doi:10.1071/AN20248

Animal Production Science 2021, **61**(4), 345–362.

Substantial genetic gains in reducing breech flystrike and in improving productivity traits are achievable in Merino sheep by using index selection

F.D. Brien[A,C], *S.F. Walkom*[B], *A.A. Swan*[B] *and D.J. Brown*[B]

[A]Davies Livestock Research Centre, School of Animal and Veterinary Sciences, University of Adelaide, Roseworthy, SA 5371, Australia.

[B]Animal Genetics and Breeding Unit (A joint venture of the NSW Department of Primary Industries and University of New England), University of New England, Armidale, NSW 2351, Australia

[C]Corresponding author. Email: forbes.brien@adelaide.edu.au

Supplementary Material

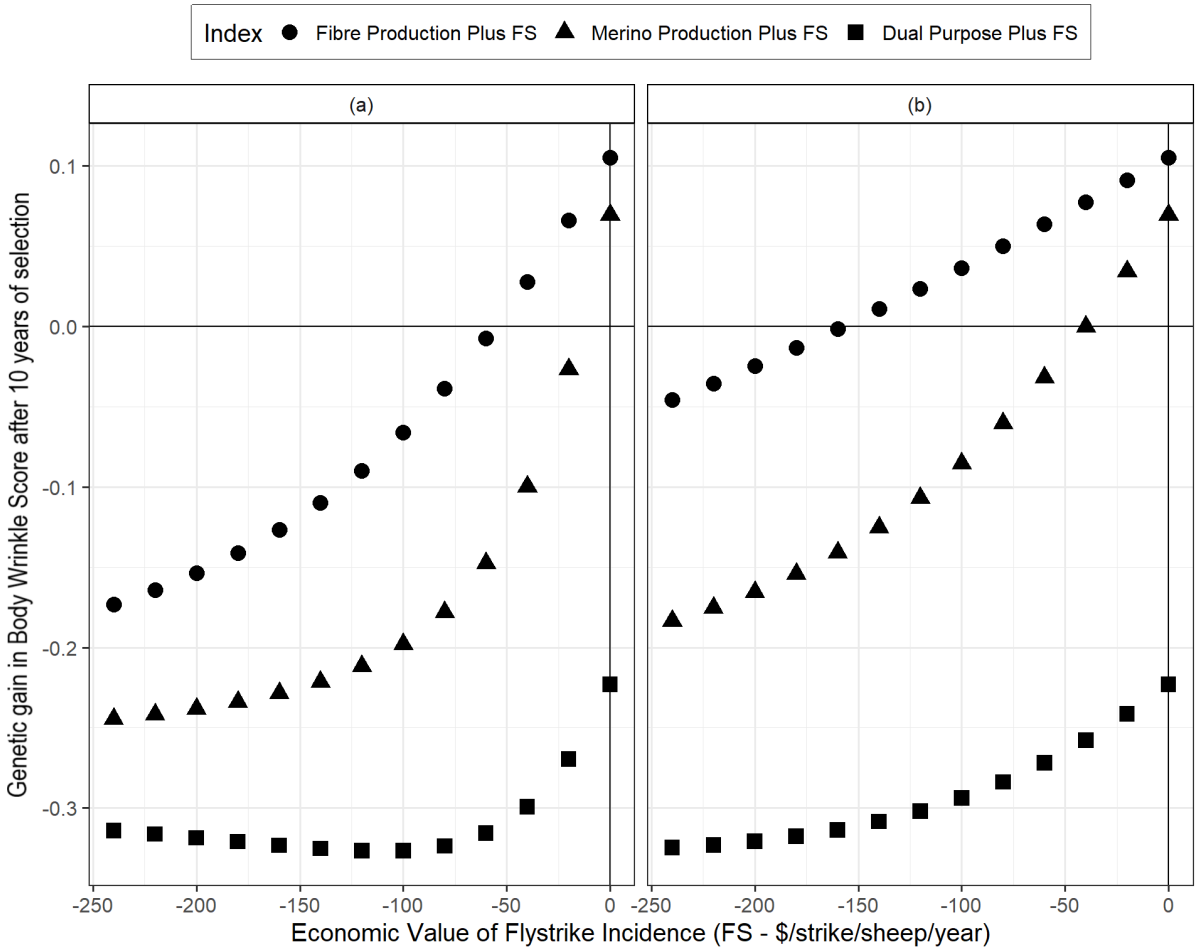

Figure S1. Predicted 10-year genetic gains in Body Wrinkle Score in response to index selection, plotted against economic values for Flystrike Incidence (FS - $/strike/sheep/year). Gains are shown for (a) moderate FS heritability and (b) low FS heritability for FS.

