Of 58 43 or 74.1 per cent. have gr. diam. 24 mm., and over. Of 26 stearnsiana 12 or 46.1 per cent. have gr. diam. 23 to 24 mm. Of 26 21 or 80.7 per cent. have gr. diam. 24 mm. and under.

Of 58 kellettii 56 or 96.5 per cent. have whorls 5 to 5+. Of 26 stearnsiana 19 or 73.1 per cent. whorls $5\frac{1}{2}$ to $5\frac{3}{4}$.

A series of 31 kellettii, selected by Hemphill to show variation in size, shape and color, but not included in above lot, are from 20 to 31 mm. gr. diam., whorls $4\frac{1}{2}$ to $5\frac{1}{3}$; 23 or 74.2 per cent.; $\frac{600}{24}$ 24 mm. and over and 18 or 58.6 per cent. have 5 to 5 + whorls.

Summing up: E. kellettii is the species found on Santa Catalina Island, having a large embryonic shell with smooth whorls, surface of all the later whorls faintly granulated; generally over 24 mm., greatest diam.; whorls 5. (On the mainland at Pt. Vincent, Los Angeles Co., Hemphill found dead shells which agree exactly with those from Santa Catalina, but could find none alive). E. stearnsiana is confined to the mainland and the islands of Lower California. Embryonic shell smaller, sculptured with wary lines giving it a granulated appearance, remaining whorls smooth except for lines of growth and sometimes faint revolving lines; greater diam. generally under 24 mm., whorls $5\frac{1}{2}$ to $5\frac{3}{4}$.

There is a wide variation in size, color and shape in both species and a number of the forms of kellettii have been named by Hemphill. Measurements below show largest, smallest, most elevated and most depressed of 89 kellettii and 26 stearnsiana in my collection.

E. kellettii, largest, $31 \times 26 \times 23$ mm. whorls $5\frac{1}{4}$.

- smallest, $20\frac{1}{2} \times 17\frac{1}{2} \times 16\frac{1}{2}$ mm. whorls —5.
- 66 elevated, $26 \times 23\frac{1}{2} \times 25$ mm. whorls $5\frac{1}{3}$.
- depressed, 26 x 21 x 18 mm. whorls 5.
- E. stearnsiana, largest, $25\frac{1}{9} \times 22 \times 21\frac{1}{9}$ mm. whorls 6.
 - smallest, $20 \times 17 \times 15\frac{1}{5}$ mm. whorls 5 +.
 - 66 elevated, $21 \times 20\frac{1}{2} \times 20\frac{1}{2}$ mm. whorls $5\frac{1}{2}$.

 - 64 depressed, $23 \times 19\frac{1}{2} \times 16$ mm. whorls $5\frac{1}{6}$.

MOLLUSKS OF OKLAHOMA.

BY JAS. H. FERRISS.

Few if any shells have been recorded from Oklahoma territory. No state or territory in the Union has figured so little in conchological liter obtaining Polygyra Polygyra Helicodis Zonitoide Zonitoide Zonitoide Euconuli Strobilop Pupoides Bifidaria Bifidaria Lymnæa Planorbi

Formas

Pis. n inflated; slightly slopes 1 rounded inferior large, r the hin shining, dinal t thicker posterio in the r Long

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1895 a

43 or 74.1 per cent. have gr. diam. 24 mm., and over. na 12 or 46.1 per cent. have gr. diam. 23 to 24 mm. 21 or 80.7 per cent. have gr. diam. 24 mm. and

56 or 96.5 per cent. have whorls 5 to 5+. ina 19 or 73.1 per cent. whorls $5\frac{1}{2}$ to $5\frac{3}{4}$. kellettii, selected by Hemphill to show variation in olor, but not included in above lot, are from $20\frac{1}{2}$ to ., whorls $4\frac{1}{2}$ to $5\frac{1}{3}$; 23 or 74.2 per cent.; $\frac{676}{986}$ 24 mm. or 58.6 per cent. have 5 to 5 + whorls.

E. kellettii is the species found on Santa Catalina large embryonic shell with smooth whorls, surface of horls faintly granulated; generally over 24 mm., whorls 5. (On the mainland at Pt. Vincent, Los emphill found dead shells which agree exactly with . Catalina, but could find none alive). E. stearnsiana e mainland and the islands of Lower California. ll smaller, sculptured with wary lines giving it a earance, remaining whorls smooth except for lines of etimes faint revolving lines; greater diam. generally whorls $5\frac{1}{2}$ to $5\frac{3}{4}$.

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 a_1 , largest, $25\frac{1}{2} \times 22 \times 21\frac{1}{2}$ mm. whorls 6. smallest, $20 \times 17 \times 15\frac{1}{2}$ mm. whorls 5 +. elevated, $21 \times 20\frac{1}{2} \times 20\frac{1}{2}$ mm. whorls $5\frac{1}{2}$. depressed, $23 \times 19\frac{1}{2} \times 16$ mm. whorls $5\frac{1}{2}$.

MOLLUSKS OF OKLAHOMA.

BY JAS. H. FERRISS.

shells have been recorded from Oklahoma territory. ritory in the Union has figured so little in conchological literature. In 1897 I collected a few hours in Oklahoma City,

obtaining the following species: Polygyra texasiana (Morie). Polygyra monodon (Rack.). Helicodiscus lineatus (Say). Zonitoides minuscula (Binn.).

Zonitoides arborea (Say). Zonitoides nitida (Müll.). Euconulus fulvus (Müll.).

Strobilops affinis (Pils.). Pupoides marginatus (Say).

Bifidaria armigera (Say). Bisidaria contracta (Say).

Planorbis trivolvis (Say).

Planorbis bicarinatus (Say). Planorbis parvus (Say). Physa sp. Lampsilis anodontoides (Lea). Lampsilis purpuratus (Lam.). Lampsilis gracilis (Bar.). Lampsilis parvus (Lea). Quadrula lachrymosa (Lea). Quadrula pustulosus (Lea). Tritogonia tuberculata (Bar.). Symphynota compianata (Bar.).

Lymnæa probably techella (Hald.). Sphærium sp. Pisidium sp.

NEW SPECIES OF PISIDIUM.

BY V. STERKI.

Pis. minusculum, n. sp. Mussel minute, slightly oblique, medium inflated; superior margin short, moderately curved, bounded by slightly projecting, rounded angles; supero-anterior and posterior slopes little curved or straight, posterior end rounded, anterior a rounded angle situated much below the median longitudinal line, inferior margin rather well curved; beakes slightly posterior, rather large, rounded or somewhat flattened, moderately projecting over the hinge margin; surface with very fine, slight striæ, somewhat shining, color pale horn, shell translucent; hinge rather stout, cardinal teeth: the right strongly curved, its posterior part much thicker and grooved, left anterior rather short, well curved, the posterior longer, oblique, curved; "laterals" strong, the outer ones in the right valve well formed; ligament, short, thick.

Long. 2.2, alt. 1.8, diam. 1.5 mill.

Habitat: Fox river, Wisconsin, collected by the late Geo. H. Marston; types in the collection of the University of Wisconsin and that of the Carnegie Museum.

A number of specimens of this little Pisidium was received in 1895 and then recognized as a new species, and again in 1904, when