

ENV Report 57 – *Seasonal Fish Densities in the Lock Chamber at Lock and Dam 25, Upper Mississippi River* by Brian L. Johnson, Thomas M. Keevin, Eric A. Laux, Thixton B. Miller, Donald J. Degan, and David J. Schaeffer.

ABSTRACT

Due to fluctuating water levels, high jet velocities, and turbulence resulting from towboat propellers, lock chambers do not provide suitable aquatic habitat and should be unattractive to fish. However, because there is the possibility that fish that use lock chambers can be entrained by towboat propellers, a hydroacoustic study was conducted from June 2002 through May 2003 to characterize the seasonal density of fish in Lock and Dam 25. High fish densities in the lock during the spring, summer, and fall (mid-April through November) and low densities during the winter reflect the abundance of fish in the main channel during these periods.