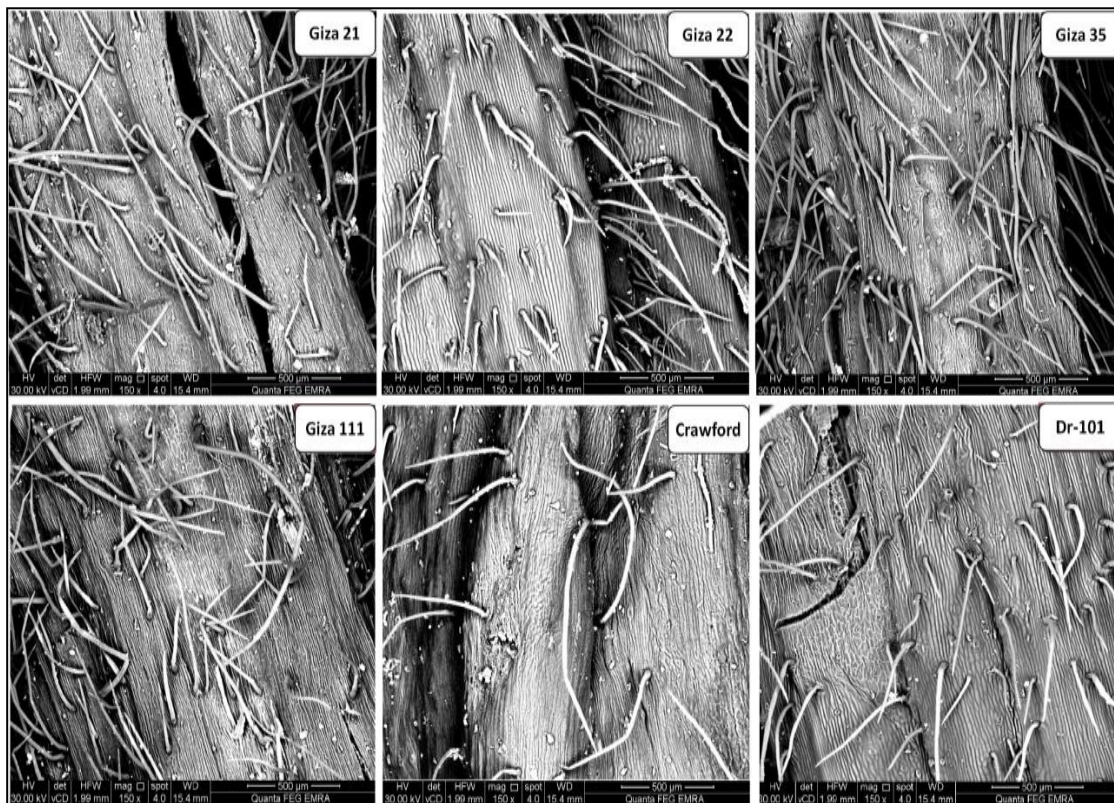


Month	Solar radiation (MJ/m ² /day)			Maximum temperature (°C)			Relative humidity (%)		
	mid-May	beginning of June	mid-June	mid-May	beginning of June	mid-June	mid-May	beginning of June	mid-June
First season									
May	26.9	--	--	35.2	--	--	40.9	--	--
June	28.9	28.9	29.6	36.5	36.5	37.6	41.5	41.5	42.0
July	27.9	27.9	27.9	38.8	38.8	38.8	42.9	42.9	42.9
August	26.4	26.4	26.4	38.8	38.8	38.8	45.3	45.3	45.3
Sep.	24.5	24.5	24.5	38.5	38.5	38.5	47.8	47.8	47.8
Oct.	18.7	18.7	18.7	33.3	33.3	33.3	57.2	57.2	57.2
Nov.	16.1	16.1	16.1	27.2	27.2	27.2	57.6	57.6	57.6
Mean	24.2	23.7	23.9	35.5	35.5	35.7	47.6	48.7	48.8
Second season									
May	28.5	--	--	35.3	--	--	41.0	--	--
June	29.2	29.2	29.9	36.8	36.8	37.2	41.4	41.4	41.8
July	28.0	28.0	28.0	39.2	39.2	39.2	41.1	41.1	41.1
August	25.9	25.9	25.9	39.7	39.7	39.7	42.8	42.8	42.8
Sep.	22.6	22.6	22.6	35.9	35.9	35.9	50.9	50.9	50.9
Oct.	18.4	18.4	18.4	31.5	31.5	31.5	55.1	55.1	55.1
Nov.	15.3	15.3	15.3	25.8	25.8	25.8	55.3	55.3	55.3
Mean	24.0	23.2	23.4	34.8	34.8	34.9	46.8	47.8	47.8

