Family/Common name (Species) Habit Status

HERPETOFAUNA OF HINGOLGADH NATURE EDUCATION SANCTUARY. **GUJARAT**

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The Gujarat State is rich in habitat and biodiversity. A total 16,902.38 sq.km. of the state is declared under National Parks and Sanctuary. Nevertheless, non-of them have been studied well regarding herpetofaunal diversity, except Gir forests.

Hingolgadh Nature Education Sanctuary (HNES) is located between 70°18'-71°21' E and 22°7'-22°10' N, in Jasdan Tehsil of Rajkot district in Saurashtra peninsula, Gujarat, India (Rodger & Panwar, 1988). It falls under semi-arid bioclimatic zone. Average rainfall is 425 mm., which is erratic and for a short period. Temperature varies from average minimum of 10°C to average maximum 40°C. Currently, the Sanctuary is managed by the Gujarat Ecological Education Research (GEER) Foundation, Gandhinagar.

Only a limited information is available on the herpetofauna of HNES (Jasdan Raja, 1953; Rao & Choudhury, 1996; Das, 1997; Vyas, 1998). To inventory the herpetofauna of HNES, the entire Sanctuary (654.07 ha.) was surveyed for 20 days from August to November 1998. Methods included random survey in various habitats and contacting local people for information on reptiles and amphibians. All specimens were examined and identified using the keys given by Smith (1935; 1943) and Daniels (1997a; 1997b; 1997c). Nomenclature adopted here in are of Das (1994) and Dutta (1997) for reptiles and amphibians, respectively.

The status of each species assessed barring snakes is as follows: abundant (Number of sightings >100), common (75-51), less common (50-26), intermediate (25-6) and rare (<5). The herpetofauna of the HNES consist eight species of amphibians and 33 species of reptiles. Information on their habits and Status are given in Table 1. Among the 19 species of snakes, 15 were non-venomous. Python molurus earlier reported by Jasdan Raja (1953) from the area was not found during the present study.

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AMPHIBIANS Bufonidae 1 Common Asian Toad (Bufo melanosticutus) 2 Marbled Toad (Bufo stomaticus)	Terrestrial Terrestrial	Abundance Less common
Microhylidae 3 Ornate Narrow-mouthed Frog (Microhyla ornata)	Fossorial	Abundance
Ranidae 4 Indian Skipping Frog (Euphlyctis cyanophlyctis)	Aquatic	Abundance
5 Indian Green Frog (Euphlyctis hexadactylus)	Aquatic	Common
6. Indian Bull Frog (Hoplobatrachus tigerinus)	Aquatic	Less common
7 Cricket Frog	Semiaquatic	Less common
(Limnonectes limnocharis) 8 Short-headed Burrowing Frog (Tompopterna breviceps)	Fossorial	Common
REPTILES Testudinidae 1 Indian Star Tortoise (Geochelone elegans)	Terrestrial	Not assessed
<u>Trionychidae</u> 2 Indian Flapshell Turtle (<i>Lissemys punctata</i>)	Aquatic	Common
Eublepharidae 3 Fat-tailed Gecko (Eublepharis fuscus)	Terrestrial	Not assessed
Gekkonidae 4 Brook's House Gecko (Hemidactylus brookii)	Terrestrial	Abundance
5 Yellow-green House Gecko	Terrestrial	Common
(Hemidactylus flaviviridis) 6 Indian Termite Gecko (Hemidactylus triedrus)	Terrestrial	Abundance
Agamidae 7 Indian Garden Lizard (Calotes versicolor)	Arboreal	Abundance
8 Fan-throated Lizard	Terrestrial	Abundance

Terrestrial

Terrestrial

Terrestrial

Terrestrial

Terrestrial

Common

Common

Common

Common

Common

(Sitana ponticeriana)

9 Spotted Supple Skink

10 Keeled Grass Skink

11 Bronze Grass Skink

12 Jordon's Snake Eye Lacerta

(Lygosoma punctatus)

(Mabuya carinata)

(Mabuya macularia)

(Ophisops jerdonii)

13 Small-scaled Lacerta

(Ophisops microlepis)

Scincidae

<u>Lacertidae</u>

Family/Common name (Species)	Habits	Status
<u>Varanidae</u> 14 Bengal Monitor Lizard (<i>Varanus bengalensis</i>)	Terrestrial	Common
<u>Typhlopidae</u> 15 Brahminy Worm Snake (<i>Ramphotyphlops braminus</i>)	Not assessed	Not assessed
Boidae 16 Common Sand Boa (<i>Eryx conicus</i>)	Not assessed	Not assessed
17 Red Sand Boa (Eryx johnii)	Not assessed	Not assessed
<u>Colubridae</u> 18 Buff-striped Keelback (<i>Amphiesma stolata</i>)	Not assessed	Not assessed
19 Banded Racer (Argyrogena fasciolata)	Not assessed	Not assessed
20 Common Cat Snake	Not assessed	Not assessed
(<i>Boiga trigonata</i>) 21 Common Bronze-back Tree Snal (<i>Dendrelaphis tristis</i>)	ce Not assessed	Not assessed
22 Indian Trinket Snake (Elaphe helena)	Not assessed	Not assessed
23 Common Wolf Snake (Lycodon aulicus)	Not assessed	Not assessed
24 Barred Wolf Snake (Lycodon striatus)	Not assessed	Not assessed
25 Banded Kukri Snake (Oligodon arnensis)	Not assessed	Not assessed
26 Streaked Kukari Snake (Oligodon taeniolatus)	Not assessed	Not assessed
27 Pakistani Ribbon Snake (<i>Psammophis leithii</i>)	Not assessed	Not assessed
28 Rat Snake	Not assessed	Not assessed
(Ptyas mucosus) 29 Checkered Keelback Water Snal (Xenochrophis piscator)	ke Not assessed	Not assessed
Elapidae 30 Common Indian Krait (Bungarus caeruleus)	Not assessed	Not assessed
31 Slender Coral Snake (Calliophis melanurus)	Not assessed	Not assessed
32 Indian Spectacled Cobra (Naja naja)	Not assessed	Not assessed
Viperidae 33 Saw-scaled Viper (Echis carinatus)	Not assessed	Not assessed

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