

FIGURE 1. PROPOSED RED HIND AREA CLOSURE -- TOURMALINE BANK

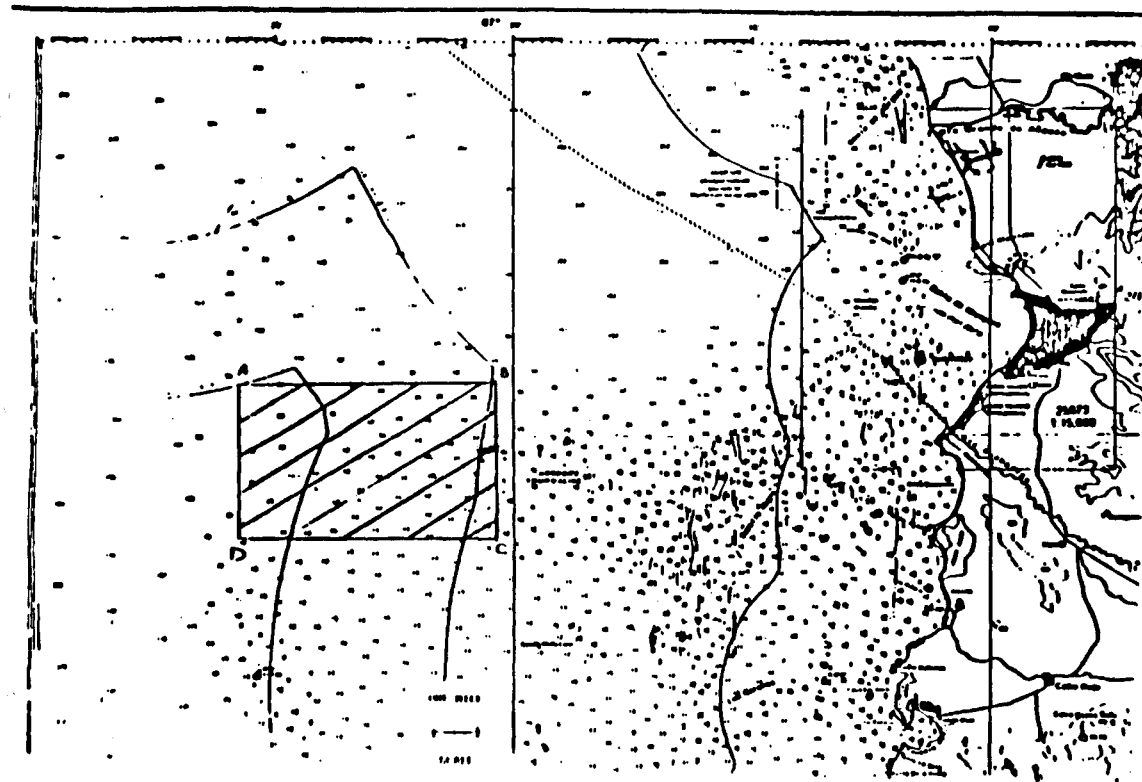


FIGURE 1. RED HIND AREA CLOSURE (1991)

Ref.: Amendment 2 to the Fishery Management Plan for
the Shallow-Water Reef Fish Fishery of Puerto
Rico and the U. S. Virgin Islands

