



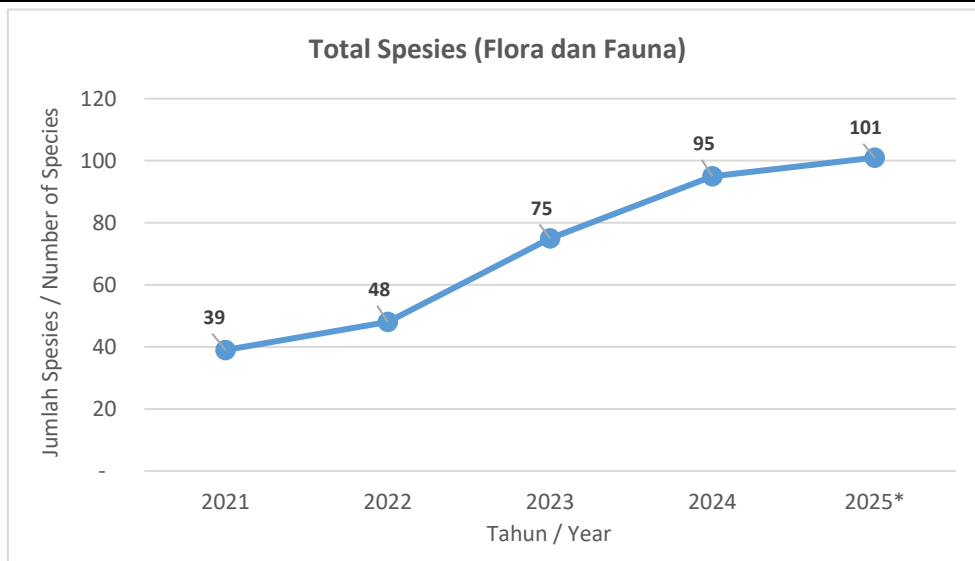
## Data dan Status Kecenderungan Sumberdaya Keanekaragaman Hayati (2021–2025)

Data and Trend Status of Biodiversity Resources (2021–2025)

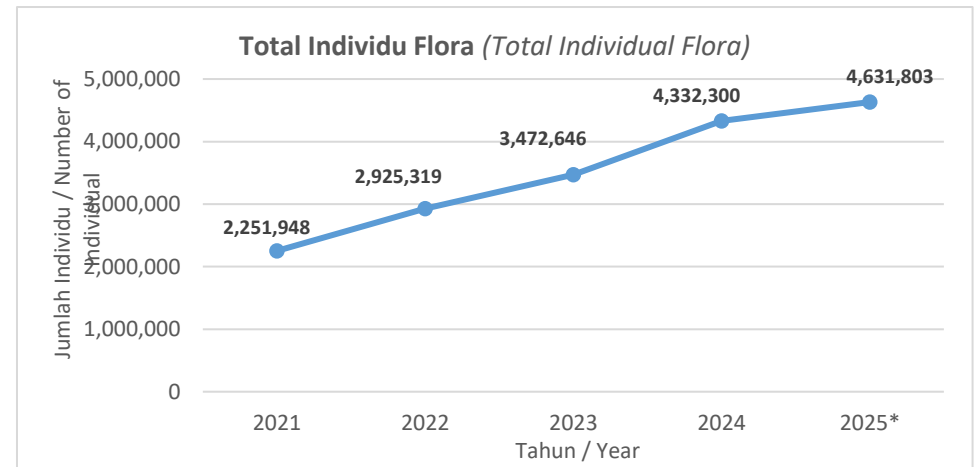
PT Vale Indonesia Tbk

**GRAFIK PENINGKATAN SPESIES DAN INDIVIDU FLORA DAN FAUNA**  
*(Trend Graph in Species and Individual Growth of Flora and Fauna)*  
**PT Vale Indonesia Tbk**  
**TAHUN 2021-2025**