Meteorological data of solar radiation, maximum temperature, and relative humidity

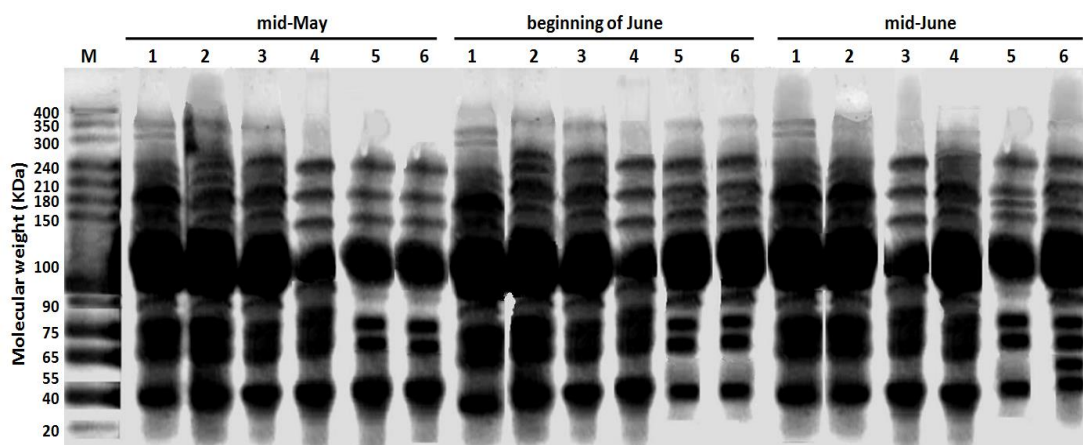


Different types of pubescence density on stem longitudinal section of six soybean varieties at 500 μm

Soybean variety	Stem pubescence length (μm)	Number of stem pubescence /500 μm	Stem pubescence density
Giza 21	526	184	dense
Giza 22	504	72	normal
Giza 35	482	232	dense
Giza 111	512	163	dense
Crawford	595	17	sparse
Dr-101	477	36	normal
LSD 0.05	68.08	49.16	---

Different types of pubescence density on stem longitudinal section of six soybean varieties at 500 μm

Planting date	Soybean variety	Stem anthocyanins content (mg / 100 g FW)	Leaf total phenols content (mg/100 g DW)
mid-May	Giza 21	0.096	0.255
	Giza 22	0.087	0.230
	Giza 35	0.095	0.280
	Giza 111	0.083	0.245
	Crawford	0.077	0.220
	Dr-101	0.084	0.240
	Mean	0.087	0.245
beginning of June	Giza 21	0.115	0.300
	Giza 22	0.104	0.275
	Giza 35	0.111	0.315
	Giza 111	0.099	0.290
	Crawford	0.089	0.265
	Dr-101	0.091	0.275
	Mean	0.101	0.286
mid-June	Giza 21	0.108	0.290
	Giza 22	0.098	0.260
	Giza 35	0.105	0.305
	Giza 111	0.095	0.270
	Crawford	0.086	0.245
	Dr-101	0.090	0.277
	Mean	0.097	0.274
Average of soybean variety	Giza 21	0.106	0.281
	Giza 22	0.096	0.255
	Giza 35	0.103	0.300
	Giza 111	0.092	0.268
	Crawford	0.084	0.243
	Dr-101	0.088	0.264
	Mean	0.097	0.274
LSD 0.05 planting dates		0.01	0.03
LSD 0.05 Soybean varieties		0.008	0.02
LSD 0.05 Interaction		0.01	0.04
Effect of planting dates, soybean varieties, and their interactions on stem anthocyanins and leaf total phenols contents			



Banding patterns of SDS-protein PAGE for leaf of six soybean varieties through three planting dates infested by soybean stem flies. M= Marker, 1= Giza 21, 2= Giza 22, 3= Giza 35, 4= Giza 111, 5= Crawford, 6= Dr-101.