Tessellated scale, *Eucalymnatus tessellatus* (Signoret)
(Homoptera; Coccidae)

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**SYNONYMY:** *Lecanium tessellatum* Signoret, 1873; *Eucalymnatus tessellatus*, Cockerell & Parrott, 1901; *Eucalymnatus*, Lindinger, 1943

**INTRODUCTION:** Tessellated or palm scale is a soft scale that was first described in France by V. Signoret in 1873 from specimens collected on a palm he reported as *Caryota urusus*. The genus *Eucalymnatus*, according to Borchsenius, contains 17 species; 2 species are Ethiopian in origin and the remainder neotropical. Borchsenius considers *E. tessellatus* (Sign.) probably South American in origin and disseminated by man to all parts of the world on its cultivated hosts.

**DESCRIPTION:** The adult female (♀) is oval, opaque, reddish brown to dark brown, and 4–5 mm in length. The apex is angulate and the posterior broadly rounded (Fig. 1). The dorsal surface appears checkered or cellular in pattern when examined with the aid of a 10-power hand lens or magnifying glass. A median, longitudinal, smooth ridge divides the cellular pattern on the dorsal surface. The cells formed nearer the ridge appear concave, progressively becoming flattened outwardly to the larger, flat, marginal cells (Fig. 2).

**Fig. 1.** Tessellated scale, *Eucalymnatus tessellatus* (Signoret). Adult females (♀) on ribbon bush (*Homa-locladium platycladium* Bailey) (slightly enlarged).

**Fig. 2.** Female tessellated scale (× 8).

**DISTRIBUTION:** In Florida, Division of Plant Industry collections include specimens from the following counties: Alachua, Baker, Brevard, Broward, Charlotte, Clay, Collier, Dade, Dixie, Duval, Escambia, Flagler, Glades, Gulf, Hendry, Hernando, Highlands, Hillsborough, Indian River, Jefferson, Lake, Lee, Leon, Manatee, Marion, Martin, Monroe, Nassau, Orange, Palm Beach, Pasco, Pinellas, Polk, Putnam, St. Johns, St. Lucie, Sarasota, Seminole, and Volusia.

**ECONOMIC IMPORTANCE:** Tessellated scale is primarily a leaf-inesting soft scale and a greenhouse pest. In south Florida it is frequently found out-of-doors on palms, grape-jasmine, and mango. Infestations are often of economic importance in commercial nurseries whenever pest management programs are neglected.

**CONTROL:** Diazinon, dimethoate, malathion, and Meta-Systox-R are some of the available insecticides for scale insect control in Florida. The county agricultural extension agent should be informed of the host involved and consulted as to the best material and dosage. Read carefully and follow limitations and precautions given on manufacturers' labels.

