

Table 4: Effect of nitrogen sources and potassium application on the vegetative growth characters of onion plants during 2007/2008 season.

Nitrogen sources	Potassium application		Plant height (cm)	No. of leaves/plant	Fresh weight/plant (g)			Dry weight/plant (g)			Diameter (cm)		Bulbing ratio
	Potassium sulphate	Potassium oxide			Leaves	Bulb	Total	Leaves	Bulb	Total	Neck	Bulb	
100% Mineral-N (90 kg N/fed)	48kg K ₂ O/fed	+ 0	81.37	10.25	109.82	125.33	235.15	33.40	27.80	61.20	3.05	5.66	0.538
	24kg K ₂ O/fed	+ 0	75.70	9.86	99.72	105.53	205.25	31.55	22.50	54.05	2.69	5.31	0.506
	0	+ 1 %	70.77	9.77	90.61	97.81	188.42	28.94	21.73	50.67	2.45	5.15	0.475
	0	+ 2 %	78.91	10.17	96.67	115.63	212.30	30.10	26.75	56.85	2.76	5.49	0.502
	24kg K ₂ O/fed	+ 1 %	77.41	9.98	104.97	120.70	225.67	32.69	26.78	59.47	2.86	5.53	0.517
	24kg K ₂ O/fed	+ 2 %	83.40	10.45	112.00	130.50	242.50	34.75	28.60	63.35	3.20	5.87	0.545
Mean			77.93	10.08	102.30	115.92	218.22	31.91	25.69	57.60	2.83	5.50	0.512
100% Organic-N (90 kg N/fed)	48kg K ₂ O/fed	+ 0	78.80	10.08	102.11	118.30	220.41	30.70	25.51	56.21	2.81	5.51	0.509
	24kg K ₂ O/fed	+ 0	72.33	9.77	99.36	100.57	199.93	28.50	21.05	49.55	2.49	5.21	0.479
	0	+ 1 %	67.94	9.69	89.95	90.80	180.75	26.92	19.60	46.52	2.34	5.00	0.468
	0	+ 2 %	73.10	10.0	102.00	108.32	210.34	28.87	21.90	50.77	2.53	5.24	0.482
	24kg K ₂ O/fed	+ 1 %	75.57	9.82	100.18	112.43	212.61	29.44	23.30	52.74	2.71	5.46	0.496
	24kg K ₂ O/fed	+ 2 %	79.51	10.20	104.65	120.55	225.20	31.80	26.72	58.52	2.84	5.65	0.502
Mean			74.54	9.93	99.71	108.49	207.60	29.37	23.01	52.39	2.62	5.35	0.489
50% Mineral-N (45 kg N/fed) + 50% organic-N (45 kg N/fed)	48kg K ₂ O/fed	+ 0	83.63	10.92	114.54	130.61	245.15	35.71	28.65	64.36	3.22	5.97	0.539
	24kg K ₂ O/fed	+ 0	77.90	10.05	103.60	115.17	218.77	32.47	26.83	59.30	2.89	5.65	0.511
	0	+ 1 %	74.10	9.89	95.28	105.23	200.51	29.15	22.50	51.65	2.67	5.22	0.511
	0	+ 2 %	79.07	10.44	105.19	120.41	225.60	31.98	27.47	59.45	3.06	5.89	0.521
	24kg K ₂ O/fed	+ 1 %	80.82	10.25	106.66	125.65	232.31	33.62	28.67	62.29	3.09	5.89	0.524
	24kg K ₂ O/fed	+ 2 %	85.13	10.95	114.08	136.12	250.20	35.91	29.75	65.66	3.37	6.11	0.552
Mean			80.11	10.42	106.57	122.19	228.76	33.14	27.31	60.45	3.05	5.79	0.526
Average of K	48kg K ₂ O/fed	+ 0	81.27	10.42	108.82	124.75	233.57	33.27	27.32	60.59	3.03	5.71	0.530
	24kg K ₂ O/fed	+ 0	75.31	9.89	100.89	107.09	207.98	30.84	23.46	54.30	2.69	5.39	0.499
	0	+ 1 %	70.93	9.79	91.95	97.95	189.98	28.34	21.27	49.61	2.49	5.12	0.486
	0	+ 2 %	77.03	10.20	101.29	114.79	216.08	30.32	25.37	55.69	2.78	5.54	0.502
	24kg K ₂ O/fed	+ 1 %	77.93	10.02	103.94	119.59	223.53	31.92	26.25	58.17	2.89	5.63	0.513
	24kg K ₂ O/fed	+ 2 %	82.68	10.54	110.24	129.06	239.60	34.15	28.36	62.51	3.14	5.88	0.534
L.S.D at 5%	N-nitrogen		1.67	0.08	0.10	0.04	0.13	0.03	0.05	0.06	0.08	0.06	0.012
	K-Potassium		1.79	0.08	0.13	0.04	0.14	0.03	0.06	0.04	0.09	0.06	0.016
	Interaction		N.S.	0.13	0.22	0.07	0.25	0.05	0.09	0.06	N.S.	0.11	N.S.

