Table 4. Model selection table comparing the best fit GLM of oyster count data from subtidal reefs restored using different materials, at different densities, and at different times in Apalachicola Bay (Table 3) to the same model with additional terms describing river discharge metrics for the Apalachicola River. The predicted response is number of spat per ¼ m2 quadrat. AICcc and delta AICcc provided to inform comparisons of the model statistical fit to the data. Period = a continuous variable which describes time (one-half year, summer or winter); project = a categorical variable identifying type and density of cultch; low days12 = the number of days river discharge was below 12,000 CFS; 12k\_lag = the number of days river discharge was below 12,000 CFS lagged by 1 period (to test antecedent conditions); low days6 = the number of days river discharge was below 6,000 CFS; 6k\_lag = the number of days river discharge was below 6,000 CFS lagged by 1 period (to test antecedent conditions); site = the location where the sampling occurred.

| Model | k | AICc | Delta AICc | AICc Weight |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| tmb 5: Sum\_spat ~ Period + Project + (Period | Site) + Period:Project + offset(log(Num\_quads)) | 12 | 1875.69 | 0.00 | 0.40 |
| tmb 5.12k\_lag: Sum\_spat ~ Period + Project + (Period | Site) + 12k\_lag + Period:Project + offset(log(Num\_quads)) | 13 | 1877.19 | 1.50 | 0.19 |
| tmb 5.12k\_lag: Sum\_spat ~ Period + Project + (Period | Site) + 6k\_lag + Period:Project + offset(log(Num\_quads)) | 13 | 1877.53 | 1.84 | 0.16 |
| tmb 5.12k\_lag: Sum\_spat ~ Period + Project + (Period | Site) + 12k + Period:Project + offset(log(Num\_quads)) | 13 | 1878.01 | 2.32 | 0.13 |
| tmb 5.12k\_lag: Sum\_spat ~ Period + Project + (Period | Site) + 6k + Period:Project + offset(log(Num\_quads)) | 13 | 1878.08 | 2.39 | 0.12 |
|  |  |  |  |  |
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|  |  |  |  |  |