

Time in weeks					Factors	
5 ($\bar{X} \pm SD$)	4 ($\bar{X} \pm SD$)	3 ($\bar{X} \pm SD$)	2 ($\bar{X} \pm SD$)	1 ($\bar{X} \pm SD$)	levels of <i>C.cajan</i> in Feed %	Season
2.84± 0.13	2.78± 0.74	2.30± 0.89	2.51± 0.17	2.35± 0.09	0.0%	<i>Winter</i>
2.81± 0.24	2.78± 0.91	2.59± 0.13	2.48± 0.26	2.33± 0.23	10%	
2.89± 0.17	2.78± 0.23	2.47± 0.15	2.55± 0.21	2.17± 0.20	15%	
2.86± 0.27	2.47± 0.18	2.40± 0.12	2.30± 0.18	2.15± 0.15	20%	
2.50± 0.21	2.48 ± 0.99	2.37± 0.13	2.32± 0.17	2.24± 0.12	0.0%	<i>Summer</i>
2.69± 0.44	2.59± 0.25	2.31± 0.14	2.26± 0.16	2.21± 0.15	10%	
3.04± 0.34	2.76± 0.46	2.41± 0.45	2.33± 0.31	2.24± 0.23	15%	
3.47± 0.69	3.12± 0.54	2.71± 0.38	2.38± 0.27	2.22± 0.11	20%	
<i>Main effects</i>						
2.97± 0.25	2.70± 0.20	2.51± 0.15	2.46± 0.22	2.25± 0.19	<i>Winter</i>	<i>Season</i>
2.82± 0.57	2.74± 0.44	2.45± 0.33	2.32± 0.23	2.21± 0.15	<i>Summer</i>	
*	NS	NS	NS	NS	<i>Significance</i>	
2.67 b ± 0.25	2.53 a ± 0.18	2.48 a ± 0.16	2.42a ±0.19	2.29 a ± 0.12	0.0%	<i>Feed</i>
2.95 b ± 0.44	2.68 a ± 0.20	2.45 a ± 0.19	2.37 a ± 0.24	2.27 a ± 0.20	10%	
3.01 b ± 0.26	2.77 a ± 0.35	2.44 a ± 0.32	2.44 a ± 0.28	2.21 a ± 0.21	15%	
3.17 a ± 0.59	2.80 a ± 0.51	2.56 a ± 0.32	2.54 a ± 0.22	2.16 a ± 0.13	20%	
*	*	NS	NS	NS	<i>Significance</i>	

Appendix (1): The effect of feeding different levels of *C. cajan* & season on feed intake of Nubian goats (kgms).

Cont. feed intake:

Time in weeks					Factors	
10 ($\bar{X} \pm SD$)	9 ($\bar{X} \pm SD$)	8 ($\bar{X} \pm SD$)	7 ($\bar{X} \pm SD$)	6 ($\bar{X} \pm SD$)	levels of <i>C.cajan</i> in Feed %	Season
3.85± 0.13	3.62± 0.23	3.48± 0.14	3.14± 0.11	2.87± 0.16	0.0%	<i>Winter</i>
4.11± 0.39	4.17± 0.20	3.93± 0.16	3.62± 0.21	3.59± 0.18	10%	
5.49± 0.27	4.66± 0.22	4.66± 0.22	4.31± 0.48	3.47± 0.18	15%	
5.58± 0.28	5.45± 0.31	4.60± 0.16	4.03± 0.13	3.58± 0.26	20%	
3.23± 0.22	3.08± 0.19	3.01± 0.23	2.86± 0.22	2.69± 0.19	0.0%	<i>Summer</i>
3.76± 0.33	3.39± 0.37	3.11± 0.39	2.99± 0.44	2.82± 0.48	10%	
4.93± 0.22	4.42± 0.32	3.94± 0.22	3.76± 0.17	3.38± 0.42	15%	
5.38± 0.36	4.86± 0.41	4.79± 0.77	4.46± 0.94	3.84± 0.74	20%	
4.01± 0.12	4.47± 0.73	4.17± 0.53	3.77± 0.52	3.38± 0.35	<i>Winter</i>	<i>Season</i>
4.32± 0.92	3.94± 0.80	3.71± 0.85	3.52± 0.83	3.18± 0.66	<i>Summer</i>	
*	*	*	*	*	<i>Significance</i>	
3.54 ^d ± 0.37	3.35 ^d ± 0.34	3.24 ^d ± 0.30	3.00 ^b ± 0.22	2.78 ^c ± 0.19	0.0%	<i>Feed</i>
3.93 ^c ± 0.39	3.78 ^c ± 0.50	3.52 ^c ± 0.51	3.30 ^b ± 0.47	3.21 ^b ± 0.53	10%	
4.71 ^b ± 0.38	4.54 ^b ± 0.29	4.30 ^b ± 0.43	4.04 ^a ± 0.45	3.43 ^{a,b} ±	15%	
5.98 ^a ± 0.70	5.15 ^a ± 0.46	4.70 ^b ± 0.54	4.24 ^a ± 0.68	0.31	20%	
				3.71 ^a ± 0.55		
**	**	**	*	*	<i>Significance</i>	

- * = Significant at (P < 0.05)
- ** = Significant at (P < 0.01)
- NS = Not Significant
- a, b..= means with in the same column followed by different superscript are significantly different.

Appendix (2): The effect of feeding different levels of C. cajan & season on weekly body weight of Nubian goats (kgms).

Time in weeks					Factors		
5 ($\bar{X} \pm SD$)	4 ($\bar{X} \pm SD$)	3 ($\bar{X} \pm SD$)	2 ($\bar{X} \pm SD$)	1 ($\bar{X} \pm SD$)	<i>Initial weight</i>	<i>levels of C.cajan in Feed %</i>	<i>Season</i>
11.95 ± 0.58	11.40 ± 0.61	11.04 ± 0.83	10.76 ± 0.94	10.39 ± 0.91	10.00	0.0%	<i>Winter</i>
12.91 ± 0.97	12.22 ± 0.96	11.72 ± 1.05	11.16 ± 0.72	10.57 ± 0.68	10.05	10%	
12.65 ± 0.93	12.12 ± 0.81	11.51 ± 0.71	10.84 ± 0.65	10.45 ± 1.25	9.95	15%	
12.70 ± 0.91	12.03 ± 0.71	11.44 ± 0.76	10.83 ± 0.69	10.47 ± 0.75	9.00	20%	

12.05 ± 1.26	11.67 ± 0.10	11.10 ± 1.02	10.85 ± 0.84	10.51 ± 0.89	10.10	0.0%	<i>Summer</i>
12.18 ± 1.02	11.71 ± 1.41	11.37 ± 1.39	10.95 ± 1.36	10.47 ± 1.51	9.95	10%	
12.07 ± 1.05	11.66 ± 0.68	11.24 ± 0.88	10.80 ± 2.25	10.44 ± 0.84	10.00	15%	
12.34 ± 1.15	11.71 ± 1.04	11.21 ± 1.01	10.82 ± 1.01	10.50 ± 1.04	10.00	20%	
Main effects							
12.27 ± 1.06	11.88 ± 1.14	11.32 ± 0.96	10.80 ± 0.76	10.57 ± 1.16	9.95	<i>Winter</i>	<i>Season</i>
12.07 ± 1.15	11.63 ± 1.09	11.36 ± 1.10	10.83 ± 1.27	10.45 ± 1.04	10.00	<i>Summer</i>	
*	*	*	*	NS		<i>Significance</i>	
12.26 ^b ± 1.13	11.83 ^b ± 0.99	11.40 ^b ±	10.90 ^c ± 1.08	10.45 ^a ±	10.00	0.0%	<i>Feed</i>
12.33 ^b ± 1.68	11.76 ^b ±	1.16	10.50 ^b ±	1.04	9.90	10%	
12.45 ^b ±	1.66	11.20 ^b ±	1.51	10.27 ^a ±	9.95	15%	
2.01	11.76 ^b ± 1.70	1.73	10.88 ^b ±	1.40	10.01	20%	
13.02 ^a ± 1.58	12.47 ^a ±	11.29 ^b ±	1.77	10.40 ^a ±			
	1.54	1.42	11.22 ^a ±	2.31			
		11.84 ^a ±	1.25	10.53 ^a ±			
		1.46		1.07			
*	*	*	*	NS		<i>Significance</i>	

Cont. weekly body weight:

<i>Total weight g/head(kg)</i>	<i>Time in weeks</i>					<i>Factors</i>	
	10 ($\bar{X} \pm \text{SD}$)	9 ($\bar{X} \pm \text{SD}$)	8 ($\bar{X} \pm \text{SD}$)	7 ($\bar{X} \pm \text{SD}$)	6 ($\bar{X} \pm \text{SD}$)	<i>levels of C.cajan in Feed %</i>	<i>Season</i>
4.300	14.30 ± 0.48	13.85 ± 0.73	13.30 ± 0.61	12.79 ± 0.72	12.35 ± 1.30	0.0%	<i>Winter</i>
5.650	15.75 ± 1.68	15.24 ± 1.39	14.01 ± 1.43	13.10 ± 1.20	13.52 ± 1.12	10%	
5.910	15.84 ± 0.78	15.21 ± 0.87	14.41 ± 0.78	13.96 ± 0.76	13.20 ± 0.66	15%	
0.673	16.71 ± 0.97	15.05 ± 1.01	14.62 ± 0.97	14.07 ± 0.81	13.40 ± 0.89	20%	
4.260	14.36 ± 1.56	13.95 ± 1.48	13.48 ± 1.36	12.90 ± 1.36	12.42 ± 1.21	0.0%	<i>Summer</i>
3.900	13.85 ± 1.20	13.58 ± 0.13	13.27 ± 1.23	12.92 ± 1.21	12.54 ± 1.26	10%	
4.800	14.48 ± 1.59	13.95 ± 1.45	13.47 ± 1.24	12.90 ± 1.17	12.41 ± 1.10	15%	
4.850	14.86 ± 1.33	14.27 ± 1.15	13.76 ± 1.12	13.30 ± 1.13	12.98 ± 1.08	20%	
<i>Main effects</i>							
5.320	15.27 ± 2.27	13.80 ± 1.98	13.30 ± 1.85	12.99 ± 1.61	12.60 ± 2.25	<i>Winter</i>	<i>Season</i>
4.500	14.55 ± 1.68	13.02 ± 1.54	13.60 ± 1.38	13.20 ± 1.31	12.52 ± 1.25	<i>Summer</i>	
	**	**	**	*	*	<i>Significance</i>	
4.700	14.77 ^c ±	14.06 ^c ± 1.23	13.52 ^c ± 1.20	13.05 ^b ± 1.18	12.62 ^b ± 2.42	0.0%	<i>Feed</i>
4.210	1.25	14.53 ^c ± 2.85	13.50 ^c ± 1.88	13.47 ^b ± 1.77	12.88 ^b ± 1.72	10%	
4.940	15.11 ^c ±	14.61 ^b ± 2.37	14.07 ^b ±	13.52 ^b ± 2.19	12.95 ^b ± 2.01	15%	
5.410	2.11	15.56 ^a ±	2.29	14.27 ^a ± 1.99	12.62 ^a ± 1.71	20%	
	15.24 ^b ±	2.30	14.89 ^a ± 2.23				
	2.47						
	16.41 ^a ±						
	2.40						
	**	**	**	**	*	<i>Significance</i>	

- * = Significant at (P < 0.05)

- ** = Significant at (P < 0.01)
- NS = Not Significant
- a, b... = means with in the same column followed by different superscript are significantly different.

