1.

Estimate
Beta0 107.835039
Beta1 1.071169

3.

Estimate gamma0 118.3629 gamma1 -62.1792

4.

Estimate eta0 112.36434 eta1 -59.18060 eta2 27.34765 eta3 6.05278 eta4 -64.14206

5.

Estimate alph0 106.350472 alpha1 2.779324 alpha2 2.341357 alpha3 -13.186806