**Appendix 1.** Candidate models for 15 species in old growth and younger pine forest stands. See Table 1 for predictor variable acronyms.

K is the number of model parameters (number of variables + 2) used in calculation of AIC. Note that K may change for global model if a variable drops out. TSF is the trend surface function used in the models.

Black-and-white Warbler (BAWW)

* A priori selected variables are in bold text.

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Blue-headed Vireo (BHVI)

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### Brown Creeper (BRCR)

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Black-throated Green Warbler (BTNW)

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Evening Grosbeak (EVGR)

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Golden-crowned Kinglet (GCKI)

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Least Flycatcher (LEFL)

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Northern Parula Warbler (NPWA)

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Red-breasted Nuthatch (RBNU)

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Winter Wren (WIWR)

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Species richness

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**Abundance**

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