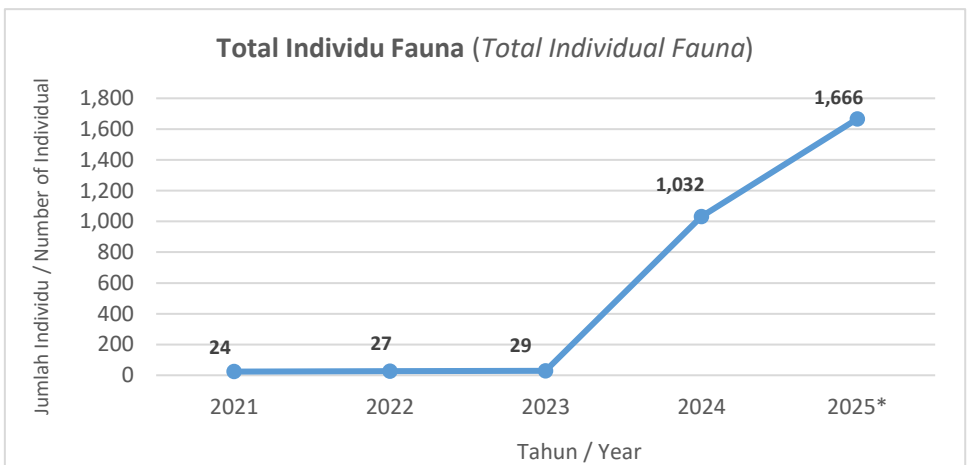
**Grafik Peningkatan Spesies Flora dan Fauna di Area Reklamasi dan Area Rehabilitasi DAS** *(Trend Graph of Flora and Fauna Species Growth in Reclamation and Watershed Rehabilitation Area)*



**Grafik Peningkatan Individu Flora** *(Trend Graph of Flora Individual Growth)*



**Grafik Peningkatan Individu Fauna** *(Trend Graph of Fauna Individual Growth)*



**STATUS DAN KECENDERUNGAN SUMBER DAYA KEANEKARAGAMAN HAYATI**  
*Data and Trend Status of Biodiversity Resources (2021–2025)*  
**PT Vale Indonesia Tbk**  
**TAHUN 2021–2025**

Berikut merupakan tabel status dan kecenderungan sumber daya keanekaragaman hayati PT Vale Indonesia Tbk tahun 2021–2025:  
*(The following table presents the status and trends of biodiversity resources at PT Vale Indonesia Tbk for the years 2021–2025:*

**Tabel 1.** Daftar Spesies Flora dan Fauna di Area Program Keanekaragaman Hayati (Area Reklamasi dan Area Rehabilitasi DAS)  
*(Table 1. List of Flora and Fauna Species in the Biodiversity Program Areas (Reclamation and Watershed Rehabilitation Areas)*

| No    | Nama Ilmiah (Scientific Name) | Nama Lokal (Local Name) | Jumlah Individu* (Number of Individual) |         |         |         |         |
|-------|-------------------------------|-------------------------|-----------------------------------------|---------|---------|---------|---------|
|       |                               |                         | 2021                                    | 2022    | 2023    | 2024    | 2025**  |
| Flora |                               |                         |                                         |         |         |         |         |
| 1     | Acacia sp.                    | Akasia                  | 123.647                                 | 159.900 | 118.516 | 64.161  | 67.369  |
| 2     | Agathis celebica              | Damar                   | 0                                       | 0       | 30      | 70      | 484     |
| 3     | Agathis dammara               | Agathis                 | 103.039                                 | 133.250 | 148.144 | 80.202  | 84.212  |
| 4     | Agathis sp.                   | Agathis                 | 12.802                                  | 12.590  | 13.141  | 15.209  | 15.410  |
