

Web-based Supplementary Materials for
**Comparison of Hierarchical Bayesian Models for
Over-dispersed Count Data using DIC and Bayes Factors**

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Web Appendix A.

Web Table 1. Bayes estimates of model parameters.

	a	σ	α	τ	p
<i>Spotty</i>					
P	-0.29	0.30			
PGA	-0.28	0.26	4.75		
PLN	-0.29	0.27		0.37	
ZIP	-0.17	0.26			0.10
ZIPGA	-0.23	0.24	5.18		0.06
ZIPLN	-0.20	0.25		0.32	0.07
<i>Goatfish</i>					
P	-0.93	1.60			
PGA	-0.78	1.46	0.41		
PLN	-0.61	1.43		1.52	
ZIP	-0.17	1.54			0.50
ZIPGA	-0.48	1.50	1.28		0.27
ZIPLN	-0.31	1.47		0.96	0.34
<i>Demoiselle</i>					
P	0.86	2.34			
PGA	1.06	2.18	0.29		
PLN	1.59	2.39		2.11	
ZIP	1.45	2.25			0.40
ZIPGA	1.38	2.19	0.62		0.25
ZIPLN	1.47	2.25		1.35	0.29