

**Table 1: Effect of different doses of gamma-rays on the morphological traits in M<sub>1</sub>-generation of okra (2017).**

Varieties	Dose	Plant height (cm)	Total green chlorophyll content (SPAD)	Fresh weight /plant (g)	Dry weight/plant (g)	Leaf area /plant (cm <sup>2</sup> )	No. of pods/plant	No. of seeds / plant
<b>Balady</b>	Control	119.7a	41.8b	363.7	56.2	583.4	3.7b	325.5
	10KR	118.2a	55.1a	344.2	48.1	663.4	5.5ab	443.0
	20KR	120.2a	44.3b	351.2	52.2	744.9	6.7a	447.0
	30KR	119.2a	43.4b	315.2	45.9	570.2	5.2ab	314.5
	40KR	99.5b	41.2b	330.7	47.6	703.7	4.5b	330.7
<b>L.S.D</b>		10.5	7.4	NS	NS	NS	1.9	NS
<b>Sabahia</b>	Control	69.7	51.3	252.5	34.2	633.5	9.2	746.7
	10KR	59.7	44.5	208.2	29.9	568.5	7.2	516.2
	20KR	70.5	41.5	193.2	29.3	519.5	7.7	459.5
	30KR	72.7	47.2	251.2	38.1	558.6	7.5	487.5
	40KR	69.2	43.7	216.7	31.1	553.7	6.7	364.0
<b>L.S.D</b>		NS	NS	NS	NS	NS	NS	NS

**Table 2: Some vegetative trait's pod yield and its components traits of 26 mutant lines in M3 and their original parent grown in 2019 season**

Varieties	Mutant No.	Plant height (cm)	No. of branches /plant	No. of leaves/plant	Pod weight (g)	Pod length (cm)	Pod diameter (cm)	No. of days from Sowing to first flowering	No. of pods/Plant	Weight of pods/Plant (g)
Balady	Control	93.6a	0.0d	22.0de	2.7cd	4.0c	1.3	55.3ab	4.6de	16.6e
	1	45.3b	0.0d	16.0f	4.6ab	5.6ab	1.3	51.3bc	14.3a	41.8c
	2	87.3a	2.0bc	38.6c	5.1a	6.3a	1.3	48.3c	10.4c	42.1c
	3	97.0a	3.3b	45.3b	2.4cd	3.7c	1.9	39.6d	12.4b	35.2d
	4	93.3a	0.0d	20.6ef	2.8cd	4.0c	1.2	57.0ab	4.2e	17.1e
	5	93.0a	1.0cd	26.3d	2.5cd	4.2c	1.2	55.6ab	5.6d	48.3a
	6	95.0a	6.6a	64.3a	3.5bc	4.6bc	1.3	59.0a	13.4ab	44.2b
<b>L.S.D</b>		10.6	1.4	5.0	1.4	1.2	NS	5.90	1.1	2.0
Sabahia	Control	59.6af	1.0abc	29.0c-h	5.3bc	7.1abc	1.3b-e	45.1fg	14.6ef	46.1g
	1	67.0cde	0.0c	28.3d-h	3.1de	5.2gh	1.3de	45.6f	21.4b	44.6g
	2	62.3de	1.6abc	32.0b-f	4.2cde	5.5d-h	1.3b-e	50.7b	18.3c	61.6d
	3	72.0c	1.0abc	30.0c-g	5.5bc	6.5a-g	1.3b-e	49.2cde	18.4c	71.2b
	4	69.3cd	2.0abc	32.0b-f	5.1cd	5.9c-g	1.3cde	48.2e	15.3e	61.5d
	5	72.6c	2.6ab	38.0abc	7.7a	6.8a-d	1.7a	42.1h	29.4a	65.9c
	6	105.0a	2.6ab	31.0c-f	8.0a	6.4a-g	1.8a	42.0h	7.31	26.8i
	7	61.3def	1.0abc	39.3c-g	5.4bc	6.7a-e	1.4bcd	50.5b	13.5fg	50.1f
	8	60.0def	0.0c	20.6ghi	2.8e	3.8i	1.3b-e	54.1a	8.6k	36.4h
	9	60.3def	0.0c	19.6hi	5.1cd	6.3b-g	1.4bcd	48.9de	11.5i	44.7g
	10	64.6cde	0.6bc	26.6d-i	5.0cd	6.0b-g	1.3b-e	44.2g	12.7ghi	50.5f
	11	71.6c	2.0abc	38.3abc	5.4bc	6.6a-f	1.4bcd	49.7bcd	16.5d	58.0e
	12	61.6def	0.0c	23.0f-i	4.8cd	5.2gh	1.5b	50.6b	13.3gh	67.7c
	13	81.0b	2.0abc	40.3ab	7.2ab	7.7a	1.5bc	49.9bcd	11.6i	45.6g
	14	68.0cde	0.0c	23.0f-i	4.1cde	5.9c-h	1.3cde	45.3f	15.0e	49.4f
	15	72.6c	3.0a	41.6a	4.1cde	6.0b-g	1.2de	50.1bc	7.31	27.0i
	16	87.6b	1.3abc	32.6a-e	5.3bc	5.3fgh	1.7a	42.3h	10.1j	24.0j
	17	69.0cde	0.6bc	34.3a-d	9.0a	7.3ab	1.7a	49.9bcd	21.6b	99.3a
	18	38.6g	0.0c	18.6i	4.3cde	5.4c-h	1.5b	42.0h	13.6fg	48.7f
	19	39.3g	0.6bc	23.3e-i	5.4bc	5.4e-h	1.5b	50.3bc	12.5ghi	49.1f
	20	52.6f	1.6abc	28.0d-h	3.1de	4.6hi	1.2e	50.7b	12.2h	37.1h
<b>L.S.D</b>		8.1	1.8	8.0	1.7	1.1	0.1	0.9	1.1	2.5

