Voltinism SMD [95% CI] **Species** Vanessa cardui -10.70 [-18.94, -2.46] Multivoltine Pieris napi -8.21 [-11.98, -4.44] Multivoltine Pieris brassicae -8.10 [-11.83, -4.37] Multivoltine Limenitis camilla **-7.83** [**-11.50**, **-4.16**] Multivoltine -7.52 [-10.76, -4.27] Lycaena phlaeas Multivoltine -7.33 [-10.38, -4.28] Euphydryas aurinia Univoltine Lasiommata megera -7.33 [-10.95, -3.71] Multivoltine Aglais io **-7.31** [**-10.31**, **-4.31**] Univoltine -6.96 [-10.71, -3.21] Boloria euphrosyne Univoltine Melanargia galathea **-6.92** [**-10.63**, **-3.21**] Univoltine Speyeria aglaja -6.42 [-16.21, 3.37] Univoltine -6.41 [-9.40, -3.42] Thymelicus sylvestris Univoltine Gonepteryx rhamni -6.34 [-9.30, -3.38] Univoltine Polyommatus icarus Multivoltine -6.33 [-9.54, -3.12] -6.22 [-10.07, -2.37] Argynnis adippe Univoltine Ochlodes sylvanus -6.15 [-9.22, -3.08] Univoltine Pyrgus malvae -6.00 [-9.81, -2.19] Multivoltine Fabriciana adippe -5.94 [-9.65, -2.23] Univoltine Lycaena virgaureae -5.85 [-9.45, -2.25] Univoltine Anthocharis cardamines Univoltine -5.82 [-8.46, -3.17] Callophrys niphon -5.64 [-9.37, -1.91] Multivoltine Celastrina argiolus -5.58 [-8.34, -2.82] Multivoltine Aporia crataegi -5.28 [-8.24, -2.31] Univoltine Polyommatus coridon -5.22 [-9.04, -1.40] Univoltine Fabriciana niobe -5.17 [-9.53, -0.81] Univoltine Colias philodice -5.11 [-10.42, 0.20] Multivoltine Callophrys rubi -4.87 [-7.93, -1.82] Univoltine Boloria selene -4.77 [-8.09, -1.46] Multivoltine -4.73 [-9.53, 0.07] Epargyreus clarus Univoltine Pyronia tithonus -4.67 [-7.57, -1.77] Univoltine Hyponephele lycaon Univoltine -4.57 [-8.15, -0.99] -4.50 [-8.09, -0.90] Aglais urticae Multivoltine Melanargia lachesis Univoltine -4.49 [-8.04, -0.94] Maniola jurtina -4.37 [-7.43, -1.32] Univoltine Papilio glaucus -4.30 [-8.80, 0.20] Multivoltine Callophrys henrici -4.20 [-8.45, 0.05] Univoltine Vanessa atalanta Univoltine -4.11 [-7.93, -0.29] Hipparchia hermione Univoltine -3.90[-7.55, -0.25]Argynnis paphia -3.89 [-6.56, -1.21] Univoltine Hipparchia semele Univoltine -3.74 [-7.53, 0.05] Erynnis tages Univoltine -3.61 [-6.65, -0.58] Coenonympha arcania -3.54 [-7.42, 0.33] Univoltine -3.53 [-7.24, 0.18] Hipparchia statilinus Univoltine Coenonympha pamphilus Multivoltine -3.49 [-6.56, -0.42] Aphantopus hyperantus -3.48 [-6.40, -0.56] Univoltine Apatura iris -3.43 [-7.65, 0.79] Univoltine -3.42 [-7.16, 0.32] Satyrium liparops Univoltine -3.27 [-6.34, -0.20] Cupido minimus Univoltine -3.26 [-6.44, -0.07] Argynnis aglaja Univoltine -3.02 [-6.68, 0.63] Araschnia levana Multivoltine Pieris rapae -2.82 [-5.36, -0.28] Multivoltine Speyeria cybele -2.77 [-15.39, 9.85] Univoltine Hamearis lucina -2.68 [-7.36, 2.00] Univoltine Celastrina neglecta -2.62 [-7.25, 2.01] Multivoltine Thymelicus lineola -2.62 [-6.39, 1.15] Univoltine Carterocephalus palaemon -2.55 [-6.49, 1.39] Univoltine Aricia agestis -2.46 [-5.48, 0.56] Multivoltine Hesperia comma -2.30 [-5.41, 0.82] Univoltine Brenthis ino -1.90 [-6.77, 2.97] Univoltine -1.53 [-5.27, 2.21] Megisto cymela Univoltine Papilio troilus Multivoltine -1.40 [-6.71, 3.91] Lycaena alciphron Univoltine -1.06 [-7.72, 5.60] Cupido comyntas -1.05 [-6.63, 4.53] Multivoltine -0.71 [-10.55, 9.14] Erynnis baptisiae Multivoltine -0.56 [-4.48, 3.37] Cercyonis pegala Univoltine Phyciodes tharos Multivoltine -0.49 [-4.65, 3.67] Colias eurytheme Multivoltine 0.50 [-4.36, 5.36] Celastrina ladon 0.57 [-3.70, 4.85] Multivoltine 1.35 [-4.00, 6.70] Asterocampa celtis Multivoltine Cyaniris semiargus 1.53 [-2.41, 5.47] Univoltine 1.77 [-2.34, 5.88] Erebia ligea Univoltine Ancyloxypha numitor 3.03 [-1.59, 7.65] Multivoltine Colias hyale Multivoltine 4.24 [0.38, 8.11] 5.50 [0.40, 10.60] Limenitis archippus Multivoltine 5.78 [0.76, 10.80] Polites peckius Multivoltine 12.92 [-1.21, 27.05] Satyrus actaea Univoltine EE Model -4.05 [-4.47, -3.62] Random effect Model -3.70 [-5.68, -1.73] -17 -14 -11 -9 -7 -5 -3 -1 **0** 1 9 11 13 15 17 19 21 23 25 27 29 3 5 7