Appendix (3): The effect of feeding different levels of *C. cajan* & season on weekly weight gain of Nubian goats (kgms).

Time in weeks					Factors	
5 ($\bar{X} \pm SD$)	4 ($\bar{X} \pm SD$)	3 ($\bar{X} \pm SD$)	2 ($\bar{X} \pm SD$)	1 ($\bar{X} \pm SD$)	<i>levels of C.cajan in Feed %</i>	<i>Season</i>
0.470 ± 2.41	0.482 ± 1.76	0.371 ± 2.41	0.343 ± 7.12	0.382 ± 6.42	0.0%	<i>Winter</i>
0.552 ± 4.11	0.570 ± 2.48	0.507 ± 4.36	0.522 ± 4.99	0.502 ± 4.11	10%	
0.566 ± 3.06	0.512 ± 4.61	0.570 ± 6.72	0.492 ± 3.62	0.497 ± 6.12	15%	
0.683 ± 7.14	0.651 ± 6.21	0.671 ± 5.21	0.610 ± 4.81	0.612 ± 7.01	20%	
0.454 ± 3.13	0.403 ± 3.91	0.458 ± 1.86	0.490 ± 7.05	0.390 ± 7.81	0.0%	<i>Summer</i>
0.492 ± 6.24	0.497 ± 3.72	0.472 ± 6.24	0.412 ± 8.88	0.373 ± 7.23	10%	
0.403 ± 4.49	0.439 ± 4.81	0.403 ± 3.91	0.418 ± 6.33	0.391 ± 8.12	15%	
0.494 ± 1.92	0.481 ± 2.69	0.392 ± 4.28	0.492 ± 4.12	0.484 ± 6.91	20%	
<i>Main effects</i>						
0.649 ± 8.31	0.630 ± 7.21	0.590 ± 8.87	0.618 ± 5.12	0.592 ± 2.83	<i>Winter</i>	<i>Season</i>
0.486 ± 6.21	0.480 ± 1.88	0.455 ± 6.23	0.415 ± 5.96	0.385 ± 9.61	<i>Summer</i>	
*	*	*	*	NS	<i>Significance</i>	

0.479 ^c ± 2.74	0.401 ^c ± 3.66	0.463 ^d ± 2.22	0.481 ^a ± 7.22	0.471 ^a ± 7.24	0.0% 10% 15% 20%	<i>Feed</i>
0.586 ^b ± 3.86	0.581 ^b ± 4.70	0.491 ^c ± 6.81	0.492 ^a ± 2.94	0.465 ^a ± 6.33		
0.592 ^b ± 7.40	0.576 ^b ± 7.73	0.482 ^b ± 4.76	0.477 ^a ± 3.62	0.489 ^a ± 6.06		
0.673 ^a ± 5.09	0.650 ^a ± 3.33	0.631 ^a ± 3.11	0.488 ^a ± 7.21	0.474 ^a ± 9.19		
**	**	**	NS	NS	<i>Significance</i>	

Cont. weekly weight gain of Nubian goats (gms):

Time in weeks					Factors	
10 ($\bar{X} \pm SD$)	9 ($\bar{X} \pm SD$)	8 ($\bar{X} \pm SD$)	7 ($\bar{X} \pm SD$)	6 ($\bar{X} \pm SD$)	levels of <i>C.cajan</i> in Feed %	Season
0.430 ± 3.28	0.418 ± 3.61	0.427 ± 1.02	0.417 ± 4.61	0.405 ± 1.67	0.0%	<i>Winter</i>
0.561 ± 8.42	0.523 ± 6.12	0.619 ± 2.56	0.539 ± 6.21	0.591 ± 3.77	10%	
0.518 ± 7.07	0.577 ± 1.24	0.590 ± 6.11	0.516 ± 4.76	0.582 ± 4.21	15%	
0.620 ± 1.83	0.616 ± 7.40	0.603 ± 7.77	0.631 ± 6.83	418 ± 5.11	20%	
0.474 ± 0.91	0.491 ± 6.44	0.418 ± 7.14	0.462 ± 7.22	0.471 ± 4.99	0.0%	<i>Summer</i>
0.430 ± 3.11	0.419 ± 7.12	0.428 ± 6.21	0.376 ± 4.83	0.400 ± 3.61	10%	
0.441 ± 6.67	0.480 ± 8.68	0.444 ± 3.19	0.465 ± 2.11	0.492 ± 8.12	15%	
0.401 ± 4.46	0.495 ± 6.77	0.407 ± 3.76	0.486 ± 2.19	0.476 ± 4.34	20%	
<i>Main effects</i>						
0.622 ± 2.29	0.632 ± 3.44	0.623 ± 2.23	0.617 ± 5.01	0.609 ± 5.62	<i>Winter</i>	<i>Season</i>
0.342 ± 3.37	0.361 ± 3.29	0.320 ± 4.81	0.361 ± 3.44	0.378 ± 7.11	<i>Summer</i>	
**	**	**	*	*	<i>Significance</i>	
0.407 ^b ± 6.21	0.492 ^d ± 6.09	0.421 ^c ± 2.48 ^c	0.451 ^c ± 6.22	0.351 ^c ± 3.25	0.0%	<i>Feed</i>
0.513 ^b ± 7.11	0.590 ^b ± 1.46	0.518 ^b ± 3.00	0.539 ^b ± 6.29	0.596 ^b ± 6.09	10%	
	0.551 ^c ± 8.99		0.543 ^b ± 4.12	0.572 ^b ± 4.23	15%	
	0.682 ^a ± 7.66		0.605 ^a ± 7.61	0.662 ^a ± 6.12	20%	

0.520 ^b ± 3.36		0.513 ^b ± 1.46				
0.681 ^a ± 3.45		0.695 ^a ± 3.21				
**	**	*	**	**	<i>Significance</i>	

- * = Significant at (P < 0.05)
- ** = Significant at (P < 0.01)
- NS =Not Significant
- a,b, = means with in the same column followed by different superscript are significantly (P < 0.05) different.

Appendix (4): The effect of feeding different levels of *C. cajan* & season of Nubian goats on FCR.

Time in weeks					Factors	
5 ($\bar{X} \pm SD$)	4 ($\bar{X} \pm SD$)	3 ($\bar{X} \pm SD$)	2 ($\bar{X} \pm SD$)	1 ($\bar{X} \pm SD$)	<i>levels of C.cajan in Feed %</i>	<i>Season</i>
5.71 ± 0.46	5.29 ± 0.95	4.43 ± 0.23	4.93 ± 0.26	4.24 ± 0.19	0.0%	<i>Winter</i>
5.62 ± 0.35	5.21 ± 0.10	5.15 ± 0.52	4.72 ± 0.36	4.00 ± 0.28	10%	
4.23 ± 0.51	4.72 ± 0.81	3.75 ± 0.19	4.15 ± 0.28	3.92 ± 0.63	15%	
4.61 ± 0.69	4.18 ± 0.92	3.22 ± 0.49	3.35 ± 0.34	3.85 ± 0.14	20%	
4.74 ± 0.81	5.93 ± 0.37	5.91 ± 0.52	5.22 ± 0.73	4.83 ± 0.31	0.0%	<i>Summer</i>
4.37 ± 0.12	4.93 ± 0.46	5.44 ± 0.33	5.24 ± 0.33	5.21 ± 0.49	10%	
5.26 ± 0.70	5.61 ± 0.76	5.11 ± 0.63	4.71 ± 0.41	4.71 ± 0.42	15%	
4.91 ± 0.13	4.82 ± 0.60	4.90 ± 0.71	4.34 ± 0.91	4.40 ± 0.52	20%	
<i>Main effects</i>						
5.04 ± 0.50	4.84 ± 0.69	4.13 ± 0.36	4.28 ± 0.30	4.02 ± 0.31	<i>Winter</i>	<i>Season</i>
5.44 ± 0.44	5.32 ± 0.19	5.34 ± 0.55	5.13 ± 0.59	4.79 ± 0.43	<i>Summer</i>	

*	*	*	*	NS	<i>Significance</i>	
5.03 ^a ± 0.71	5.73 ^a ± 0.47	5.21 ^a ± 0.41	5.15 ^a ± 0.47	4.93 ^a ± 0.39	0.0%	<i>Feed</i>
5.00 ^a ± 0.32	5.17 ^b ± 0.62	5.02 ^a ± 0.30	4.26 ^c ± 0.19	4.51 ^b ± 0.92	10%	
4.70 ^b ± 0.44	4.91 ^c ± 0.81	4.96 ^b ± 0.42	4.72 ^b ± 0.86	4.64 ^b ± 0.21	15%	
3.92 ^c ± 0.35	3.86 ^d ± 0.71	4.73 ^b ± 0.21	3.41 ^d ± 0.34	3.74 ^c ± 0.49	20%	
*	*	*	*	*	<i>Significance</i>	

Cont. FCR:

Time in weeks					Factors	
10 ($\bar{X} \pm SD$)	9 ($\bar{X} \pm SD$)	8 ($\bar{X} \pm SD$)	7 ($\bar{X} \pm SD$)	6 ($\bar{X} \pm SD$)	<i>levels of C.cajan in Feed %</i>	<i>Season</i>
5.11 ± 0.92	5.96 ± 0.26	5.42 ± 0.31	5.64 ± 0.13	5.84 ± 0.36	0.0%	<i>Winter</i>
5.21 ± 0.61	5.05 ± 0.38	5.30 ± 0.12	5.79 ± 0.93	5.41 ± 0.61	10%	
4.29 ± 0.60	4.21 ± 0.67	4.11 ± 0.61	4.78 ± 0.42	4.92 ± 0.72	15%	
5.25 ± 0.71	4.75 ± 0.70	4.22 ± 0.67	4.13 ± 0.21	4.31 ± 0.21	20%	
4.09 ± 0.80	4.91 ± 0.20	4.33 ± 0.41	4.61 ± 0.70	4.02 ± 0.45	0.0%	<i>Summer</i>
4.83 ± 0.21	4.62 ± 0.12	4.71 ± 0.12	4.92 ± 0.29	4.83 ± 0.53	10%	
5.71 ± 0.85	5.67 ± 0.78	5.01 ± 0.86	5.09 ± 0.61	5.13 ± 0.64	15%	
5.62 ± 0.29	4.93 ± 0.67	4.24 ± 0.82	4.52 ± 0.72	4.21 ± 0.76	20%	
<i>Main effects</i>						

5.69 ± 0.70	5.39 ± 0.80	5.21 ± 0.43	5.09 ± 0.42	5.12 ± 0.47	<i>Winter</i>	<i>Season</i>
4.94 ± 0.54	4.05 ± 0.44	5.04 ± 0.38	5.05 ± 0.63	4.79 ± 0.59	<i>Summer</i>	
*	NS	NS	NS	*	<i>Significance</i>	
5.71 a ± 0.29	5.98 a ± 0.71	5.17 ^b ± 0.80	5.63 a ± 0.67	5.42 a ± 0.66	0.0%	<i>Feed</i>
5.42 ^b ± 0.49	5.32 ^b ± 0.44	0.80	5.43 a ± 0.96	5.37 a ± 0.43	10%	
4.81 ^c ± 0.71	4.34 ^c ± 0.83	5.40 a ± 0.27	4.49 ^b ± 0.66	4.32 ^b ± 0.29	15%	
4.89 ^c ± 0.59	4.02 ^d ± 0.52	4.41 ^c ± 0.45	4.21 ^c ± 0.71	4.11 ^b ± 0.62	20%	
*	*	*	*	*	<i>Significance</i>	

- * = Significant at (P < 0.05)
- ** = Significant at (P < 0.01)
- NS =Not Significant
- a, b,.. = means with in the same column followed by different superscript are significantly (P < 0.05) different.

