

Table S1. Analysis of variance and mean comparisons for plant height (PH), plant canopy width (PCW), PH/PCW ratio and plant visual quality of 34 chili pepper accessions grown into different pot dimensions.

Treatments	PH (cm)	PCW (cm)	PH/PCW ratio	Plant visual quality (1-9)
<i>Pot diameter (cm)</i>				
10	13.1 c	18.5 c	1.04 a	3.1 b
14	24.6 b	28.0 b	0.88 b	6.2 a
18	30.2 a	39.7 a	0.77 c	6.3 a
20	31.2 a	39.7 a	0.79 c	5.7 a
<i>Accession</i>				
A1	27.2 bc	27.2 b	1.02 ab	5.8 ab
A2	18.5 c	24.2 b	0.78 bc	6.0 ab
A3	35.6 ab	40.0 ab	0.92 bc	5.7 ab
A4	30.8 ab	28.3 ab	1.17 ab	3.7 b
A5	38.8 ab	35.5 ab	1.12 ab	3.3 b
A6	15.8 c	23.9 b	0.68 c	4.1 b
A7	29.8 ab	31.2 ab	0.97 b	5.1 ab
A8	18.5 c	28.5 ab	0.67 c	5.6 ab
A9	26.0 bc	26.5 b	1.02 b	5.0 ab
A10	31.4 ab	35.3 ab	0.94 bc	4.3 b
A11	29.5 bc	21.1 ab	0.93 bc	4.9 ab
A12	23.0 bc	26.9 b	0.88 bc	5.7 ab
A13	39.5 a	44.5 ab	0.94 bc	4.0 b
A14	20.7 bc	27.0 b	0.82 bc	4.9 ab
A15	24.2 bc	39.4 ab	0.66 c	5.1 ab
A16	19.6 c	29.1 ab	0.71 c	5.9 ab
A17	28.3 bc	42.9 ab	0.70 c	5.7 ab
A18	29.5 bc	24.0 b	1.27 ab	4.9 ab
A19	28.8 bc	29.5 ab	0.99 b	5.6 ab
A20	17.6 c	26.8 b	0.69 c	4.4 b
A21	18.5 c	31.8 ab	0.65 c	6.7 ab
A22	30.4 ab	40.0 ab	0.79 bc	6.1 ab
A23	29.9 ab	28.2 ab	1.08 ab	5.8 ab
A24	20.0 bc	26.5 b	0.77 bc	5.3 ab
A25	27.1 bc	28.5 ab	0.95 bc	5.0 ab
A26	24.4 bc	28.9 ab	0.86 bc	6.0 ab
A27	25.2 bc	37.7 ab	0.69 c	5.4 ab
A28	30.5 ab	33.1 ab	0.95 bc	4.3 b
A29	21.1 bc	33.5 ab	0.65 c	7.4 a
A30	19.3 c	24.8 b	0.82 bc	3.7 b
A31	30.7 ab	30.3 ab	1.06 ab	5.9 ab
A32	22.9 bc	35.1 ab	0.66 c	6.4 ab
A33	34.5 ab	40.3 ab	0.89 bc	6.7 ab
A34	25.2 b	28.7 ab	0.91 bc	6.4 ab
<i>Significance</i>				
Pot (P)	**	**	**	**
Accession (A)	**	**	**	**
P × A	**	**	**	**

Data within a column followed by the same letter are not significantly different at $p \leq 0.05$ according to Tukey HSD Test. The significance is designated by asterisks as follows: **, statistically significant differences at p -value below 0.01.

