -    | -     |            | 3    | 12   | 10   | 6    |
| 25 | Lycaenidae    | <i>Megisba malaya</i>            | Kupu-kupu                  | -    | -    | -     |            |      | 1    |      |      |
| 26 | Lycaenidae    | <i>Rapala iarbus</i>             | Kupu-kupu                  | -    | -    | -     |            | 1    |      |      |      |
| 27 | Lycaenidae    | <i>Zizina otis</i>               | Alang biru kecil           | -    | LC   | -     | 2          | 8    | 5    | 5    | 6    |
| 28 | Lycaenidae    | <i>Zizula hylax</i>              | Ragut mungil               | -    | LC   | -     |            | 1    |      |      |      |
| 29 | Nymphalidae   | <i>Acraea terpsicore</i>         | Coster Kuning-kecokelatan  | -    | -    | -     | 10         | 13   | 18   | 22   |      |
| 30 | Nymphalidae   | <i>Athyma perius</i>             | Kupu-kupu                  | -    | -    | -     |            |      | 1    |      |      |
| 31 | Nymphalidae   | <i>Cethosia penthesilea</i>      | Kupu-kupu                  | -    | -    | -     |            | 4    | 1    |      |      |
| 32 | Nymphalidae   | <i>Cupha erymanthis</i>          | Dukuh                      | -    | -    | -     |            |      | 1    | 1    |      |
| 33 | Nymphalidae   | <i>Danaus chrysippus</i>         | Macan polos                | -    | LC   | -     | 18         | 16   | 13   | 14   | 5    |
| 34 | Nymphalidae   | <i>Danaus genutia</i>            | Macan biasa                | -    | -    | -     |            | 19   | 6    | 4    | 1    |
| 35 | Nymphalidae   | <i>Discophora sondaica</i>       | Pandir Biasa               | -    | -    | -     |            |      |      | 1    |      |
| 36 | Nymphalidae   | <i>Dolichochlora bisaltide</i>   | Kupu-kupu                  | -    | -    | -     |            | 3    |      |      |      |
| 37 | Nymphalidae   | <i>Elymnias hypermnestra</i>     | Palem biasa                | -    | -    | -     |            |      | 2    | 3    |      |
| 38 | Nymphalidae   | <i>Hypolimnys bolina</i>         | Kupu-kupu                  | -    | -    | -     |            | 6    |      | 9    | 4    |
| 39 | Nymphalidae   | <i>Junonia almana</i>            | Solek Merak                | -    | LC   | -     |            | 4    |      |      |      |
| 40 | Nymphalidae   | <i>Junonia atlites</i>           | Kupu-kupu                  | -    | -    | -     |            | 15   | 3    |      |      |
| 41 | Nymphalidae   | <i>Junonia hedonia</i>           | Solek Coklat               | -    | -    | -     |            |      | 1    |      |      |
| 42 | Nymphalidae   | <i>Junonia orithya</i>           | Solek Biru                 | -    | LC   | -     |            | 7    |      | 1    |      |
| 43 | Nymphalidae   | <i>Lethe eurypus</i>             | Rimbawan Bambu             | -    | -    | -     |            |      |      | 2    | 2    |
| 44 | Nymphalidae   | <i>Melanitis leda</i>            | Senja Biasa                | -    | -    | -     |            |      | 2    | 9    | 1    |
| 45 | Nymphalidae   | <i>Mycalopsis perseus</i>        | Semak-kusam umum           | -    | -    | -     |            |      | 4    | 3    | 3    |
| 46 | Nymphalidae   | <i>Neptis hylas</i>              | Pelaut Biasa               | -    | -    | -     | 3          | 5    | 11   | 6    | 4    |
| 47 | Nymphalidae   | <i>Phalanta phalantha</i>        | Macan-tutul biasa          | -    | LC   | -     | 3          |      |      | 4    | 4    |
| 48 | Nymphalidae   | <i>Polyura athamas</i>           | Kupu-kupu                  | -    | -    | -     | 2          |      |      |      |      |
| 49 | Nymphalidae   | <i>Ypthima philomela</i>         | Perumput Malaya Philomela  | -    | -    | -     |            |      |      | 1    |      |