Appendix (5) : The effect of feeding different levels of *C. cajan* & season on Carcas Characteristics of Nubian goats (Kgms).

Carcass Characteristics					Factors	
Fat weight ($\bar{X} \pm SD$)	Muscle weight ($\bar{X} \pm SD$)	Carcass chilled ($\bar{X} \pm SD$)	Hot weight ($\bar{X} \pm SD$)	Live weight ($\bar{X} \pm SD$)	<i>levels of C.cajan in Feed %</i>	<i>Season</i>
0.96± 0.33	4.04± 0.85	6.29± 0.27	6.40± 0.27	13.98 ± 0.47	0.0%	<i>Winter</i>
1.51± 0.16	4.79± 0.36	6.30± 0.44	6.66± 0.39	14.11 ± 1.28	10%	
1.67± 0.15	3.87± 0.31	6.59± 0.61	6.85± 0.59	14.29 ± 0.89	15%	

2.14± 0.13	4.30± 0.55	7.33± 0.54	7.56± 0.49	16.50 ± 0.41	20%	
0.73± 0.17	2.68± 0.44	4.62± 1.25	4.81± 1.25	10.59 ± 1.91	0.0%	Summer
0.89± 0.90	2.81± 0.39	5.04± 0.77	5.27± 0.79	11.63 ± 1.61	10%	
1.15± 0.18	2.98± 0.42	5.22± 0.71	5.49± 0.73	12.44 ± 1.72	15%	
1.88± 0.14	3.30± 0.98	6.00± 0.15	6.24± 0.19	13.90 ± 0.55	20%	
Main effects						
1.14± 0.43	4.02± 0.91	6.65± 1.28	6.84± 1.20	14.62 ± 2.32	Winter	Season
0.86± 0.27	3.37± 0.56	5.02± 1.10	5.27± 1.11	12.08 ± 2.14	Summer	
*	*	*	**	**	Significance	
0.83 d ± 0.16	3.56 b ± 0.59 3.05 b ± 1.05	5.66 c ± 1.15 5.36 d ± 1.23	5.85 d ± 1.17 5.61c± 1.33	12.29 d ± 1.68	0.0% 10% 15% 20%	Feed
1.61a± 0.34	3.97 b ± 1.01	6.25b± 1.4	6.42b± 1.44	12.87c ± 2.73		
1.11c± 0.61	4.30a± 1.12	7.07a ± 1.38	7.35a± 1.32	14.27b ± 2.49		
1.44 b ± 0.21				15.47a ± 2.19		
*	*	**	**	**	Significance	

Cont .Carcass Characteristics:

Carcas Characteristics					Factors	
Legs weight	Skin weight	Head weight	Offals weight	Bone weight	levels of C.cajan	Season

($\bar{X} \pm \text{SD}$)	($\bar{X} \pm \text{SD}$)	($\bar{X} \pm \text{SD}$)	($\bar{X} \pm \text{SD}$)	($\bar{X} \pm \text{SD}$)	<i>in Feed %</i>	
0.77± 0.89	0.93± 0.83	0.79± 0.53	4.04± 0.40	2.02± 0.16	0.0%	<i>Winter</i>
0.70± 0.23	1.12± 0.15	0.91± 0.15	4.46± 0.35	2.03± 0.19	10%	
0.86± 0.52	1.22± 0.54	1.30± 0.97	4.83± 0.30	2.07± 0.10	15%	
0.81± 0.90	1.38± 0.10	1.56± 0.73	5.88± 0.47	2.49± 0.21	20%	
0.43± 0.64	0.58± 0.79	0.83± 0.51	2.94± 0.39	1.39± 0.38	0.0%	<i>Summer</i>
0.41± 0.83	0.53± 0.45	0.77± 0.87	3.34± 0.46	1.62± 0.32	10%	
0.62± 0.11	0.57± 0.69	0.76± 0.74	3.74± 0.65	1.93± 0.20	15%	
0.69± 0.10	0.62± 0.27	0.91± 0.72	4.83± 0.49	2.14± 0.13	20%	
0.78± 0.86	1.16± 0.19	1.14± 0.33	4.80± 0.79	2.10± 0.29	<i>Winter</i>	
0.54± 0.15	0.57± 0.64	0.82 ± 0.91	3.71± 0.86	1.77± 0.40	<i>Summer</i>	
*	**	**	**	**	<i>Significance</i>	<i>Season</i>
0.60 ^b ± 0.19	0.75 ^c ± 0.20	0.81 ^c ± 0.52	3.49 ^d ± 0.69	1.71 ^c ± 0.43	0.0%	<i>Feed</i>
0.56 ^b ± 0.17	0.82 ^{b,c} ±	0.84 ^c ± 0.14	3.90 ^c ± 0.71	1.73 ^c ± 0.27	10%	
0.74 ^a ± 0.15	0.33	1.03 ^b ± 0.30	4.28 ^b ± 0.75	2.00 ^b ± 0.17	15%	
0.75 ^a ± 0.11	0.90 ^b ± 0.35	1.24 ^a ± 0.35	5.36 ^a ± 0.71	2.32 ^a ± 0.26	20%	
	1.00 ^a ± 0.41					
*	**	**	**	**	<i>Significance</i>	

- * = Significant at (P < 0.05)
- ** = Significant at (P < 0.01)
- NS = Not Significant
- a , b , .. = means with in the same column followed by different superscript are significantly different.

Appendix (6): The effect of feeding different levels of *C. cajan* & season of Nubian goats on meat colour determination (nm).

Colour determination Meat			Factors	
Yellow ($\bar{X} \pm SD$)	Red ($\bar{X} \pm SD$)	Light ($\bar{X} \pm SD$)	<i>levels of C.cajan in Feed %</i>	<i>Season</i>
5.60± 0.12	18.34± 0.45	38.68± 0.40	0.0%	<i>Winter</i>
5.20±.016	17.12± 0.08	29.20± 0.28	10%	
4.54± 0.34	15.96± 1.13	27.58± 0.44	15%	

4.45± 0.34	15.96± 1.13	25.72± 0.95	20%	<i>Summer</i>
5.96± 0.57	17.56± 1.37	38.88 ± 0.59	0.0%	
5.92± 0.45	18.58± 0.68	38.92± 0.43	10%	
5.92± 0.50	18.52± 1.05	36.72± 4.12	15%	
5.04± 0.11	17.40± 1.12	29.22± 0.35	20%	
Main effects				
4.97± 0.52	16.85± 1.27	30.30± 5.15	<i>Winter</i>	<i>Season</i>
5.71± 0.57	18.02± 1.14	35.96± 4.51	<i>Summer</i>	
**	*	**	Significance	
5.78 ^a ± 0.43	17.95 ^a ± 1.05	38.78 ^a ± 0.49	0.0%	<i>Feed</i>
5.56 ^{a, b} ± 0.49	17.85 ^a ± 0.89	34.06 ^b ± 5.13	10%	
5.23 ^b ± 0.83	17.24 ^{a, b} ± 1.60	32.15 ^c ± 5.55	15%	
4.79 ^c ± 0.35	16.68 ^c ± 1.31	27.47 ^d ± 1.97	20%	
**	**	**	Significance	

- * = Significant at (P < 0.05)
- ** = Significant at (P < 0.01)
- a , b..= means with in the same column followed by different superscript are significantly different.

Appendix (7): The effect of feeding different levels of *C. cajan* & season of Nubian goats on Carcass Yield (%).

Carcass Yield ($\bar{X} \pm SD$)	Factors	
	levels of <i>C.cajan</i> in Feed %	Season
44.41 ± 3.16 45.31 ± 2.61 45.12 ± 3.71 44.69 ± 1.42	0.0% 10% 15% 20%	Winter
45.15 ± 2.91 44.41 ± 1.66 44.61 ± 4.11 45.71 ± 6.31	0.0% 10% 15% 20%	Summer
Main effects		
45.4 ± 3.67 44.16 ± 2.81	Winter Summer	Season
*	Significance	
43.41 ^b ± 2.16 43.87 ^b ± 3.41 44.34 ^b ± 3.21 44.12 ^a ± 1.81	0.0% 10% 15% 20%	Feed
**	Significance	

- * = Significant at (P < 0.05)
- ** = Significant at (P < 0.01)
- a,b, = means with in the same column followed by different superscript are significantly (P < 0.05) different.

Appendix (8): The effect of feeding different levels of *C. cajan* & season of Nubian goats on RBCs count ($\times 10^6$ / ml).

