

Trait	Wild	Crop	Hybrid
Day 2 Pred	11.3 (19.3)	1.3 (2.5)	6.2 (11.6)
Day 4 Pred	25.0 (18.3)	12.5 (22.8)	23.9 (28.9)
Day 6 Pred	47.5 (38.0)	45.0 (50.2)	38.1 (34.3)
Mass (g)*	1.1	5.3	2.2 (0.7)
Area (cm ²)	11.0 (1.5)	51.5 (10.1)	18.1 (4.5)
Shape	1.9 (0.1)	1.7 (0.2)	2.1 (0.3)
Luminosity	105.9 (18.6)	54.3 (7.1)	75.0 (28.9)
Ash*	27.0	39.0	33.2 (7.8)
Fiber*	505.0	196.0	363.4 (72.6)
Protein*	213.0	215.0	237.5 (26.5)
Carbohydrates*	0.0	130.0	39.9 (41.7)
Oil*	267.0	392.0	297.8 (59.1)
Energy (kcal)*	3461.1	5166.7	4142.9 (523.1)

Table S1. Means and standard deviations (SD) of seed predation and seed characters in the wild, crop, and hybrid recombinant inbred lines (RILs). Seed predation indicates the percentage of seeds removed after 2, 4, and 6 days in the field. Nutritional characters are in g/kg unless otherwise specified. Shape is a proportion (seed length/seed width). Luminosity is a relative value based on the darkness (0) to lightness (100) of color. *A single sample was analyzed for the nutritional characters in each line (wild, crop, and each RIL); thus, for these traits, SD is calculated among all RILs in the hybrids and there is no SD for the wild and crop lines.