|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Models | Terms | -2log-Lik | Chi-square | df | p-value |
| 1 | Block2+Block3+Block4+BlainCreek+N40+N80+N120+N2+2017 | -962.0409 |  |  |  |
|  | Model1-Block2-Block3-Block4 | -974.52 | 24.96 | 1 | 5.8e-07 |
|  | Model1-BlaineCreek | -967.51 | 10.94 | 1 | 0.00094 |
|  | **Model1-Year** | **-962.041** | **0.002** | **1** | **0.964** |
|  | Model1-NRate | -971.59 | 19.1 | 1 | 1.23e-05 |
|  | Model1-N2 | -962.042 | 0.0022 | 1 | 0.962 |
|  |  |  |  |  |  |
| 2 | Block2+Block3+Block4+BlainCreek+N40+N80+N120+N2 | -962.041 |  |  |  |
|  | -Model 2 - Block | -978.19 | 31.95 | 1 | 1.5e-08 |
|  | **-Model 2- BlaineCreek** | **-971.51** | **18.94** | **1** | **1.34e-05** |
|  | -Model 2- N40-N80-N120 | -975.46 | 26.84 | 1 | 2.2e-07 |
|  | -Model 2- N2 | -966.47 | 8.86 | 1 | 0.0029 |

Final Model:

134.28 + 265.63\*BlaineCreek + 406.24 \*N120 +61.54\*N40 +380.9\* N80-8.02\*N2 + 205.1685 \*B2 + 417.38\*B3+546.41\*B4