| 50 | Pamphagidae   | <i>Ocnodes sp.</i>               | Belalang Batu              | -    | -    | -     |            | 5    |      |      |      |
| 51 | Papilionidae  | <i>Graphium agamemnon</i>        | Sayap-segitiga berekor     | -    | -    | -     |            | 4    | 3    | 2    | 2    |
| 52 | Papilionidae  | <i>Graphium sarpedon</i>         | Sayap-segitiga biru        | -    | LC   | -     | 1          |      |      |      |      |
| 53 | Papilionidae  | <i>Papilio demoleus</i>          | Ekor-walet Jeruk           | -    | -    | -     | 1          | 1    | 11   | 1    | 2    |
| 54 | Papilionidae  | <i>Papilio memnon</i>            | Pastur Besar               | -    | -    | -     |            | 1    | 1    | 3    | 2    |
| 55 | Pieridae      | <i>Appias lycida</i>             | Kupu-kupu                  | -    | -    | -     | 3          |      | 2    |      |      |
| 56 | Pieridae      | <i>Appias olferna</i>            | Kupu-kupu                  | -    | -    | -     | 14         | 19   | 3    |      |      |
| 57 | Pieridae      | <i>Appias olferna</i>            | Albatros lurik             | -    | -    | -     |            |      |      | 15   | 12   |
| 58 | Pieridae      | <i>Belenois java</i>             | Kaper Putih                | -    | -    | -     |            | 20   |      | 5    |      |
| 59 | Pieridae      | <i>Catopsilia pomona</i>         | Migran Biasa               | -    | -    | -     | 24         | 35   | 44   | 20   | 10   |
| 60 | Pieridae      | <i>Catopsilia scylla</i>         | Kupu-kupu                  | -    | -    | -     |            | 5    | 7    |      |      |
| 61 | Pieridae      | <i>Delias hyparete</i>           | Izebel Iukis               | -    | -    | -     |            | 12   | 1    | 1    |      |
| 62 | Pieridae      | <i>Delias periboea</i>           | Izebel Periboea            | -    | LC   | -     |            | 15   | 7    | 3    | 3    |
| 63 | Pieridae      | <i>Eurema blanda</i>             | Alang-kuning bintik-tiga   | -    | -    | -     | 14         | 15   | 12   | 8    | 6    |
| 64 | Pieridae      | <i>Eurema hecabe</i>             | Alang-kuning biasa         | -    | -    | -     | 8          | 7    | 14   | 5    | 5    |
| 65 | Pieridae      | <i>Eurema sari</i>               | Alang-kuning bercak coklat | -    | -    | -     |            |      |      | 7    | 3    |
| 66 | Pieridae      | <i>Hebomoia glaucippe</i>        | Ujung-jingga besar         | -    | -    | -     |            | 3    |      |      |      |
| 67 | Pieridae      | <i>Hebomoia glaucippe</i>        | Ujung-jingga besar         | -    | -    | -     |            |      |      | 1    |      |
| 68 | Pieridae      | <i>Ixias balice</i>              | Tepi-jingga Balis          | -    | -    | -     |            |      |      | 1    |      |
| 69 | Pieridae      | <i>Ixias pyrene</i>              | Kupu-kupu                  | -    | -    | -     | 1          | 11   | 3    |      |      |
| 70 | Pieridae      | <i>Leptosia nina</i>             | Kupu-kupu                  | -    | -    | -     |            | 3    |      |      |      |
| 71 | Pieridae      | <i>Paretonia valeria</i>         | Kembara Biasa              | -    | -    | -     |            |      | 3    | 5    | 3    |
| 72 | Pyrrhonoridae | <i>Dysdercus cingulatus</i>      | Bapak Pucung               | -    | -    | -     | 6          | 6    |      |      |      |
|    |               | Jumlah Individu                  |                            |      |      |       | 136        | 338  | 284  | 295  | 153  |
|    |               | Jumlah Jenis                     |                            |      |      |       | 19         | 41   | 41   | 45   | 31   |
|    |               | Indeks Keanekaragaman (H')       |                            |      |      |       | 2.53       | 3.38 | 3.18 | 3.40 | 3.40 |