Table 5: Effect of nitrogen sources and potassium application on the vegetative growth characters of onion plants during 2008/2009 season.

Nitrogen sources	Potassium application		Plant height (cm)	No. of leaves/plant	Fresh weight/plant (g)			Dry weight/plant (g)			Diameter (cm)		Bulbing ratio
	Potassium sulphate	Potassium oxide			Leaves	Bulb	Total	Leaves	Bulb	Total	Neck	Bulb	
100% Mineral-N (90 kg N/fed)	48kg K ₂ O/fed	+ 0	83.85	11.31	110.50	135.23	245.73	33.60	29.20	62.80	3.32	5.98	0.555
	24kg K ₂ O/fed	+ 0	81.33	10.68	105.30	120.50	225.80	32.85	27.52	60.37	2.80	5.49	0.510
	0	+ 1 %	76.97	10.56	95.21	115.34	210.55	29.90	26.28	56.18	2.55	5.29	0.482
	0	+ 2 %	81.97	11.02	100.00	122.27	222.27	31.40	27.10	58.50	2.98	5.71	0.522
	24kg K ₂ O/fed	+ 1 %	82.32	10.84	107.74	130.66	238.40	33.00	28.95	61.95	3.18	5.94	0.535
	24kg K ₂ O/fed	+ 2 %	84.61	11.44	113.97	139.26	253.23	58.80	30.75	66.55	3.26	6.01	0.542
Mean			81.84	10.97	105.45	127.21	232.66	32.76	28.30	61.06	3.02	5.74	0.526
100% Organic-N (90 kg N/fed)	48kg K ₂ O/fed	+ 0	84.74	10.73	104.91	125.44	230.35	31.05	27.60	58.65	3.18	5.87	0.541
	24kg K ₂ O/fed	+ 0	78.57	10.27	100.31	110.50	210.81	29.48	22.30	51.78	2.70	5.35	0.504
	0	+ 1 %	74.82	10.02	91.95	100.70	192.65	28.55	21.80	50.35	2.59	5.20	0.498
	0	+ 2 %	80.25	10.50	97.56	120.88	218.44	30.24	24.44	54.68	2.80	5.56	0.503
	24kg K ₂ O/fed	+ 1 %	81.27	10.35	99.57	121.62	221.19	30.91	26.66	57.57	2.87	5.61	0.511
	24kg K ₂ O/fed	+ 2 %	83.03	10.81	108.27	130.23	238.50	32.90	28.96	61.84	3.05	5.71	0.534
Mean			80.45	10.45	100.43	118.23	218.66	30.52	25.29	55.81	2.86	5.55	0.515
50% Mineral-N (45 kg N/fed) + 50% organic-N (45 kg N/fed)	48kg K ₂ O/fed	+ 0	87.11	11.67	112.84	137.41	250.25	34.48	30.38	64.86	3.50	6.15	0.569
	24kg K ₂ O/fed	+ 0	80.27	11.23	109.99	125.67	235.66	35.50	29.65	63.15	3.19	5.81	0.549
	0	+ 1 %	78.15	11.02	101.22	120.89	222.11	30.80	25.80	56.60	2.88	5.46	0.527
	0	+ 2 %	82.27	11.47	105.99	134.51	240.50	32.70	30.50	63.20	3.29	5.96	0.552
	24kg K ₂ O/fed	+ 1 %	84.80	11.36	108.99	130.45	239.44	34.20	30.95	65.15	3.37	6.03	0.558
	24kg K ₂ O/fed	+ 2 %	88.87	11.85	119.83	145.28	265.11	36.72	32.40	69.12	3.58	6.21	0.576
Mean			83.58	11.43	109.81	132.37	242.18	33.73	29.95	63.68	3.30	5.94	0.551
Average of K	48kg K ₂ O/fed	+ 0	85.23	11.24	109.42	132.69	242.11	33.04	29.06	62.10	3.34	6.00	0.555
	24kg K ₂ O/fed	+ 0	80.56	10.73	105.20	118.89	224.09	31.94	26.49	58.43	2.89	5.55	0.521
	0	+ 1 %	76.65	10.53	96.13	112.31	208.44	29.75	24.63	54.38	2.67	5.32	0.502
	0	+ 2 %	81.49	11.00	101.18	125.89	227.07	31.45	27.35	58.79	3.03	5.74	0.525
	24kg K ₂ O/fed	+ 1 %	82.79	10.85	105.43	127.58	233.01	32.70	28.85	61.56	3.14	5.86	0.534
	24kg K ₂ O/fed	+ 2 %	85.50	11.37	114.02	138.26	252.28	35.14	30.70	65.84	3.29	5.98	0.550
L.S.D at 5%	N-nitrogen		1.61	0.02	0.10	0.07	0.30	0.06	0.04	0.05	0.09	0.07	0.012
	K-Potassium		1.43	0.04	0.02	0.04	0.08	0.04	0.05	0.05	0.11	0.09	0.016
	Interaction		N.S.	0.07	0.03	0.07	0.14	0.07	0.09	0.08	N.S.	N.S.	N.S.

