

**Table 1. Main effects of maize hybrids, micro-elements and foliar spray on the plant height, yield components and yield for maize in 2018 and 2019 seasons.**

Characters Main effect	Plant height (cm)		Ear length (cm)		Ear diameter (cm)		Grains weight/ear (g)		100-grain weight (g)		Grain yield (ard./fed.)	
	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019
<b>Micro-elements (M)</b>												
<b>M<sub>1</sub></b>	217.7	239.6	16.6	17.8	3.7	4.3	102.9	160.4	24.1	30.8	17.5	19.1
<b>M<sub>2</sub></b>	219.0	244.6	16.5	18.3	3.6	4.4	91.2	168.7	23.6	31.8	16.9	19.6
<b>M<sub>3</sub></b>	212.5	242.3	16.2	18.4	3.6	4.4	93.2	171.6	23.1	31.8	15.8	19.5
<b>F-test</b>	NS	NS	NS	NS	NS	NS	**	*	NS	NS	**	NS
<b>RLSD 5%</b>	-	-	-	-	-	-	<b>5.0</b>	<b>7.6</b>	-	-	<b>0.6</b>	<b>0.4</b>
<b>Foliar spray (S)</b>												
<b>S<sub>0</sub></b>	210.7	244.8	16.1	18.2	3.5	4.4	90.1	173.2	23.5	32.2	15.7	16.8
<b>S<sub>1</sub></b>	221.3	242.9	16.6	17.8	3.7	4.3	99.5	153.7	24.4	30.8	18.3	19.6
<b>S<sub>2</sub></b>	217.2	239.0	16.5	18.4	3.6	4.4	97.6	173.8	23.0	30.9	16.2	21.7
<b>F-test</b>	*	NS	NS	NS	*	*	**	**	NS	NS	**	**
<b>RLSD 5%</b>	<b>6.7</b>	-	-	-	<b>0.1</b>	<b>0.08</b>	<b>3.8</b>	<b>12.6</b>	-	-	<b>1.0</b>	<b>1.1</b>
<b>Hybrids (H)</b>												
<b>H<sub>1</sub></b>	224.7	247.4	17.1	18.3	3.6	4.3	99.6	161.7	22.9	31.1	18.1	19.2
<b>H<sub>2</sub></b>	208.1	237.0	15.8	18.0	3.6	4.5	91.5	172.0	24.3	31.4	15.3	19.6
<b>F-test</b>	**	**	**	NS	NS	**	**	*	*	NS	**	NS

H<sub>1</sub>= Single cross 10 (S.C.) and H<sub>2</sub>= Triple cross 321 (T.C.); M<sub>1</sub>= Boron (B), M<sub>2</sub>= Zinc (Zn) and M<sub>3</sub>= Manganese (Mn); S<sub>0</sub>= Control (water only), S<sub>1</sub>= 25 ppm B or 50 ppm Zn or 34 ppm Mn and S<sub>2</sub>= 50 ppm B or 100 ppm Zn or 68 ppm Mn.

\*, \*\* indicated significantly and highly significantly at 5% and 1% levels of probability, respectively.

NS: Non-significant differences.

RLSD= Revised least significant difference.

**Table 2. Interaction effect of maize hybrid and micro-elements on the plant height, yield components and yield for maize in 2018 and 2019 seasons.**

Characters Int. HxM		Plant height (cm)		Ear length (cm)		Ear diameter (cm)		Grains weight/ear (g)		100-grain weight (g)		Grain yield (ard./fed.)	
		2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019
<b>H<sub>1</sub></b>	<b>M<sub>1</sub></b>	224.4	249.3	17.1	18.1	3.7	4.3	112.6	158.9	23.2	30.6	18.2	19.3
	<b>M<sub>2</sub></b>	226.2	245.5	17.1	18.6	3.6	4.3	90.0	163.3	23.1	31.4	18.8	19.6
	<b>M<sub>3</sub></b>	223.4	247.3	16.9	18.3	3.6	4.3	96.5	163.1	22.7	31.4	17.5	18.7
<b>H<sub>2</sub></b>	<b>M<sub>1</sub></b>	211.0	230.0	16.0	17.5	3.7	4.5	93.3	162.0	25.2	31.1	17.0	19.1
	<b>M<sub>2</sub></b>	211.8	243.8	15.9	17.9	3.6	4.5	92.5	174.0	24.2	31.0	15.1	19.5
	<b>M<sub>3</sub></b>	201.6	237.3	15.6	18.5	3.7	4.5	90.4	180.0	23.6	32.2	14.1	20.2
<b>F-test</b>		<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>**</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>**</b>	<b>NS</b>
<b>RLSD 5%</b>		<b>10.8</b>	<b>13.7</b>	-	-	-	-	<b>5.5</b>	<b>19.0</b>	-	-	<b>0.7</b>	<b>1.7</b>

H<sub>1</sub>= Single cross 10 (S.C.) and H<sub>2</sub>= Triple cross 321 (T.C.); M<sub>1</sub>= Boron (B), M<sub>2</sub>= Zinc (Zn) and M<sub>3</sub>= Manganese (Mn).

