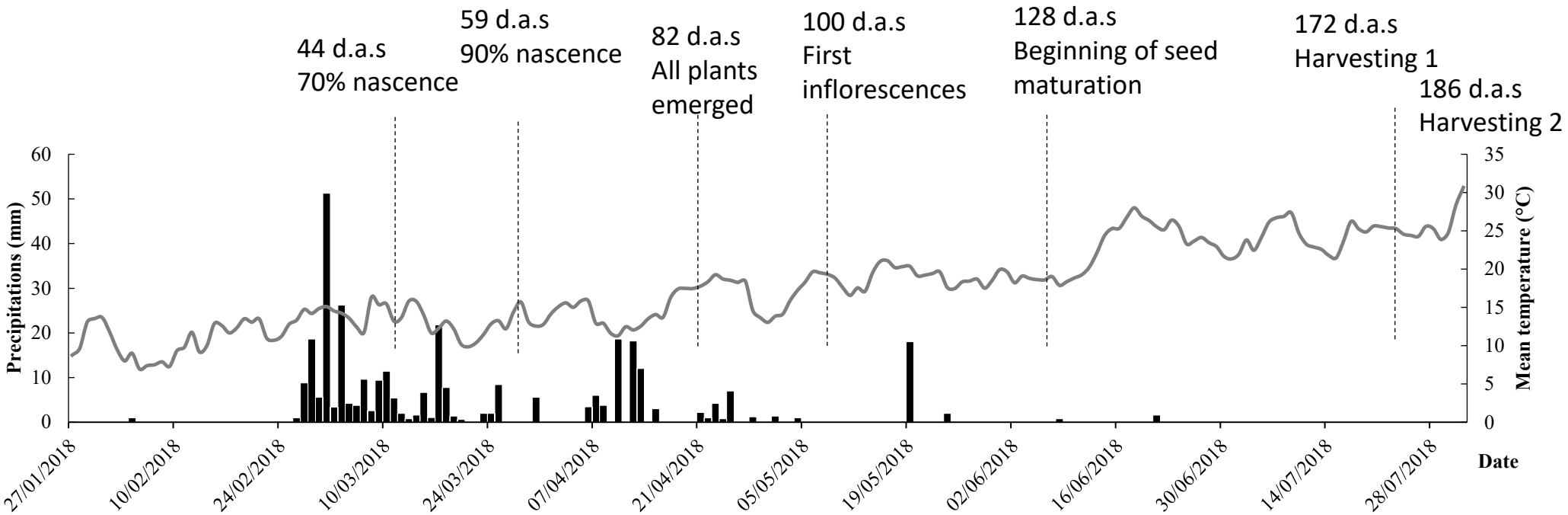
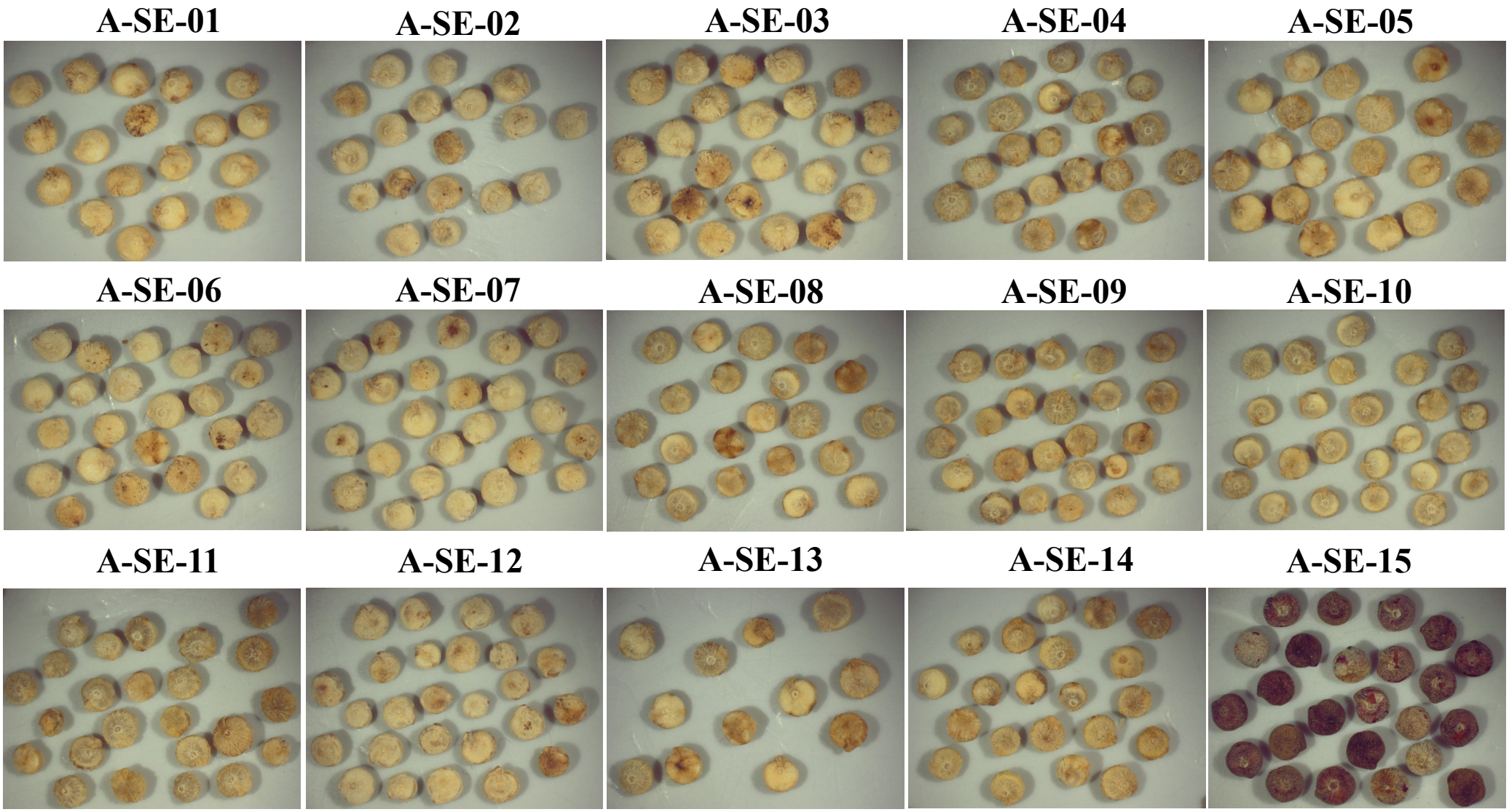
Supplementary Fig. 1



Supplementary Fig. 2



	Plant Height (82das)	Plant Height (100das)	Plant Height (128das)	Panicle Height	Panicle Biomass	Mildew damage (82das)	Mildew damage (100das)	Mildew damage (128das)	Lodging	Life Cycle	Biomass	Yield	Viability	Germination rate	Seed Area	Seed Weight	Saponin Content	Nitrogen	Protein	C/N	Ash	P	K	Ca	Mg	Na	Fe	Mn	Cu	Zn	FRAP	TPC	TFC
Plant Height (82das)	1.000																																
Plant Height (100das)	0.957	1.000																															
Plant Height (128das)			1.000																														
Panicle Height				1.000																													
Panicle Biomass				0.654	1.000																												
Mildew damage (82das)				0.451		1.000																											
Mildew damage (100das)						0.841	1.000																										
Mildew damage (128das)				0.461	0.510			1.000																									
Lodging									1.000																								
Life Cycle										1.000																							
Biomass	-0.531	-0.540		0.466	0.592						1.000																						
Yield		-0.442		0.486	0.758					0.509	0.750	1.000																					
Viability													1.000																				
Germination rate	-0.646	-0.691		0.560	0.597			0.456		.466	0.584	0.539	0.444	1.000																			
