

Table 3: Effect of chemical, organic, biofertilizers and yeast on the morphological characters of onion plants during 2008/2009 and 2009/2010 seasons.

Seasons	2008/2009					2009/2010				
Characters	Plant height (cm)	Number of leaves/plant	Neck diameter (cm)	Bulb diameter (cm)	Bulbing ratio	Plant height (cm)	Number of leaves/plant	Neck diameter (cm)	Bulb diameter (cm)	Bulbing ratio
Treatments										
NPK (control)	61.27 ^a	12.11 ^a	2.67 ^{ab}	6.13 ^a	0.44 ^a	67.28 ^a	12.42 ^a	2.78 ^a	6.29 ^a	0.44 ^a
Chicken manure	60.48 ^a	11.65 ^{ab}	2.18 ^b	5.94 ^{bcd}	0.37 ^e	63.15 ^b	11.97 ^{ab}	2.66 ^b	6.08 ^b	0.43 ^{ab}
Nitrobein	51.40 ^c	10.61 ^{de}	2.17 ^b	5.66 ^f	0.38 ^d	54.47 ^d	10.99 ^d	2.31 ^{ef}	5.87 ^{cd}	0.39 ^{cd}
Phosphorein	53.71 ^{bc}	10.56 ^{de}	2.36 ^b	5.78 ^e	0.40 ^c	56.84 ^{cd}	10.87 ^d	2.46 ^{cd}	5.95 ^{bc}	0.41 ^{abc}
Yeast	51.67 ^{bc}	9.87 ^f	2.04 ^b	5.61 ^f	0.36 ^e	54.46 ^d	10.16 ^e	2.12 ^g	5.74 ^d	0.37 ^d
Nitropein + Phosphorein	55.59 ^b	10.88 ^{cd}	2.51 ^b	6.05 ^{ab}	0.43 ^c	60.99 ^b	11.40 ^{bcd}	2.71 ^{ab}	6.25 ^a	0.43 ^{ab}
Nitrobein+ Yeast	54.07 ^{bc}	10.67 ^{de}	2.30 ^b	5.83 ^{de}	0.39 ^d	57.28 ^{cd}	11.16 ^{cd}	2.38 ^{de}	5.95 ^{bc}	0.40 ^{bcd}
Phosphorein+ Yeast	55.17 ^{bc}	10.30 ^{ef}	2.48 ^b	5.87 ^{cde}	0.42 ^{abc}	57.66 ^c	10.88 ^d	2.55 ^c	6.02 ^{bc}	0.42 ^{abc}
Nitrobein+Phosphorein+ Yeast	59.56 ^a	11.27 ^{bc}	3.25 ^a	5.98 ^{bc}	0.42 ^{bc}	62.53 ^b	11.76 ^{abc}	2.24 ^f	6.00 ^{bc}	0.40 ^{abcd}

Values having the same alphabetical letter (s) did not significantly differ at 0.05 level of significance according to Duncan's multiple range test.

Table 4: Effect of chemical , organic , biofertilizers and yeast on the dry weight of onion plants during 2008/2009 and 2009/2010 seasons.

Seasons	2008/2009				2009/2010			
Characters	Dry weight / plant (g)				Dry weight / plant (g)			
Treatments	Roots	Leaves	Bulb	Total	Roots	Leaves	Bulb	Total
NPK (control)	0.49 ^a	16.08 ^a	14.37 ^a	30.94 ^{ab}	0.56 ^a	16.30 ^a	15.42 ^a	32.28 ^a
Chicken manure	0.42 ^b	15.93 ^a	13.75 ^a	30.10 ^a	0.55 ^{ab}	16.30 ^a	15.34 ^a	32.19 ^a
Nitrobein	0.30 ^d	13.93 ^e	10.46 ^c	24.69 ^{de}	0.49 ^{de}	15.39 ^f	14.64 ^d	30.52 ^e
Phosphorein	0.35 ^c	14.16 ^d	12.01 ^b	26.52 ^{cd}	0.50 ^{cd}	15.54 ^e	14.93 ^c	30.97 ^d
Yeast	0.29 ^d	13.48 ^f	9.94 ^c	23.71 ^e	0.48 ^e	15.03 ^g	13.95 ^e	29.46 ^f
Nitropein + Phosphorein	0.39 ^{bc}	14.38 ^c	12.59 ^b	27.36 ^c	0.51 ^{cd}	15.67 ^{de}	15.13 ^b	31.31 ^c
Nitrobein+ Yeast	0.35 ^c	14.13 ^d	10.85 ^c	25.33 ^{cde}	0.51 ^c	15.72 ^d	14.72 ^d	30.95 ^d
Phosphorein+ Yeast	0.38 ^{bc}	14.30 ^{cd}	12.12 ^b	26.80 ^c	0.54 ^b	15.94 ^c	15.13 ^b	31.61 ^b
Nitrobein+Phosphorein+ Yeast	0.41 ^b	15.11 ^b	13.66 ^a	29.18 ^b	0.54 ^b	16.08 ^b	15.30 ^a	31.92 ^b

Values having the same alphabetical letter (s) did not significantly differ at 0.05 level of significance according to Duncan's multiple range test.

Table 6: Effect of chemical, organic , biofertilizers and yeast on the yield and its components of onion plants during 2008/2009 and 2009/2010 seasons.

