**S1 Text.**

**Estimation of WP50 using STATA, Part I**

‘MAT’ = maturation status, binary variable (0 = immature, 1 = mature)

‘WT’ = weight (g), continuous variable

‘GENE’ = broodline, categorical variable (0 = SEG, 1 = INT/FNDR)

‘BY’ = brood year, categorical variable

Brood years with only one broodline (BYs 1998-2001):

. logit MAT WT

. nlcom-\_b[\_cons]/\_b[WT]

Brood years with two broodlines (BYs 2002-2011; following example = BY 2002):

. logit MAT WT i.GENE if BY==2002

. nlcom -\_b[\_cons]/\_b[WT] (for GENE category coded as ‘0’)

. nlcom (-(\_b[\_cons]+\_b[1.GENE])/(\_b[WT])) (for GENE category coded as ‘1’)

**Estimation of WP50 using STATA, Part II**

‘MAT’ = maturation status, binary variable (0 = immature, 1 = mature)

‘WT’ = weight (g), continuous variable

‘GENE’ = broodline, categorical variable (0 = SEG 2, 1 = SEG 1, 2 = INT 0-1)

 . logit MAT WT i.GENE

. nlcom -\_b[\_cons]/\_b[AWT] (for GENE category coded as ‘0’)

. nlcom (-(\_b[\_cons]+\_b[1.GENE])/(\_b[WT])) (for GENE category coded as ‘1’)

. nlcom (-(\_b[\_cons]+\_b[2.GENE])/(\_b[WT])) (for GENE category coded as ‘2’)