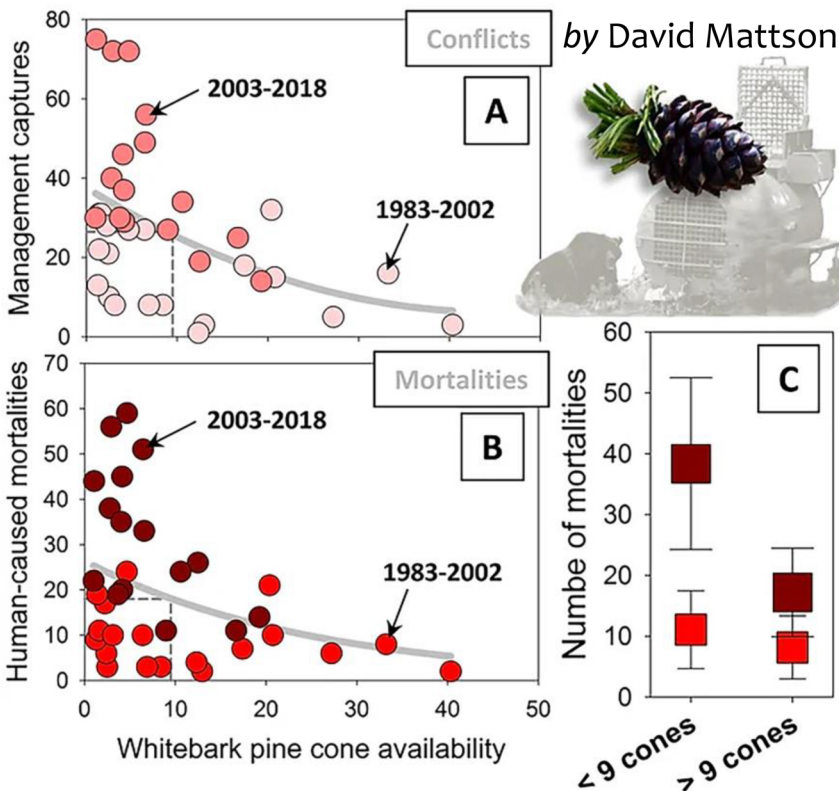


# Effects of Whitebark Pine Seed Crops on Demography – 1983-2018

*Grizzly Times* <https://www.grizzlytimes.org/foods-demography>



These two graphics compare relations between availability of whitebark pine seeds (i.e., cones) and conflicts (indicated by conflict-related bear captures; [A]) and human-caused mortalities (B) in the Greater Yellowstone Ecosystem (GYE), contrasting relations for the period after most whitebark pine had died (2003-2018) compared to before (1983-2002). The basic nature of relations did not change between these two periods, although cone crops were perpetually smaller after 2002, simply because most mature whitebark pine had died. The tendency for comparatively greater numbers of bear to die at a given crop size during 2003-2018 is likely attributable to a dietary shift by bears to eating more meat, much of which led to increased conflicts with people.