

Fruit Characteristics and Yield of brinjal plant

Fruit Characteristics of brinjal plant and yield contributing parameters are representing in the Table 1. The increasing irrigation with saline water up to 7500 ppm (T₄) adversely affected all the fruit characteristics of brinjal, as seen in Table 1. The fruit length of the plants, fruit diameter, fruit weight and yield per plant were significantly increased compared to the control plants (500 ppm), with all measured parameters exhibiting the maximum values in TS (SA 50 ppm) treated plants relative to 100 ppm. Furthermore, it was determined that both salt levels (SL) and salicylic acid (SA) application simultaneously disrupt the fruit growth of brinjal plants. Subsequently, the plants subjected to 2500 ppm salt water and treated with 50 ppm salicylic acid (T₇) exhibited the most significant enhancements in fruit characteristics, while the lowest values were recorded for those exposed to 7500 ppm saline water in conjunction with 100 ppm salicylic acid (T₁₂).

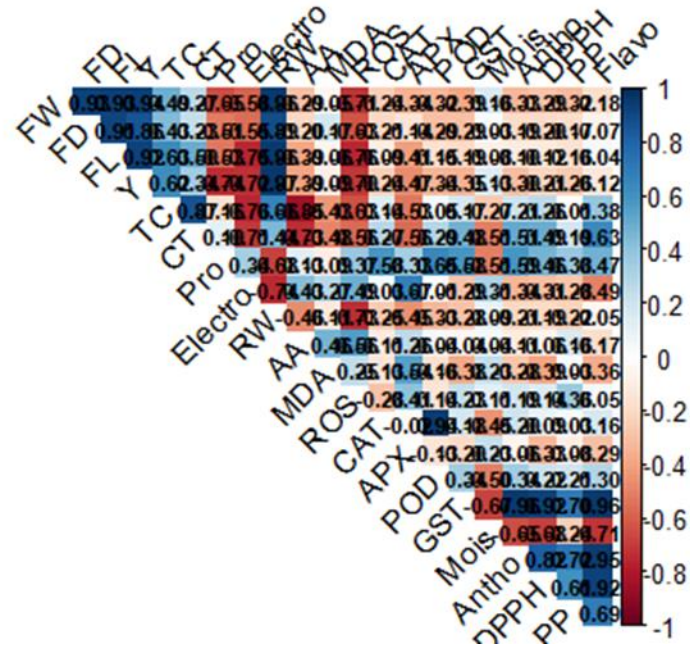
Table 1. Fruit Size Attributes and Yield of brinjal plant

Treatment*	Fruit length (cm)	Fruit diameter (cm)	Fruit weight (gm)	Yield per plant (gm)
T ₁	14.5 ± 0.057e	3.3 ± 0.057f	38.7 ± 0.057e	220.7 ± 0.057c
T ₂	14.9 ± 0.057d	3.9 ± 0.057b	42.1 ± 0.057c	198.7 ± 0.057e
T ₃	13.4 ± 0.057f	3.5 ± 0.057e	36.2 ± 0.057h	186.9 ± 0.057g
T ₄	12.1 ± 0.057h	2.8 ± 0.057h	29.1 ± 0.057j	120.6 ± 0.057k
T ₅	15.6 ± 0.057b	3.7 ± 0.057cd	44.5 ± 0.057b	229.8 ± 0.057b
T ₆	15.4 ± 0.057c	3.6 ± 0.057de	37.5 ± 0.057g	219.5 ± 0.057d
T ₇	16.4 ± 0.057a	4.5 ± 0.057a	47.8 ± 0.057a	243.8 ± 0.057a
T ₈	14.8 ± 0.057d	3.7 ± 0.057cd	39.8 ± 0.057d	195.8 ± 0.057f
T ₉	15.4 ± 0.057c	3.8 ± 0.057bc	37.9 ± 0.057f	180.6 ± 0.057h
T ₁₀	13.5 ± 0.057f	3.1 ± 0.057g	32.5 ± 0.057i	167.5 ± 0.057i
T ₁₁	12.7 ± 0.057g	2.8 ± 0.057h	27.8 ± 0.057k	131.2 ± 0.057j
T ₁₂	11.8 ± 0.057i	2.1 ± 0.057i	26.1 ± 0.057l	110.5 ± 0.057l

*T₁=Control (500 ppm saline level and without SA); T₂= SL 2500 ppm; T₃= SL 5000 ppm; T₄= SL 7500 ppm; T₅= SA 50 ppm; T₆= SA 100 ppm; T₇=SL 2500 ppm + SA 50 ppm; T₈= SL 5000 ppm + SA 50 ppm; T₉= SL 7500 ppm + SA 50 ppm; T₁₀= SL 2500 ppm + SA 100 ppm; T₁₁= SL 5000 ppm + SA 100 ppm; T₁₂= SL 7500 ppm + SA 100 ppm; SA= Salicylic acid; SL= Saline level. Different letters in the same column are significantly different at 5% level of significance. Data represents mean values of three replicates ± SE.