| 5     | Aleurites moluccana           | Kemiri                  | 0                                       | 0       | 118.516 | 187.116 | 187.141 |
| 6     | Alstonia scholaris            | Pulai                   | 0                                       | 0       | 0       | 40.440  | 50.144  |
| 7     | Alstonia sp.                  | Kayu Tanduk             | 2.065                                   | 4.936   | 5.342   | 6.458   | 6.567   |
| 8     | Anacardium occidentale        | Jambu Mete              | 0                                       | 0       | 88.887  | 134.551 | 147.444 |
| 9     | Anthocephalus cadamba         | Jabon                   | 0                                       | 0       | 0       | 112.200 | 117.810 |
| 10    | Anthocephalus macrophyllus    | Jabon                   | 123.647                                 | 161.843 | 83.548  | 33.341  | 35.945  |
| 11    | Aquilaria malaccensis         | Gaharu                  | 0                                       | 0       | 0       | 408     | 453     |
| 12    | Archidendron pauciflorum      | Jengkol                 | 0                                       | 2.429   | 135.519 | 121.017 | 127.630 |
| 13    | Areca sp.                     | Pinang Hutan            | 0                                       | 0       | 14      | 33      | 40      |
| 14    | Arenga pinnata                | Aren                    | 0                                       | 0       | 89.198  | 86.336  | 90.662  |
| 15    | Artocarpus altilis            | Sukun                   | 0                                       | 0       | 0       | 75.289  | 79.076  |
| 16    | Artocarpus camansi            | Kamassi/Kluwih          | 0                                       | 0       | 0       | 652     | 700     |
| 17    | Artocarpus heterophyllus      | Nangka                  | 0                                       | 0       | 312     | 40.916  | 42.971  |
| 18    | Artocarpus incisus            | Kayu Tarra              | 2.065                                   | 4.936   | 5.342   | 6.458   | 6.567   |
| 19    | Artocarpus integer            | Cempedak                | 0                                       | 0       | 118.516 | 64.569  | 67.823  |
| 20    | Artocarpus teysmanii          | Saling-saling           | 0                                       | 0       | 0       | 571     | 618     |

