

**Table(5):** Concentration (%) and uptake (mg/ plant) of nitrogen , phosphorous and potassium by onion plants at 100 days after transplanting as affected by applying chicken manure and ammonium sulfate during the two growth seasons (2001/2002 & 2002/2003) .

Treatment	Nitrogen		Phosphorus		Potassium		Nitrogen		Phosphorus		Potassium		
	%	Uptake, (mg/ plant)	%	Uptake, (mg/ plant)	%	Uptake, (mg/ plant)	%	Uptake, (mg/ plant)	%	Uptake, (mg/ plant)	%	Uptake, (mg/ plant)	
First season						Second season							
Control	0.96	14.21	0.20	2.96	0.84	12.43	0.88	13.36	0.20	2.76	0.68	15.37	
A	a <sub>1</sub>	1.81	131.21	0.23	16.49	1.43	102.53	1.75	120.28	0.24	16.49	1.20	82.44
	a <sub>2</sub>	1.85	144.67	0.27	21.11	1.60	125.12	1.75	125.30	0.27	19.33	1.50	107.40
	a <sub>3</sub>	1.92	156.86	0.33	26.96	1.71	139.71	1.81	145.71	0.30	24.15	1.71	137.66
	a <sub>4</sub>	2.01	187.55	0.42	39.19	1.78	166.01	1.92	166.85	0.38	33.02	1.76	152.94
B	b <sub>1</sub>	1.82	131.22	0.31	22.35	1.26	90.83	1.73	123.68	0.28	20.02	1.31	93.67
	b <sub>2</sub>	1.84	151.50	0.33	27.16	1.40	115.22	1.81	137.20	0.31	23.50	1.49	112.18
	b <sub>3</sub>	1.91	172.05	0.36	32.40	1.52	136.80	1.89	165.56	0.34	29.78	1.74	152.34
	b <sub>4</sub>	2.05	220.99	.40	43.12	1.61	173.56	1.98	198.40	0.41	41.08	1.78	178.36
$\frac{1}{2}$ AB	a <sub>1</sub> b <sub>1</sub>	1.83	161.22	0.30	26.43	1.13	99.55	1.76	148.54	0.29	24.48	1.34	117.10
	a <sub>2</sub> b <sub>2</sub>	1.90	187.72	0.33	32.69	1.39	137.33	1.84	177.93	0.31	30.00	1.57	151.82
	a <sub>3</sub> b <sub>3</sub>	1.96	221.28	0.37	41.77	1.59	179.28	1.92	214.85	0.38	42.52	1.75	195.83
	a <sub>4</sub> b <sub>4</sub>	2.15	267.25	0.51	63.39	1.89	234.93	2.01	236.38	0.48	56.45	1.83	215.21
L.S.D	5%	0.054	27.80	0.039	4.63	0.120	17.35	0.051	17.88	0.038	5.75	0.507	19.27
	1%	0.073	37.91	0.054	6.32	0.164	23.67	0.070	24.38	0.052	7.84	0.691	36.20

A : Chicken manure – a<sub>1</sub>, ,a<sub>2</sub> – a<sub>3</sub> and a<sub>4</sub> represent 2.4.6 and 8 ton / fed ., respectively .

B : Ammonium sulfate – b<sub>1</sub> , b<sub>2</sub> , b<sub>3</sub> , and b<sub>4</sub> represent 37 , 74, 111 and 148 kg N/ fed ., respectively .

$\frac{1}{2}$ AB : - a<sub>1</sub>b<sub>1</sub> , a<sub>2</sub> b<sub>1</sub> , a<sub>3</sub> b<sub>3</sub> and a<sub>4</sub> b<sub>4</sub> represent 1 ton + 18.5 kg N , 2 ton + 37 kg N, 3 ton + 55.5 kg N and 4 ton + 74 kg N / fed ., respectively .

**Table (6):** Concentration (%) and uptake (kg/ fed.) of nitrogen , phosphorus and potassium by onion plant at harvest as affected by applying chicken manure and ammonium sulfate during the two growth seasons (2001/2002 & 2002/2003) .

Treatment	Nitrogen		Phosphorus		Potassium		Nitrogen		Phosphorus		Potassium		
	%	Uptake (kg/ fed.)	%	Uptake (kg/ fed.)	%	Uptake (kg/ fed.)	%	Uptake (kg/ fed.)	%	Uptake (kg/ fed.)	%	Uptake (kg/ fed.)	
First season												Second season	
Control	0.23	0.67	0.13	0.38	0.36	2.51	0.21	0.59	0.15	0.43	0.88	2.46	
A	a <sub>1</sub>	0.75	5.85	0.23	2.18	1.08	8.52	0.71	5.75	0.19	1.54	1.01	8.81
	a <sub>2</sub>	0.81	7.29	0.23	3.15	1.21	12.15	0.78	7.49	0.20	1.92	1.18	11.33
	a <sub>3</sub>	0.89	1.95	0.27	4.80	1.32	19.19	0.89	10.77	0.23	2.78	1.35	16.34
	a <sub>4</sub>	0.93	14.14	0.32	4.86	1.45	22.04	0.96	15.17	0.29	4.58	1.43	22.59
B	b <sub>1</sub>	0.75	6.23	0.23	1.91	1.09	9.05	0.73	6.72	0.20	1.84	1.06	9.75
	b <sub>2</sub>	0.82	9.05	0.29	3.20	1.21	13.32	0.78	8.51	0.23	2.51	1.19	12.97
	b <sub>3</sub>	0.93	12.57	0.32	4.32	1.37	18.50	0.87	11.48	0.24	3.17	1.41	18.62
	b <sub>4</sub>	0.98	17.44	0.38	6.76	1.51	26.88	0.98	16.95	0.31	5.36	1.57	27.16
$\frac{1}{2}$ AB	a <sub>1</sub> b <sub>1</sub>	0.83	9.96	0.28	2.76	1.09	12.97	0.85	9.20	0.25	2.70	1.13	12.20
	a <sub>2</sub> b <sub>2</sub>	0.95	14.27	0.35	3.76	1.35	18.19	0.93	13.14	0.31	4.37	1.37	19.31
	a <sub>3</sub> b <sub>3</sub>	1.03	16.18	0.39	4.24	1.56	20.33	0.97	15.16	0.34	5.30	1.52	27.71
	a <sub>4</sub> b <sub>4</sub>	1.18	22.30	0.43	8.13	1.78	33.64	1.13	21.81	0.39	7.26	1.68	32.42
L.S.D	5%	0.054	1.249	0.030	0.255	0.066	2.670	0.066	1.950	0.034	0.394	0.076	1.620
	1%	0.073	1.703	0.040	0.348	0.090	3.640	0.040	2.660	0.046	0.537	0.104	2.200

A : Chicken manure – a<sub>1</sub> , a<sub>2</sub> , a<sub>3</sub> and a<sub>4</sub> represent 2.4.6 and 8 ton / fed ., respectively .

B : Ammonium sulfate – b<sub>1</sub> , b<sub>2</sub> , b<sub>3</sub> , and b<sub>4</sub> represent 37 , 74, 111 and 148 kg N/ fed ., respectively .

$\frac{1}{2}$ AB : - a<sub>1</sub>b<sub>1</sub>, a<sub>2</sub> b<sub>2</sub>, a<sub>3</sub> b<sub>3</sub> and a<sub>4</sub> b<sub>4</sub> represent 1 ton + 18.5 kg N , 2 ton + 37 kg N, 3 ton + 55.5 kg N and 4 ton + 74 kg N / fed ., respectively .