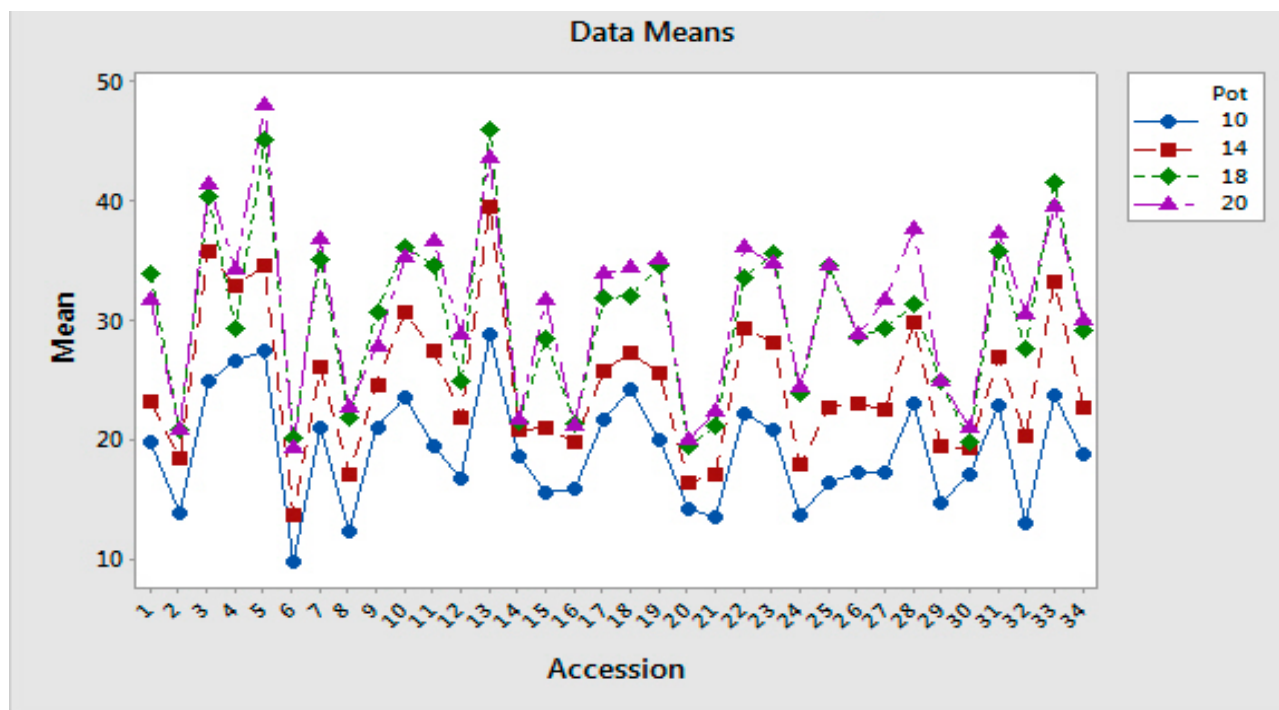


Figure S1. Interaction pot diameter $\times$ accession for PH.

1 = accession A1; 2 = accession A2; 3 = accession A3; 4 = accession A4; 5 = accession A5; 6 = accession A6; 7 = accession A7; 8 = accession A8; 9 = accession A9; 10 = accession A10; 11 = accession A11; 12 = accession A12; 13 = accession A13; 14 = accession A14; 15 = accession A15; 16 = accession A16; 17 = accession A17; 18 = accession A18; 19 = accession A19; 20 = accession A20; 21 = accession A21; 22 = accession A22; 23 = accession A23; 24 = accession A24; 25 = accession A25; 26 = accession A26; 27 = accession A27; 28 = accession A28; 29 = accession A29; 30 = accession A30; 31 = accession A31; 32 = accession A32; 33 = accession A33; 34 = accession A34.

