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OF WILD FAUNA AND FLORA



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Compliance

THE UPDATED POPULATION STUDIES OF LONG-TAILED MACAQUE
(*MACACA FASCICULARIS* RAFFLES, 1821)

This document has been submitted by Indonesia in relation to agenda item 15.2* .

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The Updated Population Studies of Long-tailed macaque (*Macaca fascicularis* Raffles, 1821) in Indonesia

The long-tailed macaque (*Macaca fascicularis*) is widely distributed primate in Indonesia. We compiled research papers along with the unpublished reports of *Macaca fascicularis* survey in Indonesia ranging from 2019 to 2024. This information provide current population status of wild population of Long tail Macaque in Indonesia. The most common methods of survey used were concentration count and line transect sampling. The total estimated population are **48,952** individuals with **38148** are **native** and **10804** are categorized as **introduced** population. Overall, the largest number of macaques were found in South Sumatra with a total of 12,722 macaques, followed with Lampung (n=9,781); Jambi (n=8,342); West Nusa Tenggara (n=7,058); Banten (n=5,544); Central Java (n=1,959); South Sulawesi (n=1,682); West Java (n=782); East Nusa Tenggara (n=497); Special District of Yogyakarta (n=282); Aceh (n=157); Bali (n=87); and Papua (n=59). The introduced populations, distributed in Legundi and Umang-Umang Island, Lampung (n=3,414); Tinjil and Deli Island, Banten (n=5,487); Bonerate and Kalao Island, South Sulawesi (n=1,682); Taman Rekreasi Gua Monyet Tenau, East Nusa Tenggara (n=162); and Kotaraja, Papua (n=59).

Table 1. Estimated Population of *Macaca fascicularis* from Compiled Research Papers (2019-2024) in Indonesia

Province	Detailed Location	Estimated Population (individuals)	Origin	References
Aceh	Kawasan Hutan Wisata Kilometer 0 Sabang	15	native	Afifah et al 2021
Aceh	Nipah Pulo Aceh	16	native	Rahman et al 2020
Aceh	Seulawah Agam	126	native	Ramadhan et al 2019
Bali	Kawasan Pura Pulaki	87	native	Syah et al 2023
Banten	Pulau Deli	4,860	Introduced	Fitriana et al 2024
Banten	Pulo Manuk	57	native	Nugraheni et al 2021
Banten	Tinjil Island	627	Introduced	Perwitasari-Farajallah et al. 2023
Central Java	Banyubiru	74	native	Maharadatunkamsi et al 2023
Central Java	Batur Temple	105	native	Maharadatunkamsi et al 2023
Central Java	Botorono	47	native	Maharadatunkamsi et al 2023
Central Java	Desa Jambu	23	native	Maharadatunkamsi et al 2023
Central Java	Jatirejo	20	native	Maharadatunkamsi et al 2023
Central Java	Jumprit	74	native	Maharadatunkamsi et al 2023
Central Java	Kepatihan	60	native	Maharadatunkamsi et al 2023
Central Java	Kreo Cave	164	native	Maharadatunkamsi et al 2023
Central Java	Mount Tidar	1,133	native	Maharadatunkamsi et al 2023
Central Java	Sawangan	19	native	Maharadatunkamsi et al 2023
Central Java	Tiyaran	69	native	Maharadatunkamsi et al 2023

