

**Table 5.** Parameter estimates for maximum likelihood estimation (MLE) and Markov Chain Monte Carlo (MCMC) fitted models for dipper data with survival model Flood + weight and capture probability model sex + td

Parameter	Estimate	SE	LCL	UCL
MLE				
Phi.(Intercept)	0.449	0.244	-0.029	0.926
Phi.Flood	-0.542	0.217	-0.968	-0.116
Phi.weight	-0.004	0.039	-0.080	0.072
<i>P.</i> (Intercept)	1.656	0.458	0.758	2.553
<i>P.sexMale</i>	0.645	0.655	-0.638	1.929
<i>P.td</i>	0.843	0.747	-0.620	2.306
MCMC				
Phi.(Intercept)	0.286	0.152	-0.021	0.574
Phi.Flood	-0.330	0.137	-0.613	-0.075
Phi.weight	-0.005	0.024	-0.049	0.045
<i>P.</i> (Intercept)	0.931	0.243	0.491	1.437
<i>P.sexMale</i>	0.252	0.319	-0.327	0.919
<i>P.td</i>	0.423	0.332	-0.250	1.058

For MCMC model, estimate is the mode, SE is the standard deviation of the posterior and lower (LCL) and upper (UCL) confidence intervals are 95% highest posterior density interval.