Seasons	2008/2009					2009/2010				
Characters Treatments	Average bulb		Bulb yield (Ton/fed.)			Average bulb		Bulb yield (Ton/fed.)		
	Diameter (cm)	Fresh weight (g)	Marketable	Culls	Total	Diameter (cm)	Fresh weight (g)	Marketable	Culls	Total
NPK (control)	6.89 ^a	136.93 ^a	14.982 ^a	0.641 ^a	15.623 ^a	7.01 ^a	147.56 ^a	15.216 ^a	0.646 ^a	15.862 ^a
Chicken manure	6.82 ^{ab}	132.50 ^a	14.792 ^b	0.511 ^{cd}	15.303 ^b	6.98 ^a	145.43 ^a	14.793 ^b	0.550 ^a	15.343 ^b
Nitrobein	6.19 ^{cd}	109.45 ^c	13.073 ^h	0.460 ^e	13.533 ^h	6.39 ^d	118.55 ^e	13.250 ^f	0.633 ^a	13.883 ^g
Phosphorein	6.43 ^{bc}	112.14 ^c	13.400 ^f	0.453 ^e	13.853 ^f	6.56 ^{cd}	131.00 ^{cd}	13.383 ^f	0.560 ^a	13.943 ^f
Yeast	6.01 ^d	106.33 ^c	12.661 ⁱ	0.561 ^b	13.222 ⁱ	6.14 ^e	113.16 ^e	12.995 ^g	0.653 ^a	13.648 ^h
Nitropein + Phosphorein	6.81 ^{ab}	124.84 ^b	13.705 ^e	0.405 ^f	14.110 ^e	6.90 ^{ab}	137.21 ^{bc}	14.223 ^c	0.531 ^a	14.754 ^c
Nitrobein+ Yeast	6.63 ^{ab}	122.54 ^b	13.673 ^c	0.533 ^c	13.756 ^g	6.73 ^{bc}	132.43 ^{cd}	13.663 ^e	0.616 ^a	14.279 ^d
Phosphorein+ Yeast	6.42 ^{bc}	121.06 ^b	13.223 ^g	0.486 ^d	13.719 ^d	6.64 ^{bc}	127.20 ^d	13.550 ^e	0.545 ^a	14.095 ^e
Nitrobein+Phosphorein + Yeast	6.82 ^{ab}	126.31 ^b	14.110 ^d	0.401 ^f	14.511 ^c	6.92 ^a	143.96 ^{ab}	14.223 ^c	0.530 ^a	14.753 ^c

Values having the same alphabetical letter (s) did not significantly differ at 0.05 level of significance according to Duncan's multiple range test.

Table 7: Effect of chemical , organic , biofertilizers and yeast on the nutritional value of bulb yield during 2008/2009 and 2009/2010 seasons.

Seasons	2008/2009					2009/2010				
Characters Treatments	Mineral content (%)			Total protein	T.S.S	Mineral content (%)			Total protein	T.S.S
	N	P	K			N	P	K		
NPK (control)	2.663 ^a	0.384 ^a	3.302 ^a	16.643 ^a	13.150 ^a	2.876 ^a	0.393 ^a	3.293 ^a	17.973 ^a	13.350 ^a
Chicken manure	2.636 ^a	0.379 ^{abc}	3.278 ^b	16.476 ^a	13.016 ^b	2.786 ^b	0.387 ^a	3.282 ^{ab}	17.413 ^b	13.150 ^b
Nitrobein	2.350 ^c	0.338 ^g	3.228 ^e	14.683 ^c	12.586 ^{fg}	2.396 ^e	0.356 ^f	3.238 ^e	14.976 ^e	12.666 ^e
Phosphorein	0.374 ^b	0.362 ^{d e}	3.214 ^f	14.143 ^d	12.700 ^e	2.306 ^f	0.375 ^{bc}	3.236 ^e	14.413 ^f	12.790 ^d
Yeast	2.226 ^d	0.370 ^c	3.204 ^f	13.913 ^d	12.500 ^g	2.276 ^f	0.347 ^f	3.221 ^f	14.223 ^f	12.656 ^e
Nitropein + Phosphorein	2.503 ^b	0.374 ^b	3.245 ^d	15.643 ^b	12.823 ^d	2.643 ^c	0.380 ^b	3.262 ^c	16.516 ^c	13.060 ^b
Nitrobein+ Yeast	2.410 ^c	0.356 ^e	3.240 ^{ed}	15.056 ^c	12.743 ^{de}	2.540 ^d	0.372 ^{cd}	3.257 ^{cd}	15.870 ^d	12.926 ^c
Phosphorein+ Yeast	2.350 ^c	0.345 ^f	3.229 ^e	14.683 ^c	12.676 ^{ef}	2.436 ^e	0.367 ^d	3.245 ^{de}	15.226 ^e	12.763 ^d
Nitrobein+Phosphorein+ Yeast	2.626 ^a	0.376 ^b	3.259 ^c	16.413 ^a	12.916 ^c	2.653 ^c	0.388 ^a	3.277 ^b	16.580 ^c	13.083 ^b

Values having the same alphabetical letter (s) did not significantly differ at 0.05 level of significance according to Duncan's multiple range test.