Table 6: Effect of nitrogen sources and potassium application on the nutritional status of onion plants during 2007/2008season.

Nitrogen sources	Potassium application		Minerals content (%)					
	Potassium sulphate	Potassium oxide	N		P		K	
			Leaves	Bulb	Leaves	Bulb	Leaves	Bulb
100% Mineral-N (90 kg N/fed)	48kg K ₂ O/fed	+ 0	2.92	1.71	0.465	0.363	3.32	2.06
	24kg K ₂ O/fed	+ 0	2.72	1.55	0.445	0.339	3.20	1.95
	0	+ 1 %	2.65	1.45	0.435	0.293	3.15	1.91
	0	+ 2 %	2.80	1.60	0.440	0.310	3.26	2.01
	24kg K ₂ O/fed	+ 1 %	2.89	1.67	0.457	0.326	3.30	1.99
	24kg K ₂ O/fed	+ 2 %	2.98	1.80	0.471	0.345	3.40	2.12
Mean			2.83	1.63	0.452	0.329	3.27	2.01
100% Organic-N (90 kg N/fed)	48kg K ₂ O/fed	+ 0	2.81	1.65	0.435	0.345	3.24	2.00
	24kg K ₂ O/fed	+ 0	2.60	1.38	0.420	0.315	3.16	1.96
	0	+ 1 %	2.53	1.25	0.407	0.277	3.30	1.87
	0	+ 2 %	2.65	1.48	0.425	0.308	3.20	1.91
	24kg K ₂ O/fed	+ 1 %	2.72	1.55	0.430	0.328	3.18	1.96
	24kg K ₂ O/fed	+ 2 %	2.89	1.70	0.451	0.339	3.30	2.10
Mean			2.70	1.50	0.428	0.319	3.23	1.97
50% Mineral-N (45 kg N/fed) + 50% organic-N (45 kg N/fed)	48kg K ₂ O/fed	+ 0	3.08	1.79	0.472	0.380	3.50	2.29
	24kg K ₂ O/fed	+ 0	2.79	1.58	0.450	0.357	3.35	2.20
	0	+ 1 %	2.68	1.42	0.431	0.338	3.20	2.17
	0	+ 2 %	2.85	1.65	0.440	0.357	3.40	2.26
	24kg K ₂ O/fed	+ 1 %	2.93	1.72	0.465	0.364	3.43	2.22
	24kg K ₂ O/fed	+ 2 %	3.17	1.85	0.480	0.378	3.55	2.31
Mean			2.92	1.67	0.456	0.362	3.41	2.24
Average of K	48kg K ₂ O/fed	+ 0	2.94	1.72	0.457	0.363	3.35	2.12
	24kg K ₂ O/fed	+ 0	2.70	1.50	0.438	0.337	3.24	2.04
	0	+ 1 %	2.62	1.37	0.424	0.303	3.22	1.98
	0	+ 2 %	2.77	1.58	0.435	0.325	3.29	2.06
	24kg K ₂ O/fed	+ 1 %	2.85	1.65	0.450	0.339	3.30	2.06
	24kg K ₂ O/fed	+ 2 %	3.01	1.78	0.467	0.354	3.42	2.18
L.S.D at 5%	N-nitrogen		0.02	0.02	0.004	0.008	0.04	0.02
	K-Potassium		0.03	0.03	0.001	0.010	0.03	0.02
	Interaction		0.06	0.04	0.003	N.S.	0.05	0.04

