

15. *Bufo valliceps*.

Bufo valliceps, Wieg. Isis, 1833, p. 657; Peters, MB. Ak. Wiss. Berlin, 1863, p. 81; Bouleng. Batr. Sal. p. 319; Sumichrast, Bull. Soc. Zool. Fr. 1880, p. 188; Cope, Bull. U. S. Nat. Mus. no. 32, p. 11 (1887); Brocchi, Miss. Sc. Mex., Batr. p. 79.

Bufo cristatus, Wieg. Isis, 1833, p. 663; Peters, l. c.

Bufo granulosus, Baird & Girard, Proc. Ac. N. Sc. Philad. 1852, p. 173 (nec Spix).

Bufo nebulifer, Girard, Proc. Ac. N. Sc. Philad. 1854, p. 87; U. S. & Mex. Bound. Surv. ii. p. 25, t. 40. figg. 1-4; Salvin, P. Z. S. 1860, p. 460.

Hab. NORTH AMERICA, Texas.—MEXICO, Presidio de Mazatlan (*Forrer*), Tampico (*Richardson*), Tamaulipas and Puebla (*Cope*), Jalisco (*F. D. G.*), Jalapa (*Höge*), Orizaba, Vera Cruz, Tehuantepec (*Sumichrast*), Atoyac and Teapa (*H. H. Smith*); GUATEMALA, Dueñas and Vera Paz (*Salvin*); NICARAGUA (*Cope*); COSTA RICA.

Crown of the head with high projecting crests, the supraciliary ridge forked behind, the parietal branch being very distinct; the highest part of the crests the hindmost part of the supraciliary ridge. Interorbital space deeply concave, broader than the supraocular cover. Snout obtuse. Tympanum distinct, about half the area of the eye. Parotoid triangular, rather small. Upper parts covered with rough tubercles; a series of larger pointed ones from the parotoid along the side of the body. Lower parts granular. Central-American specimens have the back less tubercular than those from Texas, sometimes partly smooth. First finger longer than the second. Toes one-third webbed; two metatarsal tubercles; no tarsal fold. Brownish or yellowish, marbled with darker, sometimes a yellow vertebral band; generally a black interocular cross-bar and a black band on or from the tympanic region; sometimes a few scattered deep black spots on the back. Central-American examples have the lower parts more or less variegated with black.

	Ad. ♀.	Ad. ♀.
Distance of vent from snout	118 millim.	95 millim.
„ „ metatarsal joint	90 „	90 „
„ „ end of fourth toe	125 „	111 „

The rough-skinned Northern form passes gradually into the smoother, black-bellied, Central-American race. I should have been inclined to regard the latter as the *Bufo melanochlorus* of Cope, but this author describes that species as having the toes nearly free, which does not apply to any of the specimens examined by me. Also the measurements of the hind leg appear to differ considerably.

16. *Bufo melanochlorus*.

Bufo valliceps, var., Cope, Journ. Ac. N. Sc. Philad. viii. p. 100 (1875).

Bufo melanochlorus, Cope, Proc. Am. Phil. Soc. 1877, p. 85.

Hab. EASTERN COSTA RICA (*Gabb*).