B10 4AE3 25 Sep 2023 THRESHOLDS. density threshold. IF transmission is density-dependent. (i.e. maidence = BSI) doesn't [set freq. dep = BSI] F-D B. 1. S : 5=100 -7 S = 50 S = 100 Ind/|cm2 D-D. B.1.5 4>50 and/km² s Toethstic thresholds. depends on the SIZE of the pop, not the DENSITY . to parasite persistence host persistence LI CRITICAL COMMUNITY SIZE host pop Size (numbers, not deusity) required to maintain a parasite -> measles cycles fadeouts 100K-250K 70p SIZE host regulation. a host population? (hold its pop density below the carrying capacity) Le regulation may be better?

Huan extinction for pest control? -> steady, low equilibrium MACROPARASITES .? La lab experiment. 1987: Heligsomoides polygyrus (mouse) . 90% reduction In pop 512e BIOCONTROL WORKS non-native a Opuntia cactus. in Australia Lactoblastis nothmyxomatosis 1950s. in Australian rabbits. calicivinous HUMANS · outbreaks 25% - 50% Black Death Yersinia pestis.