

ABSTRACT

Fecundity (egg number) of contemporary hatchery and wild lake trout collected in inshore waters of Lake Superior during 1977–1982 was not significantly different, so the following combined-data relationships with total length (TL) and round weight (RW) were calculated:

$$\text{Fecundity} = -19,019 + 34.26 \text{ TL}(\text{mm})$$

$$\text{Fecundity} = -3,400 + 2,450 \text{ RW}(\text{kg})$$

Fecundity was greater than for former native stocks and increased with increasing fish body weight. Hatchery influence through selection and culture of broodstock appeared to be most responsible for greater fecundity of contemporary lake trout in Lake Superior.