Effect of hatchery releases on rec4_n in Upper Salmon MPG spring total summer 0.1 0.0 -0.1 -0.2 -0.3 -0.40.1 0.0 -0.1N -0.2 -0.3 -0.4 0.1 offset 0.0 -0.1 2 ω -0.2 -0.3 5 -0.4 0.1 0.0 -0.1-0.2 -0.3 -0.40.1 0.0 -0.15 -0.2-0.3 -0.4

1960 1970 1980 1990 2000 20101960 1970 1980 1990 2000 20101960 1970 1980 1990 2000 2010 **year**

interaction coefficient