Table 1. Main effects of irrigation, proline and maize hybrids 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
Irrigation (I)												
I_1	211.1	237.1	18.2	18.1	3.8	4.5	87.9	163.4	21.7	31.6	11.3	22.0
I_2	203.5	209.7	17.7	17.4	3.5	4.4	70.8	147.8	19.5	29.4	9.9	19.3
I_3	186.9	206.4	16.2	17.3	3.3	4.3	53.3	141.4	19.0	29.3	6.0	13.9
F-test	**	**	*	NS	**	NS	**	**	**	NS	**	**
RLSD 5%	**6.2**	**7.4**	**0.7**	**0.6**	**0.1**	**0.1**	**9.1**	**6.7**	**0.7**	**-**	**1.0**	**1.2**
Proline (P)												
P_0	208.8	226.0	17.7	17.6	3.6	4.4	74.8	156.0	21.4	30.0	10.4	18.0
P_1	198.1	209.7	17.2	17.5	3.5	4.3	70.5	141.7	20.0	30.2	9.0	19.2
P_2	191.6	217.6	16.9	17.8	3.5	4.5	66.4	155.2	18.9	29.8	7.8	17.9
F-test	*	**	NS	NS	NS	*	NS	NS	NS	NS	**	*
RLSD 5%	**8.9**	**4.1**	**0.4**	**-**	**0.09**	**0.1**	**-**	**-**	**1.8**	**-**	**1.1**	**1.1**
Hybrids (H)												
H_1	205.1	224.1	17.4	17.9	3.5	4.3	72.2	146.6	18.9	30.1	9.8	18.4
H_2	195.9	211.4	17.1	17.4	3.6	4.5	68.9	155.1	21.3	31.2	8.4	18.4
F-test	**	**	NS	*	*	**	NS	NS	*	NS	**	NS

H_1= Single cross (S.C.) 10, H_2= Triple cross (T.C.) 321, I_1= 11 day, I_2= 16 day, I_3= 21 day; P_0= control (water), P_1= 100 ppm proline and P_2= 200 ppm proline.

*, ** 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 irrigation on the plant height, yield components and yield for maize in 2018 and 2019 seasons.

Characters Int. HxI		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
H_1	I_1	218.3	244.4	18.5	18.3	3.7	4.4	88.7	156.6	20.4	31.6	12.1	22.5
	I_2	211.4	216.0	17.9	17.7	3.5	4.3	74.3	145.4	18.5	28.7	10.9	18.7
	I_3	185.6	211.9	16.2	18.7	3.2	4.2	53.7	137.9	17.7	29.7	6.4	14.1
H_2	I_1	203.9	229.8	17.6	18.0	3.9	4.7	87.1	170.3	22.9	31.6	10.6	21.5
	I_2	195.6	203.4	17.6	17.3	3.6	4.5	67.3	150.1	19.6	30.1	9.0	19.9
	I_3	188.2	200.9	16.2	16.9	3.3	4.4	52.2	144.9	21.4	29.0	5.7	13.7
F-test		*	**	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
RLSD 5%		11.2	4.48	-	1.2	0.3	0.2	20.0	25.0	3.2	-	1.5	2.7

H_1= Single cross (S.C.) 10, H_2= Triple cross (T.C.) 321, I_1= 11 day, I_2= 16 day and I_3= 21 day.

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

NS: Non-significant differences.

RLSD= Revised least significant difference.

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

Characters / Int. HxP		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
H_1	P_0	217.6	232.2	18.1	18.0	3.4	4.3	80.3	161.3	20.2	30.1	11.5	17.5
	P_1	199.7	215.1	17.8	17.8	3.4	4.2	68.6	129.1	18.4	30.2	9.2	19.5
	P_2	198.1	225.1	17.9	17.9	3.6	4.3	67.6	149.7	18.1	29.8	8.6	18.3
H_2	P_0	200.1	219.8	17.1	17.1	3.6	4.5	69.1	150.6	22.6	30.3	9.4	18.6
	P_1	196.4	204.3	17.2	17.2	3.6	4.5	72.4	154.2	21.6	30.3	8.9	18.9
	P_2	191.1	210.0	17.8	17.8	3.6	4.6	56.2	160.6	19.7	29.9	7.0	17.6
F-test		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*	NS
RLSD 5%		13.1	6.5	-	-	-	0.2	-	-	2.0	-	1.1	-

H_1= Single cross (S.C.) 10, H_2= Triple cross (T.C.) 321, P_0= control (water), P_1= 100 ppm and P_2= 200 ppm proline.
*significantly at 5% levels of probability.
NS: Non-significant differences.
RLSD= Revised least significant difference.

