

1. **Supplementary Table 1.** List of ten parents along with their 45 half-diallel crosses

S. No.	Genotypes	S. No.	Genotypes
Parents			
1	PANT P-347	6	VL-47
2	PANT P-200	7	IPF 14-13
3	RFP 2009-2	8	IPF 14-16
4	IPFD 18-14	9	RILHE2
5	PANT P-243	10	HFP 1802
Crosses			
1	Pant P-347 × Pant P-200	24	RFP 2009-2 × HFP 1802
2	Pant P-347 × RFP 2009-2	25	IPFD 18-14 × Pant P -243
3	Pant P-347 × IPFD 18-14	26	IPFD 18-14 × VL-47
4	Pant P-347 × PANT P-243	27	IPFD 18-14 × IPF 14-16
5	Pant P-347 × VL-47	28	IPFD 18-14 × IPF 14-13
6	Pant P-347 × IPF 14-16	29	IPFD 18-14 × RILHE2
7	Pant P-347 × IPF 14-13	30	IPFD 18-14 × HFP 1802
8	Pant P-347 × RILHE2	31	Pant P -243 × VL-47
9	Pant P-347 × HFP 1802	32	Pant P -243 × IPF 14-13
10	Pant P-200 × RFP 2009-2	33	Pant P -243 × IPF 14-16
11	Pant P-200 × IPFD 18-14	34	Pant P -243 × RILHE2
12	Pant P-200 × Pant P -243	35	Pant P -243 × HFP 1802
13	Pant P-200 × VL-47	36	VL-47 × IPF 14-13
14	Pant P-200 × IPF 14-16	37	VL-47 × IPF 14-16
15	Pant P-200 × IPF 14-13	38	VL-47 × RILHE2
16	Pant P-200 × RILHE2	39	VL-47 × HFP 1802
17	Pant P-200 × HFP 1802	40	IPF 14-13 × IPF 14-16
18	RFP 2009-2 × IPFD 18-14	41	IPF 14-13 × RILHE2
19	RFP 2009-2 × Pant P -243	42	IPF 14-13 × HFP1802
20	RFP 2009-2 × VL-47	43	IPF 14-16 × RILHE2
21	RFP 2009-2 × IPF 14-16	44	IPF 14-16 × HFP1802

22	RFP 2009-2 × IPF 14-13	45	RILHE2 × HFP 1802
23	RFP 2009-2 × RILHE2		