## Supplementary material

### **Proportion of seeds initially assessed as surviving and aborted**

The proportion of seeds initially assessed as aborted and surviving without insect damage for each species was calculated as follows:

where *AI* is the proportion of aborted seeds without insect damage, *ASB* is the aborted seeds subsample and *ASI* is the aborted seeds with insect damage in the subsample;

where *SI* is the proportion of surviving seeds without insect damage, *SSB* is the surviving seeds subsample, *SSI* is the surviving seeds with insect damage in the subsample and *NV* is the proportion of non-viable surviving seeds with insect damage.

### **Proportion of seeds aborted, surviving and predated per tree**

1. *Proportion of seeds aborted per tree:*

where *PA* is the estimated proportion of seeds aborted per tree, *SA* is the sum of seeds initially assessed as aborted, *AI* is the proportion of seeds assessed as aborted without insect damage and *TS* is the total seeds assessed (aborted + predated + surviving);

1. *Proportion of seeds surviving per tree:*

where *PS* is the proportion of seeds surviving per tree, *SS* is the sum of seeds initially assessed as surviving, *SI* is the proportion of seeds assessed as surviving without insect damage and *TS* is the total seeds assessed;

1. *Proportion seeds predated per tree:*

where *PP* is the proportion of seeds predated per tree, *SP* is the sum of the seeds initially assessed as predated, *SS* is the sum of seeds initially assessed as surviving, *SWI* is the proportion of seeds assessed as surviving with insect damage (1 - *SI*), *SA* is the sum of seeds initially assessed as aborted, *AWI* is the proportion of seeds assessed as aborted with insect damage   
(1 - *AI*) and *TS* is the total seeds assessed.

### Total aborted, predated and surviving seeds per tree

where *A* is the total seeds aborted per tree, *p* is the estimated pods per tree, *s* is the average seeds per pod and *PA* is the proportion of aborted seeds per tree;

where *P* is the total seeds predated per tree, *p* is the estimated pods per tree, *s* is the average seeds per pod and *PP* is the proportion of predated seeds per tree;

where *S* is the total seeds surviving per tree, *p* is the estimated pods per tree, *s* is the average seeds per pod and *PS* is the proportion of surviving seeds per tree.