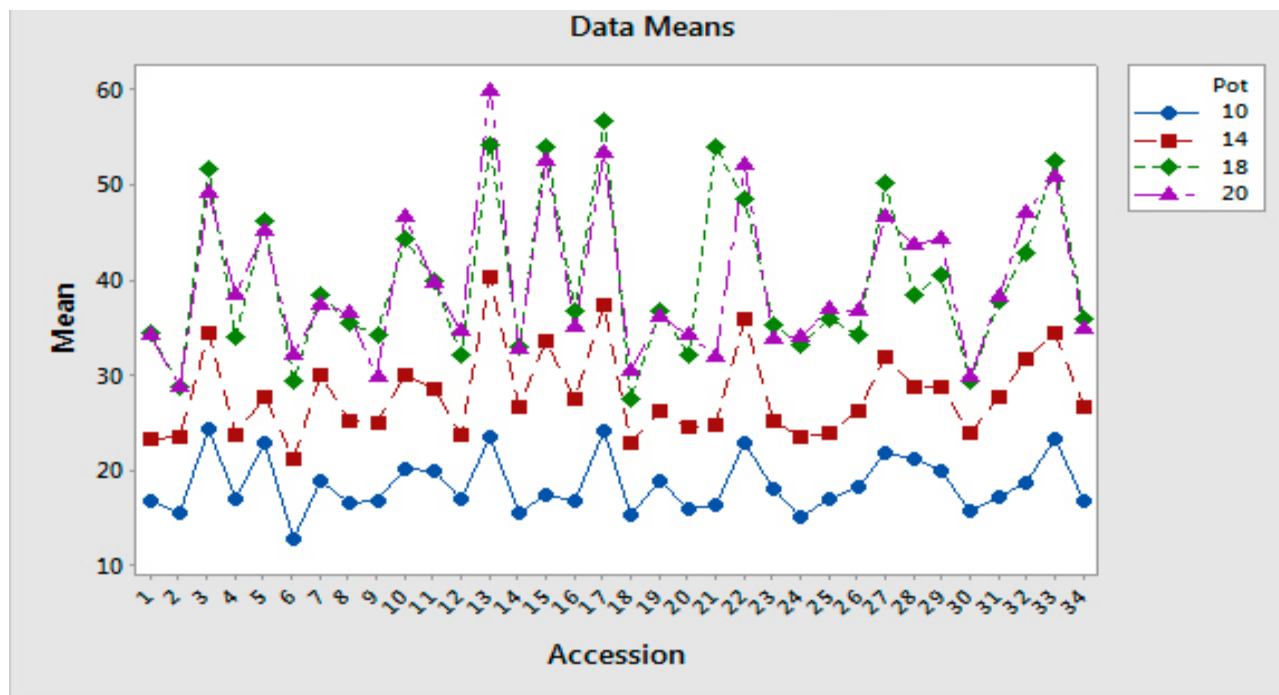


Figure S2. Interaction pot diameter $\times$ accession for PCW.

1 = accession A1; 2 = accession A2; 3 = accession A3; 4 = accession A4; 5 = accession A5; 6 = accession A6; 7 = accession A7; 8 = accession A8; 9 = accession A9; 10 = accession A10; 11 = accession A11; 12 = accession A12; 13 = accession A13; 14 = accession A14; 15 = accession A15; 16 = accession A16; 17 = accession A17; 18 = accession A18; 19 = accession A19; 20 = accession A20; 21 = accession A21; 22 = accession A22; 23 = accession A23; 24 = accession A24; 25 = accession A25; 26 = accession A26; 27 = accession A27; 28 = accession A28; 29 = accession A29; 30 = accession A30; 31 = accession A31; 32 = accession A32; 33 = accession A33; 34 = accession A34.