PT Solusi Bangun Indonesia Tbk

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Total terdapat lebih 13 famili insecta yang ditemukan di area konservasi. Jumlah paling banyak ditemukan di area kawasan kolam mliwang. Kawasan kolam mliwang banyak ditemukan insecta karena adanya cadangan air sebagai sumber minum insect tersebut

## 2. PENINGKATAN KEANEKARAGAMAN HAYATI FLORA

Upaya pelestarian flora sangat penting demi terciptanya lingkungan yang lestari serta habitat yang bersih dan nyaman bagi fauna yang ada di dalamnya. Penanaman tanaman atau penghijauan pada PT Solusi Bangun Indonesia Pabrik Tuban ini terdapat pada :

- Greenbelt
- Reklamasi Tambang Batu gamping
- Kolam Mliwang
- Kawasan perbukitan
- Kawasan Plant/Pabrik
- Hutan Pabrik
- Jetty/Pelabuhan
- Tambang Clay 33

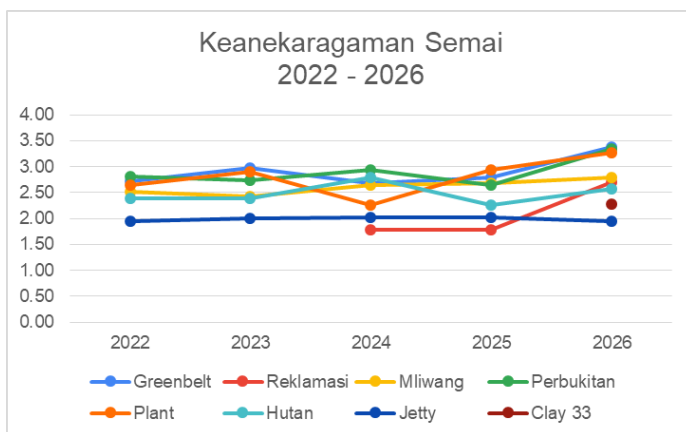
Klasifikasi Pertumbuhan Tegakan tanaman di area PT Solusi Bangun Indonesia Tbk Pabrik Tuban diklasifikasikan sebagai berikut :

- Semai : Anakan pohon dengan tinggi kurang dari 1.5 m atau 150 cm yang baru tumbuh dari biji.
- Pancang / Sapihan : Anakan pohon dengan tinggi lebih dari 1,5 meter tetapi memiliki diameter batang kurang dari 10 cm.
- Tiang : Pohon muda dengan ukuran diameter batang antara 10 cm sampai 19–20 cm.
- Pohon : Tumbuhan berkayu dewasa dengan diameter lebih besar dari batang 20 cm (dibedakan lagi menjadi pohon inti hingga pohon besar > 50 cm).

Adapun indeks keanekaragaman hayati, jumlah tegakan dan jumlah jenis masing masing klasifikasi berdasarkan wilayah adalah sebagai berikut :

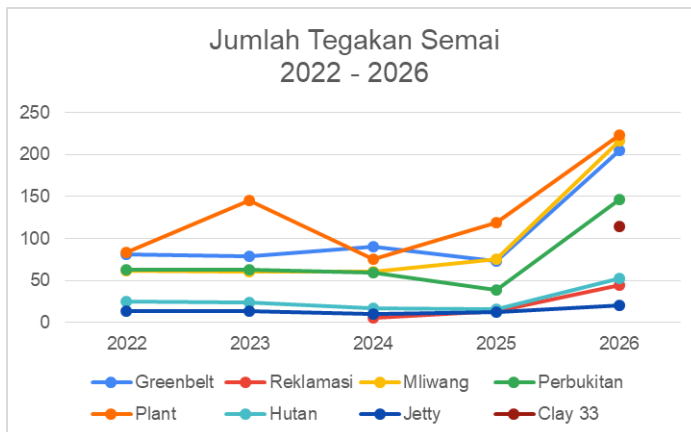
1. Klasifikasi Semai
  - Tabel indeks biodiversitas