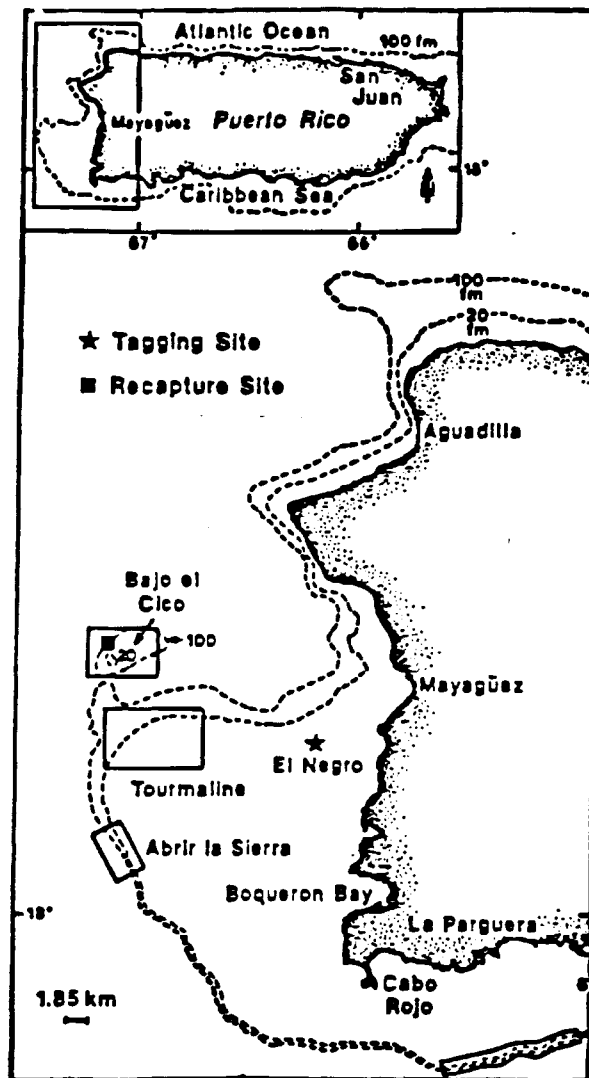


Fig. 1. Map of Puerto Rico and detail of west and southwest coasts showing locations of known red hind spawning aggregation areas indicated by the four boxes. The tagging (star) and recapture (square) sites of a single animal are marked. The narrow area south of La Parguera is described in Colin et al. (1987) and in Shapiro et al. (1993a). The 20 and 100 fathom depth contours are indicated (1 fathom = 1.83 m).

