

Table(3):Effect of Zn and Cu on the content free amino acids of corn grains(mg/plant)

Treatments	Aliphatic A.A			Acidic A.A				Sulphe. A.A Methionine	Basic A.A Lysine	Total A.A
	Alanine	Glycine	Valine	Glutmic	Aspartic	Tyrosine	Phenyl alanine			
1- Control	215.25	227.55	139.40	241.90	215.25	139.40	155.80	141.45	94.30	1570.30
2- 50 ppm Zn	201.4	186.56	129.30	216.24	197.16	116.60	173.84	131.44	80.56	1433.00
3- 100 ppm Zn	179.58	205.86	162.06	252.14	201.48	105.12	139.30	137.68	83.22	1486.44
4- 50 ppm Cu	157.58	186.48	146.52	255.30	233.10	155.40	155.40	184.26	79.92	1583.96
5- 100 ppm Cu	1988.88	216.96	167.24	230.52	248.08	167.24	114.36	176.28	94.92	1610.49
6- 50 ppm Zn+Cu	147.84	203.28	157.46	231.00	217.14	110.88	157.08	143.22	97.02	1459.92
7- 100 ppm Zn+Cu	176.33	217.57	158.01	240.45	137.40	137.40	187.78	201.52	109.92	1566.38