Central Java	Wonodoyo	43	native	Maharadatunkamsi et al 2023
Central Java	TWA Grojogan Sewu	128	native	Satyatama et al 2023
East Nusa Tenggara	Taman Rekreasi Gua Monyet Tenau	162	Introduced	Dhaja et al 2019
East Nusa Tenggara	Kelimutu National Park	335	native	Fauzi et al 2020
Jambi	Hutan Adat Desa Rantau Ikil	73	native	Ahmar et al 2024
Jambi	Orang Kayo Hitam Forest	35	native	Egeustin et al 2023
Jambi	Betara	186	native	Putri et al 2023
Jambi	Candi Muaro Jambi	1,884	native	Putri et al 2023
Jambi	Hutan Kota Muhammad Sabki 1	94	native	Putri et al 2023
Jambi	Hutan Kota Muhammad Sabki 2	292	native	Putri et al 2023
Jambi	Hutan Lindung Sungai Buluh	170	native	Putri et al 2023
Jambi	Indofood	125	native	Putri et al 2023
Jambi	Mendalo Darat	74	native	Putri et al 2023
Jambi	NES	112	native	Putri et al 2023
Jambi	PTPN VI Buntut	3,436	native	Putri et al 2023
Jambi	Sungai Berbak	740	native	Putri et al 2023
Jambi	Sungai Tembikar	687	native	Putri et al 2023
Jambi	Talang Bakung	76	native	Putri et al 2023
Jambi	UIN Sulthan Thaha Saifuddin Jambi	113	native	Putri et al 2023
Jambi	Universitas Jambi	151	native	Putri et al 2023
Jambi	Cagar Alam Durian Luncuk I	94	native	Rahamdiani et al 2024
Lampung	Pulau Legundi	3,413	Introduced	BKSDA Lampung 2024
Lampung	Pulau Tabuan	6,367	native	ITERA 2024
Lampung	Pulau Umang umang	1	Introduced	BKSDA Lampung 2024
Papua	Kotaraja	59	Introduced	IPCA 2023
South Sulawesi	Bonerate Island	1,064	Introduced	Nasri et al. 2023
South Sulawesi	Kalao island	618	Introduced	Nasri et al. 2023
South Sumatra	TWA Punt Kayu	274	native	Ayu et al 2020
South Sumatra	Calik River	1,194	native	Setiawan et al 2023
South Sumatra	Alang-alang lebar	42	native	Setiawan et al 2024
South Sumatra	Bagus Kuning	250	native	Setiawan et al 2024
South Sumatra	Bayung Lencir	158	native	Setiawan et al 2024
South Sumatra	Bayung Lencir	458	native	Setiawan et al 2024
South Sumatra	Bukit Siguntang	22	native	Setiawan et al 2024
South Sumatra	Gandus	126	native	Setiawan et al 2024
South Sumatra	Karang Anyar	46	native	Setiawan et al 2024
South Sumatra	Karang Sari	400	native	Setiawan et al 2024
South Sumatra	Lunjuk Jaya	25	native	Setiawan et al 2024
South Sumatra	Pulokerto	96	native	Setiawan et al 2024
South Sumatra	Sungai gasing	699	native	Setiawan et al 2024
South Sumatra	Sungai gasing	416	native	Setiawan et al 2024
South Sumatra	Sungai lilin	877	native	Setiawan et al 2024
South Sumatra	Sungai peninggalan	347	native	Setiawan et al 2024

South Sumatra	Sungsang	40	native	Setiawan et al 2024
South Sumatra	Tambang Rambang	260	native	Setiawan et al 2024
South Sumatra	Tanjung Api-Api	54	native	Setiawan et al 2024
South Sumatra	Bagus Kuning	250	native	UNSRI 2023
South Sumatra	Bayung Lencir	458	native	UNSRI 2023
South Sumatra	Bayung lencir - Muara medak	158	native	UNSRI 2023
South Sumatra	Bukit Siguntang	22	native	UNSRI 2023
South Sumatra	Desa Gajah Mati	1,061	native	UNSRI 2023
South Sumatra	Desa Karanganyar dan Karang sari	446	native	UNSRI 2023
South Sumatra	Desa Tambang Rambang	260	native	UNSRI 2023
South Sumatra	HBR Motik	42	native	UNSRI 2023
South Sumatra	Lunjuk jaya	25	native	UNSRI 2023
South Sumatra	Pulokerto	96	native	UNSRI 2023
South Sumatra	Raider	126	native	UNSRI 2023
South Sumatra	Sungai gasing Lago	699	native	UNSRI 2023
South Sumatra	Sungai gasing pangkalan benteng	416	native	UNSRI 2023
South Sumatra	Sungai lilin	877	native	UNSRI 2023
South Sumatra	Sungai peninggalan	347	native	UNSRI 2023
South Sumatra	Tanjung Api	94	native	UNSRI 2023
South Sumatra	TWA Punt Kayu	518	native	UNSRI 2023
South Sumatra	Universitas Sriwijaya	1,043	native	UNSRI 2023
Yogyakarta	Tlogo Muncar (TN Merapi)	282	native	Bernathirdin et al 2022
West Java	Gunung Kapur Cicadas	245	native	Dharma et al 2019
West Java	TN Gunung Ciremai	197	native	Fajrin et al 2022
West Java	Telaga Warna	64	native	Hartati et al 2023
West Java	Resort Pengelolaan Taman Tapos	47	native	Khairiah et al 2022
West Java	Ir. H. Djuanda Grand Forest Park	229	native	Vrazila et al 2022
West Nusa Tenggara	Pulau Lombok Timur	66	native	Hadi et al 2019
West Nusa Tenggara	Lombok Utara	222	native	Hadi, 2024
West Nusa Tenggara	Lombok Tengah	356	native	Hadi, 2024
West Nusa Tenggara	Sumbawa Barat	637	native	Hadi, 2024
West Nusa Tenggara	Lombok Barat	893	native	Hadi, 2024
West Nusa Tenggara	Dompu	1,061	native	Hadi, 2024
West Nusa Tenggara	Bima	1,086	native	Hadi, 2024
West Nusa Tenggara	Sumbawa	1,088	native	Hadi, 2024
West Nusa Tenggara	Lombok Timur	1,557	native	Hadi, 2024
West Nusa Tenggara	Hutan Sekaroh	92	native	Yamin et al 2022
Total		48,952		Introduced 10,804 Native: 38,148