FIGURE 2. MAP SHOWING KNOWN RED HIND SPAWNING AGGREGATIONS

Ref.: Sadovy, et al. 1994

COMMERCIAL LANDINGS PUERTO RICO

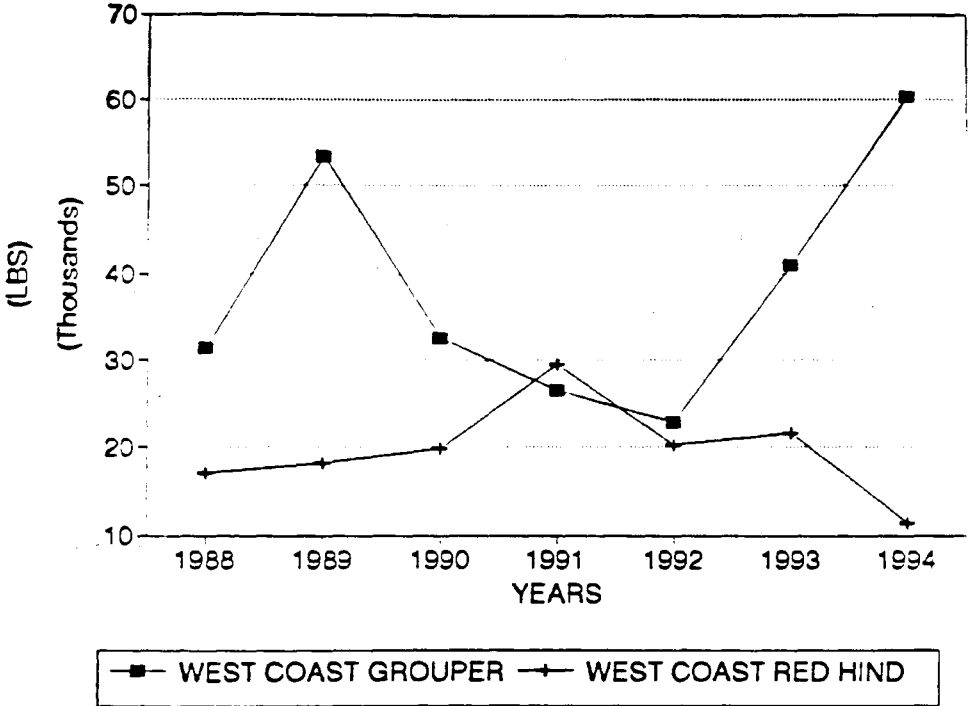


FIGURE 3. COMMERCIAL LANDINGS OF GROUPERS AND RED HIND FOR THE WEST COAST OF PUERTO RICO

Red hind landings PR

