BASIC SUMMARY

Miller (2004)

Genetically-effective population size $=N_e$; those animals contributing genes to the population

Sample of tissue from 110 bear specimens in museums, 1912-1981
Sample of tissue from 136 bears captured 1992-1999
Sample of 8 microsatellites

N_e during **1912 to 1981** approximately **80**
N_e during the **1990s** approximately **>100**

Estimated ratio of N_e to total population size (N; or N_e/N), where N is obtained from total population estimates obtained by other means.
N_e/N is approximately **0.27 (0.09 to 0.92)**

Previous estimates of N_e/N for bears
Allendorf et al. (1990) = **0.20-0.38**
Paetkau et al. (1998) = **0.04-0.19**

Kamath et al (2015)

Sample of 729 bears, including those sampled by Miller
Sample of 20 microsatellites

N_e during **1980s** approximately **100**
N_e during early **2000s** approximately **450**
N_e harmonic mean for entire period **1982-2007** approximately **213**
N_e for **"current population"** is approximately **280**

N_e/N is approximately **0.42-0.66**