| Lokasi     | Indeks Keanekaragaman (H') |      |      |      |      |
|------------|----------------------------|------|------|------|------|
|            | 2022                       | 2023 | 2024 | 2025 | 2026 |
| Greenbelt  | 2.72                       | 2.97 | 2.68 | 2.80 | 3.37 |
| Reklamasi  |                            |      | 1.79 | 1.79 | 2.71 |
| Mliwang    | 2.52                       | 2.43 | 2.65 | 2.68 | 2.79 |
| Perbukitan | 2.80                       | 2.74 | 2.95 | 2.65 | 3.34 |
| Plant      | 2.64                       | 2.91 | 2.26 | 2.95 | 3.28 |
| Hutan      | 2.39                       | 2.38 | 2.80 | 2.26 | 2.57 |
| Jetty      | 1.95                       | 2.01 | 2.03 | 2.03 | 1.94 |
| Clay 33    |                            |      |      |      | 2.29 |



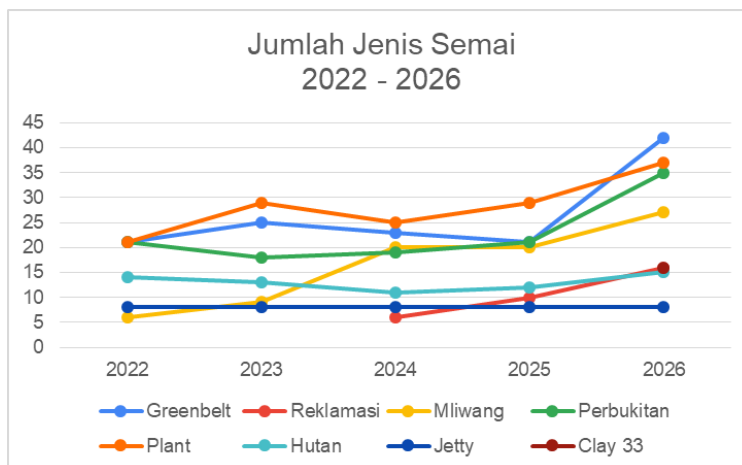
- Jumlah tegakan

| Lokasi     | Jumlah Tegakan |      |      |      |      |
|------------|----------------|------|------|------|------|
|            | 2022           | 2023 | 2024 | 2025 | 2026 |
| Greenbelt  | 81             | 79   | 90   | 73   | 205  |
| Reklamasi  |                |      | 6    | 13   | 45   |
| Mliwang    | 62             | 61   | 60   | 75   | 217  |
| Perbukitan | 63             | 63   | 59   | 39   | 146  |
| Plant      | 84             | 145  | 75   | 119  | 224  |
| Hutan      | 25             | 24   | 17   | 16   | 52   |
| Jetty      | 14             | 14   | 10   | 12   | 20   |
| Clay 33    |                |      |      |      | 114  |



- Jumlah Jenis tegakan

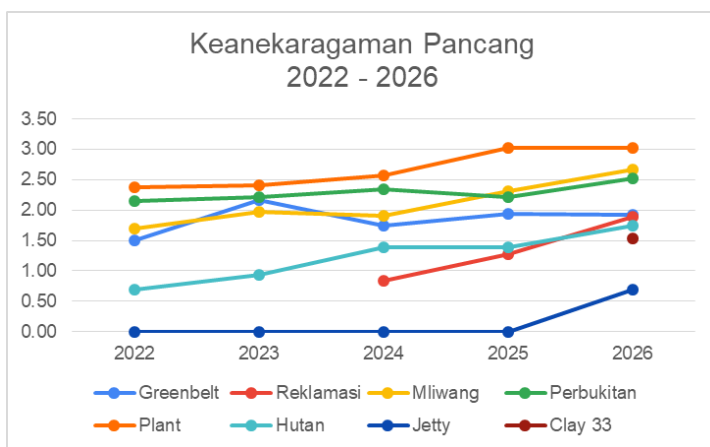
| Lokasi     | Jumlah Jenis |      |      |      |      |
|------------|--------------|------|------|------|------|
|            | 2022         | 2023 | 2024 | 2025 | 2026 |
| Greenbelt  | 21           | 25   | 23   | 21   | 42   |
| Reklamasi  |              |      | 6    | 10   | 16   |
| Mliwang    | 6            | 9    | 20   | 20   | 27   |
| Perbukitan | 21           | 18   | 19   | 21   | 35   |
| Plant      | 21           | 29   | 25   | 29   | 37   |
| Hutan      | 14           | 13   | 11   | 12   | 15   |
| Jetty      | 8            | 8    | 8    | 8    | 8    |
| Clay 33    |              |      |      |      | 16   |



