> aPWest$gam

Family: gaussian

Link function: identity

Formula:

OtoWidth ~ s(Ages) + FinWestSST\_AnnEsts

Estimated degrees of freedom:

7.93 total = 9.93

lmer.REML score: 7005.114

> summary(aPWest$gam)

Family: gaussian

Link function: identity

Formula:

OtoWidth ~ s(Ages) + FinWestSST\_AnnEsts

Parametric coefficients:

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

(Intercept) -4.0106 7.0089 -0.572 0.567286

FinWestSST\_AnnEsts 1.1794 0.3456 3.413 0.000663 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Approximate significance of smooth terms:

edf Ref.df F p-value

s(Ages) 7.933 7.933 83.94 <2e-16 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

R-sq.(adj) = 0.317lmer.REML score = 7005.1 Scale est. = 15.745 n = 1229

> aPWest$mer

Linear mixed model fit by REML ['lmerMod']

REML criterion at convergence: 7005.114

Random effects:

Groups Name Std.Dev.

FishName (Intercept) 3.865

Xr s(Ages) 288.811

Residual 3.968

Number of obs: 1229, groups: FishName, 28; Xr, 8

Fixed Effects:

X(Intercept) XFinWestSST\_AnnEsts Xs(Ages)Fx1

-4.011 1.179 -14.849

> summary(aPWest$mer)

Linear mixed model fit by REML ['lmerMod']

REML criterion at convergence: 7005.1

Scaled residuals:

Min 1Q Median 3Q Max

-4.9365 -0.5058 -0.0159 0.4284 10.5292

Random effects:

Groups Name Variance Std.Dev.

FishName (Intercept) 14.94 3.865

Xr s(Ages) 83411.91 288.811

Residual 15.74 3.968

Number of obs: 1229, groups: FishName, 28; Xr, 8

Fixed effects:

Estimate Std. Error t value

X(Intercept) -4.0106 7.0089 -0.572

XFinWestSST\_AnnEsts 1.1794 0.3456 3.413

Xs(Ages)Fx1 -14.8486 2.7994 -5.304

Correlation of Fixed Effects:

X(Int) XFWSST

XFnWsSST\_AE -0.994

Xs(Ages)Fx1 -0.033 0.033