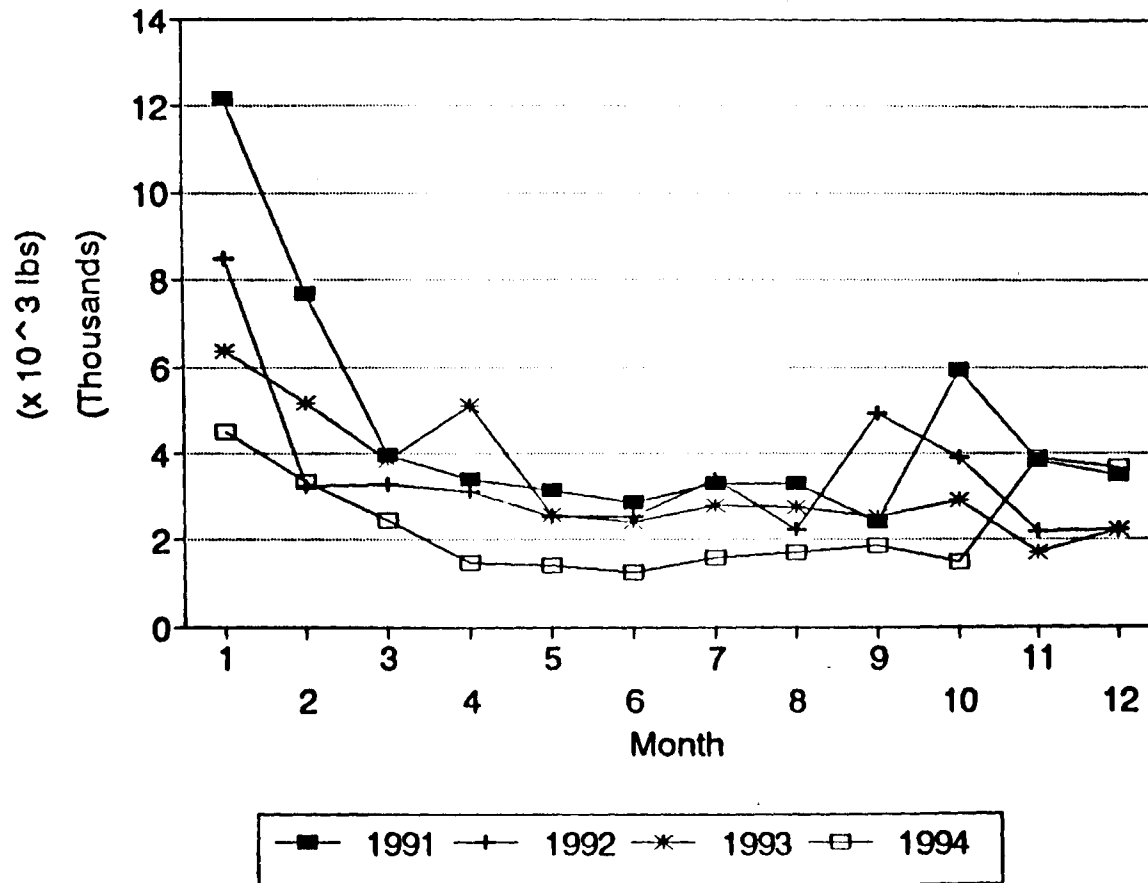


FIGURE 4. MONTHLY COMMERCIAL RED HIND LANDINGS REPORTED FOR PUERTO RICO BETWEEN 1991 AND 1994

Grouper landings PR

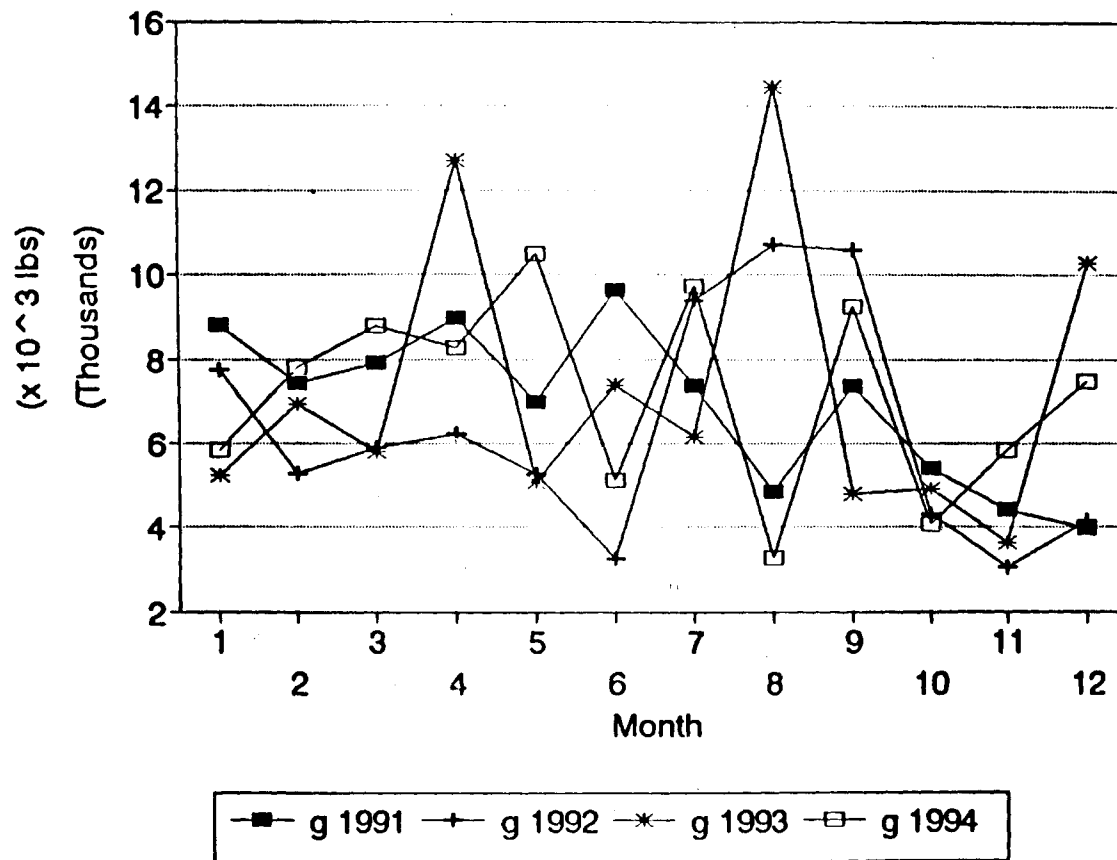


FIGURE 5. MONTHLY COMMERCIAL LANDINGS FOR GROUPEES