| No | Nama Ilmiah (Scientific Name)       | Nama Lokal (Local Name) | Jumlah Individu* (Number of Individual) |         |         |         |         |
|----|-------------------------------------|-------------------------|-----------------------------------------|---------|---------|---------|---------|
|    |                                     |                         | 2021                                    | 2022    | 2023    | 2024    | 2025**  |
| 21 | <i>Avicennia</i> sp.                | Bakau Avicennia         | 0                                       | 0       | 0       | 56.100  | 58.905  |
| 22 | <i>Calamus caesius</i>              | Rotan                   | 0                                       | 0       | 28      | 65      | 78      |
| 23 | <i>Calophyllum inophyllum</i>       | Bintangur               | 10.647                                  | 11.053  | 11.575  | 13.452  | 13.634  |
| 24 | <i>Calophyllum soulattri</i>        | Betao                   | 13.521                                  | 13.102  | 13.797  | 16.108  | 16.377  |
| 25 | <i>Casuarina equisetifolia</i>      | Cemara laut             | 0                                       | 3.644   | 36.435  | 1.890   | 3.390   |
| 26 | <i>Casuarina junghuhniana</i>       | Buangin                 | 0                                       | 0       | 0       | 65.715  | 80.474  |
| 27 | <i>Casuarina rumphiana</i>          | Buangin                 | 206.078                                 | 266.500 | 237.031 | 96.242  | 101.054 |
| 28 | <i>Cinnamomum burmanni</i>          | Kayu Manis              | 82.431                                  | 109.272 | 115.606 | 49.381  | 52.787  |
| 29 | <i>Cinnamomum</i> sp.               | Alinge                  | 9.209                                   | 10.029  | 10.543  | 105.809 | 110.659 |
| 30 | <i>Cinnamomum sulavesianum</i>      | Kayu Manis sulawesi     | 0                                       | 0       | 0       | 0       | 200     |
| 31 | <i>Citrus</i> sp.                   | Jeruk                   | 0                                       | 0       | 0       | 300     | 500     |
| 32 | <i>Clerodendrum paniculatum</i>     | Bunga Pagoda            | 0                                       | 500     | 1.000   | 1.750   | 2.000   |
| 33 | <i>Coelia</i> sp.                   | Anggrek Coelia          | 0                                       | 0       | 0       | 0       | 90      |
| 34 | <i>Colona sabra</i>                 | Bonu                    | 4.898                                   | 6.955   | 7.400   | 8.767   | 8.900   |
| 35 | <i>Cyathea contaminans</i>          | Pakis Hutan             | 0                                       | 0       | 27      | 63      | 76      |
| 36 | <i>Cyathea</i> sp.                  | Pakis Payung            | 0                                       | 0       | 8       | 18      | 21      |
| 37 | <i>Dendrobium</i> sp.               | Anggrek Dendrobium      | 0                                       | 0       | 0       | 0       | 90      |
| 38 | <i>Deplanchea bancana</i>           | Lokomomo                | 0                                       | 0       | 312     | 815     | 865     |
| 39 | <i>Dillenia celebica</i>            | Dengen Celebica         | 0                                       | 0       | 0       | 250     | 500     |
| 40 | <i>Dillenia serrata</i>             | Dengen Serrata          | 19.118                                  | 26.177  | 34.178  | 40.057  | 44.300  |
| 41 | <i>Diospyros celebica</i>           | Kayu Hitam              | 10.787                                  | 15.476  | 23.258  | 26.449  | 27.300  |
| 42 | <i>Durio zibethinus</i>             | Duren                   | 0                                       | 1.700   | 17.003  | 75.808  | 80.348  |
| 43 | <i>Elmerrillia tsiampacca</i>       | Kayu Uru                | 9.846                                   | 202.107 | 143.958 | 91.868  | 96.614  |
| 44 | <i>Eucalyptus urograndis</i>        | Ekaliptus               | 123.647                                 | 106.600 | 118.516 | 232.461 | 244.084 |
| 45 | <i>Ficus benamina</i>               | Beringin                | 2.065                                   | 4.936   | 5.342   | 6.458   | 6.567   |
| 46 | <i>Ficus racemosa</i>               | Ficus Rangkong          | 0                                       | 0       | 312     | 815     | 865     |
| 47 | <i>Ficus variegata</i>              | Kayu Popon              | 2.065                                   | 4.936   | 5.342   | 6.458   | 6.567   |
| 48 | <i>Garcinia celebica</i>            | Mandula                 | 0                                       | 0       | 20      | 47      | 57      |
| 49 | <i>Garcinia mangostana</i>          | Manggis                 | 0                                       | 3.464   | 3.842   | 36.855  | 37.158  |
| 50 | <i>Garcinia</i> sp.                 | Manggis Hutan           | 0                                       | 0       | 379     | 971     | 1.052   |
| 51 | <i>Gmelina arborea</i>              | Gmelina                 | 144.254                                 | 82.379  | 110.748 | 182.941 | 193.025 |
| 52 | <i>Hopea celebica</i>               | Mata Kucing             | 0                                       | 0       | 62      | 606     | 681     |
| 53 | <i>Ixora paludosa</i>               | Asoka                   | 0                                       | 0       | 0       | 300     | 500     |
| 54 | <i>Kjellbergiodendron celebicum</i> | Tembeuwa                | 2.732                                   | 3.232   | 5.162   | 6.587   | 7.512   |
| 55 | <i>Lansium domesticum</i>           | Dukuh                   | 0                                       | 0       | 88.887  | 48.121  | 50.527  |
| 56 | <i>Lansium</i> sp.                  | Langsat                 | 0                                       | 0       | 59.258  | 40.101  | 42.106  |

