Effect of hatchery releases on rec4_ n in South Fork Salmon MPG spring total summer 0.2 0.0 -0.2 0.2 2 0.0 -0.2 offset 0.2 ω 0.0 -0.2 5 0.2 0.0 -0.2 0.2 5 0.0

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

interaction coefficient

-0.2