REPORTED BETWEEN 1991 AND 1994 IN PUERTO RICO

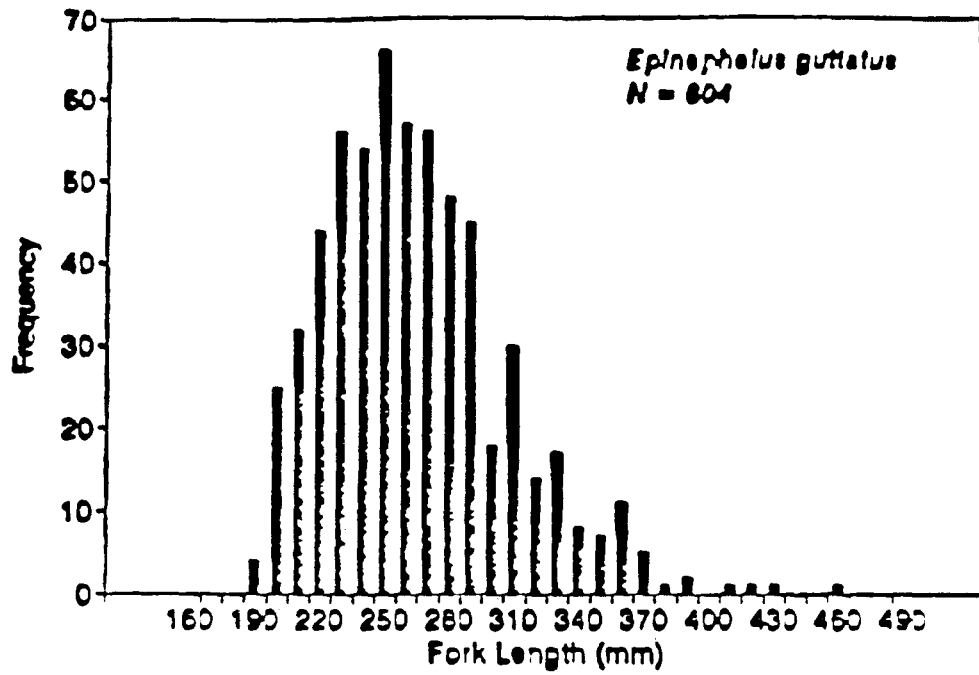
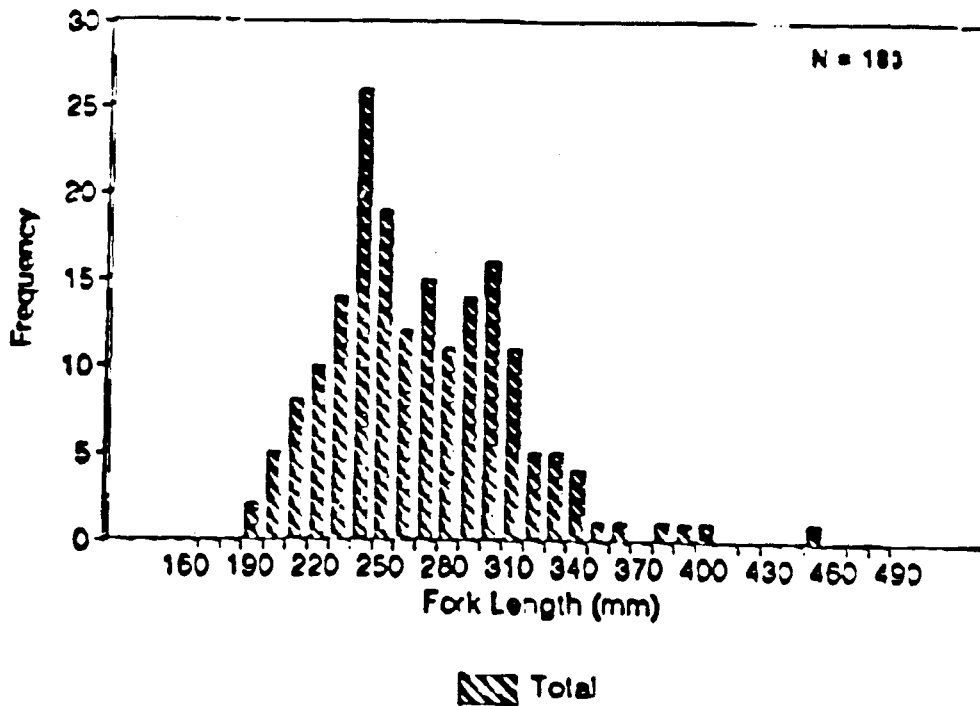


FIGURE 6a. FISHERY-INDEPENDENT DATA SHOWING SIZE FREQUENCY DISTRIBUTION FOR 1994-1995 RED HIND SPAWNING AGGREGATION AT BAJO DE CICO