Seed Area	.697	0.675	0.449											-.507	1.000																		
Seed Weight															.748	1.000																	
Saponin Content				0.655									0.600	0.613			1.000																
Nitrogen	-0.441	-0.444			0.471									0.801			0.695	1.000															
Protein	-0.441	-0.444			0.471									0.801			0.695	1.000	1.000														
C/N	0.458	0.457			-0.477			-0.456						-0.802			-0.655	-0.983	-0.983	1.000													
Ash																					1.000												
P			0.443						0.501					0.580				0.846	0.846	-0.860		1.000											
K																0.487					0.851		1.000										
Ca								-0.593														-0.484		1.000									
Mg		-0.452								0.476			0.441	0.525				0.555	0.555	-0.556		0.552			1.000								
Na			-0.519					-0.447										-0.469	-0.469	0.466		-0.668		0.653		1.000							
Fe																-0.522											1.000						
Mn																								-0.699				1.000					
Cu																0.590								-0.791		-0.637	-0.483		1.000				
Zn									0.654							0.513		0.635	0.635	-0.616		0.728				-0.484			0.519	1.000			
FRAP													0.645	0.488				0.446	0.446		-0.540		-0.456						0.478		1.000		
TPC	-0.637	-0.685		0.780	0.579					0.452	0.599	0.527	0.480	0.884	-0.505			0.625	0.625	-0.646					0.444						0.490	1.000	
TFC													0.477	0.563			0.698												0.481	0.448	0.836	0.596	1.000