Time in weeks					Factors	
5 ($\bar{X} \pm SD$)	4 ($\bar{X} \pm SD$)	3 ($\bar{X} \pm SD$)	2 ($\bar{X} \pm SD$)	1 ($\bar{X} \pm SD$)	levels of <i>C.cajan</i> in Feed %	Season
10.87±1.78	11.93±1.94	10.92±1.70	10.12±1.53	10.13±1.45	0.0%	<i>Winter</i>
11.42±1.33	11.12±1.48	11.12±1.59	11.15±1.56	11.39±1.47	10%	
12.95±1.41	12.29±1.44	11.90±1.35	12.88±1.49	11.34±1.50	15%	
12.28±2.03	12.09±2.46	12.72±2.16	12.57±2.07	11.07±1.39	20%	
11.65±1.49	10.87±1.78	10.93±1.94	10.92±1.70	10.12±1.53	0.0%	

11.41±1.54	11.42±1.33	11.12±1.48	11.15±1.60	11.25±1.56	10%	Summer
12.69±1.45	12.65±1.41	11.29±1.44	11.91±1.35	11.85±1.50	15%	
12.94±2.36	12.95±2.06	12.79±2.08	12.32±2.29	11.37±2.01	20%	
Main effects						
12.13±1.72	12.06±1.86	11.87±1.75	11.90±1.74	11.86±1.67	Winter	Season
11.48±1.78	11.81±1.73	10.51±1.79	11.40±1.78	10.22±1.76	Summer	
*	*	*	*	*	Significance	
11.76 ^b ±1.60	11.90 ^b ±1.81	10.93 ^c ±1.77	10.02 ^d	10.13 ^d ±1.45	0.0%	Feed
	11.27 ^c ±1.38	11.12 ^b ±1.49	±1.58	11.27 ^c ±1.48	10%	
11.42 ^c ±1.40	12.62 ^a ±1.43	11.10 ^b ±1.37	11.15 ^c	11.75 ^b ±1.46	15%	
	12.67 ^a ±2.21	12.76 ^a ±2.06	±1.54	11.22 ^a ±1.69	20%	
12.82 ^a ±1.40			11.90 ^b			
12.66 ^a ±2.14			±1.38			
			12.40 ^a			
			±2.13			
*	**	**	**	**	Significance	

Cont. RBCs count (×10⁶):

Time in week	Factors
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10 ($\bar{X} \pm SD$)	9 ($\bar{X} \pm SD$)	8 ($\bar{X} \pm SD$)	7 ($\bar{X} \pm SD$)	6 ($\bar{X} \pm SD$)	<i>levels of C.cajan in Feed %</i>	<i>Season</i>
11.82±1.36	11.89±1.44	11.87±1.56	11.75±1.51	11.65±1.49	0.0%	<i>Winter</i>
12.40±1.31	12.45±1.40	11.99±1.42	11.27±1.62	11.41±1.54	10%	
13.11±1.46	12.09±1.70	13.08±1.62	12.19±1.54	11.69±1.45	15%	
14.12±2.31	13.66±2.56	13.03±2.61	13.49±2.51	12.16±2.34	20%	
11.73±1.25	11.82±1.36	11.87±1.44	11.87±1.56	11.71±1.53	0.0%	<i>Summer</i>
12.38±1.35	12.30±1.46	12.50±1.39	12.39±1.62	11.27±1.62	10%	
12.11±1.51	12.15±1.50	12.12±1.46	12.18±1.62	12.94±1.54	15%	
12.77±2.06	12.14±2.34	12.66±2.56	12.03±2.62	12.49±2.51	20%	
Main effects						
12.61±1.69	12.02±1.91	12.74±1.86	12.60±1.86	12.30±1.79	<i>Winter</i>	
11.75±1.70	11.03±1.74	11.98±1.77	11.06±1.90	11.58±1.86	<i>Summer</i>	
*	*	*	*	*	Significance	<i>Season</i>
11.76 ^d ±1.27	10.85 ^d ±1.37	10.87 ^c ±1.46	11.81 ^c ±1.49	11.68 ^c ±1.47	0.0%	<i>Feed</i>
12.39 ^c ±1.30	12.38 ^c ±1.39	12.40 ^a ±1.38	12.33 ^b ±1.58	11.64 ^c ±1.54	10%	
13.11 ^b ±1.45	13.12 ^a ±2.69	12.15 ^{a, b}	12.16 ^b ±1.54	12.82 ^a ±1.46	15%	
13.45 ^a ±2.16	12.90 ^b ±2.40	±1.50	12.76 ^a ±2.51	12.33 ^b ±2.37	20%	
**	**	**	**	*	Significance	

- = Significant at (P < 0.05)
- ** = Significant at (P < 0.01).
- a , b , .. = means with in the same column followed by different superscript are significantly different.

Appendix (9): The effect of feeding different levels of *C. cajan* & season of Nubian goats on (Hb gm/dl).

Time in weeks					Factors	
5 ($\bar{X} \pm SD$)	4 ($\bar{X} \pm SD$)	3 ($\bar{X} \pm SD$)	2 ($\bar{X} \pm SD$)	1 ($\bar{X} \pm SD$)	levels of <i>C.cajan</i> in Feed %	Season
10.90± 0.97	10.99±0.79	10.90± 0.81	10.97± 0.66	10.51± 0.66	0.0%	<i>Winter</i>
10.55± 0.92	10.45±0.97	10.27± 0.93	10.14± 0.95	10.21± 0.1	10%	
10.97± 2.83	10.58±2.92	10.54± 1.07	10.44± 1.22	10.23 ± 1.22	15%	
11.15± 0.93	10.91±1.06	10.86± 1.13	10.69±1.16	10.65± 1.08	20%	
9.95± 1.07	9.70± 1.02	9.95± 1.04	9.20± 0.75	8.80± 0.59	0.0%	<i>Summer</i>
9.70± 1.27	9.65± 0.82	9.25± 1.14	9.12± 1.13	8.80± 0.94	10%	
9.60± 0.91	9.70± 0.79	9.40± 0.70	9.31± 0.66	9.29 ± 0.80	15%	
9.95± 1.54	9.45± 1.19	9.50± 1.93	9.45± 1.99	9.40± 1.46	20%	
Main effects						
10.48± 1.63	10.46± 1.68	10.39± 0.10	10.31± 1.02	10.38± 1.01	<i>Winter</i>	<i>Season</i>
10.98± 1.18	9.93± 0.97	9.91± 1.29	9.84± 1.27	9.79± 1.01	<i>Summer</i>	
**	**	**	**	**	Significance	
9.64 ^c ± 1.16	9.60 ^b ± 1.02	9.53 ^b ± 1.08	9.49 ^b ± 0.84	9.41 ^a ± 0.87	0.0%	<i>Feed</i>
9.60 ^c ± 1.44			9.32 ^b ± 1.32	9.21 ^a ± 1.25	10%	
9.89 ^b ± 2.11	9.65 ^b ± 1.20	9.61 ^b ± 1.22	9.49 ^b ± 1.42	9.44 ^a ± 1.50	15%	
10.25 ^a ± 1.67	9.14 ^b ± 2.13	9.57 ^b ± 1.33	10.07 ^a ± 1.71	9.98 ^a ± 1.43	20%	
	10.18 ^a ± 1.33	10.18 ^a ± 1.69				

*	*	*	*	NS	<i>Significance</i>
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Cont. (Hb gm/dl):

Time in weeks					Factors	
10 ($\bar{X} \pm SD$)	9 ($\bar{X} \pm SD$)	8 ($\bar{X} \pm SD$)	7 ($\bar{X} \pm SD$)	6 ($\bar{X} \pm SD$)	<i>levels of C.cajan in Feed %</i>	<i>Season</i>
10.73± 0.81	10.52± 0.75	10.27± 0.55	10.19± 0.81	10.03± 0.90	0.0%	<i>Winter</i>
11.41± 1.23	11.12± 1.04	10.97± 1.06	10.71± 1.01	10.54± 1.09	10%	
12.50± 1.22	12.02± 1.43	11.68± 1.14	11.43± 1.24	11.34± 1.08	15%	
12.83± 0.99	12.35± 0.80	12.03± 0.79	11.80± 0.56	11.57± 0.95	20%	
9.90± 0.66	9.80± 0.97	9.95± 0.98	9.70± 1.09	9.95± 0.93	0.0%	<i>Summer</i>
9.85± 1.06	9.90± 0.99	9.70± 1.07	9.30± 1.23	9.15± 1.27	10%	
9.95± 0.83	9.75± 0.49	9.72± 0.42	8.90± 0.77	9.75± 1.06	15%	
9.05± 1.28	9.00± 1.18	9.05± 1.01	9.10± 1.29	8.75± 1.14	20%	
<i>Main effects</i>						
11.72± 1.49	11.38± 1.36	11.24± 1.12	11.06± 1.08	10.97± 1.09	<i>Winter</i>	<i>Season</i>
9.99± 0.95	9.91± 0.91	9.00± 0.90	9.90± 1.09	9.90± 1.08	<i>Summer</i>	
*	**	**	**	**	<i>Significance</i>	

9.92 ^b ± 0.89	9.71 ^d ± 0.99	9.61 ^c ± 1.03	9.50 ^c ± 1.24	9.09 ^c ± 1.17	0.0% 10% 15% 20%	<i>Feed</i>
10.13 ^b ± 1.72	10.11 ^c ± 1.51	10.04 ^b ± 1.42	10.01 ^b ± 1.31	9.85 ^b ± 1.35		
10.73 ^c ± 2.09	10.39 ^b ± 1.97	10.19 ^b ± 1.74	10.17 ^b ± 1.64	10.05 a,b±		
10.94 ^a ± 2.24	10.68 ^a ± 1.98	10.64 ^a ± 1.68	10.45 ^a ± 1.69	1.69		
				10.16 ^a ± 1.77		
*	*	*	*	*	<i>Significance</i>	

- * = Significant at (P < 0.05).
- ** = Significant at (P < 0.01).
- NS = Not Significant
- a , b ,..= means with in the same column followed by different superscript are significantly different.

Appendix (10): The effect of feeding different levels of *C. cajan* & season of Nubian goats on PCV%.

Time in weeks					Factors	
5 ($\bar{X} \pm SD$)	4 ($\bar{X} \pm SD$)	3 ($\bar{X} \pm SD$)	2 ($\bar{X} \pm SD$)	1 ($\bar{X} \pm SD$)	<i>levels of C.cajan in Feed %</i>	<i>Season</i>
29.40± 1.84	29.15± 2.10	29.00± 3.40	29.10± 2.45	29.00± 1.70	0.0%	<i>Winter</i>
30.20± 2.20	31.78± 2.36	29.40± 2.80	28.80± 2.39	29.40± 1.65	10%	
30.83± 1.40	29.90± 2.60	29.40± 2.76	29.10± 3.21	28.10± 1.85	15%	
31.80± 2.35	31.10± 2.85	31.70± 2.67	31.10± 1.52	30.40± 3.13	20%	
28.95± 2.08	28.55± 1.90	28.90± 1.37	28.80± 1.23	27.90± 1.81	0.0%	<i>Summer</i>
28.91± 1.33	28.20± 1.23	28.37± 1.87	28.10± 1.29	26.5± 2.72	10%	
32.20± 1.55	32.40± 2.32	31.85± 2.04	29.70± 1.83	29.00± 1.41	15%	
30.30± 3.16	30.00± 2.45	29.60± 2.32	29.40± 2.91	29.70± 2.95	20%	
Main effects						
30.80± 3.11	30.72± 3.24	30.13± 3.19	29.68± 2.77	29.98± 2.53	<i>Winter</i>	<i>Season</i>
30.15± 2.54	30.03± 2.30	29.78± 2.08	29.25± 2.03	29.00± 2.43	<i>Summer</i>	
*	*	*	*	*	Significance	

