

Table 4 Selection function, expected genetic gain and relative efficiency (RE%) of different selection indices of brinjal

Selection Function	Expected Genetic Gain	Relative Efficiency Over Selection
I ₁ =b1x1	1.31	100%
I ₂ =b2x2	1.22	93.20%
I ₃ =b3x3	2.19	166.79%
I ₄ =b4x4	1.28	97.55%
I ₅ =b5x5	0.48	36.38%
I ₁₂ =b1x1+b2x2	2.2	167.42%
I ₁₃ =b1x1+b3x3	3.04	231.89%
I ₁₄ =b1x1+b4x4	2.15	164.01%
I ₁₅ =b1x1 +b5x5	1.59	120.94%
I ₂₃ =b2x2+b3x3	2.13	162.25%
I ₂₄ =b2x2+b4x4	1.89	144.03%
I ₂₅ =b2x2+b5x5	1.37	104.15%
I ₃₄ =b3x3+b4x4	2.39	182.47%
I ₃₅ =b3x3+b5x5	2.36	180.00%
I ₄₅ =b4x4+b5x5	1.47	112.39%
I ₁₂₃ =b1x1+b2x2+b3x3	3.26	248.24%
I ₁₂₄ =b1x1+b2x2+b4x4	2.86	217.88%
I ₁₂₅ =b1x1+b2x2+b5x5	2.4	183.01%
I ₁₃₄ =b1x1+b3x3+b4x4	3.39	258.14%
I ₁₃₅ =b1x1+b3x3+ b5x5	3.26	248.31%
I ₁₄₅ =b1x1+ b4x4+b5x5	2.4	182.53%
I ₂₃₄ =b1x1+ b4x4+b5x5	2.43	185.32%
I ₂₃₅ =b2x2+b3x3+ b5x5	2.34	178.16%
I ₂₄₅ =b2x2+ b4x4+b5x5	2.06	157.15%
I ₃₄₅ =b3x3+b4x4+b5x5	2.61	199.17%
I ₁₂₃₄ =b1x1+b2x2+b3x3+b4x4	3.64	277.54%
I ₁₂₃₅ =b1x1+b2x2+b3x3+ b5x5	3.48	265.22%
I ₁₂₄₅ =b1x1+b2x2 +b4x4+b5x5	3.07	233.94%
I ₁₃₄₅ =b1x1 +b3x3+b4x4+b5x5	3.63	276.24%
I ₂₃₄₅ =b2x2+b3x3+b4x4+b5x5	2.67	203.85%
I ₁₂₃₄₅ =b1x1+b2x2+b3x3+b4x4+b5x5	3.88	295.87%

I₁= yield/plant (g), I₂ = fresh weight/fruit (g), I₃= no. of fruits in inflorescence/plant, I₄= no. of fruits in solitary/plant, I₅ = no. of secondary branches/plant