Table 7: Effect of nitrogen sources and potassium application on the nutritional status of onion plants during 2008/2009season.

Nitrogen sources	Potassium application		Minerals content (%)					
	Potassium sulphate	Potassium oxide	N		P		K	
			Leaves	Bulb	Leaves	Bulb	Leaves	Bulb
100% Mineral-N (90 kg N/fed)	48kg K ₂ O/fed	+ 0	2.97	1.80	0.475	0.372	3.45	2.12
	24kg K ₂ O/fed	+ 0	2.80	1.59	0.461	0.357	3.31	2.04
	0	+ 1 %	2.73	1.50	0.442	0.325	3.23	1.91
	0	+ 2 %	2.90	1.65	0.456	0.344	3.33	2.08
	24kg K ₂ O/fed	+ 1 %	2.92	1.72	0.465	0.361	3.40	2.12
	24kg K ₂ O/fed	+ 2 %	3.10	1.88	0.485	0.375	3.55	2.21
Mean			2.90	1.69	0.464	0.356	3.38	2.08
100% Organic-N (90 kg N/fed)	48kg K ₂ O/fed	+ 0	2.85	1.67	0.455	0.365	3.37	2.06
	24kg K ₂ O/fed	+ 0	2.70	1.42	0.440	0.353	3.22	2.01
	0	+ 1 %	2.65	1.30	0.428	0.306	3.14	1.87
	0	+ 2 %	2.75	1.50	0.435	0.325	3.25	1.90
	24kg K ₂ O/fed	+ 1 %	2.80	1.60	0.445	0.355	3.34	2.01
	24kg K ₂ O/fed	+ 2 %	2.93	1.75	0.462	0.388	3.42	2.11
Mean			2.78	1.54	0.444	0.349	3.29	1.99
50% Mineral-N (45 kg N/fed) + 50% organic-N (45 kg N/fed)	48kg K ₂ O/fed	+ 0	3.13	1.87	0.488	0.385	3.65	2.33
	24kg K ₂ O/fed	+ 0	2.89	1.65	0.470	0.362	3.43	2.26
	0	+ 1 %	2.80	1.55	0.450	0.330	3.25	2.23
	0	+ 2 %	2.91	1.71	0.465	0.370	3.48	2.27
	24kg K ₂ O/fed	+ 1 %	2.99	1.80	0.473	0.376	3.54	2.30
	24kg K ₂ O/fed	+ 2 %	3.22	1.95	0.498	0.394	3.73	2.37
Mean			2.99	1.76	0.474	0.369	3.51	2.29
Average of K	48kg K ₂ O/fed	+ 0	2.98	1.78	0.472	0.374	3.49	2.17
	24kg K ₂ O/fed	+ 0	2.79	1.55	0.457	0.357	3.32	2.10
	0	+ 1 %	2.73	1.45	0.440	0.320	3.21	2.01
	0	+ 2 %	2.85	1.62	0.452	0.346	3.35	2.08
	24kg K ₂ O/fed	+ 1 %	2.90	1.71	0.461	0.364	3.43	2.14
	24kg K ₂ O/fed	+ 2 %	3.08	1.86	0.481	0.386	3.57	2.23
L.S.D at 5%	N-nitrogen		0.02	0.03	0.001	0.004	0.03	0.03
	K-Potassium		0.03	0.03	0.001	0.007	0.02	0.03
	Interaction		0.05	N.S.	0.002	0.012	0.04	0.05

Table 8. Effect of nitrogen sources and potassium application on the yield and its components of onion plants during 2007/2008season.