27.65 ^c ± 2.06	28.30 ^d ± 2.58	29.45 ^b ± 2.58	29.25 ^b ± 1.94	29.40 ^c ± 1.82	0.0% 10% 15% 20%	<i>Feed</i>
31.60 ^b ± 3.20	30.75 ^b ± 2.43			28.95 ^d ± 2.65		
31.50 ^b ± 1.47	30.15 ^c ± 2.41	29.60 ^b ± 2.46	29.25 ^b ± 1.90	30.05 ^b ± 1.61		
32.55 ^a ± 3.56	32.05 ^a ± 3.33	30.60 ^b ± 2.37	29.40 ^b ± 2.56	30.55 ^a ± 3.52		
		31.15 ^a ± 2.91	30.75 ^a ± 2.65			
**	**	*	*	*	<i>Significance</i>	
*	*	*	*	*	<i>Interaction Significance</i>	

Cont. PCV %:

Time in weeks					Factors	
10 ($\bar{X} \pm SD$)	9 ($\bar{X} \pm SD$)	8 ($\bar{X} \pm SD$)	7 ($\bar{X} \pm SD$)	6 ($\bar{X} \pm SD$)	levels of <i>C.cajan</i> in Feed %	Season
29.30 ± 3.23	29.90± 2.92	29.20± 1.75	29.40± 2.46	29.45± 2.45	0.0%	<i>Winter</i>
31.45± 3.06	31.41± 3.20	31.40± 3.47	30.03± 30.06	30.20± 2.66	10%	
31.49± 3.20	30.83± 3.22	31.50± 3.03	31.50± 3.14	31.00± 1.33	15%	
32.18± 3.20	31.60± 3.10	30.10± 1.91	31.32± 2.11	32.40± 2.59	20%	
28.00± 2.94	28.50± 2.59	28.30± 2.31	27.40± 2.32	27.10± 2.38	0.0%	

29.50± 1.27	29.10± 0.99	28.40± 1.65	28.50± 1.84	28.30± 1.16	10%	<i>Summer</i>
29.40± 2.97	30.10± 2.38	30.10± 2.33	31.10± 1.85	29.80± 3.29	15%	
30.60± 3.13	30.60± 3.60	30.20± 2.74	30.70± 3.59	30.20± 3.22	20%	
Main effects						
32.65± 5.49	31.39± 4.91	30.37± 4.51	30.55± 4.19	30.58± 3.32	<i>Winter</i>	<i>Season</i>
29.38± 2.49	29.58± 2.85	29.25± 2.38	29.43± 2.86	29.85± 2.84	<i>Summer</i>	
*	*	*	*	*	<i>Significance</i>	
28.15 ^c ± 3.01	28.20 ^c ± 2.78	28.25 ^c ± 1.10	27.90 ^d ± 2.38	27.90 ^c ± 2.49	0.0%	<i>Feed</i>
31.95 ^b ± 4.21	32.25 ^b ± 3.97	31.90 ^b ± 4.46	31.25 ^c ± 3.74	30.75 ^b ± 3.21	10%	
31.90 ^b ± 4.86	32.15 ^b ± 3.66	31.89 ^b ± 3.82	31.80 ^b ± 3.05	31.40 a, b ±	15%	
32.55 ^a ± 5.94	32.90 ^a ± 5.66	32.15 ^a ± 4.66	31.07 ^a ± 4.44	2.95	20%	
				31.80 ^a ± 3.90		
*	**	**	**	**	<i>Significance</i>	

- * = Significant at (P < 0.05)
- ** = Significant at (P < 0.01)
- N S = Not Significant
- a , b,.. = means with in the same column followed by different superscript are significantly different.

Appendix (11): The effect of feeding different levels of *C. cajan* & season of Nubian goats on MCH (pg).

Time in weeks					Factors	
5	4	3	2	1	<i>levels of C.cajan</i>	<i>Season</i>
($\bar{X} \pm SD$)	($\bar{X} \pm SD$)	($\bar{X} \pm SD$)	($\bar{X} \pm SD$)	($\bar{X} \pm SD$)	<i>in Feed %</i>	
8.94 ± 1.92	8.89 ± 1.74	8.86 ± 1.41	8.57 ± 1.15	8.48 ± 1.38	0.0%	

8.75 ± 1.05	8.69 ± 0.96	7.57 ± 1.04	7.44 ± 1.10	7.34 ± 1.23	10%	<i>Winter</i>
8.64 ± 1.50	8.71 ± 1.48	8.81 ± 1.55	8.91 ± 1.53	8.28 ± 1.70	15%	
10.17 ± 1.93	10.23 ± 2.21	10.46 ± 2.20	10.41 ± 1.98	10.45 ± 1.65	20%	
7.78 ± 0.89	7.70 ± 1.12	7.73 ± 1.18	7.73 ± 1.14	7.41 ± 0.88	0.0%	<i>Summer</i>
7.93 ± 1.11	7.87 ± 0.91	7.61 ± 0.83	7.24 ± 0.85	7.33 ± 0.93	10%	
7.72 ± 1.12	7.47 ± 0.90	7.07 ± 0.85	7.27 ± 0.99	7.36 ± 1.44	15%	
8.82 ± 2.26	8.75 ± 2.01	8.83 ± 2.17	8.70 ± 2.16	8.94 ± 1.72	20%	
Main effects						
9.08 ± 1.71	9.13 ± 1.72	9.17 ± 1.72	9.08 ± 1.63	9.14 ± 1.67	<i>Winter</i>	<i>Season</i>
8.72 ± 1.48	7.66 ± 1.45	7.81 ± 1.47	7.81 ± 1.53	7.76 ± 1.42	<i>Summer</i>	
*	*	*	*	*	Significance	
8.41 ^c ± 1.56	8.30 ^b ± 1.55	8.30 ^b ± 1.39	8.15 ^b ± 1.20	7.94 ^c ± 1.26	0.0%	<i>Feed</i>
8.95 ^b ± 1.23	8.18 ^c ± 1.16	8.09 ^c ± 1.04	7.81 ^c ± 1.14	7.84 ^c ± 1.18	10%	
8.93 ^b ± 1.48	8.48 ^b ± 1.51	8.04 ^c ± 1.51	8.11 ^b ± 1.51	8.32 ^b ± 1.82	15%	
9.91 ^a ± 2.23	9.81 ^a ± 2.19	9.64 ^a ± 2.28	9.70 ^a ± 2.16	9.69 ^a ± 1.82 ^a	20%	
*	*	*	*	*	Significance	

Cont. MCH (pg):

Time in weeks	Factors
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10 ($\bar{X} \pm SD$)	9 ($\bar{X} \pm SD$)	8 ($\bar{X} \pm SD$)	7 ($\bar{X} \pm SD$)	6 ($\bar{X} \pm SD$)	<i>levels of C.cajan in Feed %</i>	<i>Season</i>
10.99 ± 1.24	9.59 ± 1.47	9.83 ± 1.52	9.92 ± 1.49	9.18 ± 1.59	0.0%	<i>Winter</i>
9.34 ± 0.96	9.01 ± 1.08	8.99 ± 0.96	8.82 ± 1.11	8.58 ± 1.14	10%	
9.66 ± 1.20	9.31 ± 1.64	9.03 ± 1.40	9.06 ± 1.49	9.13 ± 1.56	15%	
10.96 ± 2.31	10.50 ± 2.06	10.43 ± 2.29	10.64 ± 2.19	10.80 ± 2.39	20%	
7.80 ± 0.58	7.70 ± 0.73	7.61 ± 0.95	7.87 ± 0.87	7.72 ± 0.88	0.0%	<i>Summer</i>
7.97 ± 0.82	7.93 ± 0.91	7.86 ± 0.90	7.74 ± 1.01	7.76 ± 1.18	10%	
7.99 ± 1.07	7.84 ± 1.18	7.92 ± 1.08	7.84 ± 1.01	7.96 ± 1.23	15%	
7.29 ± 1.57	7.45 ± 1.95	7.88 ± 2.16	8.23 ± 2.42	8.33 ± 2.24	20%	
Main effects						
9.51 ± 1.611	9.28 ± 1.65	9.32 ± 1.73	9.36 ± 1.73	9.42 ± 1.86	<i>Winter</i>	<i>Season</i>
7.41 ± 1.08	7.36 ± 1.27	7.47 ± 1.37	7.60 ± 1.50	7.69 ± 1.50	<i>Summer</i>	
**	**	**	**	**	Significance	
9.85 ^b ± 1.10	9.15 ^b ± 1.22	9.52 ^b ± 1.38	9.24 ^b ± 1.37	9.45 ^b ± 1.46	0.0%	<i>Feed</i>
8.45 ^c ± 1.26	8.42 ^c ± 1.27	8.23 ^c ± 1.20	8.28 ^{b,c} ± 1.18	8.17 ^c ± 1.21	10%	
8.32 ^c ± 2.04	8.37 ^c ± 1.88	8.28 ^c ± 1.63		8.05 ^c ± 1.76	15%	
9.73 ^a ± 2.31	9.83 ^a ± 2.41	9.76 ^a ± 2.53	8.15 ^c ± 1.68	9.57 ^a ± 2.58	20%	
			9.43 ^a ± 2.56			
*	*	*	*	*	Significance	

- *= Significant at (P < 0.05)
- **= Significant at (P < 0.01)
- NS= Not Significant
- a,b,...= means with in the same column followed by different superscript are significantly different.

Appendix (12): The effect of feeding different levels of *C. cajan* & season of Nubian goats on MCV (fl).

Time in weeks					Factors	
5 ($\bar{X} \pm SD$)	4 ($\bar{X} \pm SD$)	3 ($\bar{X} \pm SD$)	2 ($\bar{X} \pm SD$)	1 ($\bar{X} \pm SD$)	<i>levels of C.cajan in Feed %</i>	<i>Season</i>
21.96 ± 2.47	22.11 ± 3.60	21.73 ± 3.57	21.29 ± 2.35	20.82 ± 3.84	0.0%	<i>Winter</i>
22.37 ± 1.64	22.27 ± 2.24	21.64 ± 2.81	20.99 ± 2.01	20.94 ± 2.84	10%	
20.31 ± 2.29	20.74 ± 2.09	20.11 ± 3.99	20.92 ± 3.81	21.25 ± 4.44	15%	
24.86 ± 3.62	24.18 ± 4.32	24.73 ± 4.72	23.60 ± 3.30	22.30 ± 2.06	20%	
20.46 ± 2.61	19.32 ± 3.94	19.49 ± 3.84	19.18 ± 3.26	19.67 ± 2.61	0.0%	<i>Summer</i>
19.32 ± 1.55	19.19 ± 1.71	19.78 ± 2.35	19.50 ± 2.34	19.23 ± 2.26	10%	
20.63 ± 1.13	20.71 ± 2.66	20.94 ± 2.86	21.58 ± 3.18	21.31 ± 2.10	15%	
20.60 ± 4.25	20.51 ± 3.63	20.87 ± 3.36	21.60 ± 3.37	20.53 ± 2.51	20%	
Main effects						
22.80 ± 3.28	22.35 ± 3.85	22.05 ± 3.65	22.63 ± 3.28	22.26 ± 3.81	<i>Winter</i>	<i>Season</i>
21.01 ± 2.87	20.68 ± 2.81	21.27 ± 2.82	20.22 ± 3.76	20.24 ± 4.70	<i>Summer</i>	
**	**	**	**	**	Significance	
21.71 ^b ± 2.43	21.26 ^b ± 3.23	21.11 ^b ± 3.63	20.59 ^c ± 2.76	20.11 ^c ± 3.26	0.0%	<i>Feed</i>
20.84 ^d ± 0.97	20.73 ^c ± 2.31	20.71 ^c ± 2.62	20.25 ^d ± 2.19	19.65 ^d ± 3.02	10%	
21.47 ^c ± 1.23	21.22 ^b ± 2.81	21.34 ^b ± 3.34	21.28 ^b ± 3.40	21.30 ^b ± 3.16	15%	
24.75 ^a ± 4.10	24.84 ^a ± 4.22	23.80 ^a ± 3.67	23.61 ^a ± 3.54	22.77 ^a ± 4.42	20%	
**	**	**	**	**	Significance	

