

ships in Ohio, in either one of which the San José scale has done injuries that would amount to the larger of these sums, if not even more, and the Province of Ontario is probably spending fully as much in trying to exterminate the scale in some of the localities where it has already obtained a foothold.

TWO NEW SPECIES OF KERMES FROM KANSAS.

BY E. E. BOGUE, STILLWATER, OKLAHOMA.

Kermes pubescens, Bogue, n. sp.

♀ scale spheroidal, $3\frac{1}{2}$ mm. in diameter, 3 high; pointed and grooved beneath; covered all over with short straggling whitish pubescence. Colour rather light brown, with more or less obscure and suffused dark brown bands marking the obsolete segments. Surface shining, with minute concolorous specks, but no dark spots or pits.

Hab.—On twigs and leaves of oak (*Quercus macrocarpa* and *Q. prinoides*), at Manhattan, Kansas. Collected by Mr. J. B. Norton. Mr. Norton reports that this does considerable damage to *Quercus macrocarpa*. It occurs very thickly on the young twigs and leaves.

“Allied to such species as *K. galliformis*, but very distinct by its pubescence, dark colour with suffused markings, and comparatively small size.” (Ckll. in litt.)

The following species, also found by Mr. Norton, has been described by Mr. Cockerell, who sent his MS. to be included in this article.

Kermes concinnulus, Ckll., n. sp.

“♀ scale 4 mm. long, $4\frac{1}{2}$ broad, $3\frac{1}{2}$ high; very convex, rounded in front, more or less flattened behind; flattened beneath, except a median anterior keel-like prominence. Colour lively ochreous. Surface shining, not speckled with black; segmentation very distinct, the sutures marked by bands and spots of dark brown and black, on the hind part by numerous pits. A median longitudinal groove, where the segmentation is obsolete, also partly marked out in black. Sutures not deep, nor are the segments strongly gibbous on each side of the median groove.

“Skin with many small round glands. Antennæ and legs very minute, short and stout.

“Antennæ bristly at tip, joints obscure.” (Cockerell MS.)

Hab.—On oak (*Quercus macrocarpa*), at Manhattan, Kansas. Collected by J. B. Norton. Allied to *K. Cockerelli*, Ehrhorn, ined.