## 2. Klasifikasi Pancang

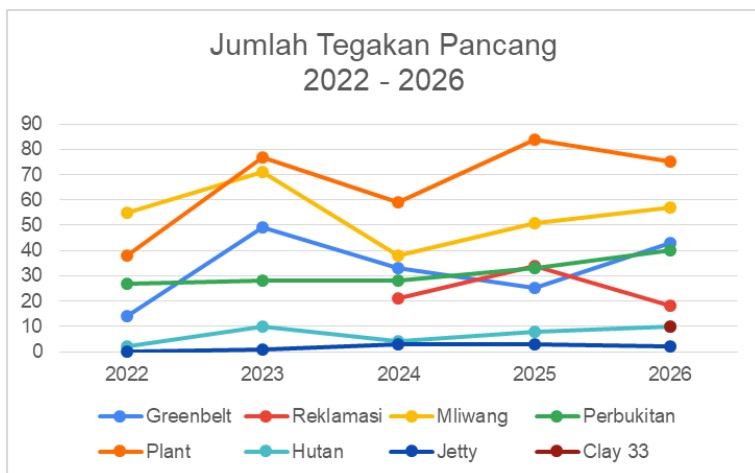
- Tabel Indeks Biodiversitas

| Lokasi     | Indeks Keanekaragaman (H') |      |      |      |      |
|------------|----------------------------|------|------|------|------|
|            | 2022                       | 2023 | 2024 | 2025 | 2026 |
| Greenbelt  | 1.49                       | 2.16 | 1.74 | 1.94 | 1.93 |
| Reklamasi  |                            |      | 0.83 | 1.27 | 1.89 |
| Mliwang    | 1.69                       | 1.97 | 1.90 | 2.31 | 2.66 |
| Perbukitan | 2.15                       | 2.21 | 2.35 | 2.22 | 2.51 |
| Plant      | 2.38                       | 2.41 | 2.57 | 3.03 | 3.02 |
| Hutan      | 0.69                       | 0.94 | 1.39 | 1.39 | 1.74 |
| Jetty      | 0.00                       | 0.00 | 0.00 | 0.00 | 0.69 |
| Clay 33    |                            |      |      |      | 1.53 |



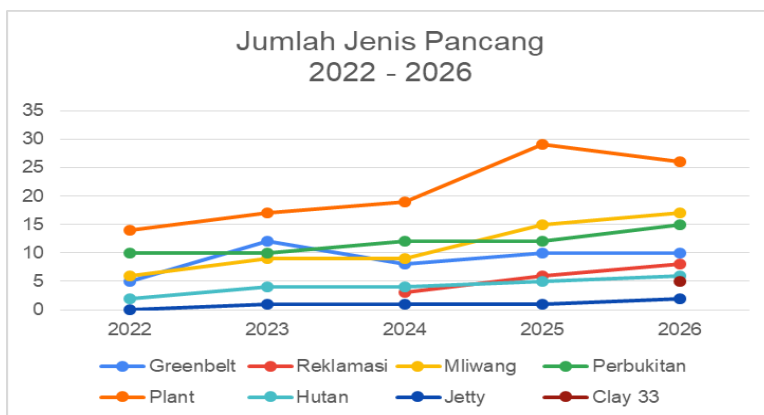
- Jumlah Tegakan

| Lokasi     | Jumlah Tegakan |      |      |      |      |
|------------|----------------|------|------|------|------|
|            | 2022           | 2023 | 2024 | 2025 | 2026 |
| Greenbelt  | 14             | 49   | 33   | 25   | 43   |
| Reklamasi  |                |      | 21   | 34   | 18   |
| Mliwang    | 55             | 71   | 38   | 51   | 57   |
| Perbukitan | 27             | 28   | 28   | 33   | 40   |
| Plant      | 38             | 77   | 59   | 84   | 75   |
| Hutan      | 2              | 10   | 4    | 8    | 10   |
| Jetty      | 0              | 1    | 3    | 3    | 2    |
| Clay 33    |                |      |      |      | 10   |