Cont. MCV (fl):

Time in weeks					Factors	
10 ($\bar{X} \pm SD$)	9 ($\bar{X} \pm SD$)	8 ($\bar{X} \pm SD$)	7 ($\bar{X} \pm SD$)	6 ($\bar{X} \pm SD$)	levels of <i>C.cajan</i> in Feed %	Season
21.85 ± 2.07	21.38 ± 2.58	21.45 ± 2.18	21.75 ± 2.66	21.27 ± 2.43	0.0%	<i>Winter</i>
24.54 ± 0.57	24.01 ± 1.15	24.34 ± 1.48	23.93 ± 1.18	22.83 ± 1.53	10%	
23.38 ± 2.42	22.63 ± 1.96	22.06 ± 1.69	21.02 ± 2.74	21.38 ± 1.88	15%	
24.11 ± 3.07	24.72 ± 3.89	24.98 ± 4.83	23.05 ± 4.80	23.06 ± 4.86	20%	
20.77 ± 1.54	20.05 ± 2.15	20.30 ± 2.43	20.01 ± 3.10	20.50 ± 3.30	0.0%	<i>Summer</i>
20.21 ± 0.93	20.11 ± 1.78	19.16 ± 1.34	19.55 ± 1.79	19.60 ± 1.56	10%	
20.27 ± 1.58	20.79 ± 2.23	20.84 ± 2.08	20.13 ± 1.86	20.05 ± 1.44	15%	
22.94 ± 2.88	22.90 ± 3.48	22.03 ± 2.32	22.61 ± 3.18	21.28 ± 4.85	20%	
<i>Main effects</i>						
23.21 ± 2.48	23.07 ± 3.05	23.01 ± 3.70	22.16 ± 3.89	22.89 ± 2.31	<i>Winter</i>	<i>Season</i>
21.07 ± 1.61	21.00 ± 2.18	20.08 ± 2.39	20.57 ± 2.96	20.86 ± 2.20	<i>Summer</i>	
**	**	**	**	*	<i>Significance</i>	
21.81 ^c ± 1.27	20.72 ^d ± 2.47	20.38 ^c ± 2.19	20.38 ^c ± 2.77	20.89 ^d ± 2.77	0.0%	<i>Feed</i>
22.38 ^b ± 2.43	22.06 ^b ± 1.14	21.75 ^b ± 1.54	21.74 ^b ± 1.32	21.21 ^c ± 1.98	10%	
22.30 ^b ± 3.77	21.56 ^c ± 2.20	21.45 ^b ± 2.12	21.57 ^b ± 1.98	22.21 ^b ± 2.31	15%	
23.08 ^a ± 2.73	23.80 ^a ± 3.27	23.00 ^a ± 3.04	23.18 ^a ± 3.17	23.17 ^a ± 4.76	20%	
**	**	**	**	**	<i>Significance</i>	
*	*	*	NS	NS	<i>Interaction Significance</i>	

- * = Significant at (P < 0.05)
- ** = Significant at (P < 0.01)

- NS= Not Significant
- a,b,..= means with in the same column followed by different superscript are significantly different.

Appendix (13): The effect of feeding different levels of *C. cajan* & season of Nubian goats on MCHC (%).

Time in weeks					Factors	
5 ($\bar{X} \pm SD$)	4 ($\bar{X} \pm SD$)	3 ($\bar{X} \pm SD$)	2 ($\bar{X} \pm SD$)	1 ($\bar{X} \pm SD$)	levels of <i>C.cajan</i> in Feed %	Season
32.10 ± 4.20	32.06 ± 2.91	32.95 ± 3.90	32.61 ± 3.10	32.41 ± 2.50	0.0%	<i>Winter</i>
33.08 ± 3.85	33.19 ± 4.40	33.41 ± 4.52	32.62 ± 4.01	32.42 ± 3.75	10%	
32.91 ± 3.24	32.55 ± 2.51	32.01 ± 2.68	32.94 ± 2.97	33.22 ± 3.19	15%	
32.19 ± 3.56	32.61 ± 3.83	32.68 ± 4.25	32.31 ± 4.06	32.32 ± 3.86	20%	
33.16 ± 5.20	32.73 ± 4.37	32.19 ± 3.71	32.73 ± 2.65	31.23 ± 2.94	0.0%	<i>Summer</i>
32.71 ± 3.91	31.81 ± 2.77	31.06 ± 4.29	31.80 ± 3.72	31.12 ± 2.73	10%	
29.85 ± 3.19	29.67 ± 3.03	29.27 ± 3.26	29.46 ± 2.49	29.41 ± 2.45	15%	
32.60 ± 5.41	32.14 ± 4.17	31.63 ± 5.18	31.37 ± 5.41	30.61 ± 4.91	20%	
Main effects						
33.08 ± 3.96	33.18 ± 3.56	33.81 ± 4.00	33.01 ± 3.19	32.24 ± 3.33	<i>Winter</i>	<i>Season</i>
32.11 ± 4.81	31.97 ± 3.91	31.88 ± 4.20	31.79 ± 4.17	30.41 ± 3.91	<i>Summer</i>	
*	**	**	**	**	Significance	

32.71 a ± 4.81	31.80 a ± 3.76	31.48 ^c ± 3.99	30.69 ^c ± 4.50	30.32 ^c ± 3.12	0.0% 10% 15% 20%	<i>Feed</i>
32.19 b ± 3.87	32.01 b ± 3.70	32.72 ^b ± 4.30	32.12 b ± 4.20	32.21 ^a ± 3.53		
32.16 b ± 4.40	32.19 b ± 4.10	32.97 ^a ± 4.41	32.47 ^a ± 3.56	32.31 ^a ± 4.61		
32.93 a ± 5.12	32.94 b ± 4.28	32.91 ^a ± 4.97	32.68 ^a ± 4.40	31.72 ^b ± 4.92		
NS	*	**	*	*		

Cont. MCHC (%):

Time in weeks					Factors	
10 ($\bar{X} \pm SD$)	9 ($\bar{X} \pm SD$)	8 ($\bar{X} \pm SD$)	7 ($\bar{X} \pm SD$)	6 ($\bar{X} \pm SD$)	levels of <i>C.cajan</i> in Feed %	Season
33.41 ± 3.14	33.61 ± 3.90	33.01 ± 3.01	32.91 ± 3.91	32.01 ± 4.11	0.0%	<i>Winter</i>
33.91 ± 3.91	33.11 ± 4.30	33.43 ± 4.06	32.04 ± 3.42	32.61 ± 4.14	10%	
32.67 ± 2.96	33.44 ± 3.55	33.19 ± 2.90	32.61 ± 3.60	32.31 ± 2.76	15%	
33.42 ± 2.41	33.91 ± 2.76	33.40 ± 3.00	33.91 ± 2.34	33.91 ± 3.25	20%	
31.71 ± 3.46	32.05 ± 4.21	32.41 ± 4.01	32.41 ± 5.24	32.71 ± 5.29	0.0%	

31.81 ± 2.26	31.19 ± 2.59	32.61 ± 3.12	31.62 ± 3.81	33.31 ± 3.71	10%	Summer
29.40 ± 1.99	29.74 ± 1.56	29.90 ± 1.82	28.71 ± 2.67	29.16 ± 2.69	15%	
32.29 ± 4.70	32.41 ± 4.32	32.46 ± 4.41	32.96 ± 5.46	31.70 ± 5.50	20%	
Main effects						
34.40 ± 3.31	33.62 ± 3.60	33.39 ± 3.69	33.44 ± 3.71	32.81 ± 3.81	Winter	Season
31.10 ± 4.28	31.91 ± 4.81	31.12 ± 4.55	31.67 ± 4.95	31.24 ± 4.74	Summer	
**	**	**	**	*	Significance	
34.71 ^a ± 3.82	33.41 ^a ± 4.56	34.76 ^a ± 4.61	34.72 ^a ± 4.96	34.61 ^a ± 5.00	0.0%	Feed
32.62 ^b ± 3.31	32.05 ^c ± 3.55	32.19 ^b ± 3.62	32.31 ^b ± 3.66	32.62 ^c ± 3.81	10%	
31.42 ^c ± 3.65	31.73 ^d ± 3.91	31.16 ^c ± 3.21	31.29 ^c ± 5.09	32.41 ^{b,c} ± 4.56	15%	
32.46 ^b ± 4.09	32.62 ^b ± 4.36	32.14 ^b ± 4.94	32.11 ^b ± 4.17	32.91 ^b ± 4.41	20%	
**	**	**	**	**	Significance	

- *= Significant at (P < 0.05)
- **= Significant at (P < 0.01)
- NS= Not Significant
- a ,b,..= means with in the same column followed by different superscript are significantly different.

Appendix (14)-: The effect of feeding different levels of C. cajan & season of Nubian goats on WBCs count.

