

Supplementary Table 1. The information of chili and bell pepper accessions for evaluating agronomical traits under night low temperature in winter 2020-2021.

Fruit type	Field name	Given number	Species	Original name
Chili pepper	20LT01	C01	<i>Capsicum annuum L.</i>	Kobra
	20LT02	C02	<i>Capsicum annuum L.</i>	Bekesi tf.
	20LT03	C03	<i>Capsicum annuum L.</i>	16HT9
	20LT04	C04	<i>Capsicum annuum L.</i>	16HT7
	20LT05	C05	<i>Capsicum annuum L.</i>	Local ladozhskiy
	20LT07	C06	<i>Capsicum annuum L.</i>	16HT1
	20LT08	C07	<i>Capsicum annuum L.</i>	AVPP1248
	20LT09	C08	<i>Capsicum annuum L.</i>	AVPP1249
	20LT10	C09	<i>Capsicum annuum L.</i>	Yeongyang haneulcho
	20LT11	C10	<i>Capsicum annuum L.</i>	Jeonbunksunchang-1985-gochu102827
	20LT12	C11	<i>Capsicum annuum L.</i>	Jeonbukimsil-1985-gochu105233
	20LT13	C12	<i>Capsicum annuum L.</i>	Monori tf.
	20LT14	C13	<i>Capsicum annuum L.</i>	BGH 1806
	20LT16	C14	<i>Capsicum annuum L.</i>	Ardei Lung Plovdiv
	20LT19	C15	<i>Capsicum annuum L.</i>	Mie-Midori
	20LT27	C16	<i>Capsicum annuum L.</i>	Bandung Jaelaejong
	20LT28	C17	<i>Capsicum annuum L.</i>	NIKAR
	20LT29	C18	<i>Capsicum annuum L.</i>	256
	20LT30	C19	<i>Capsicum annuum L.</i>	N2
	20LT31	C20	<i>Capsicum annuum L.</i>	N32
	20LT32	C21	<i>Capsicum annuum L.</i>	Kukon
	20LT36	C22	<i>Capsicum annuum L.</i>	NW Bigarim
	20LT37	C23	<i>Capsicum annuum L.</i>	Bigstar
	20LT38	C24	<i>Capsicum annuum L.</i>	Noggwang
	20LT39	C25	<i>Capsicum annuum L.</i>	Cheongyang
	20LT40	C26	<i>Capsicum annuum L.</i>	Kalcho
	20LT41	C27	<i>Capsicum annuum L.</i>	Samcheok Jaelae
Bell pepper (Paprika)	20LT06	P01	<i>Capsicum annuum L.</i>	Vanity
	20LT15	P02	<i>Capsicum annuum L.</i>	Sredneaziatskiy sladkiy
	20LT17	P03	<i>Capsicum annuum L.</i>	Beliy krugliy
	20LT20	P04	<i>Capsicum annuum L.</i>	Sweet chocolate
	20LT21	P05	<i>Capsicum annuum L.</i>	Urias Dulce
	20LT23	P06	<i>Capsicum annuum L.</i>	Dar Tashkenta
	20LT24	P07	<i>Capsicum annuum L.</i>	Krupnoplodniy udlinennokonicheskiy
	20LT25	P08	<i>Capsicum annuum L.</i>	Desi
	20LT33	P09	<i>Capsicum annuum L.</i>	Bogatyir
	20LT34	P10	<i>Capsicum annuum L.</i>	Macho
	20LT35	P11	<i>Capsicum annuum L.</i>	Gourmet F1
	20LT42	P12	<i>Capsicum annuum L.</i>	Zheltyy

Supplementary Table 2. Loading matrix associated with the principal components analysis (PCA) for 10 agronomical traits.

Value	PC1	PC2	PC3	PC4	PC5	PC6	PC7	PC8	PC9	PC10
Eigenvalue	4.663	1.913	1.136	.897	.602	.378	.188	.106	.086	.030
Variability (%)	46.635	19.134	11.363	8.970	6.017	3.777	1.876	1.065	.859	.305
Cumulative (%)	46.635	65.769	77.132	86.102	92.118	95.895	97.771	98.836	99.695	100.000
Component loading										
FL	.885	.196	.205	.196	.058	.161	.048	.253	.021	-.051
FD	.878	.327	.034	.253	.040	.063	.052	-.212	.022	-.053
FW	.791	.573	-.009	.105	.042	-.019	.010	-.052	-.031	.171
FY	.318	.914	.001	.068	.178	-.075	.013	.005	-.147	-.014
NFR	.386	.815	.238	.220	.084	-.014	.045	.008	.270	-.013
PH	.062	.078	.964	-.001	.158	.184	-.040	.010	.013	-.003
SD	.154	.087	.737	.232	-.100	.171	.577	.002	.006	.000
NFL	.297	.164	.080	.929	.007	.103	.067	.002	.009	.001
LMA	.059	.162	.096	.006	.967	.157	-.026	.001	.002	.000
NSF	.108	-.075	.241	.099	.170	.940	.048	.005	.002	-.002