Nitrogen sources	Potassium application		Yield and its components (ton/fed)							
	Potassium sulphate	Potassium oxide	Weight of bulb grades				Total yield	Exportable yield	Marketable yield	Average bulb weight (g)
			Grade 1	Grade 2	Grade 3	Grade 4				
100% Mineral-N (90 kg N/fed)	48kg K ₂ O/fed	+ 0	6.253	6.002	3.231	0.667	16.153	12.255	15.486	141.736
	24kg K ₂ O/fed	+ 0	4.255	5.426	4.788	0.881	15.350	9.681	14.469	122.266
	0	+ 1 %	3.846	4.275	5.723	1.007	14.851	8.121	13.844	117.436
	0	+ 2 %	5.234	6.005	3.398	0.867	15.504	11.239	14.637	128.283
	24kg K ₂ O/fed	+ 1 %	5.493	6.251	3.269	0.790	15.803	11.744	15.013	133.740
	24kg K ₂ O/fed	+ 2 %	6.826	5.962	3.086	0.636	16.510	12.788	15.874	154.233
Mean			5.318	5.653	3.915	0.808	15.694	10.971	14.886	132.949
100% Organic-N (90 kg N/fed)	48kg K ₂ O/fed	+ 0	5.451	4.873	4.426	0.850	15.600	10.324	14.750	134.266
	24kg K ₂ O/fed	+ 0	3.551	4.601	5.496	1.052	14.700	8.152	13.648	113.043
	0	+ 1 %	3.160	3.913	6.182	1.065	14.320	7.073	13.255	101.803
	0	+ 2 %	4.634	4.919	4.541	0.906	15.000	9.553	14.094	122.440
	24kg K ₂ O/fed	+ 1 %	5.164	4.701	4.559	0.876	15.300	9.865	14.424	130.266
	24kg K ₂ O/fed	+ 2 %	5.831	5.094	4.285	0.760	15.970	10.925	15.210	141.343
Mean			4.631	4.684	4.914	0.918	15.147	9.315	14.229	123.860
50% Mineral-N (45 kg N/fed) + 50% organic-N (45 kg N/fed)	48kg K ₂ O/fed	+ 0	6.554	5.806	3.580	0.600	16.540	12.360	15.940	150.910
	24kg K ₂ O/fed	+ 0	4.326	5.472	5.043	0.860	15.701	9.798	14.841	132.910
	0	+ 1 %	3.957	4.871	5.451	1.076	15.355	8.828	14.279	120.053
	0	+ 2 %	5.290	6.038	3.692	0.784	15.804	11.328	15.020	140.000
	24kg K ₂ O/fed	+ 1 %	5.326	5.912	4.236	0.681	16.155	11.238	15.474	145.106
	24kg K ₂ O/fed	+ 2 %	6.955	5.840	3.554	0.551	16.900	12.795	16.349	161.686
Mean			5.401	5.656	4.259	0.758	16.074	11.057	15.316	141.790
Average of K	48kg K ₂ O/fed	+ 0	6.086	5.560	3.745	0.705	16.097	11.646	15.392	142.328
	24kg K ₂ O/fed	+ 0	4.044	5.166	5.109	0.931	15.250	9.210	14.319	122.740
	0	+ 1 %	3.654	4.353	5.785	1.049	14.842	8.007	13.792	113.097
	0	+ 2 %	5.052	5.654	3.877	0.852	15.436	10.706	14.583	130.241
	24kg K ₂ O/fed	+ 1 %	5.327	5.621	4.021	0.782	15.753	10.949	14.970	136.371
	24kg K ₂ O/fed	+ 2 %	6.537	5.632	3.641	0.649	16.460	12.169	15.811	152.421
L.S.D at 5%	N-nitrogen		0.005	0.035	0.039	0.064	0.124	0.055	0.057	2.203
	K-Potassium		0.004	0.074	0.060	0.063	0.099	0.077	0.104	2.260
	Interaction		0.007	0.129	0.105	N.S.	N.S.	0.133	N.S.	3.915

Table 9. Effect of nitrogen sources and potassium application on the yield and its components of onion plants during 2008/2009season.