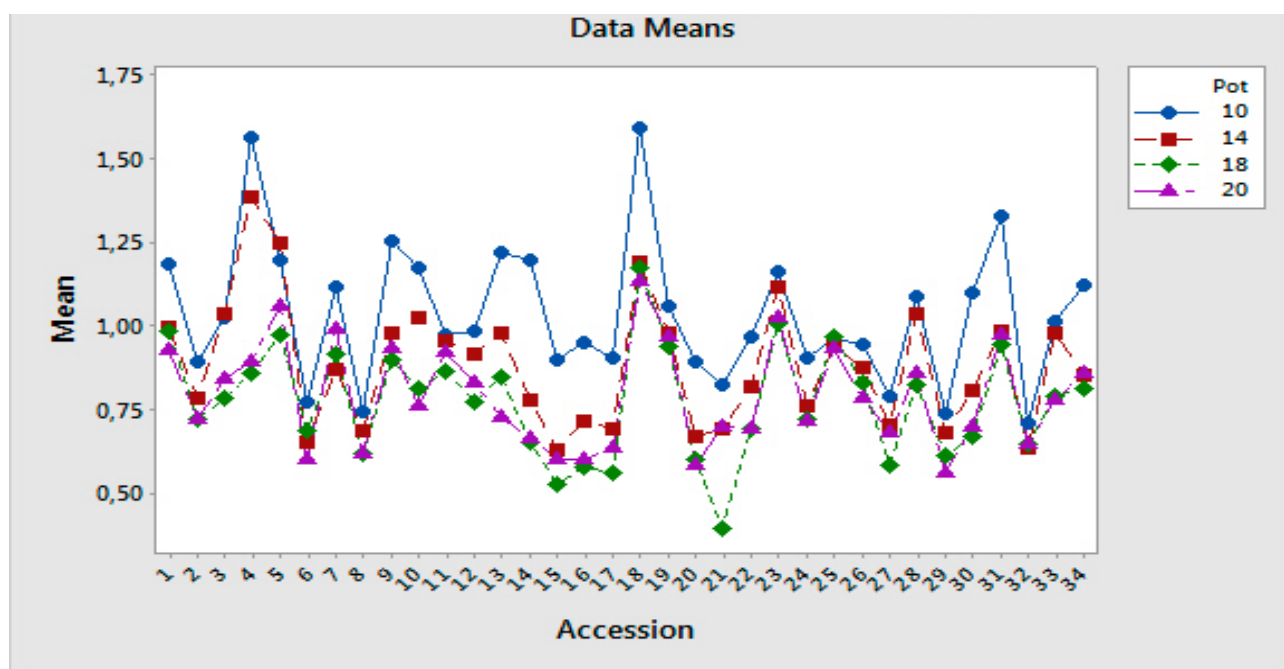


Figure S3. Interaction pot diameter $\times$ accession for PH/PCW.

1 = accession A1; 2 = accession A2; 3 = accession A3; 4 = accession A4; 5 = accession A5; 6 = accession A6; 7 = accession A7; 8 = accession A8; 9 = accession A9; 10 = accession A10; 11 = accession A11; 12 = accession A12; 13 = accession A13; 14 = accession A14; 15 = accession A15; 16 = accession A16; 17 = accession A17; 18 = accession A18; 19 = accession A19; 20 = accession A20; 21 = accession A21; 22 = accession A22; 23 = accession A23; 24 = accession A24; 25 = accession A25; 26 = accession A26; 27 = accession A27; 28 = accession A28; 29 = accession A29; 30 = accession A30; 31 = accession A31; 32 = accession A32 ; 33 = accession A33; 34 = accession A34.