Time in weeks					Factors	
5 ($\bar{X} \pm SD$)	4 ($\bar{X} \pm SD$)	3 ($\bar{X} \pm SD$)	2 ($\bar{X} \pm SD$)	1 ($\bar{X} \pm SD$)	levels of <i>C.cajan</i> in Feed %	Season
9.84±2.85	10.03±0.91	9.95±1.56	9.40±1.15	9.22±1.45	0.0%	<i>Winter</i>
10.20±1.62	10.14±2.28	9.78±1.68	9.60±1.97	9.72±2.03	10%	
9.78±1.24	9.32±1.01	9.49±0.67	9.18±0.71	8.96± 1.44	15%	
10.25±1.05	10.25±1.24	10.44±1.52	10.42±1.74	10.23±1.80	20%	
8.80±0.89	8.80± 0.63	8.70±0.48	8.25±0.63	8.65±0.63	0.0%	<i>Summer</i>
9.10±1.47	8.90± 1.74	8.80±1.09	8.90±0.94	9.00±1.08	10%	
9.50±1.22	9.20± 1.16	9.30±1.36	9.05±1.07	9.10± 0.97	15%	
9.80±9.08	9.75± 1.01	9.30±1.30	9.20±1.09	8.90± 0.91	20%	
<i>Main effects</i>						
10.26 ±1.84	10.08±1.49	9.94±1.42	9.68±1.52	9.56±1.68	<i>Winter</i>	<i>Season</i>
9.10±1.17	9.01±1.17	9.03±1.10	8.85±0.98	8.91±0.89	<i>Summer</i>	
*	**	*	*	*	<i>Significance</i>	
8.82 ^c ±2.06 c	9.42 ^b ±0.99	9.33 ^b ±1.30	8.83 ^c ±1.08	8.94 ^c ±1.01	0.0%	<i>Feed</i>
9.65 ^b ±1.61 b	9.77 ^a ±2.17	9.29 ^b ±1.46	9.25 ^b ±1.54	9.36 ^d ±1.62	10%	
9.35 a,b ±1.21	9.26 ^c ±1.06	9.39 ^b ±1.06	9.11 ^b ±0.89	9.03 ^c ±1.18	15%	
9.50 ^a ±1.15	9.54 ^a ±1.35	9.90 ^a ±1.50	9.84 ^a ±1.56	9.60 ^a ±1.56	20%	
*	*	*	*	*	<i>Significance</i>	

Cont. WBCs:

Time in weeks					Factors	
10 ($\bar{X} \pm SD$)	9 ($\bar{X} \pm SD$)	8 ($\bar{X} \pm SD$)	7 ($\bar{X} \pm SD$)	6 ($\bar{X} \pm SD$)	levels of <i>C.cajan</i> in Feed %	Season
10.71± 1.07	10.95± 1.09	10.82± 1.23	10.60± 1.07	10.50± 0.78	0.0%	<i>Winter</i>
10.86± 1.40	10.40± 1.70	9.95± 1.52	10.10± 1.71	10.36± 1.32	10%	
9.58± 0.44	9.83± 0.83	9.99± 1.01	9.89± 1.11	9.37± 1.17	15%	
11.31± 1.04	10.75± 1.20	10.21± 1.33	10.10± 1.44	9.90± 1.34	20%	
10.20 ± 1.01	9.70± 0.82	9.75± 1.01	9.85± 0.78	8.95± 0.96	0.0%	<i>Summer</i>
8.95± 1.07	8.90± 0.94	8.85± 1.03	8.90± 1.05	8.95± 1.23	10%	
10.50 ± 1.11	9.90± 0.88	9.80± 0.92	9.40± 1.02	9.40± 1.10	15%	
9.90± 0.91	9.85± 1.18	9.75± 0.69	9.60± 0.74	9.85± 0.97	20%	
<i>Main effects</i>						
9.96± 1.05	9.97± 1.24	9.90± 1.25	9.93± 1.33	9.80± 1.20	<i>Winter</i>	<i>Season</i>
9.81± 1.07	9.21± 1.04	9.21± 0.99	9.19± 0.93	9.16± 1.05	<i>Summer</i>	
NS	*	*	*	*	<i>Significance</i>	<i>Feed</i>
9.76 ^b ± 1.21	9.68 ^a ± 1.17	9.29 ^a ± 1.23	9.23 ^c ± 0.99	9.23 ^a ± 0.89	0.0%	
9.61 ^b ± 1.30		9.40 ^a ± 1.38	9.50 ^b ± 1.51	9.66 ^a ± 1.44	10%	
10.69 ^a ± 0.85	9.15 ^a ± 1.36	9.59 ^a ± 0.94	9.63 ^{a,b} ± 1.07	9.38 ^a ± 1.10	15%	
10.88 ^a ± 1.06	9.78 ^a ± 0.83	9.45 ^a ± 1.12	9.86 ^a ± 1.16	9.64 ^a ± 1.19	20%	
*	NS	NS	*	NS	<i>Significance</i>	

- * = Significant at ($P < 0.05$)
- ** = Significant at ($P < 0.01$)
- NS =Not Significant
- a,b = means with in the same column followed by different superscript are significantly different.

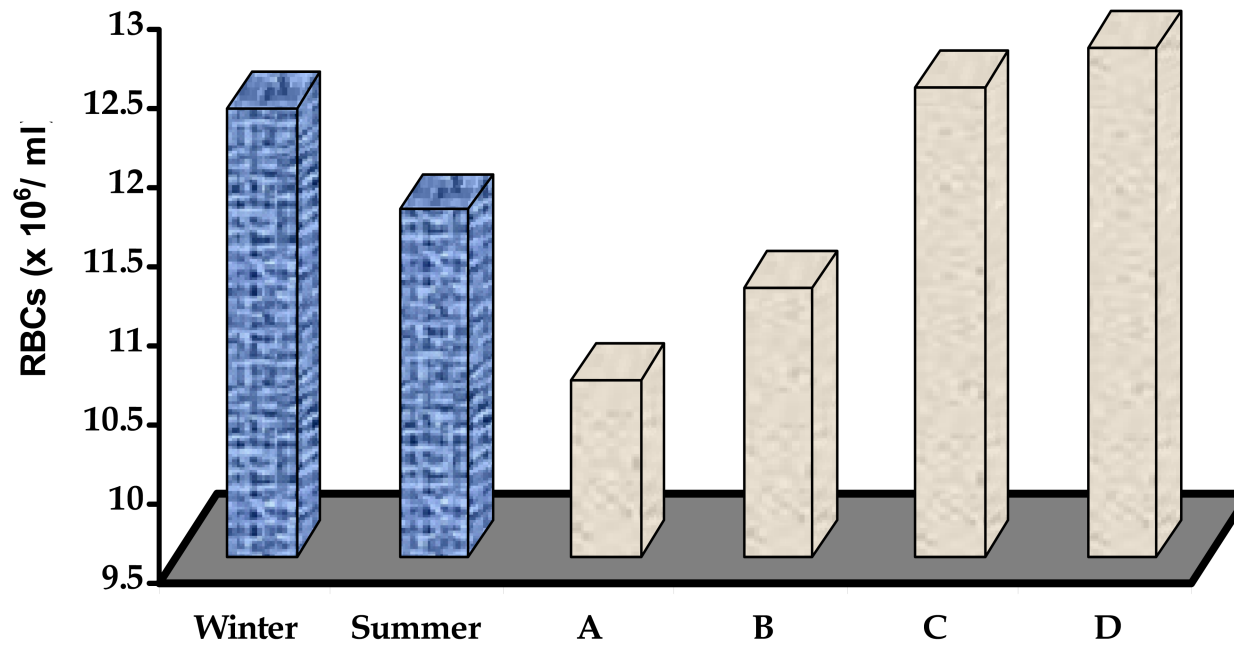


Fig (1) : Effect of season and feed on RBCs count of Nubian goats kids fed different levels of C.cajan.

- RBCs: Red Blood Cells.
- Ration contain of *C.cajan* : A 0.0%, B 10 %, C 15,D 20 % .

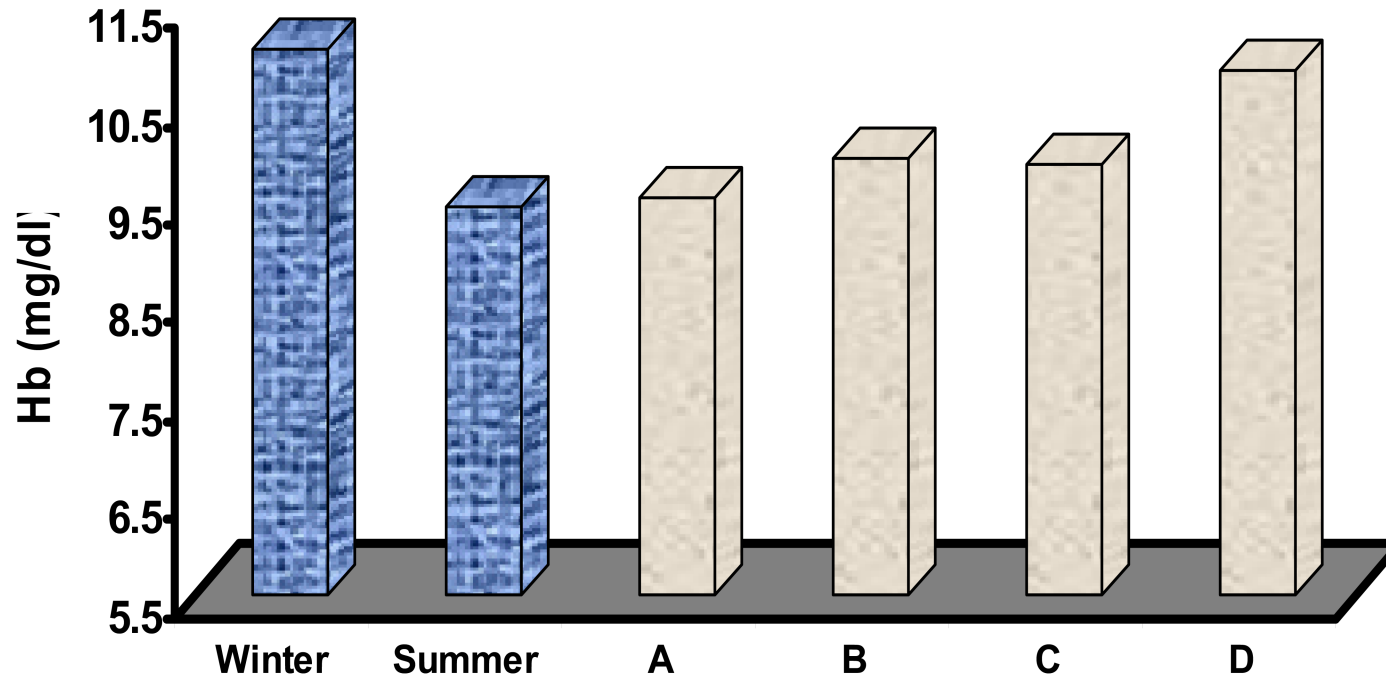


Fig (2) : Effect of season and feed on Hb concentration of Nubian goats kids fed different levels of C.cajan.

- Hb : Haemoglobin concentration .
- Ration contain of *C.cajan* : A 0.0%, B 10 %, C 15,D 20 % .