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HOSTS: ACHRAS ZAPOTA L. (SAPODILLA), AJUGA REPTANS L. (BUGLE WEED), ALLAMANDA NERIFOLIA HOOK., ALOCASIA SP., ALPINIA SPECIOSA (WENDL.) SCHUM. (SHELL GINGER), ANNONA MURICATA L. (SOURP), A. RETICULATA L. (COMMON CUSTARD-APPLE, BULLOCKS-HEART), ANTHURIUM ANDRAEANUM LIND., A. MAGNIFICUM LIND., ARCONTIPHEOX ALEXANDRINA底气. & DRUDE (ALEXANDER PALM), ARDISIA ESCALLONIOIDES SCHIEDE & DREPPE (MARBLE), A. PICKERINGIA TORR. & GRAY, ARECA CATECHU L. (BETELNUT PALM), ARECASCAROMANZOFFIANUM BECC. (QUEEN'S PALM), ASPARAGUS NIDUS L. (BIRD'S NEST FERN), BACCHARIS ANGIUSTIFOLIA MICHX. (GROUNDSEL), BISCHOPIA JAYLANICA TOOK, BISHOPS BUSH, (LADY-OF-THE-NIGHT), CACTUS CALLODerm. (BOTTLEBRUSH), CALOCARPUM SAPOTA MERR. (SAPOTA), CALOPHYLLUM SP. (BEAUTY-LEAF), CARISSA SP., CARPOTA M. L. LOUR. (FISH-TAIL PALM), C. URENS L. (WINE-PALM), CESTRUM SP. (Jessamine), CHAMAEOREA ELEGANS MART. (NEANTHE BELLA PALM), DWARF PALM, PARLOR PALM), C. TENELLA H. WENDL., CHRYSALIDOCARPUS LUTESCENS WENDL. (ARECA PALM), CHRYSOPHYLLUM CAINITO L. (STAR-APPLE), CHRYSOPHYLLUM SP. (SATINLEAF), CINNAMOMUM CASSIA EBERM. (CASSIA BARK), CINNAMONUM SP. (CINNAMON), CLEISTHERIA JAPONICA THUNB. (SAGAKI), COCCO NUCIFERA L. (COCONUT PALM), CORNUS SP. (DOGWOOD), DICTYOSPERMA ALBUM WENDL. & DRUDE, DIEFFENBACHIA SP., DISOPSORS EBEKART RITZ., DIPOHILLIS SALICIFOLIA (L.) A. DC. (WILLOW BUSTIC), DIZYGOTheca ELEGANTISSIMA (VEITICH), VIG. & GUILL. (ARALIA), DRACAENA SP., EADOCRUS CYANUS SIMS, ERVATAMIA CORONARIA STAPF. (CRANE-JASMINE), EUGENIA HOOKERIANA HORT. (AUSTRALIAN BRUSH CHERRY), EUPHORIA LONGANA LAM. (LONGAN, LUNGAN), ERYTA SP., FATSHEKERA LIZEE (COCHOT) GUILL., FATSIA SP., FEIJOA SELLOHIANA BERT., FICUS JACQUINIAEFOlia A. RICH (JACQUINIA FIG.), F. BLYCIGNOSA VENT. (RUSTY FIG), GARDENIA JASMNOIDES ELLIS (CAPE JASMINE), GINIPA CLUSIAEFOlia (JACQ.) GRISEB. (SEVEN-YEAR APPLE), GILBERTA JAMESONII BOLUS (AFRICAN DAISY), GORDONIA LASIANTHUS (LL.) ELLIS (LOBOLLY BAY), HERDERA SP. (ENGLISH IVY, IVY), HEDYCHIUM SP. (GINGERLILY), HOLMOCALCAMO PLATyclados BAILEY (RIBBON PLANT, RIBBON BUSH, TAPEWORM PLANT), ILEX CASSINE L. (FLORIDA HOLLY, DAHOON HOLLY, YAUPON HOLLY), I. CORUTA LINDL. (CHINESE HOLLY), I. CORUTA LINDD. (BURFORDI), BURFORDI), I. GLABRA (LL.) A. GRAY (GALLBERRY), I. LATIFOLIA THUNB. (LUSTERLEAF HOLLY), IXORA PARVIFLORA VAHL. (GIANT IXORA), IXORA SP. (WHITE IXORA), JASMINUM SP. (JASMINE), KENTIA BELMOREANA F. MUELL., KIGELIA Pinnata DC. (SAUSAGE TREE), LAURUS NOBILIS L. (SWEET BAY TREE), LITCHI CHINENSIS SONNER (LYCHEE), LUCUMA NEROSSA A. DC. (CANISTEL, EGGFRUIT), MACROZAMIA PERROTBKYANA Miq. (A CYCAD), MAGNOLIA VIRGINIANA L. (WHITE BAY), MANGIFERA INDICA L. (MANGO), MASCARA SP., HELAELEUC HEUGENDRON L. (PUNK TREE, CAJEPUS), RHUSIN GELIAEMARGINATA L. (WILD SAPODILLA), M. ROXBURGHIANA WIGHT (BULLEWOOD), MUEhlenbeCKIA SP. (INCH PLANT, MAIDENHAIR VINE, WIRE PLANT), MUSA SP. (BANANA), MYSURUS SP. (NERIUM SP.) (LE ATHERI PALM), OCHROSIA SP. (KOPSIA), OCOETE CATAPHYNA (MICHZ.) SARG., PELTANDRA VIRGINICA KUNTH (GREEN ARROW-AURUM), PERSIA AMERICANA MILL. (AVOCADO), PHLOIDENDRON SP., PHOENIX ROBUELENI O'BRIEN (PIGMY DATE PALM), PHORADENDRON FLAVESCENS NUTT. (MISTLETOE), PILEA SP. (ALUMINUM PLANT), PITYSPHERMA ELEGANS (R. BR.) BLUME (SOLITAIRE PALM), RAPANEA GUAYANENSIS AUBL., RHAPIS EXCELSA (THUNB.) HENRY (LADY PALM), RHAPIDOPHORA DECURSIVA SCOTT, RHODODRYS TUS SP. (DOWNY MYRTLE), SCHINUS TEREBINTHIFOLIUS RADDI (BRAZILIAN PEPPER TREE), SCINDAPSUS SP. (POTOHS), STIGMOPHYLLON SP., STROBILANTHES SP., SYZGUM JAMBOS ALSTON (ROSE APPLE), TETRAPANAX PAPYRIFERUS KOCH (CHINESE RICE PAPER PLANT), THEVETIA PERUVIANA (PERS.) SCHUM. (LUCKYNUT), THUNBERGIA SP., TRACHYCARPUS FORTUNI H. WENDL. (WINDMILL PALM), TREVESIA PALMATA VIS. "MICHILOITZII" (DEVIL'S TONGUE), VIBURNUM ODORATISSIMUM KER.

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