



Supplementary Figure S1. Climate charts. Average maximum (red line) and minimum (blue line) monthly temperature (dashed lines) in °C and monthly rainfall (continuous grey line) in mm during 2019 and 2020.

Supplementary Table S1. Pomegranate accession collection available at the experimental station of ICAR-Central Institute for Arid Horticulture (Bikaner, India) and their source of collection.

Accession	Source*
A K Anar	MPKV
Achik Dana	NBPGR-JR
Agah	MPKV
AHPG-C1	CIAH-BR
AHPG-C3	CIAH-BR
AHPG-C4	CIAH-BR
AHPG-H1	CIAH-BR
AHPG-H2	CIAH-BR
AHPG-H3	CIAH-BR
AHPG-H4	NBPGR-ND
Alah	MPKV
Banaras collect.	BHU
Basin Seedless	CAZRI
Basin Seedling	RBS
Bedana Sedana	NBPGR-ND
Bedana Suri	MPKV
Bedana Thin Skin	MPKV
Bhagwa Boseka Link	MPKV
Coimb. White	MPKV
Crenedo de Elecho	MPKV
Dholka	MPKV
Dorsata Malus	MPKV
EC-12613	NBPGR-ND
EC-62812	NBPGR-ND
G-137	MPKV
Ganesh	MPKV
GKVK-1	CAZRI
Goma Khatta	CIAH-VJ
Gul e Shah	MPKV
Gul e Shah Red	MPKV
Gul e Shah Rose Pink	MPKV
Gulsa Red	MPKV
HP Collec.	Shimala
IC-318712	NRCP
IIHR 12/1	IIHR
IIHR 19/10	IIHR
Jalore Red	CAZRI
Jalore Seedless	CAZRI
Jodhpur coll.	CAZRI
Jodhpur Red	CAZRI
Jyoti	MPKV
Kabul	MPKV
Kabul Kohinoor	MPKV

Kajaki Anar	RBS
Kalisirin	NBPGR-ND
Kandhari	CCSHAU
Khog	NBPGR-ND
Kurvi	NBPGR-JR
Malta	MPKV
MR 599	NBPGR-ND
Mridula	MPKV
Muskat	MPKV
P-13	MPKV
P-21	MPKV
P-23	MPKV
P-26	MPKV
Patna-5	MPKV
Phule Arakta	MPKV
Ruby	IIHR
Saharanpur	RBS
Saih Sirin	MPKV
Sirin	NBPGR-ND
Speen Danedar	MPKV
Speen Sacarin	MPKV
Sur Sukker	MPKV
Surat Anar	MPKV
Surkh Anar	MPKV
Tebest	MPKV
Tujetis EC 4347	NBPGR-JR
Uthkal	MPKV
Yercaud	MPKV
Yercaud Local	MPKV

* BHU: Banaras Hindu University; Varanashi, Uttar Pradesh. CAZRI: Central Arid Zone Research Institute (ICAR); Jodhpur, Rajasthan. CIAH-BR: Central Institute for Arid Horticulture (ICAR); Bikaner, Rajasthan. CIAH-VR: Central Institute for Arid Horticulture (ICAR); Central Horticultural Experiment Station, Vejalpur, Gujarat. CSAU: Chaudhary Charan Singh Haryana Agricultural University; Hisar, Haryana. IIHR: Indian Institute of Horticultural Research (ICAR); Bengaluru, Karnataka. MPKV: Mahatma Phule Krishi Vidyapeeth; Rahuri, Maharashtra. NBPGR: National Bureau of Plant Genetic Resources (ICAR); New Delhi. NBPGR-JR: National Bureau of Plant Genetic Resources (ICAR); Jodhpur, Rajasthan. NRCP: National Research Centre on Pomegranate (ICAR); Solapur, Maharashtra. RBS: Raja Balwant Singh College; Agra, Uttar Pradesh. Shimla, Himachal Pradesh.

Supplementary Table S2. Two-way analysis of variance for the percentage of infested leaves.

Source of variation	df	Sum of squares	Mean squares	F value	P value
Growing season (GS)	1	15	14.7	4.193	0.0436*
Accession (A)	21	34003	1619.2	462.875	<0.001***
GS × A	21	6	0.3	0.085	>0.05
Residuals	88	308	3.5		