| Models | K | AICc | DeltaAICc | W | Deviance |
|---------------------------------------------------------------------------|----|---------|-----------|------|----------|
| site + year + site × year + INIT + NESTAGE | 36 | 4003.59 | 0.00 | 0.42 | 3931.53 |
| site + year + site × year + INIT + NESTAGE + site × NESTAGE | 37 | 4005.03 | 1.44 | 0.21 | 3930.96 |
| site + year + site × year + INIT + NESTAGE + site × INIT | 37 | 4005.48 | 1.89 | 0.16 | 3931.41 |
| site + year + site × year + INIT | 35 | 4006.68 | 3.08 | 0.09 | 3936.61 |
| site + year + site × year + INIT + NESTAGE + site × INIT + site × NESTAGE | 38 | 4006.80 | 3.21 | 0.08 | 3930.72 |
| site + year + site × year + INIT + site × INIT | 36 | 4008.58 | 4.98 | 0.03 | 3936.51 |
| site + year + INIT + NESTAGE | 30 | 4019.18 | 15.59 | 0.00 | 3959.14 |
| site + year + INIT + NESTAGE + site × NESTAGE | 31 | 4020.03 | 16.43 | 0.00 | 3957.98 |
| site + year + INIT + NESTAGE + site × INIT | 31 | 4020.35 | 16.75 | 0.00 | 3958.30 |
| site + year + INIT + NESTAGE + site × INIT + site × NESTAGE | 32 | 4021.53 | 17.94 | 0.00 | 3957.48 |
| site + year + INIT | 29 | 4022.31 | 18.71 | 0.00 | 3964.26 |
| site + year + INIT + site × INIT | 30 | 4023.52 | 19.93 | 0.00 | 3963.48 |
| site + year + site × year | 34 | 4032.75 | 29.15 | 0.00 | 3964.69 |
| site + year + site × year + NESTAGE | 35 | 4034.32 | 30.72 | 0.00 | 3964.26 |
| site + year + site × year + site × NESTAGE | 36 | 4036.13 | 32.53 | 0.00 | 3964.06 |
| site + year | 28 | 4046.70 | 43.11 | 0.00 | 3990.66 |
| site + year + NESTAGE | 29 | 4048.41 | 44.82 | 0.00 | 3990.37 |
| site + year + NESTAGE + site × NESTAGE | 30 | 4049.84 | 46.25 | 0.00 | 3989.80 |
| 1 | 1 | 4294.89 | 291.30 | 0.00 | 4292.89 |