

Phenotypic morphometry of a Lesser adjutant stork (*Leptoptilos javanicus*)

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[DOI:10.5281/ScienceWorld.15737296](https://doi.org/10.5281/ScienceWorld.15737296)

Introduction:

The lesser adjutant (*Leptoptilos javanicus*) is large wading birds in Ciconiidae family. It has bare head and bare neck for maintaining the body temperature. They remain in wetland habitat, and eat fish, snail and frog etc where it is solitary. They are found in throughout the southeast Asia.



Fig. Photograph of Lesser adjutant Stork (*Leptoptilos Javanicus*)

Materials and Methods:

The lesser adjutant stork was brought to the Department of Surgery and Radiology, College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati, Assam for treatment. After treatment, the phenotypic morphometry was done through a measuring tape.

Result and Discussion:

In current investigation, it was found that the Head Length, Upper Beak length, Lower Beak Length, Neck Length, Neck Diameter, Wing Length, Wing Breath, Body Diameter, Length of Femur, Length of Tibo-Tarsal, Length First Digit, Diameter of Femur, Diameter of Tibo-tarsal, Length of 2nd digit, Length of 3rd digit, Length of 4th digit, Distance between two supraorbital processes and Total Length of adult Lesser adjutant stork were 40.02 ± 0.43 cm, 25.90 ± 0.37 cm, 8.35 ± 0.21 cm, 9.20 ± 0.26 cm, 8.92 ± 0.36 cm, 8.35 ± 0.39 cm, 41.47 ± 0.51 cm, 15.08 ± 0.37 cm, 17.62 ± 0.28 cm, 32.58 ± 0.24 cm, 27.32 ± 0.23 cm, 7.38 ± 0.31 cm, 5.08 ± 0.13 cm, 5.55 ± 0.29 cm, 8.08 ± 0.28 cm, 11.28 ± 0.40 cm, 9.22 ± 0.38 cm and 6.98 ± 0.22 cm, respectively (Table.1). The colour of the lesser adjutant stork was dark almost black colour. A length of 87-93 cm (34-37 inches), and a weight ranging from 4 to 5.71 kg (8.8 to 12.6 lbs). It stands approximately 110-120 cm (43-47 inches) tall (Source Google). It might be due to difference in agro-climatic condition.

Table 1: Average (MEAN \pm SE) biometry of Lesser adjutant stork

Parameters	MEAN \pm SE (cm)
Head Length	40.02 ± 0.43
Upper Beak length	25.90 ± 0.37
Lower Beak Length	8.35 ± 0.21
Neck Length	9.20 ± 0.26
Neck Diameter	8.92 ± 0.36
Wing Length	8.35 ± 0.39
Wing Breath	41.47 ± 0.51
Body Diameter	15.08 ± 0.37
Length of Femur	17.62 ± 0.28
Length of Tibo-Tarsal	32.58 ± 0.24



Length First Digit	27.32±0.23
Diameter of Femur	7.38±0.31
Diameter of Tibio-tarsal	5.08±0.13
Length of 2nd digit	5.55±0.29
Length of 3rd digit	8.08±0.28
Length of 4th digit	11.28±0.40
Distance between two supraorbital processes	9.22±0.38
Total Length	6.98±0.22

Reference: Source Google Wikipedia