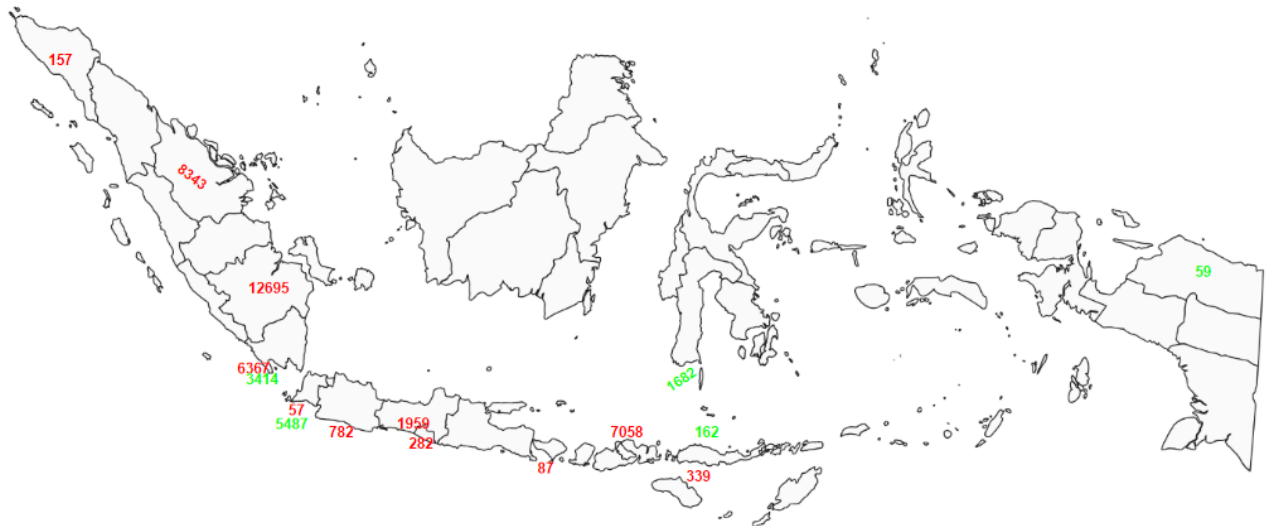


Figure 1. *Macaca fascicularis* Individual Map of Estimated Individuals from Compiled Research Papers (2019-2024) in Indonesia (Green: Introduced, Red: Native)

The total estimated population is an update of the information in the NDF for *Macaca fascicularis* submitted to the CITES Secretariat in 2023. In summary, the NDF is positive, and the details can be found [here](#). The NDF document also provides evidence that the harvesting of *Macaca fascicularis* broodstock from the wild for captive breeding is **legal, does not detrimentally the sustainability of the wild population, and is well-traceable.**

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