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Article:

Brooks, ME, Mugabo, M, Rodgers, GM et al. (2 more authors) (2016) How well can body size represent effects of the environment on demographic rates? Disentangling correlated explanatory variables. *Journal of Animal Ecology*, 85. pp. 318-328. ISSN 0021-8790

<https://doi.org/10.1111/1365-2656.12465>

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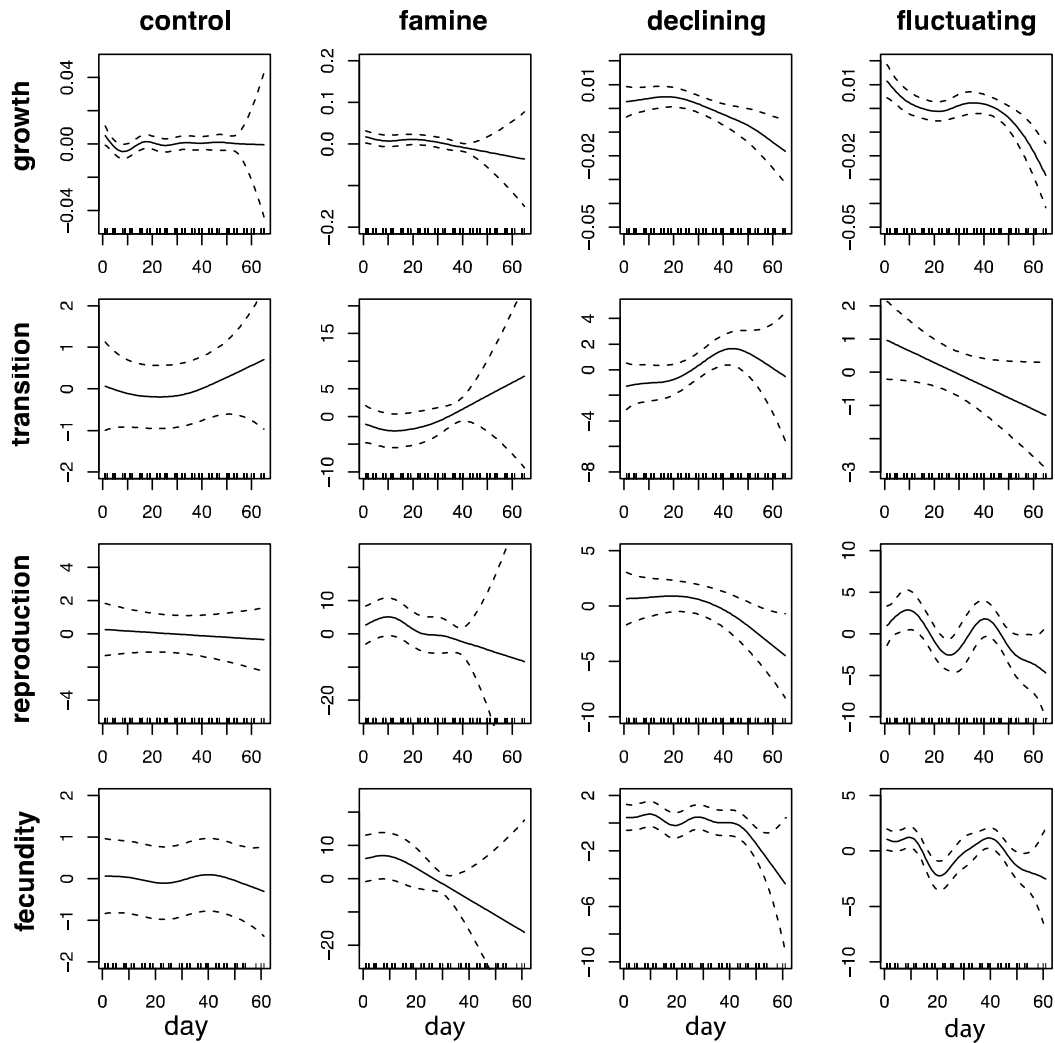


Figure S1: Effects of Past Environment. Each column represents a different experimental treatment. Each row represents a life-history process observed over a 24 hour monitoring period: final body size at the end of monitoring, probability of initiating transition from one developmental stage to the next, probability of reproduction (given female), and fecundity (number of eggs laid given reproduction). A full model (GAM) controlling for the effects of body size, and current environment (population density and per capita food) was fit to each demographic rate. Lines represent the smooth function “past environment” that was a spline of the day of each experiment designed to be flexible enough to pick up population level patterns not explained by body size or current environment. The units are on the scale of the linear predictor, not the response variable. Dashed lines are +/- 2 standard errors.