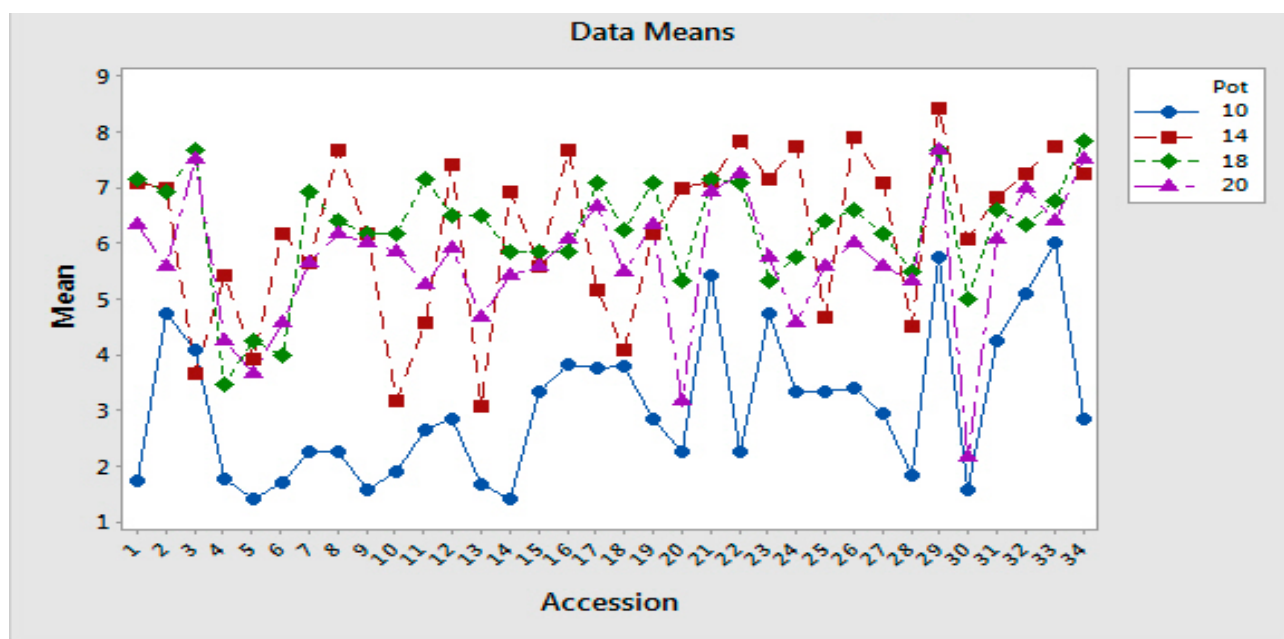


Figure S4. Interaction pot diameter $\times$ accession for plant visual quality.

1 = accession A1; 2 = accession A2; 3 = accession A3; 4 = accession A4; 5 = accession A5; 6 = accession A6; 7 = accession A7; 8 = accession A8; 9 = accession A9; 10 = accession A10; 11 = accession A11; 12 = accession A12; 13 = accession A13; 14 = accession A14; 15 = accession A15; 16 = accession A16; 17 = accession A17; 18 = accession A18; 19 = accession A19; 20 = accession A20; 21 = accession A21; 22 = accession A22; 23 = accession A23; 24 = accession A24; 25 = accession A25; 26 = accession A26; 27 = accession A27; 28 = accession A28; 29 = accession A29; 30 = accession A30; 31 = accession A31; 32 = accession A32 ; 33 = accession A33; 34 = accession A34.

Table S2. Significance of two-way ANOVA analysis.

Source of variance	Accession (A)	Year (Y)	A × Y
PH	*	***	***
PCW	***	***	***
PH/PCW	***	***	***
Fruit number	***	***	***
Plant visual quality	***	***	***
First flower emission	***	***	**
Fruiting start	***	***	*
End of harvest	***	***	NS
Fruit length	***	NS	NS
Fruit width	***	NS	NS
Plant growth habit	***	NS	NS
Fruit colour at mature stage	***	NS	NS
Fruit shape	***	NS	NS

The significance is designated by asterisks as follows: ***, statistically significant differences at *p*-value below 0.001; **, statistically significant differences at *p*-value below 0.01; *, statistically significant differences at *p*-value below 0.05; NS, not significant

Table S3. Effect of accessions and year on PH, PCW, PH/PCW, fruit number, plant visual quality, fruit flower emission and fruiting start.