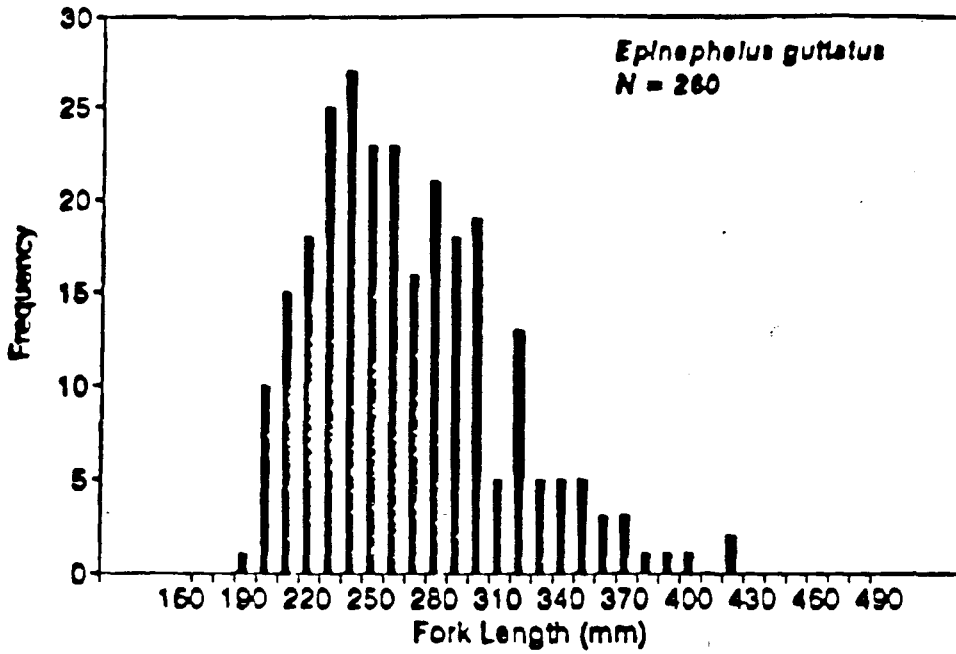


FIGURE 7a. FISHERY-INDEPENDENT DATA SHOWING SIZE FREQUENCY DISTRIBUTION FOR 1994-1995 RED HIND SPAWNING AGGREGATION AT ABRIR LA SIERRA

