Table 1 Hurdle model for seed set and seed number for the full dataset including pollen type and self-compatibility of recipient species as predictor variable (SI: self-incompatible). The “zero-inflated” model is binomial with a logit link function, while the “conditional model” for the non-zero counts is a truncated negative binomial model with a log link function (“nbinom2” in glmmTMB). The variance for the binomial model is given by np(1-p) where n is the number of trials and p the probability of a zero, while the variance for the negative binomial model is given by mean(1-φ), where the dispersion parameter φ allows for a larger variance. By default, the zero-inflation model coefficients give the likelihood of a zero.

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| --- | --- | --- | --- | --- |
| **Response variable (n=1320)** | **Seed set (yes/no)** | | **Seed number** | |
| **Parameter** | **Estimate (SE)** | **p-value (>|z|)** | **Estimate (SE)** | **p-value (>|z|)** |
| Intercept (Type CP) | - 4.068 (1.301) | 0.002 | 0.6689 (1.363) | 0.624 |
| Type HP | 0.1479 (0.271) | 0.585 | 0.0003 (0.061) | 0.996 |
| Recipient SI | 3.9826 (2.031) | 0.050 | 1.4223 (1.422) | 0.516 |
| Type HP:Recipient SI | -0.2018 (0.413) | 0.625 | -0.1416 (-0.142) | 0.151 |
| **Random terms** | **SD** | | **SD** | |
| Pair ID (660) | 6.204 \* 10-10 | | 3.278 \* 10-11 | |
| Recipient species (8) | 6.870 | | 8.648 | |
| Treatment date (70) | 2.202 | | 6.951\* 10-1 | |
| Recipient individual ID (199) | -3.342 | | 1.325 \* 10-1 | |
| Donor individual ID (328) | 3.654204 \* 10-10 | | 1.291 \* 10-9 | |
| **Dispersion parameter :** 2.81 | |
| **AIC:** | 7631.2 | | | |