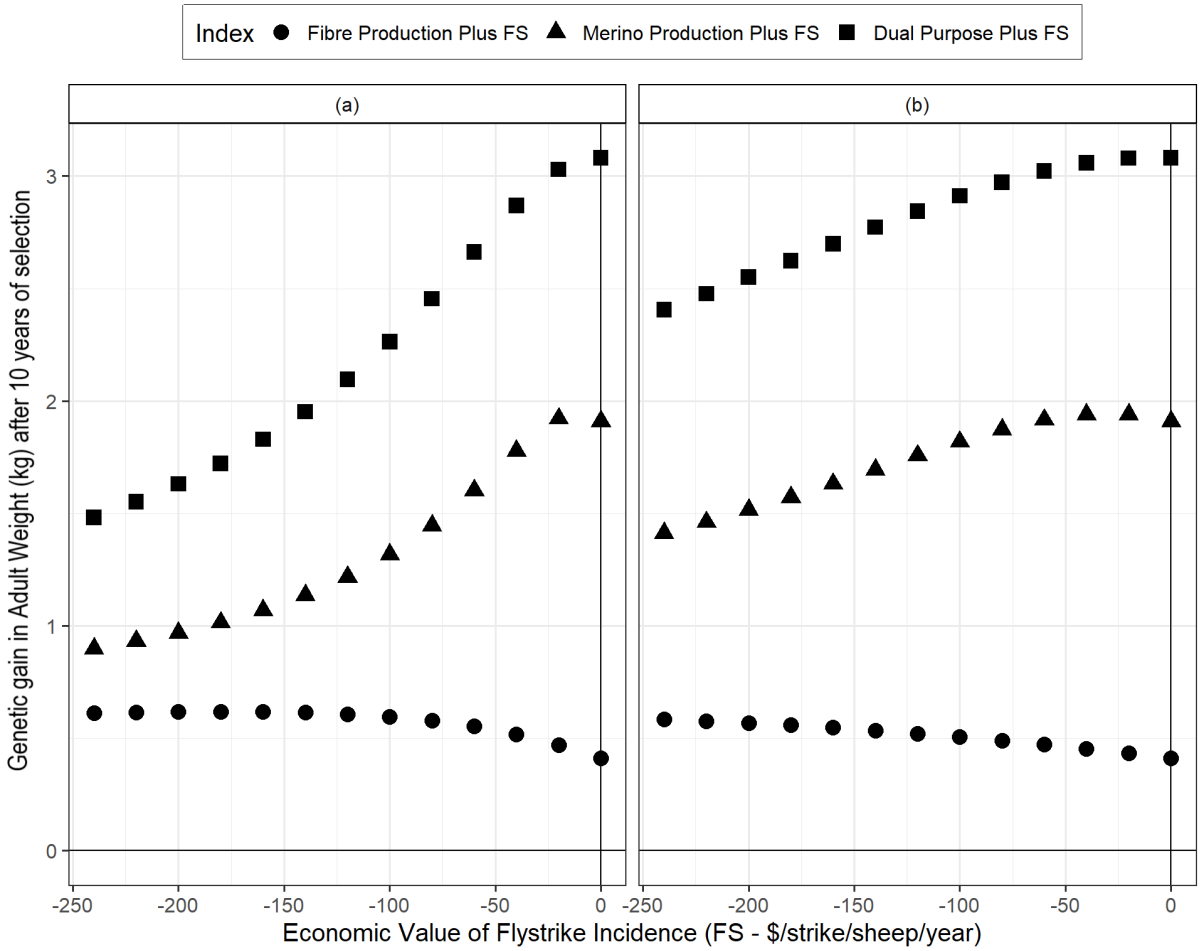

Figure S2. Predicted 10-year genetic gains in Adult Weight (kg) in response to index selection, plotted against economic values for Flystrike Incidence (FS - $/strike/sheep/year). Gains are shown for (a) moderate FS heritability and (b) low FS heritability for FS.