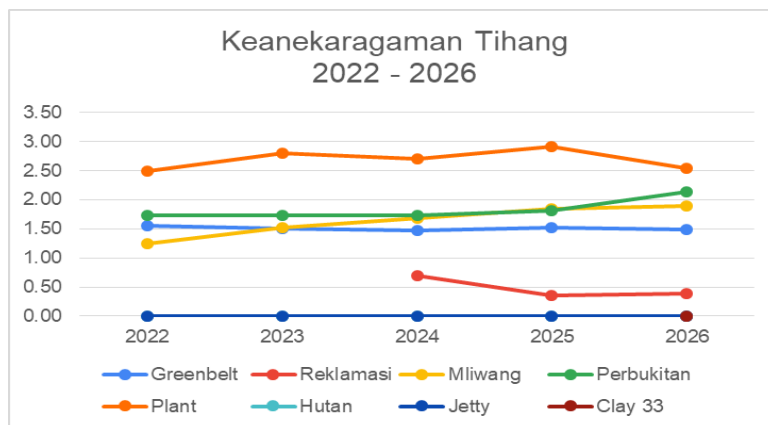
-  
- **Jumlah Jenis Tegakan**

| Lokasi     | Jumlah Jenis |      |      |      |      |
|------------|--------------|------|------|------|------|
|            | 2022         | 2023 | 2024 | 2025 | 2026 |
| Greenbelt  | 5            | 12   | 8    | 10   | 10   |
| Reklamasi  |              |      | 3    | 6    | 8    |
| Mliwang    | 6            | 9    | 9    | 15   | 17   |
| Perbukitan | 10           | 10   | 12   | 12   | 15   |
| Plant      | 14           | 17   | 19   | 29   | 26   |
| Hutan      | 2            | 4    | 4    | 5    | 6    |
| Jetty      | 0            | 1    | 1    | 1    | 2    |
| Clay 33    |              |      |      |      | 5    |



