> Guard$Count<-as.integer(Guard$Count)

> KickMod<- glm(Count~Year, family=poisson(link="log"), data=Guard)

> summary(KickMod)

Call:

glm(formula = Count ~ Year, family = poisson(link = "log"), data = Guard)

Coefficients:

Estimate Std. Error z value Pr(>|z|)

(Intercept) -63.84963 81.87069 -0.780 0.435

Year -0.03410 0.04386 -0.777 0.437

(Dispersion parameter for poisson family taken to be 1)

Null deviance: 22.050 on 19 degrees of freedom

Residual deviance: 21.439 on 18 degrees of freedom

AIC: 50.272

Number of Fisher Scoring iterations: 5

> Anova(KickMod)

Analysis of Deviance Table (Type II tests)

Response: Count

LR Chisq Df Pr(>Chisq)

Year 0.61137 1 0.4343

>

> Guard$Year<- (Guard$Year-1875)

> KickMod<- glm(Count~Year, family=poisson(link="log"), data=Guard)

> summary(KickMod)

Call:

glm(formula = Count ~ Year, family = poisson(link = "log"), data = Guard)

Coefficients:

Estimate Std. Error z value Pr(>|z|)

(Intercept) -127.78078 164.10813 -0.779 0.436

Year -0.03410 0.04386 -0.777 0.437

(Dispersion parameter for poisson family taken to be 1)

Null deviance: 22.050 on 19 degrees of freedom

Residual deviance: 21.439 on 18 degrees of freedom

AIC: 50.272

Number of Fisher Scoring iterations: 5

> Anova(KickMod)

Analysis of Deviance Table (Type II tests)

Response: Count

LR Chisq Df Pr(>Chisq)

Year 0.61137 1 0.4343

> exp(-0.0341) # slope %/yr

[1] 0.9664749

> exp(-0.0341) - 1 # annual loss

[1] -0.03352515

> exp(0.08152) # intercept 1875 = 0

[1] 1.084935