

L. Patzcuaro (*Mexico Mus.*, Meek). These evidently correspond to Steindachner's *A. lacustris* and *A. tarasorum*. Meek gives 85 to 100 scales in a longitudinal series for *A. lacustris*, but my lower counts agree with those of Steindachner. I have examined the type of *A. dugesi* in the U.S. National Museum at Washington. I count 84 scales in a longitudinal series, 18 between dorsal fin and lateral line, 14 from lateral line to root of ventral fin.

A. rubescens is said to differ from *A. dugesi* in the more numerous gill-rakers, 22 or 23 on the first arch; in the specimens described above I count 19 to 22 (4-5+15-17).

9. PTYCHOCHEILUS, Agass., 1855.

Ptychocheilus, Jord. & Everm. Bull. U.S. Nat. Mus. xlvii. 1896, p. 224.

This genus differs from *Leuciscus* in the large subterminal horizontal mouth extending to below the eye and in the subconical pharyngeal teeth set wide apart on the long, slender, lower pharyngeal bones. It comprises three species, large fishes from the Pacific Coast streams of the United States and Northern Mexico.

1. *Ptychocheilus lucius*, Girard, 1856.

Ptychocheilus lucius, Jord. & Everm. Bull. U.S. Nat. Mus. xlvii. 1896, p. 224; Meek, Publ. Columbian Mus., Zool. v. 1904, p. 52.

Hab. Colorado River and Northern Sonora.

This species is said to reach a length of five feet and a weight of eighty pounds.

10. LEUCISCUS, Cuv., 1817.

Gila (Baird & Girard) and *Leuciscus*, Jord. & Everm. Bull. U.S. Nat. Mus. xlvii. 1896, pp. 226 and 228.

Body ovate or elongate, more or less compressed. Mouth protractile, terminal or subterminal, small or moderate, usually more or less oblique; no barbels. Pharyngeal teeth compressed, hooked, in two series, 1-2, 4-6—6-4, 1-2. Dorsal fin short; anal short or of moderate length.

A large number of species from Europe, Asia, and North America.

Synopsis of the Mexican Species.

85 to 90 scales in a longitudinal series	1. <i>elegans</i> .
60 to 75 scales in a longitudinal series	2. <i>nigrescens</i> .

1. *Leuciscus elegans*.

Gila elegans, Baird & Girard, Proc. Ac. Philad. 1853, p. 369¹; Jord. & Everm. Bull. U.S. Nat. Mus. xlvii. 1896, p. 226²; Meek, Publ. Columbian Mus., Zool. v. 1904, p. 53³.

? *Gila minacæ*, Meek, t. c. p. 54, fig. 11⁴.

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