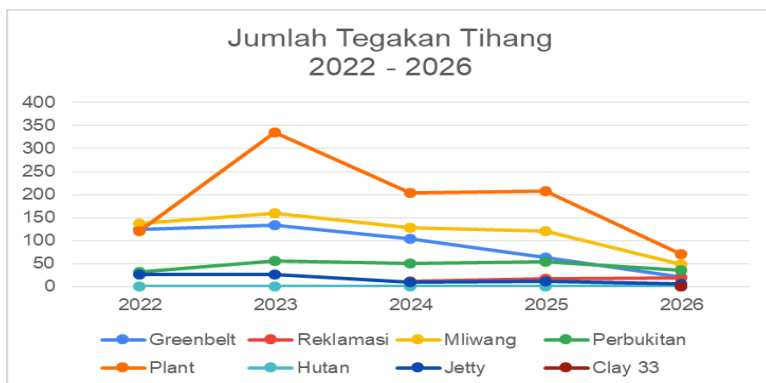
3. **Klasifikasi Tiang**

- **Tabel Indek Biodiversitas**



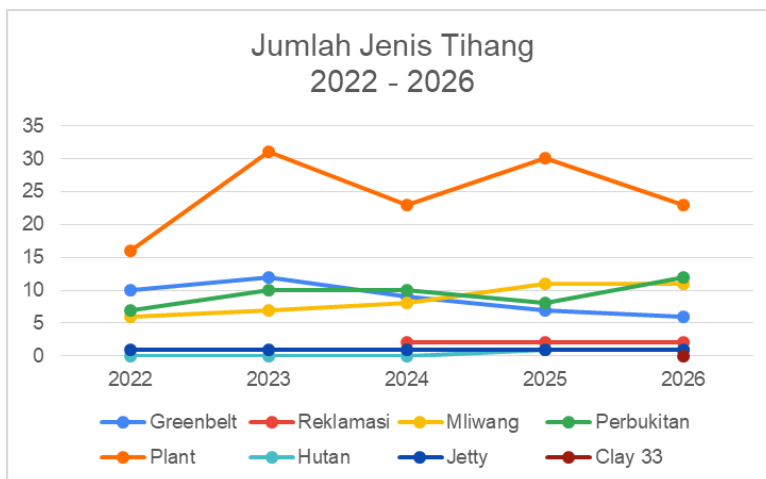
- **Jumlah Tegakan**

| Lokasi     | Jumlah Tegakan |      |      |      |      |
|------------|----------------|------|------|------|------|
|            | 2022           | 2023 | 2024 | 2025 | 2026 |
| Greenbelt  | 124            | 134  | 103  | 63   | 20   |
| Reklamasi  |                |      | 12   | 17   | 19   |
| Mliwang    | 138            | 160  | 127  | 120  | 49   |
| Perbukitan | 32             | 55   | 50   | 53   | 36   |
| Plant      | 120            | 336  | 203  | 207  | 71   |
| Hutan      | 0              | 0    | 0    | 1    | 1    |
| Jetty      | 26             | 26   | 10   | 12   | 6    |
| Clay 33    |                |      |      |      | 0    |



#### - Jumlah Jenis Tegakan

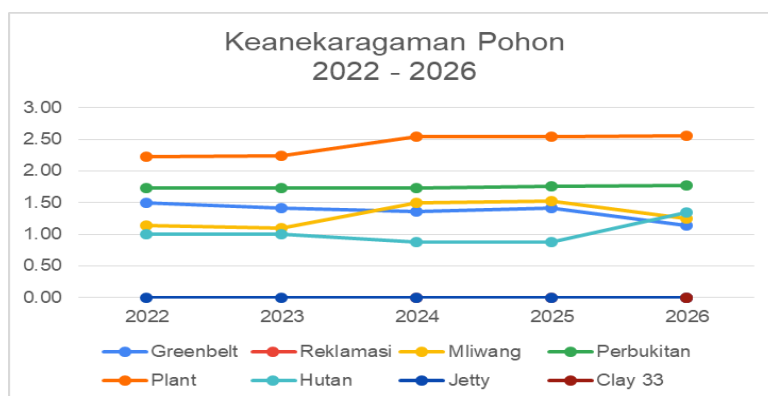
| Lokasi     | Jumlah Jenis |      |      |      |      |
|------------|--------------|------|------|------|------|
|            | 2022         | 2023 | 2024 | 2025 | 2026 |
| Greenbelt  | 10           | 12   | 9    | 7    | 6    |
| Reklamasi  |              |      | 2    | 2    | 2    |
| Mliwang    | 6            | 7    | 8    | 11   | 11   |
| Perbukitan | 7            | 10   | 10   | 8    | 12   |
| Plant      | 16           | 31   | 23   | 30   | 23   |
| Hutan      | 0            | 0    | 0    | 1    | 1    |
| Jetty      | 1            | 1    | 1    | 1    | 1    |
| Clay 33    |              |      |      |      | 0    |