| No | Nama Ilmiah (Scientific Name)    | Nama Lokal (Local Name) | Jumlah Individu* (Number of Individual) |         |         |         |         |
|----|----------------------------------|-------------------------|-----------------------------------------|---------|---------|---------|---------|
|    |                                  |                         | 2021                                    | 2022    | 2023    | 2024    | 2025**  |
| 57 | <i>Litsea firma</i>              | Ponto                   | 0                                       | 0       | 16      | 37      | 44      |
| 58 | <i>Maesopsis eminii</i>          | Kayu Afrika             | 123.647                                 | 79.950  | 88.887  | 48.121  | 50.527  |
| 59 | <i>Magnolia</i> sp.              | Cempaka                 | 123.647                                 | 159.900 | 177.773 | 80.202  | 84.212  |
| 60 | <i>Mangifera indica</i>          | Mangga                  | 0                                       | 3.464   | 28.132  | 93.839  | 106.440 |
| 61 | <i>Manilkara celebica</i>        | Kumea                   | 0                                       | 0       | 393     | 1004    | 1.092   |
| 62 | <i>Melaleuca leucadendra</i>     | Kayu Putih              | 0                                       | 0       | 0       | 40.440  | 50.144  |
| 63 | <i>Mora</i> sp.                  | Natoh                   | 8.491                                   | 9.516   | 10.071  | 11.839  | 12.031  |
| 64 | <i>Mussaenda erythrophylla</i>   | Nusa Indah              | 0                                       | 0       | 0       | 300     | 500     |
| 65 | <i>Myristica fragrans</i>        | Pala                    | 0                                       | 0       | 0       | 36.015  | 45.208  |
| 66 | <i>Nephelium lappaceum</i>       | Rambutan                | 0                                       | 0       | 0       | 56.100  | 58.905  |
| 67 | <i>Palaquium obovatum</i>        | Nyato                   | 82.431                                  | 79.950  | 88.971  | 88.757  | 100.906 |
| 68 | <i>Palaquium</i> sp.             | Kayu Asa                | 9.209                                   | 10.029  | 10.549  | 12.323  | 12.501  |
| 69 | <i>Paraserianthes falcataria</i> | Sengon                  | 82.431                                  | 108.057 | 133.090 | 32.837  | 35.041  |
| 70 | <i>Parkia speciosa</i>           | Pete                    | 0                                       | 2.429   | 14.574  | 630     | 1.130   |
| 71 | <i>Persea americana</i>          | Alpukat                 | 0                                       | 215.143 | 162.718 | 205.166 | 222.432 |
| 72 | <i>Pinus merkusii</i>            | Pinus                   | 103.039                                 | 133.250 | 88.887  | 160.321 | 168.337 |
| 73 | <i>Podocarpus neriifolius</i>    | Sandruk                 | 9.209                                   | 10.029  | 10.531  | 12.281  | 12.304  |
| 74 | <i>Pometia pinnata</i>           | Matoa                   | 0                                       | 0       | 0       | 245     | 289     |
| 75 | <i>Rhizophora</i> sp.            | Bakau rizopora          | 0                                       | 0       | 0       | 114.200 | 121.810 |
| 76 | <i>Santalum album</i>            | Cendana                 | 0                                       | 0       | 0       | 60.660  | 74.408  |
| 77 | <i>Santiria laevigata</i>        | Tapi-Tapi               | 0                                       | 0       | 314     | 820     | 871     |
| 78 | <i>Sarcotheca celebica</i>       | Belimbing Bajo          | 0                                       | 0       | 45      | 105     | 326     |
| 79 | <i>Sarcotheca</i> sp.            | Sarcoteka               | 0                                       | 0       | 312     | 815     | 865     |
| 80 | <i>Shorea</i> sp.                | Damar                   | 0                                       | 0       | 59.258  | 40.101  | 42.106  |
| 81 | <i>Sloetia elongata</i>          | Polonangka              | 0                                       | 0       | 81      | 660     | 744     |
| 82 | <i>Spathoglottis</i> sp.         | Anggrek tanah           | 0                                       | 0       | 0       | 0       | 90      |
| 83 | <i>Stemonurus celebicus</i>      | Belulang                | 9.928                                   | 10.541  | 11.158  | 13.112  | 13.336  |
| 84 | <i>Sundacarpus</i> sp.           | Dama-dama               | 0                                       | 0       | 8       | 18      | 21      |
| 85 | <i>Swietenia macrophylla</i>     | Mahoni                  | 82.431                                  | 106.600 | 118.516 | 195.061 | 204.814 |
| 86 | <i>Syzygium oleana</i>           | Pucuk Merah Hutan       | 0                                       | 0       | 24      | 56      | 67      |
| 87 | <i>Syzygium polyanthum</i>       | Salam                   | 13.521                                  | 13.102  | 13.663  | 15.795  | 16.001  |
| 88 | <i>Syzygium</i> sp.              | Jambu-jambu             | 13.521                                  | 13.102  | 13.823  | 16.168  | 16.449  |
| 89 | <i>Tamarindus indica</i>         | Asam jawa               | 0                                       | 0       | 19.432  | 756     | 1.356   |
| 90 | <i>Tectona grandis</i>           | Jati                    | 164.862                                 | 159.900 | 88.887  | 179.021 | 187.972 |
| 91 | <i>Terminalia catappa</i>        | Ketapang                | 0                                       | 0       | 0       | 74.800  | 78.540  |
| 92 | <i>Toona sureni</i>              | Suren                   | 103.039                                 | 133.250 | 59.258  | 32.081  | 33.685  |

