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Survival analysis of brown plant hoppers (*Nilaparvata lugens*) in rice using video recordings of predation events

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Survival analysis of brown plant hoppers (Nilaparvata lugens) in rice using video recordings of 1 predation events 2 3 Lia Hemerik^{1*}, Felix Bianchi^{2*}, Inge van de Wiel³, Daomeng Fu⁴, Yi Zou⁵, Haijun Xiao⁴, Wopke 4 van der Werf³ 5 ¹Biometris, Department of Mathematical and Statistical Methods, Wageningen University and 6 7 Research, Wageningen, The Netherlands ²Farming Systems Ecology, Department of Plant Sciences, Wageningen University and Research, 8 Wageningen, The Netherlands. 9 ³Crop Systems Analysis Group, Department of Plant Sciences, Wageningen University and Research, 10 Wageningen, The Netherlands 11 ⁴Institute of Entomology, Jiangxi Agricultural University, Nanchang, China. 12 ⁵Department of Health and Environmental Sciences, Xi'an Jiaotong-Liverpool University, Suzhou, 13 14 China. * Shared first-authorship. Both authors have contributed equally to this manuscript. 15 16 **Author contributions:** 17 Planning and design of experiment: IW, WW, LH, FB, YZ, HX 18 19 Data collection: IW, DF Data analysis and interpretation: LH, IW, WW, FB 20

Writing of publication: FB, LH, WW

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