

Additional file 5. Characteristics of fitted probability distributions of flock sizes of the three main poultry species

		Chicken	Duck	Muscovy duck
Real data	Mean	40	81	14
	Variance	4195	10642	108
Exponential	Variance	1628	6567	191
	AIC*	4690	2808	1068
Gamma distribution	Variance	1939	7857	98
	AIC*	4682	2805	1038
Mixture of two gamma distributions	Variance	4275	10483	113
	AIC*	4835	2753	1037
Mixture of three gamma distributions	Variance	4861	9919	107
	AIC*	4544	2754	1031

*AIC: Akaike Information Criterion