

Table 3. Cotton yield and its components as affected by crop rotation in 2005 and 2006 seasons

Crop rotation	Traits	Plant height (cm)	No. of fruiting branches/ plant	Total bolls/ Plant	No. of closed bolls/ Plant	No. of open bolls/ Plant	Weight of boll (gm)	Weight of 10 polls (gm)				Seed cotton yield/ plant (gm)	Seed cotton yield/ fed (kantar)
	Seed cotton							Seeds	Lint	Lint %			
2005 season													
1-year rotation		136.33	12.20	19.14	3.76	15.38	1.29	12.91	8.47	4.44	34.52	19.91	6.45
2- year rotation		140.03	13.70	21.17	3.80	17.37	1.32	13.19	8.44	4.75	37.57	22.92	7.48
3- year rotation		141.60	14.37	22.65	3.73	18.92	1.41	14.13	8.83	5.30	37.51	26.70	8.65
L.S.D at 0.05		5.07	0.26	1.05	0.20	0.92	0.06	0.50	0.35	0.20	N.S	1.05	0.50
2006 season													
1-year rotation		140.83	13.23	20.54	4.00	16.54	1.36	13.62	8.92	4.70	35.39	22.55	7.31
2- year rotation		144.07	13.63	20.94	3.76	17.18	1.39	13.94	8.92	5.02	36.09	23.92	7.75
3- year rotation		146.20	14.63	21.37	3.52	17.85	1.43	14.29	8.93	5.36	37.54	25.51	8.27
L.S.D at 0.05		1.65	0.39	0.79	0.21	0.62	0.09	0.26	0.13	0.11	N.S	1.76	0.33

Table 4. Cotton yield and its components as affected by nitrogen fertilizer rates in 2005 and 2006 seasons

N- fertilizer rate	Traits						Weight of 10 polls (gm)				Seed cotton yield/ plant (gm)	Seed cotton yield/ fed (kentar)	
	Plant height (cm)	No. of fruiting branches/ plant	Total bolls/ Plant	No. of closed bolls/ Plant	No. of open bolls/ Plant	Weight of boll (gm)							
							Seed cotton	Seeds	Lint	Lint %			
2005 season													
45 kg N/ fed	133.70	13.27	19.55	3.59	15.96	1.28	12.79	8.24	4.55	35.57	20.48	6.50	
60 kg N/ fed	139.73	13.80	22.61	3.94	18.67	1.37	14.25	8.90	5.02	37.54	25.99	8.47	
75 kg N/ fed	142.97	13.50	20.79	3.75	17.04	1.35	13.52	8.58	4.94	36.54	23.07	7.62	
L.S.D at 0.05	5.07	0.26	1.05	N.S	0.92	0.06	N.S	N.S	0.20	1.62	1.05	0.50	
2006 season													
45 kg N/ fed	139.50	13.50	19.18	3.54	15.64	1.34	13.45	8.67	4.78	35.54	21.02	6.67	
60 kg N/ fed	144.50	14.23	23.47	4.11	19.36	1.43	14.29	9.14	5.15	36.04	27.64	8.95	
75 kg N/ fed	147.10	13.76	20.18	3.63	16.55	1.41	14.09	8.95	5.14	36.48	23.32	7.70	
L.S.D at 0.05	24.70	0.24	0.79	N.S	0.62	0.09	0.26	0.13	0.11	N.S	1.16	0.33	

Table 5. Cotton yield and its components as affected by the interaction between crop rotations and nitrogen fertilizer rates in 2005 and 2006 seasons

Traits			No. of fruiting branch es/ plant	No. of total bolls/ Plant	No. of closed bolls/ Plant	No. of open bolls/ Plant	Weight of boll (gm)	Weight of 10 bolls (gm)				Seed cotton yield/ plant (gm)	Seed cotton yield/ fed (kentar)
Crop Rotation	N rate/ fed	Plant height (cm)						Seed cotton	Seeds	Lint	Lint %		
2005 season													
1- year rotation	45 kg	130.70	12.30	17.71	3.54	14.17	1.20	12.00	7.93	4.08	33.97	17.01	5.40
	60 kg	133.60	12.70	20.91	3.97	16.94	1.36	13.62	8.92	4.70	34.51	23.04	7.46
	75 kg	140.00	12.50	18.79	3.76	15.03	1.31	13.11	8.52	4.59	35.01	19.01	6.50
2- year rotation	45 kg	134.60	13.50	19.64	3.63	16.01	1.25	12.53	8.08	4.45	35.51	20.01	6.35
	60 kg	142.20	13.90	23.34	4.08	19.26	1.46	14.61	8.71	5.90	40.38	26.20	8.65
	75 kg	143.30	13.70	20.52	3.69	16.83	1.34	13.42	8.52	4.90	36.00	22.56	7.45
3- year rotation	45 kg	135.80	14.00	21.31	3.62	17.69	1.38	13.84	8.72	5.12	36.59	24.41	7.75
	60 kg	143.40	14.80	23.58	3.77	19.81	1.45	14.53	9.08	5.45	37.51	28.72	9.30
	75 kg	145.60	14.30	23.06	3.80	19.26	1.40	14.03	8.70	5.33	37.99	26.96	8.90
L.S.D at 0.05		4.70	0.24	0.97	0.19	0.86	0.06	0.46	N.S	N.S	N.S	0.97	N.S
2006 season													
1- year rotation	45 kg	136.00	13.00	18.84	3.77	15.07	1.30	13.01	8.59	4.42	33.97	19.59	6.22
	60 kg	142.30	13.60	23.42	4.45	18.97	1.40	14.02	9.18	4.84	34.52	26.56	8.60
	75 kg	144.20	13.10	19.35	3.77	15.58	1.38	13.83	8.99	4.84	34.99	21.50	7.10
2- year rotation	45 kg	140.20	13.30	19.04	3.52	15.52	1.35	13.52	8.72	4.80	35.50	20.95	6.65
	60 kg	145.00	14.00	23.07	4.04	19.03	1.42	14.24	9.11	5.13	36.03	27.02	8.75
	75 kg	147.00	13.60	20.71	3.73	16.98	1.40	14.04	8.92	5.12	36.47	23.78	7.85
3- year rotation	45 kg	142.30	14.20	19.66	3.34	16.32	1.38	13.83	8.71	5.12	37.02	25.52	7.15
	60 kg	146.20	15.10	23.92	3.83	20.09	1.46	14.62	9.14	5.48	37.48	29.34	9.50
	75 kg	150.10	14.60	20.53	3.39	17.14	1.44	14.40	8.93	5.47	37.99	24.68	8.15
L.S.D at 0.05		1.54	0.37	0.73	0.20	0.57	N.S	0.96	0.98	0.68	1.77	N.S	0.31