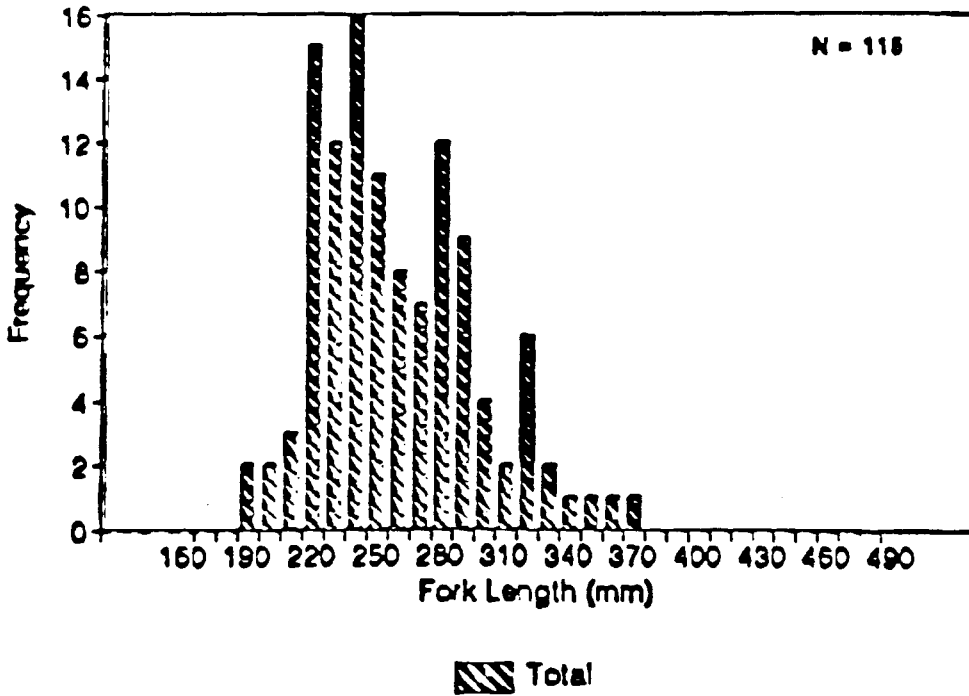


FIGURE 7b. FISHERY-INDEPENDENT DATA SHOWING SIZE FREQUENCY DISTRIBUTION FOR 1995-1996 RED HIND SPAWNING AGGREGATION AT ABRIR LA SIERRA

Mean size and standard deviation of sampled red hinds with hooks 1988-95.

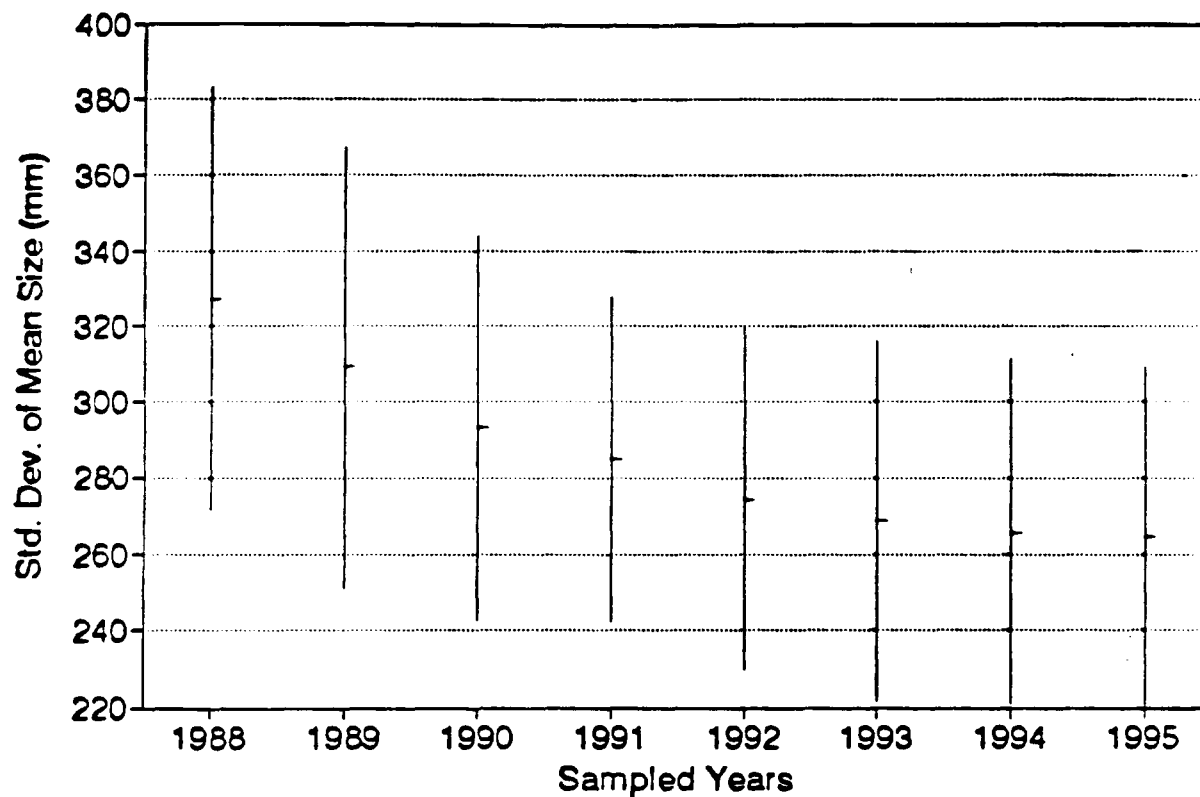


FIGURE 8. FISHERY INDEPENDENT SIZE DATA FOR RED HINDS