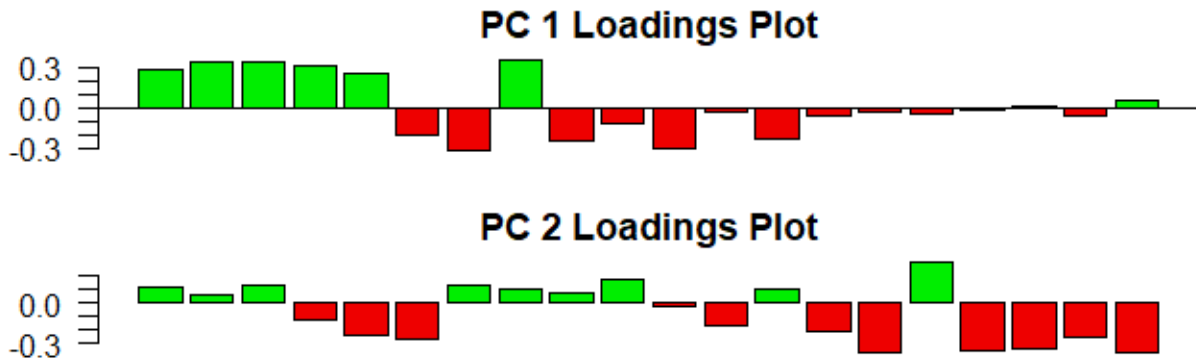
Correlation

Correlation Matrix of Numerical Variables

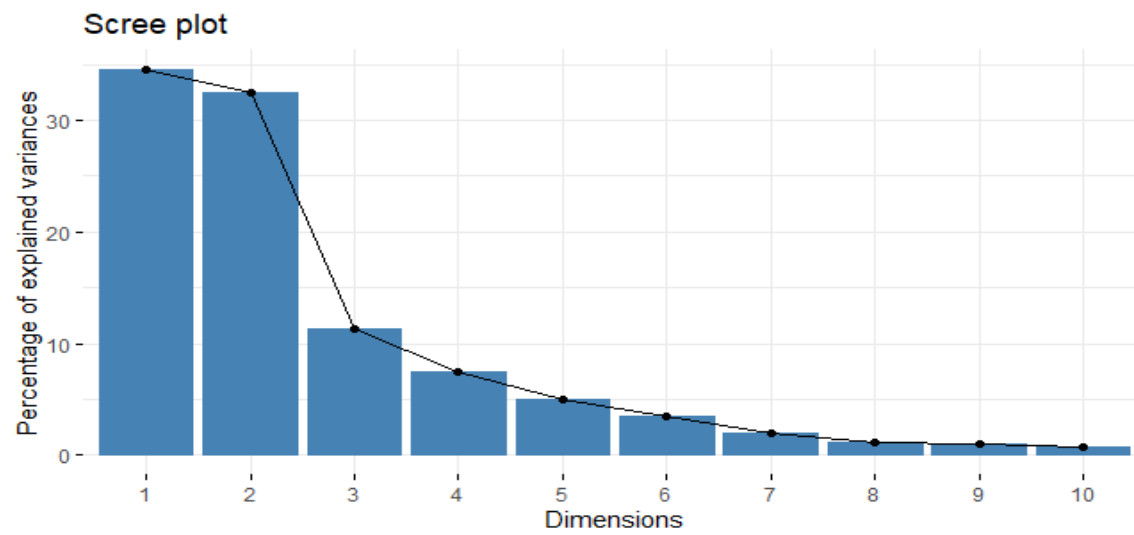


PCA & Dendrogram:

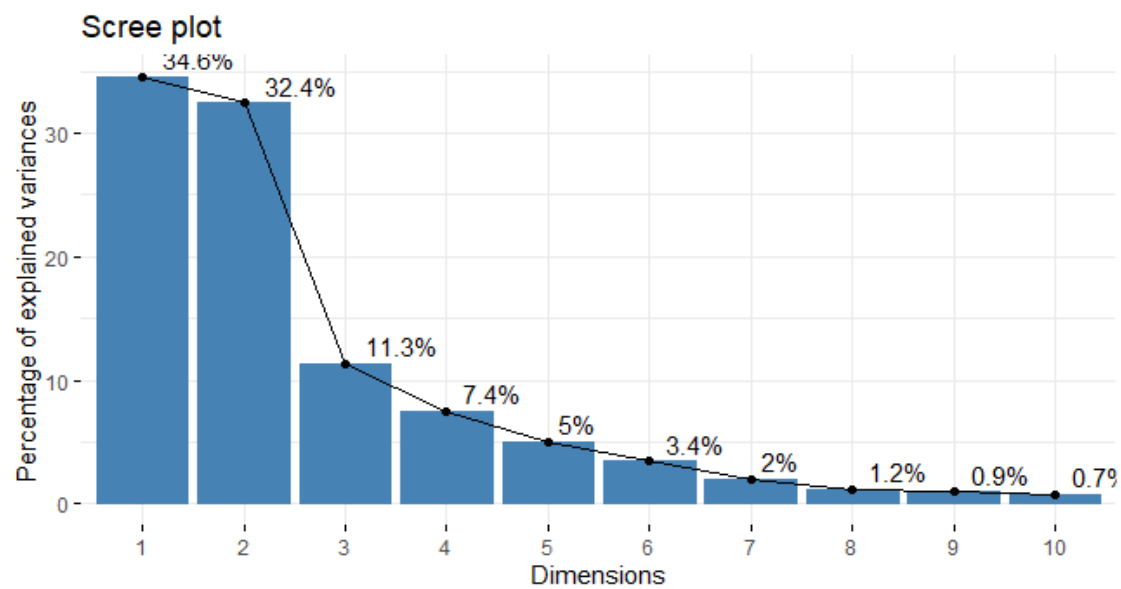
Plot PC



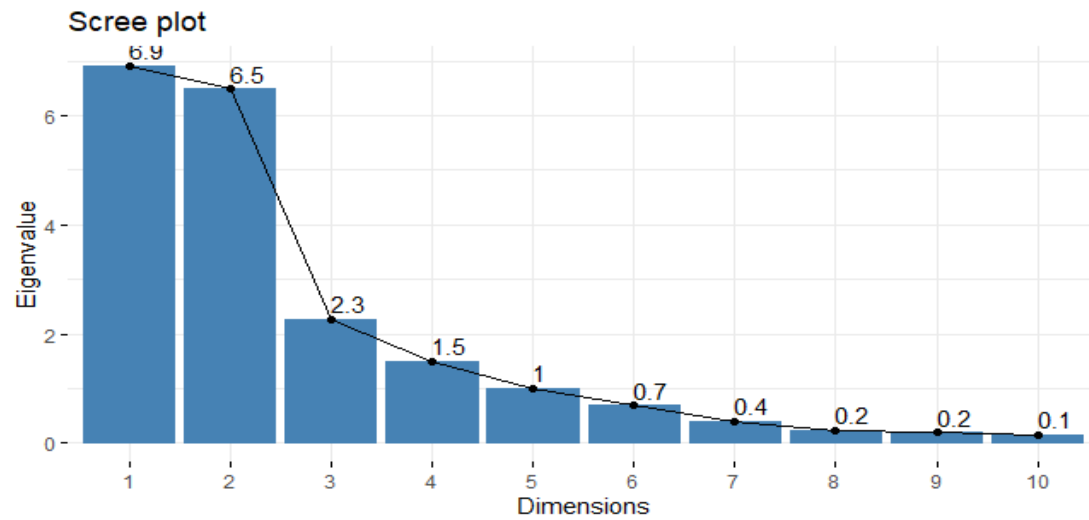
Add variable names



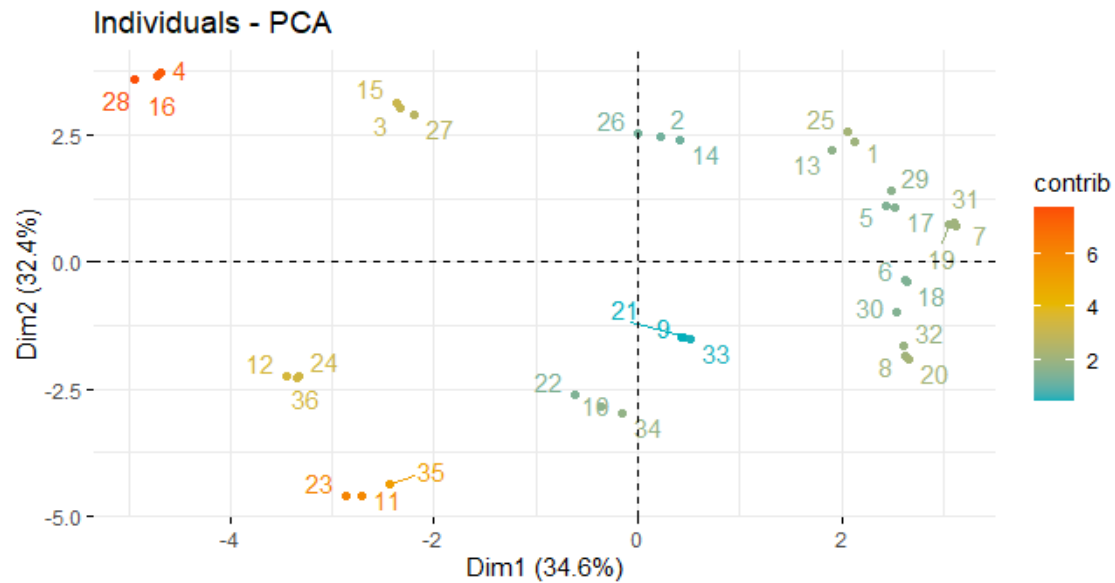
Add labels



ScreePlot-with Showing the eigen values



Individuals – PCA



Variables_PCA -With the variables contribution_contrib to the each PCA components