Nitrogen sources	Potassium application		Yield and its components (ton/fed)							
	Potassium sulphate	Potassium oxide	Weight of bulb grades				Total yield	Exportable yield	Marketable yield	Average bulb weight (g)
			Grade 1	Grade 2	Grade 3	Grade 4				
100% Mineral-N (90 kg N/fed)	48kg K ₂ O/fed	+ 0	6.462	6.149	3.119	0.770	15.500	12.611	15.730	152.646
	24kg K ₂ O/fed	+ 0	4.204	5.573	4.913	0.960	15.650	9.777	14.690	131.450
	0	+ 1 %	3.949	4.500	5.581	1.070	15.100	8.449	14.030	122.616
	0	+ 2 %	5.465	6.070	4.168	0.903	16.606	11.535	15.703	138.606
	24kg K ₂ O/fed	+ 1 %	5.629	6.400	3.370	0.801	16.200	12.029	15.399	143.733
	24kg K ₂ O/fed	+ 2 %	5.900	6.000	3.351	0.670	16.921	12.900	16.251	164.416
Mean			5.268	5.782	4.083	0.862	15.996	11.216	15.300	142.245
100% Organic-N (90 kg N/fed)	48kg K ₂ O/fed	+ 0	5.401	4.830	4.319	0.900	15.450	10.231	14.550	140.223
	24kg K ₂ O/fed	+ 0	3.502	4.701	5.702	1.003	14.908	8.203	13.905	129.523
	0	+ 1 %	3.100	4.106	6.073	1.121	14.400	7.206	13.279	112.300
	0	+ 2 %	4.800	4.903	4.642	1.030	15.375	9.703	14.345	121.343
	24kg K ₂ O/fed	+ 1 %	5.202	4.939	4.679	0.900	15.720	10.141	14.820	134.100
	24kg K ₂ O/fed	+ 2 %	5.902	5.251	4.250	0.799	16.202	11.153	15.403	152.203
Mean			4.651	4.788	4.944	0.958	15.342	9.439	14.383	131.615
50% Mineral-N (45 kg N/fed) + 50% organic-N (45 kg N/fed)	48kg K ₂ O/fed	+ 0	6.971	6.000	3.739	0.640	17.350	12.971	16.710	162.153
	24kg K ₂ O/fed	+ 0	4.350	5.768	5.332	0.900	16.350	10.118	15.450	141.833
	0	+ 1 %	4.003	4.902	5.695	1.100	15.700	8.905	14.600	132.103
	0	+ 2 %	5.641	6.426	3.743	0.840	16.650	12.067	15.810	150.266
	24kg K ₂ O/fed	+ 1 %	5.550	6.171	4.429	0.720	16.870	11.721	16.150	158.750
	24kg K ₂ O/fed	+ 2 %	7.310	5.949	3.836	0.605	17.700	13.259	17.095	175.243
Mean			5.637	5.869	4.462	0.800	16.770	11.506	15.969	153.391
Average of K	48kg K ₂ O/fed	+ 0	6.278	5.659	3.725	0.770	16.433	11.937	15.663	151.674
	24kg K ₂ O/fed	+ 0	4.018	5.347	5.315	0.954	15.636	9.366	14.681	134.268
	0	+ 1 %	3.684	4.502	5.783	1.097	15.066	8.186	13.969	122.340
	0	+ 2 %	5.302	5.799	4.184	0.924	16.210	11.101	15.286	145.527
	24kg K ₂ O/fed	+ 1 %	5.460	5.836	4.159	0.807	16.263	11.297	15.456	163.954
	24kg K ₂ O/fed	+ 2 %	6.704	5.733	3.812	0.691	16.940	12.437	16.249	163.954
L.S.D at 5%	N-nitrogen		0.071	0.056	0.206	0.071	0.291	N.S.	0.600	1.696
	K-Potassium		0.050	0.659	0.247	0.030	0.290	1.748	0.551	2.353
	Interaction		0.086	1.141	0.428	0.052	N.S.	N.S.	N.S.	4.076

Table 10. Effect of nitrogen sources and potassium application on the nutritional value of bulb yield during 2007/2008 and 2008/2009 seasons.