Table 4. Interaction effect of proline and irrigation 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.)	
Int. PxI		2018	2019	2018	2019	2018	2019	2018	2019	2018	2019	2018	2019
P_0	I_1	221.7	244.3	18.8	18.1	3.9	4.5	96.3	165.6	23.1	32.5	13.5	22.1
	I_2	210.3	216.3	18.5	17.5	3.7	4.4	75.3	157.0	20.8	29.8	12.1	17.9
	I_3	194.5	217.3	15.9	17.1	3.3	4.3	52.7	145.0	20.2	28.6	5.8	14.1
P_1	I_1	201.5	231.0	18.0	18.2	3.7	4.4	85.3	161.0	22.0	32.3	10.1	22.5
	I_2	206.0	198.5	17.7	17.1	3.5	4.3	71.7	135.4	18.1	28.8	10.1	20.0
	I_3	186.7	199.7	16.2	17.1	3.3	4.3	54.5	128.3	19.8	29.6	7.0	15.2
P_2	I_1	210.2	236.0	17.1	18.1	3.8	4.6	82.2	163.8	19.9	30.0	10.5	21.3
	I_2	194.2	204.0	17.0	17.7	3.5	4.4	65.3	150.6	18.2	29.6	7.6	20.1
	I_3	179.5	212.7	16.4	17.7	3.2	4.4	51.7	150.9	18.7	29.9	5.4	12.4
F-test		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	*	NS
RLSD 5%		22.2	20.0	1.1	-	0.5	-	24.7	20.0	-	4.0	2.4	-

P_0= control (water), P_1= 100 ppm, P_2= 200 ppm proline, I_1= 11 day, I_2= 16 day and I_3= 21 day;

* significantly at 5% levels of probability.

NS: Non-significant differences.

RLSD= Revised least significant difference.

Table 5. Interaction effect of maize hybrids, proline and irrigation on the plant height, yield components and yield for maize in 2018 and 2019 seasons.

Characters Int. HxPxI			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
H_1	P_0	I_1	233.7	256.0	19.1	18.4	3.9	4.4	110.1	162.6	22.6	32.5	14.3	20.8
		I_2	220.7	225.3	19.3	18.1	3.6	4.3	78.2	174.4	19.2	28.5	13.6	17.5
		I_3	198.3	215.3	15.8	17.6	3.2	4.2	53.1	146.6	18.7	29.2	6.6	14.3
	P_1	I_1	206.7	235.3	18.5	18.5	3.5	4.2	73.5	150.4	19.2	32.0	10.9	23.9
		I_2	212.3	200.7	17.7	17.3	3.4	4.1	76.4	119.4	17.6	28.3	9.9	19.2
		I_3	180.0	209.3	15.7	17.7	3.3	4.3	55.9	117.4	18.3	30.4	6.8	15.4
	P_2	I_1	214.7	242.0	17.6	18.0	3.6	4.4	82.5	156.8	19.5	30.3	11.0	22.7
		I_2	201.3	222.0	16.7	17.6	3.4	4.3	68.3	142.4	18.6	29.3	9.1	19.4
		I_3	178.3	211.3	17.1	18.1	3.2	4.3	52.1	149.8	16.2	29.7	5.7	12.7
H_2	P_0	I_1	209.7	232.7	18.5	17.9	3.9	4.6	82.4	168.6	23.7	32.5	12.7	23.4
		I_2	200.0	217.3	17.6	16.8	3.7	4.5	72.5	139.8	22.3	31.1	10.6	18.3
		I_3	190.7	209.3	16.0	16.7	3.3	4.3	52.3	143.4	21.7	28.9	4.9	14.0
	P_1	I_1	196.3	226.7	17.5	17.9	3.8	4.6	97.1	171.7	24.7	32.7	9.3	21.1
		I_2	199.7	196.3	17.8	17.0	3.6	4.5	67.0	151.4	18.7	29.3	10.2	20.8
		I_3	193.3	190.0	16.8	16.6	3.2	4.3	53.1	139.2	21.3	28.8	7.1	15.0
	P_2	I_1	205.7	230.0	16.7	18.1	3.9	4.8	81.8	170.6	20.3	29.7	9.9	19.9
		I_2	187.0	196.7	17.4	17.9	3.5	4.5	62.4	159.0	17.8	29.8	6.0	20.7
		I_3	180.7	203.3	15.7	17.3	3.3	4.6	51.3	152.0	21.1	30.1	5.0	12.2
F-test			*	*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
RLSD 5%			10.0	8.34	3.0	-	-	0.3	30.0	25.8	5.4	-	2.6	3.3

H_1= Single cross (S.C.) 10, H_2= Triple cross (T.C.) 321, I_1= 11 day, I_2= 16 day, I_3= 21 day; P_0= control (water), P_1= 100 ppm proline and P_2= 200 ppm proline.

*, ** indicated significantly and highly significantly at 5% and 1% levels of probability, respectively.   NS: Non-significant differences.

RLSD= Revised least significant difference.