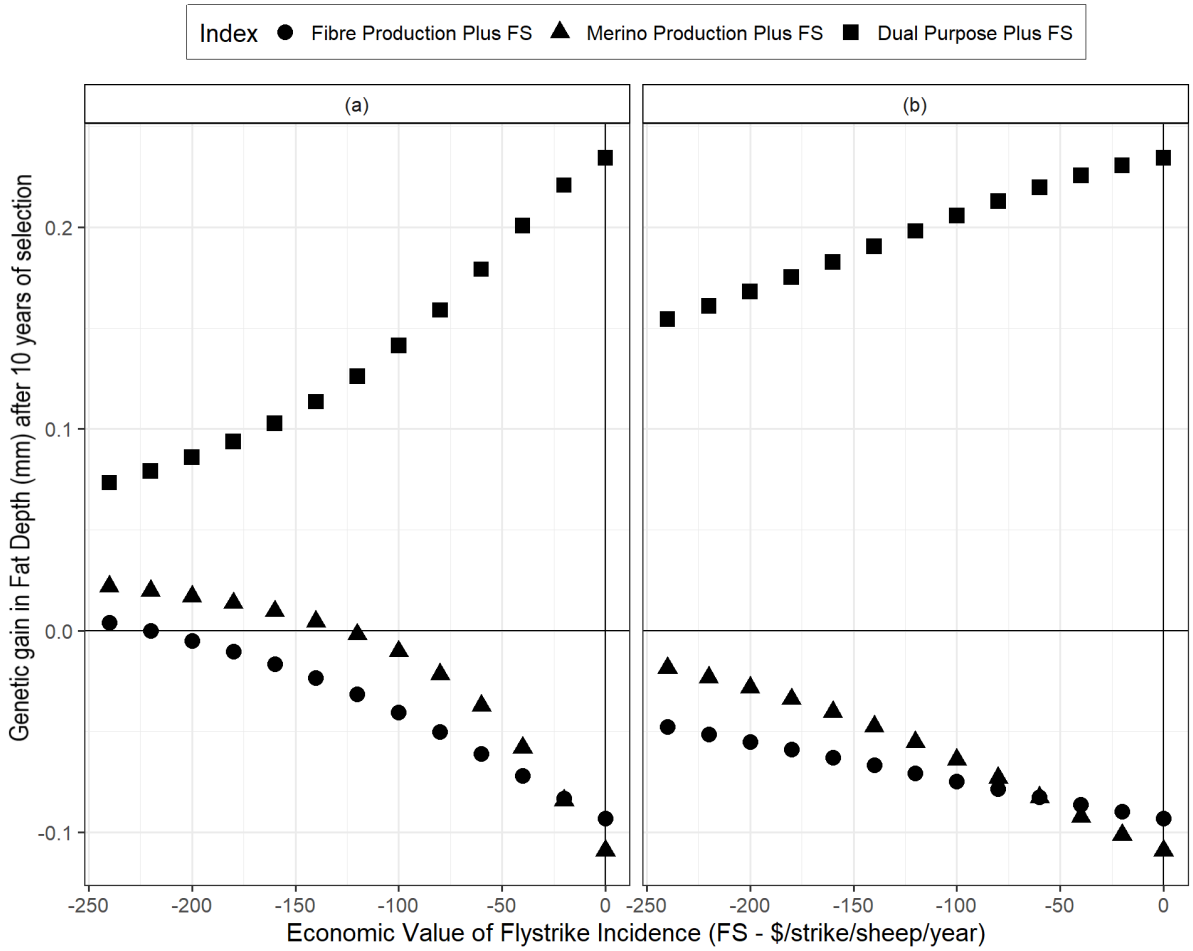

Figure S3. Predicted 10-year genetic gains in Fat Depth (mm) in response to index selection, plotted against economic values for Flystrike Incidence (FS - $/strike/sheep/year). Gains are shown for (a) moderate FS heritability and (b) low FS heritability for FS.