Nitrogen sources	Potassium application		2007/2008				2008/2009			
	Potassium sulphate	Potassium oxide	Minerals content (%)			T.S.S. (%)	Minerals content (%)			T.S.S. (%)
			N	P	K		N	P	K	
100% Mineral-N (90 kg N/fed)	48kg K ₂ O/fed	+ 0	1.973	0.391	2.610	13.9	2.066	0.400	2.700	14.1
	24kg K ₂ O/fed	+ 0	1.786	0.360	2.320	13.7	1.833	0.380	2.555	13.8
	0	+ 1 %	1.720	0.351	2.250	13.8	1.786	0.448	2.420	13.6
	0	+ 2 %	1.823	0.370	2.400	13.5	1.920	0.385	2.500	13.9
	24kg K ₂ O/fed	+ 1 %	1.913	0.380	2.521	13.8	1.950	0.391	2.601	13.9
	24kg K ₂ O/fed	+ 2 %	2.043	0.400	2.700	14.0	2.156	0.415	2.830	14.2
Mean			1.876	0.375	2.466	13.8	1.952	0.403	2.600	13.9
100% Organic-N (90 kg N/fed)	48kg K ₂ O/fed	+ 0	1.983	0.382	2.450	13.9	2.023	0.395	2.600	14.0
	24kg K ₂ O/fed	+ 0	1.806	0.370	2.150	13.6	1.850	0.385	2.501	13.7
	0	+ 1 %	1.713	0.355	2.001	13.3	1.756	0.371	2.350	13.7
	0	+ 2 %	1.800	0.372	2.250	13.6	1.786	0.389	2.550	13.8
	24kg K ₂ O/fed	+ 1 %	1.860	0.379	2.390	13.7	1.930	0.381	2.580	13.8
	24kg K ₂ O/fed	+ 2 %	1.970	0.393	2.590	13.8	2.086	0.403	2.721	14.0
Mean			1.855	0.375	2.305	13.7	1.905	0.387	2.550	13.8
50% Mineral-N (45 kg N/fed) + 50% organic-N (45 kg N/fed)	48kg K ₂ O/fed	+ 0	2.020	0.400	2.751	13.8	2.220	0.428	2.900	14.2
	24kg K ₂ O/fed	+ 0	1.916	0.375	2.520	13.7	1.956	0.409	2.800	13.8
	0	+ 1 %	1.856	0.360	2.410	13.6	1.883	0.392	2.600	13.8
	0	+ 2 %	1.906	0.381	2.550	13.8	2.093	0.410	2.740	14.0
	24kg K ₂ O/fed	+ 1 %	1.966	0.392	2.600	13.8	2.103	0.420	2.861	14.1
	24kg K ₂ O/fed	+ 2 %	2.106	0.410	2.860	14.0	2.260	0.435	3.000	14.3
Mean			1.962	0.386	2.615	13.8	2.071	0.415	2.816	14.0
Average of K	48kg K ₂ O/fed	+ 0	1.992	0.391	2.603	13.9	2.103	0.407	2.733	14.1
	24kg K ₂ O/fed	+ 0	1.836	0.368	2.330	13.7	1.880	0.391	2.618	13.8
	0	+ 1 %	1.763	0.355	2.220	13.6	1.808	0.403	2.456	13.7
	0	+ 2 %	1.843	0.374	2.400	3.6	1.933	0.394	2.596	13.9
	24kg K ₂ O/fed	+ 1 %	1.913	0.383	2.503	13.7	1.964	0.397	2.850	13.9
	24kg K ₂ O/fed	+ 2 %	2.040	0.401	2.716	13.9	2.167	0.417	2.860	14.1
L.S.D at 5%	N-nitrogen		0.028	0.003	0.024	N.S.	0.026	0.020	0.026	0.1
	K-Potassium		0.030	0.003	0.027	0.2	0.027	N.S.	0.030	0.1
	Interaction		0.052	0.005	0.047	N.S.	0.047	N.S.	0.052	N.S.