\*, \*\* indicated significantly and highly significantly at 5% and 1% levels of probability, respectively.

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RLSD= Revised least significant difference.

**Table 3. Interaction effect of maize hybrids and foliar spray on the plant height, yield components and yield for maize in 2018 and 2019 seasons.**

Characters		Plant height (cm)		Ear length (cm)		Ear diameter (cm)		Grains weight/ear (g)		100-grain weight (g)		Grain yield (ard./fed.)	
		2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019
<b>H<sub>1</sub></b>	<b>S<sub>0</sub></b>	218.6	250.8	16.5	18.8	3.5	4.3	96.1	171.3	22.8	32.3	17.9	17.3
	<b>S<sub>1</sub></b>	228.7	247.5	17.1	17.7	3.7	4.2	103.3	146.8	23.4	30.4	19.7	19.2
	<b>S<sub>2</sub></b>	226.9	243.8	17.5	18.5	3.6	4.3	99.7	167.1	22.8	30.6	16.8	21.1
<b>H<sub>2</sub></b>	<b>S<sub>0</sub></b>	202.9	238.7	15.7	17.7	3.6	4.5	84.3	175.1	24.3	31.9	13.6	16.3
	<b>S<sub>1</sub></b>	214.0	238.2	16.2	18.0	3.8	4.5	95.8	160.4	25.5	31.1	16.9	20.1
	<b>S<sub>2</sub></b>	207.4	234.2	15.6	18.3	3.6	4.5	95.7	180.4	23.3	31.1	15.6	22.5
<b>F-test</b>		<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>*</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>**</b>	<b>*</b>
<b>RLSD 5%</b>		<b>10.9</b>	<b>-</b>	<b>-</b>	<b>0.7</b>	<b>-</b>	<b>0.2</b>	<b>8.3</b>	<b>19.0</b>	<b>-</b>	<b>-</b>	<b>0.7</b>	<b>1.2</b>

H<sub>1</sub>= Single cross 10 (S.C.) and H<sub>2</sub>= Triple cross 321 (T.C.); S<sub>0</sub>= Control (water only), S<sub>1</sub>= 25 ppm B or 50 ppm Zn or 34 ppm Mn and S<sub>2</sub>= 50 ppm B or 100 ppm Zn or 68 ppm Mn.

\*, \*\* indicated significantly and highly significantly at 5% and 1% levels of probability, respectively.

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**Table 4. Interaction effect of micro-elements and foliar spray on the plant height, yield components and yield for maize in 2018 and 2019 seasons.**

Characters Int. Pxl		Plant height (cm)		Ear length (cm)		Ear diameter (cm)		Grains weight/ear (g)		100-grain weight (g)		Grain yield (ard./fed.)	
		2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019
<b>M<sub>1</sub></b>	<b>S<sub>0</sub></b>	212.2	242.3	16.3	17.9	3.7	4.5	103.9	166.3	24.2	31.1	16.8	16.4
	<b>S<sub>1</sub></b>	220.7	236.0	16.7	17.5	3.7	4.2	107.1	143.0	24.1	29.7	19.4	19.1
	<b>S<sub>2</sub></b>	220.3	240.6	16.8	18.0	3.6	4.4	97.8	172.0	24.3	31.7	16.6	22.1
<b>M<sub>2</sub></b>	<b>S<sub>0</sub></b>	213.3	244.0	16.0	18.3	3.5	4.4	84.0	173.0	23.6	32.5	16.6	17.3
	<b>S<sub>1</sub></b>	227.7	249.3	16.9	18.2	3.8	4.4	93.1	156.3	24.3	31.5	19.0	20.1
	<b>S<sub>2</sub></b>	216.0	240.7	16.5	18.4	3.6	4.5	96.7	176.0	23.0	29.5	15.2	21.3
<b>M<sub>3</sub></b>	<b>S<sub>0</sub></b>	206.7	248.0	15.9	18.5	3.6	4.4	82.6	180.3	22.8	32.9	14.0	16.7
	<b>S<sub>1</sub></b>	215.7	243.3	16.4	17.9	3.8	4.3	98.5	161.7	24.9	31.0	16.5	19.8
	<b>S<sub>2</sub></b>	215.2	234.6	16.4	18.8	3.5	4.5	98.6	172.0	21.7	31.5	16.9	22.0
<b>F-test</b>		<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>**</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>**</b>	<b>NS</b>
<b>RLSD 5%</b>		<b>9.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.1</b>	<b>7.1</b>	<b>18.0</b>	<b>-</b>	<b>-</b>	<b>1.9</b>	<b>2.5</b>

M<sub>1</sub>= Boron (B), M<sub>2</sub>= Zinc (Zn) and M<sub>3</sub>= Manganese (Mn); S<sub>0</sub>= Control (water only), S<sub>1</sub>= 25 ppm B or 50 ppm Zn or 34 ppm Mn and S<sub>2</sub>= 50 ppm B or 100 ppm Zn or 68 ppm Mn.

