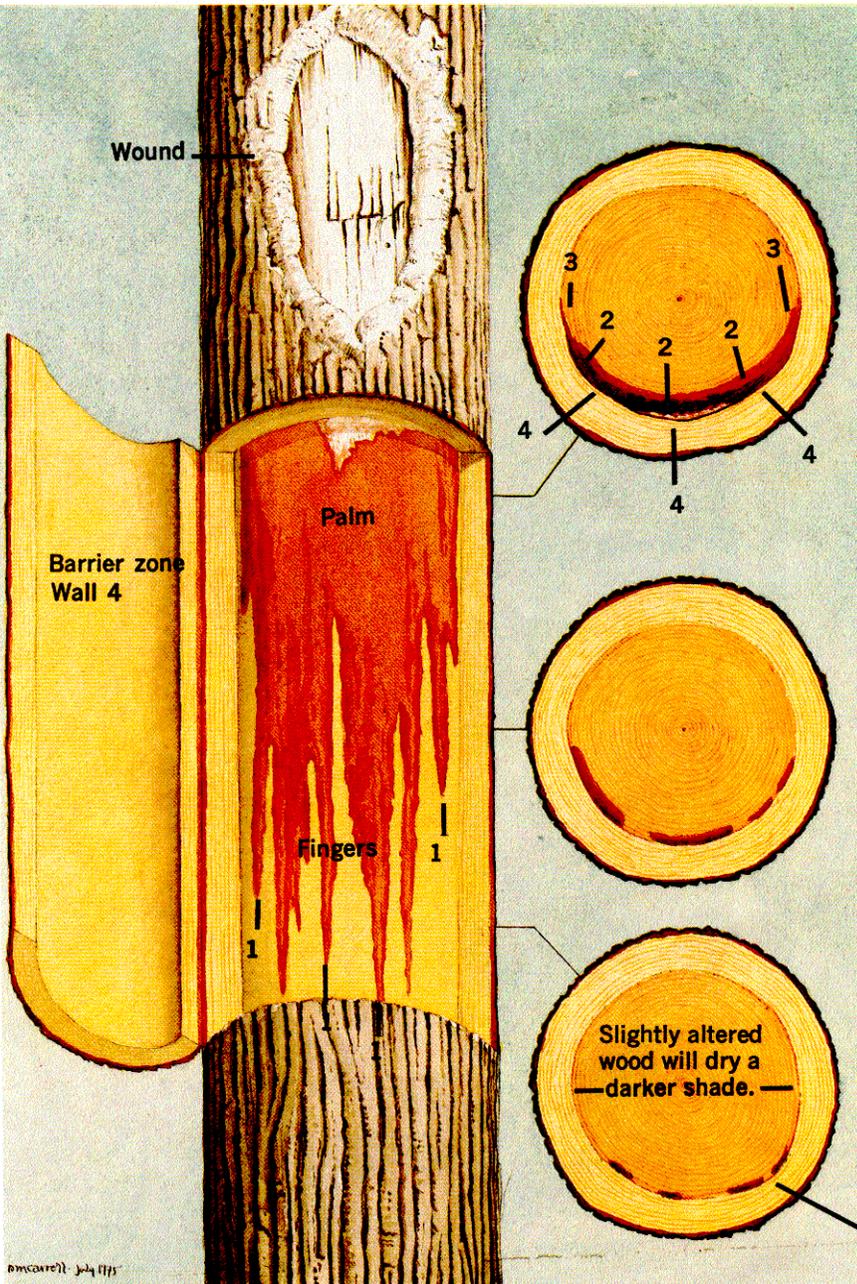


And, yet another type of defect pattern that appears not to fit the compartmentalization concept is the "island" pattern or streak pattern often spoken of as mineral streak. Wounds indeed start these processes. A pattern type that can be termed "palm and fingers" develops. Near the wound all the columns in the individual growth ring are coalesced to form the "palm." As the discolored columns develop vertically above and below the wound, Walls 1, or the tops and bottoms of the compartments in individual growth rings, react in different degrees to the wound and the invading microorganisms. When such a "palm and finger" column is viewed in cross section at increasing distances above and below the wound, islands of defect appear. Often, a few "fingers" will develop far beyond all the others.



©McGraw-Hill, July 1975

In sugar maple, for example, the "palm and finger" pattern is the mineral streak pattern associated with sugar maple borer wounds. This insect is a major cause of mineral streak in sugar maple.

