

ARIZONA GAME AND FISH DEPARTMENT  
HERITAGE DATA MANAGEMENT SYSTEM

Animal Abstract

Element Code: ARADB17012

Data Sensitivity: No

**CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE**

**NAME:** *Heterodon nasicus kennerlyi*

**COMMON NAME:** Mexican Hog-nosed Snake

**SYNONYMS:**

**FAMILY:** Serpentes:Colubridae

**AUTHOR/PLACE OF PUBLICATION:** Kennicot (1860)

**TYPE LOCALITY:**

**TYPE SPECIMEN:**

**TAXONOMIC UNIQUENESS:** Three species in genus; 3 subspecies in *H. nasicus* but only *kennerlyi* occurs in Arizona.

**DESCRIPTION:** A heavy-bodied blotched snake with an upturned snout. Total length 16-25 inches (41-64 cm); females much larger than males. Dorsal ground color tan, brown or gray with distinct series of dark brown, cinnamon or chocolate blotches down back, with similarly colored spots on the sides. Ventrally heavily marked with blackish marbling. Two to six small, irregular azygous scales separate the prefrontals from the frontal and internasals from the rostral. The rostral is sharply upturned and concave dorsally. The pre-, post-, and subocular scales form an ocular ring and range in number from 9-13. The anterior temporals number 2-5 and posterior temporals 3-7. Infralabials number 9-13, usually 10-11. The two large anterior chin shields are broadly in contact, whereas the posterior chin shields are reduced in size or are absent. The anal plate (cloacal scute) and subcaudals range from 35-50 in males and 26-41 in females. The dorsal body scales are keeled, with 21-26 rows anteriorly, 19-26 rows at midbody, and 16-23 rows anterior to the cloaca. The maxilla is short and deep, with the mesial process curving posteriorly toward the posterior process. About ten teeth occur on the maxilla, four in the palatine, nine of the pterygoid and fourteen on the dentary.

**AIDS TO IDENTIFICATION:**

**ILLUSTRATIONS:** Black and white drawing (Stebbins 1966: plate 34)

Color photo (Behler and King 1979: plate 572)

Color photos ([www.hognose.com](http://www.hognose.com))

Color photos ([www.arts.arizona.edu](http://www.arts.arizona.edu))

Color photos ([www.reptilesfaz.com](http://www.reptilesfaz.com))

**TOTAL RANGE:** The full species is found from Southern Canada south to northern Mexico, southeast Arizona to central Illinois (*H. n. kennerlyi* along U.S. border from southeast Arizona to south Texas and southeasterly into Zacatecas, San Luis Potosi, and Aguascalientes, Mexico, generally east of Sierra Madre Occidental).

**RANGE WITHIN ARIZONA:** Although found in Graham, Pima and Santa Cruz counties, it is primarily found in Cochise County.

### **SPECIES BIOLOGY AND POPULATION TRENDS**

**BIOLOGY:** Mostly nocturnal, spending a significant period of time underground. Uses its spade like snout to dig for its prey. Considered mildly venomous, but not dangerous. When disturbed, they flatten their head and neck and emit a loud hissing noise.

**REPRODUCTION:** Lays 4-10 (or more) eggs.

**FOOD HABITS:** Mainly toads, some frogs, salamanders and lizards.

**HABITAT:** In Arizona, occupies grassland, desert grassland or open areas of shrubby thornscrub deserts in southeast corner of state; mainly open, flat or rolling plains. Occasionally found in mountain canyon bottoms or floodplains of streams with canopies of broadleaf riparian trees (sycamore, walnut, cottonwood, willow, etc.) in evergreen woodlands to 5,100 feet.

**ELEVATION:** 3,610 – 5,400 ft (1100-1646 m), although more commonly found between 4,000-5,000 ft (1219-1524 m).

**PLANT COMMUNITY:** Unknown

**POPULATION TRENDS:** Presumed stable.

### **SPECIES PROTECTION AND CONSERVATION**

<b>ENDANGERED SPECIES ACT STATUS:</b>	None
<b>STATE STATUS:</b>	None
<b>OTHER STATUS:</b>	Full Species Determined Subject to Special Protection (Secretaria de Medio Ambiente 2000)

**MANAGEMENT FACTORS:** Habitat destruction, and overcollection for export and domestic sale are issues.

**PROTECTIVE MEASURES TAKEN:**

**SUGGESTED PROJECTS:** Distribution, habitat, population and life history studies.

**LAND MANAGEMENT/OWNERSHIP:** BLM – Tucson Field Office; USFS – Coronado National Forest; State Land Department; Private.

## **SOURCES OF FURTHER INFORMATION**

### **REFERENCES:**

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### **ADDITIONAL INFORMATION:**

**Revised:** 1991-03-27 ( )  
2002-11-05 (RHB)

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Arizona Game and Fish Department. 20XX (= **year of last revision as indicated at end of abstract**). X...X (= **taxon of animal or plant**). Unpublished abstract compiled and edited by the Heritage Data Management System, Arizona Game and Fish Department, Phoenix, AZ. X pp.