| No                                                                          | Nama Ilmiah (Scientific Name) | Nama Lokal (Local Name) | Jumlah Individu* (Number of Individual) |                  |                  |                  |                  |
|-----------------------------------------------------------------------------|-------------------------------|-------------------------|-----------------------------------------|------------------|------------------|------------------|------------------|
|                                                                             |                               |                         | 2021                                    | 2022             | 2023             | 2024             | 2025**           |
| 93                                                                          | <i>Tristania</i> sp.          | Tristania               | 82.431                                  | 106.600          | 44.443           | 24.061           | 25.264           |
| 94                                                                          | <i>Vitex coffasus</i>         | Bitti                   | 221.754                                 | 201.188          | 234.776          | 377.375          | 409.142          |
| 95                                                                          | <i>Vitex</i> sp.              | Bitti Hutan             | 0                                       | 3.464            | 3.842            | 4.774            | 4.866            |
| 96                                                                          | <i>Weinmannia celebicus</i>   | Buri                    | 4.898                                   | 6.955            | 7.400            | 8.767            | 8.900            |
| 97                                                                          | <i>Xanthostemon</i> sp.       | Kaloju                  | 4.898                                   | 6.955            | 7.507            | 9.016            | 9.198            |
| <b>Fauna</b>                                                                |                               |                         |                                         |                  |                  |                  |                  |
| 1                                                                           | <i>Acropora</i> sp            | Terumbu Acropora        | 0                                       | 0                | 0                | 1.000            | 1.625            |
| 2                                                                           | <i>Macaca ochreata</i>        | Monyet Digo             | 0                                       | 0                | 0                | 0                | 4                |
| 3                                                                           | <i>Rusa timorensis</i>        | Rusa Timor              | 24                                      | 27               | 29               | 32               | 35               |
| 4                                                                           | <i>Troides helena</i>         | Kupu-Kupu Helena        | 0                                       | 0                | 0                | 0                | 2                |
| Total Jenis Flora (Total of Species Flora)                                  |                               |                         | 38                                      | 47               | 74               | 93               | 97               |
| Total Jenis Fauna (Total of Species Fauna)                                  |                               |                         | 1                                       | 1                | 1                | 2                | 4                |
| <b>Total Jenis Flora dan Fauna (Total of Species Flora and Fauna)</b>       |                               |                         | <b>39</b>                               | <b>48</b>        | <b>75</b>        | <b>95</b>        | <b>101</b>       |
| Total Individu Flora (Total of Individual Flora)                            |                               |                         | 2.251.948                               | 2.925.319        | 3.472.646        | 4.332.300        | 4.631.803        |
| Total Individu Fauna (Total of Individual Fauna)                            |                               |                         | 24                                      | 27               | 29               | 1.032            | 1.666            |
| <b>Total Individu Flora dan Fauna (Total of Individual Flora and Fauna)</b> |                               |                         | <b>2.251.972</b>                        | <b>2.925.346</b> | <b>3.472.675</b> | <b>4.333.332</b> | <b>4.633.469</b> |

\* Data ini merupakan jumlah kumulatif hingga Juni 2025 terhitung sejak tahun 2021

\*\* Data sampai bulan Juni 2025

\*\*\* Spesies ini dijadikan objek pada program **Konservasi Spesies Flora Endemik dan Dilindungi di Taman Kehati Sawerigading Wallacea Dalam Upaya Percepatan Suksesi Alami Reklamasi dan Revegetasi Lahan Pasca Tambang dengan Menggunakan Metode Gali Akar (Rootballed) dan Pemanfaatan Tumbuhan Air Hydrilla verticillata sebagai Stimulan Laju Pertumbuhan pada Media Tanam Tanaman Langka dan Endemik Sulawesi**

\* This data represents the cumulative total up to June 2025, starting from the year 2021

\*\* Data as of June 2025

\*\*\* This species is included in the **Conservation Program for Endemic and Protected Flora Species at Sawerigading Wallacea Biodiversity Park, as part of efforts to accelerate natural succession in post-mining land reclamation and revegetation using the Rootballed Method and Utilization of Aquatic Plant Hydrilla verticillata as a Growth Rate Stimulator in the Planting Media of Rare and Endemic Plants of Sulawesi.**