Accessions	PH (cm)	PCW (cm)	PH/PCW	Fruit number	Plant visual quality (1-9)	First flower emission (DAT)	Fruiting start (DAT)
A1 × 2016	34.00 cd	34.50 gh	0.99 c	132.47 q	7.17 c	35.67 g	42.00 k
A2 × 2016	20.83 hi	28.75 ij	0.72 f	109.75 r	6.92 cd	37.67 e	48.33 e
A6 × 2016	20.17 hi	29.50 ij	0.69 fg	104.03 rs	4.00 h	39.67 d	50.33 cd
A8 × 2016	21.92 gh	35.50 g	0.62 g	78.43 t	6.42 de	40.67 c	48.67 d
A12 × 2016	24.83 fg	32.25 hi	0.77 ef	265.60 k	6.50 de	31.67 k	39.00 m
A14 × 2016	21.58 h	32.92 hi	0.65 fg	138.87 q	5.83 f	40.00 d	51.00 c
A15 × 2016	28.42 ef	54.00 b	0.53 h	345.63 i	5.83 f	29.67 m	37.67 n
A16 × 2016	21.33 h	36.83 fg	0.58 gh	325.40 j	5.83 f	35.00 h	40.67 l
A17 × 2016	31.83 d	56.67 a	0.56 gh	113.07 r	7.08 c	40.67 c	53.33 b
A18 × 2016	32.08 d	27.50 j	1.17 b	350.33 i	6.25 e	43.00 a	53.67 ab
A21 × 2016	33.67 cd	48.67 c	0.69 fg	225.37 m	7.08 c	37.67 e	48.33 e
A22 × 2016	23.92 g	33.17 h	0.72 f	428.07 h	5.75 f	42.33 b	50.67 cd
A24 × 2016	34.67 c	35.92 g	0.97 cd	245.93 l	6.42 de	35.00 h	43.67 i
A25 × 2016	29.33 e	50.17 c	0.58 gh	963.63 a	6.17 ef	42.33 b	54.33 a
A27 × 2016	25.00 fg	40.67 ef	0.62 g	621.40 e	7.67 b	43.33 a	53.33 b
A29 × 2016	27.67 ef	42.83 e	0.65 fg	833.97 b	6.33 e	31.33 l	37.67 n
A32 × 2016	41.58 a	52.50 b	0.79 ef	793.70 c	6.75 d	36.67 f	52.67 b
A33 × 2016	29.17 e	35.92 g	0.81 e	224.03 m	7.83 b	36.00 g	47.33 f
G1 × 2016	21.17 hi	54.00 b	0.39 i	273.23 k	7.17 c	39.00 d	48.67 d
A1 × 2017	33.75 cd	34.58 gh	0.98 c	97.69 s	5.50 f	33.00 j	38.67 m
A2 × 2017	22.17 gh	26.83 jk	0.83 de	81.65 t	6.58 de	34.33 i	44.33 i
A6 × 2017	12.97 j	21.81 l	0.59 gh	76.69 tu	5.00 g	36.00 g	47.00 fg
A8 × 2017	22.67 gh	32.58 hi	0.70 f	64.91 u	5.08 g	38.00 e	43.33 j
A12 × 2017	31.42 de	27.83 j	1.13 b	197.54 no	7.17 c	29.00 n	36.00 o
A14 × 2017	27.25 ef	29.50 ij	0.93 cd	102.40 rs	6.00 ef	37.00 e	46.33 g
A15 × 2017	31.83 d	38.83 f	0.82 e	252.56 l	7.58 b	27.00 p	34.67 p
A16 × 2017	23.75 g	30.75 ij	0.77 ef	241.72 l	8.17 ab	32.00 k	36.67 o
A17 × 2017	34.92 c	49.17 c	0.71 f	84.47 t	6.17 ef	38.00 e	49.33 d
A18 × 2017	39.25 b	26.33 jk	1.49 a	262.75 kl	4.58 g	40.00 d	50.67 cd
A21 × 2017	38.33 b	45.25 d	0.85 de	162.36 p	7.50 bc	34.67 h	45.33 h
A22 × 2017	23.83 g	31.33 hi	0.76 ef	317.38 j	7.58 b	39.00 d	47.33 f
A24 × 2017	26.83 f	26.83 jk	1.00 c	187.78 o	6.58 de	32.00 k	41.33 kl
A25 × 2017	26.50 f	38.67 f	0.68 fg	722.73 d	8.42 a	40.00 d	50.67 cd
A27 × 2017	26.58 f	33.67 gh	0.79 ef	474.54 g	7.75 b	39.00 d	48.67 d
A29 × 2017	27.50 ef	39.08 f	0.71 f	618.81 e	8.42 a	27.67 o	34.67 p
A32 × 2017	38.92 b	43.42 de	0.90 d	601.94 f	7.75 b	34.00 i	50.00 d
A33 × 2017	30.33 de	34.75 gh	0.88 de	161.36 p	6.50 de	33.00 j	45.00 h
G1 × 2017	19.17 i	24.58 k	0.78 ef	204.26 n	7.17 c	35.67 g	46.00 g

Data within a column followed by the same letter are not significantly different at $p \leq 0.05$ according to Tukey HSD Test.