#### 4. Klasifikasi Pohon

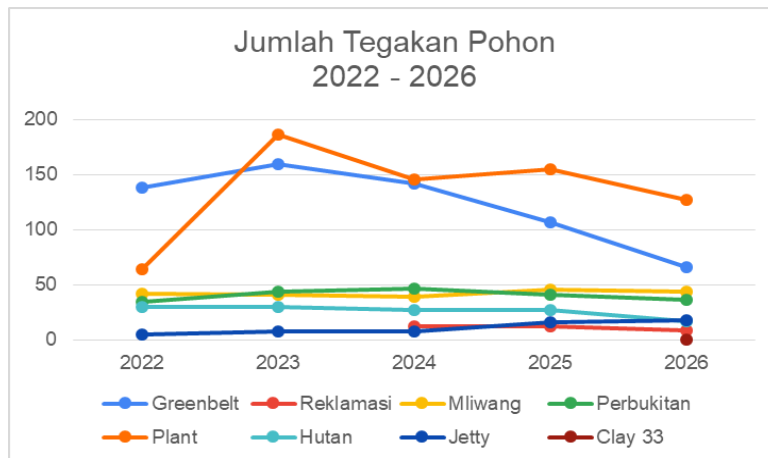
| Lokasi     | Indeks Keanekaragaman (H') |      |      |      |      |
|------------|----------------------------|------|------|------|------|
|            | 2022                       | 2023 | 2024 | 2025 | 2026 |
| Greenbelt  | 1.50                       | 1.41 | 1.36 | 1.42 | 1.14 |
| Reklamasi  |                            |      | 0.00 | 0.00 | 0    |
| Mliwang    | 1.14                       | 1.10 | 1.50 | 1.53 | 1.25 |
| Perbukitan | 1.74                       | 1.73 | 1.73 | 1.76 | 1.78 |
| Plant      | 2.22                       | 2.24 | 2.55 | 2.55 | 2.56 |
| Hutan      | 1.00                       | 1.00 | 0.87 | 0.87 | 1.35 |
| Jetty      | 0.00                       | 0.00 | 0.00 | 0.00 | 0    |
| Clay 33    |                            |      |      |      | 0    |

- Tabel  
Indeks Biodiversitas



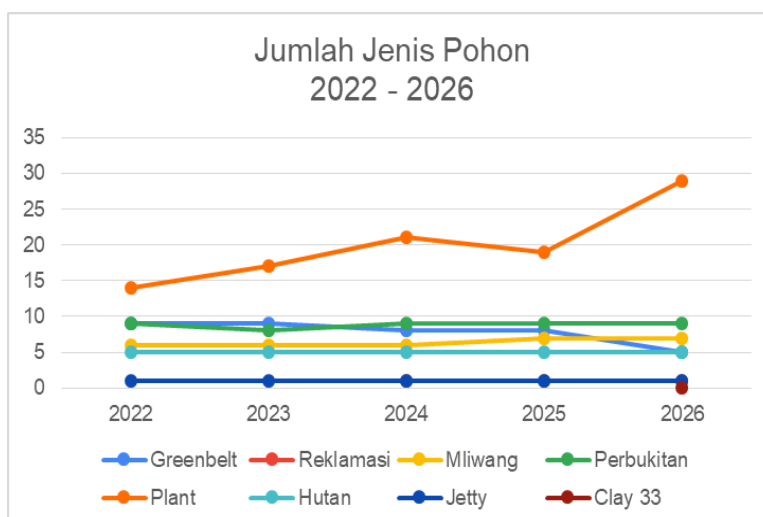
- Jumlah Tegakan

| Lokasi     | Jumlah Tegakan |      |      |      |      |
|------------|----------------|------|------|------|------|
|            | 2022           | 2023 | 2024 | 2025 | 2026 |
| Greenbelt  | 138            | 159  | 142  | 107  | 66   |
| Reklamasi  |                |      | 12   | 12   | 9    |
| Mliwang    | 42             | 41   | 39   | 46   | 44   |
| Perbukitan | 35             | 44   | 47   | 41   | 36   |
| Plant      | 64             | 186  | 146  | 155  | 127  |
| Hutan      | 30             | 30   | 27   | 27   | 17   |
| Jetty      | 5              | 8    | 8    | 16   | 18   |
| Clay 33    |                |      |      |      | 0    |



- Jumlah Jenis Tegakan

| Lokasi     | Jumlah Jenis |      |      |      |      |
|------------|--------------|------|------|------|------|
|            | 2022         | 2023 | 2024 | 2025 | 2026 |
| Greenbelt  | 9            | 9    | 8    | 8    | 5    |
| Reklamasi  |              |      | 1    | 1    | 1    |
| Mliwang    | 6            | 6    | 6    | 7    | 7    |
| Perbukitan | 9            | 8    | 9    | 9    | 9    |
| Plant      | 14           | 17   | 21   | 19   | 29   |
| Hutan      | 5            | 5    | 5    | 5    | 5    |
| Jetty      | 1            | 1    | 1    | 1    | 1    |
| Clay 33    |              |      |      |      | 0    |



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