\*, \*\* indicated significantly and highly significantly at 5% and 1% levels of probability, respectively.

NS: Non-significant differences.

RLSD= Revised least significant difference.

**Table 5. Interaction effect of maize hybrids, micro-elements and foliar spray on the plant height, yield components and yield for maize in 2018 and 2019 seasons.**

Characters			Plant height (cm)		Ear length (cm)		Ear diameter (cm)		Grains weight/ear (g)		100-grain weight (g)		Grain yield (ard./fed.)	
			2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019
<b>H<sub>1</sub></b>	<b>M<sub>1</sub></b>	<b>S<sub>0</sub></b>	220.7	254.6	16.5	18.0	3.6	4.4	117.0	166.0	23.4	31.0	17.9	16.3
		<b>S<sub>1</sub></b>	228.7	246.0	17.7	17.3	3.8	4.1	126.5	138.7	22.6	28.8	20.7	19.8
		<b>S<sub>2</sub></b>	224.0	247.3	17.2	18.1	3.7	4.4	94.2	172.0	23.5	32.0	16.0	21.6
	<b>M<sub>2</sub></b>	<b>S<sub>0</sub></b>	219.3	245.6	16.4	18.0	3.5	4.3	83.1	172.0	22.6	32.6	19.1	18.5
		<b>S<sub>1</sub></b>	236.7	249.3	17.6	18.5	3.9	4.3	93.8	148.4	23.8	32.7	21.1	19.5
		<b>S<sub>2</sub></b>	222.7	242.0	17.2	18.6	3.6	4.4	93.3	169.3	22.8	28.8	16.3	20.7
	<b>M<sub>3</sub></b>	<b>S<sub>0</sub></b>	215.7	252.7	16.5	18.8	3.6	4.4	88.1	176.0	22.3	33.3	16.9	17.2
		<b>S<sub>1</sub></b>	220.6	247.3	16.1	17.2	3.7	4.3	89.6	153.3	23.8	29.7	17.3	18.4
		<b>S<sub>2</sub></b>	234.0	242.0	18.0	18.8	3.7	4.4	111.7	160.0	21.9	31.2	18.3	21.6
<b>H<sub>2</sub></b>	<b>M<sub>1</sub></b>	<b>S<sub>0</sub></b>	203.7	230.0	16.2	17.0	3.8	4.5	90.7	166.7	25.0	31.2	15.6	16.4
		<b>S<sub>1</sub></b>	212.7	226.0	15.6	17.6	3.6	4.4	87.8	147.3	25.5	30.5	18.2	18.3
		<b>S<sub>2</sub></b>	216.7	234.0	16.3	18.0	3.8	4.5	101.2	172.0	25.1	31.4	17.3	22.5
	<b>M<sub>2</sub></b>	<b>S<sub>0</sub></b>	207.3	242.3	15.5	17.8	3.4	4.7	84.9	174.0	24.6	32.3	14.1	16.2
		<b>S<sub>1</sub></b>	218.6	249.3	16.3	17.9	3.7	4.5	92.4	164.0	24.9	30.5	17.0	20.6
		<b>S<sub>2</sub></b>	209.3	239.3	15.8	18.5	3.7	4.5	100.3	184.0	23.2	30.2	14.2	21.8
	<b>M<sub>3</sub></b>	<b>S<sub>0</sub></b>	197.7	243.3	15.4	18.3	3.6	4.5	77.2	184.7	23.3	32.4	11.1	16.3
		<b>S<sub>1</sub></b>	210.7	239.3	16.7	18.5	4.0	4.5	107.4	170.0	26.1	32.3	15.6	21.2
		<b>S<sub>2</sub></b>	196.3	229.3	14.8	17.7	3.4	4.5	85.6	185.3	21.4	31.7	15.5	23.2
<b>F-test</b>			*	NS	NS	NS	*	NS	**	NS	NS	NS	**	NS
<b>RLSD 5%</b>			<b>14.9</b>	-	-	-	<b>0.3</b>	<b>0.4</b>	<b>9.3</b>	-	-	-	<b>1.3</b>	<b>2.9</b>

H<sub>1</sub>= Single cross 10 (S.C.) and H<sub>2</sub>= Triple cross 321 (T.C.); M<sub>1</sub>= Boron (B), M<sub>2</sub>= Zinc (Zn) and M<sub>3</sub>= Manganese (Mn); S<sub>0</sub>= Control (water only), S<sub>1</sub>= 25 ppm B or 50 ppm Zn or 34 ppm Mn and S<sub>2</sub>= 50 ppm B or 100 ppm Zn or 68 ppm Mn.

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