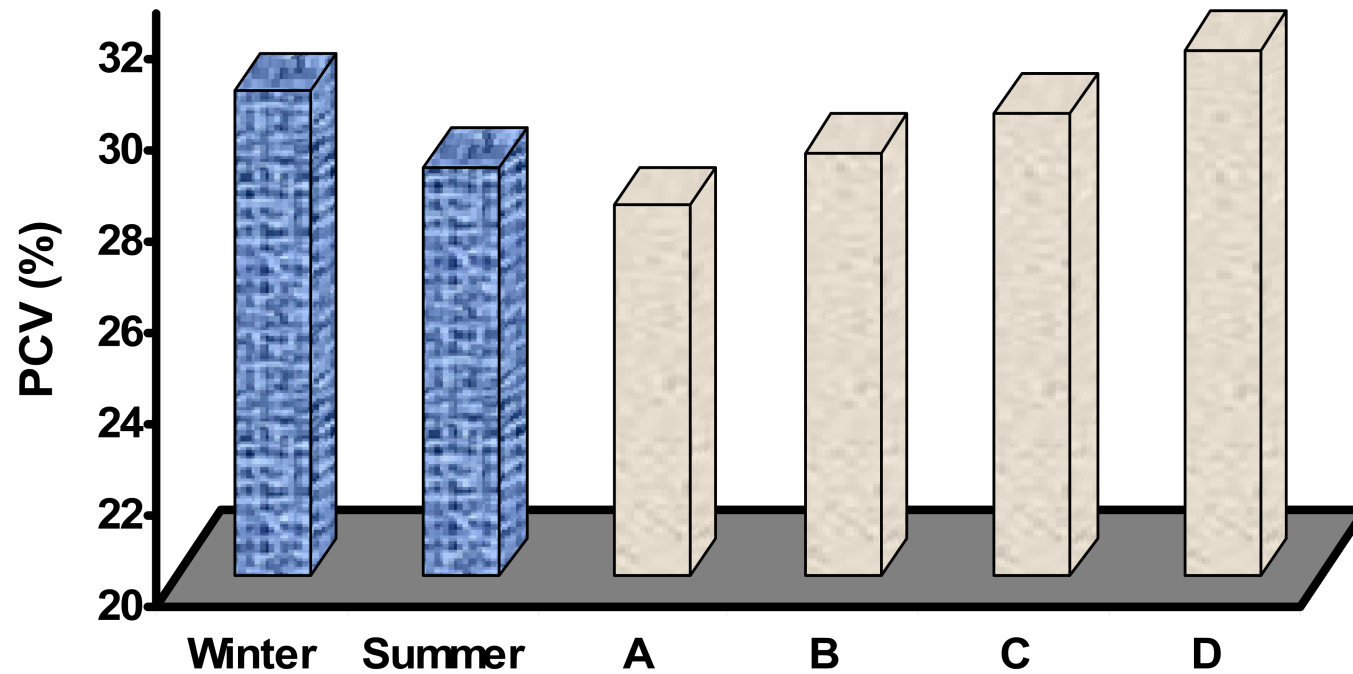


Fig (3) : Effect of season and feed on PCV of Nubian goats kids fed different levels of *C.cajan*.

- PCV: Packed Cell Volume.
- Ration contain of *C.cajan* : A 0.0%, B 10 %, C 15,D 20 % .

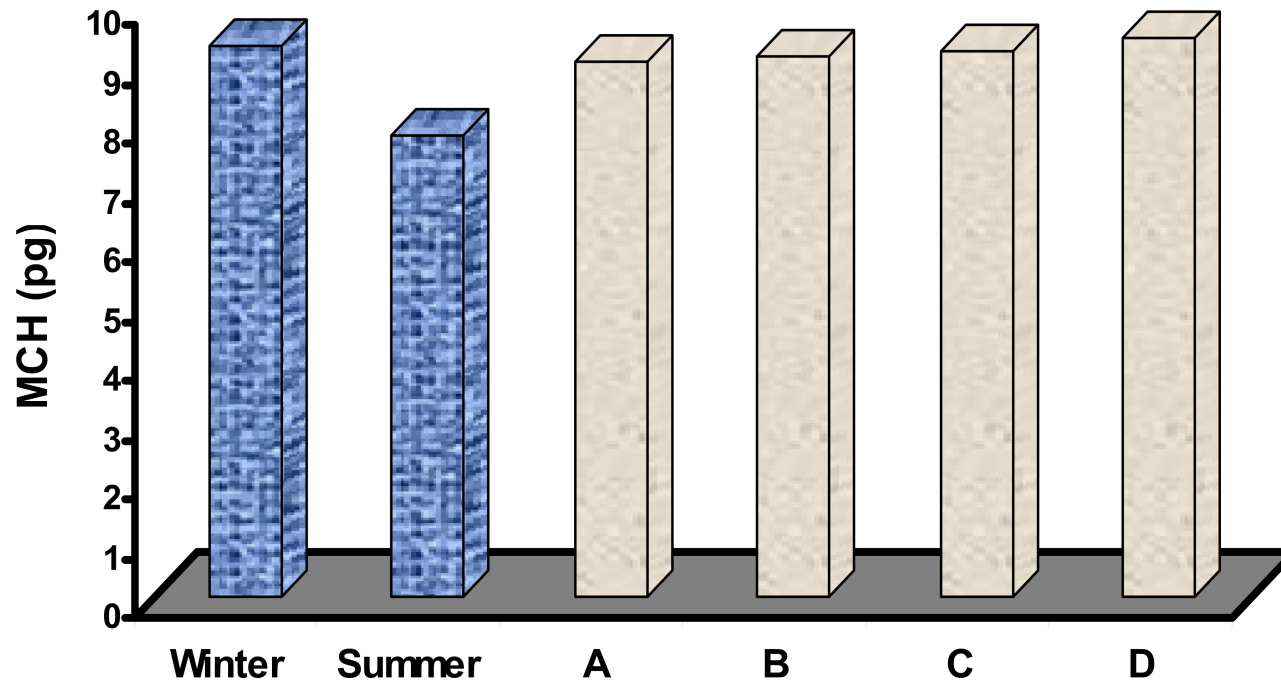


Fig (4) : Effect of season and feed on MCH of Nubian goats kids fed different levels of *C.cajan*.

- MCH: Mean corpuscular haemoglobin concentration.
- Ration contain of *C.cajan* : A 0.0%, B 10 %, C 15,D 20 % .

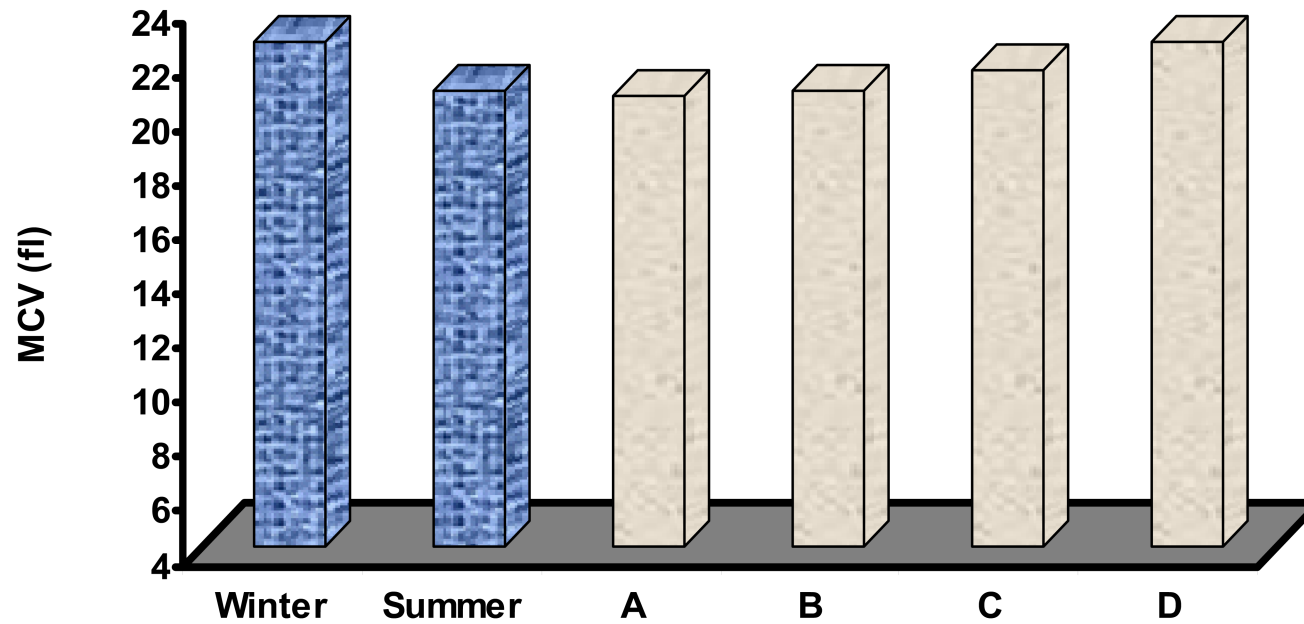


Fig (5) : Effect of season and feed on MCV of Nubian goats kids fed different levels of C.cajan.

- MCV: Mean corpuscular volume.
- Ration contain of *C.cajan* : A 0.0%, B 10 %, C 15,D 20 % .

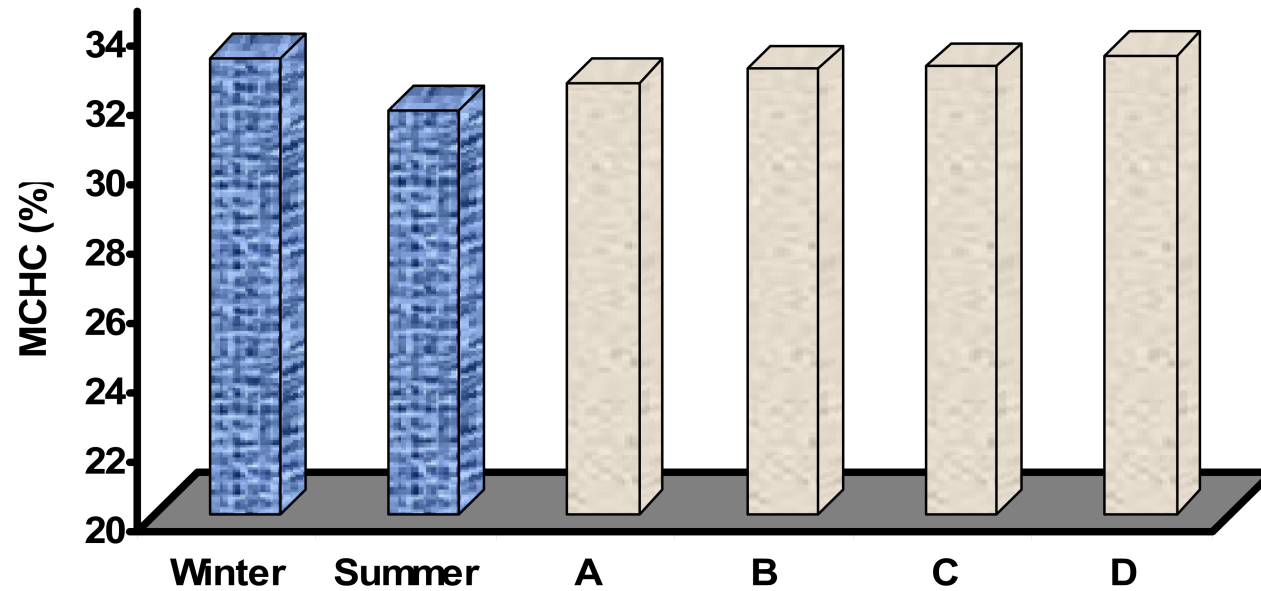


Fig (6) : Effect of season and feed on MCHC of Nubian goats kids fed different levels of *C.cajan*.

- MCHC: Mean corpuscular haemoglobin concentration.
- Ration contain of *C.cajan* : A 0.0%, B 10 %, C 15,D 20 % .

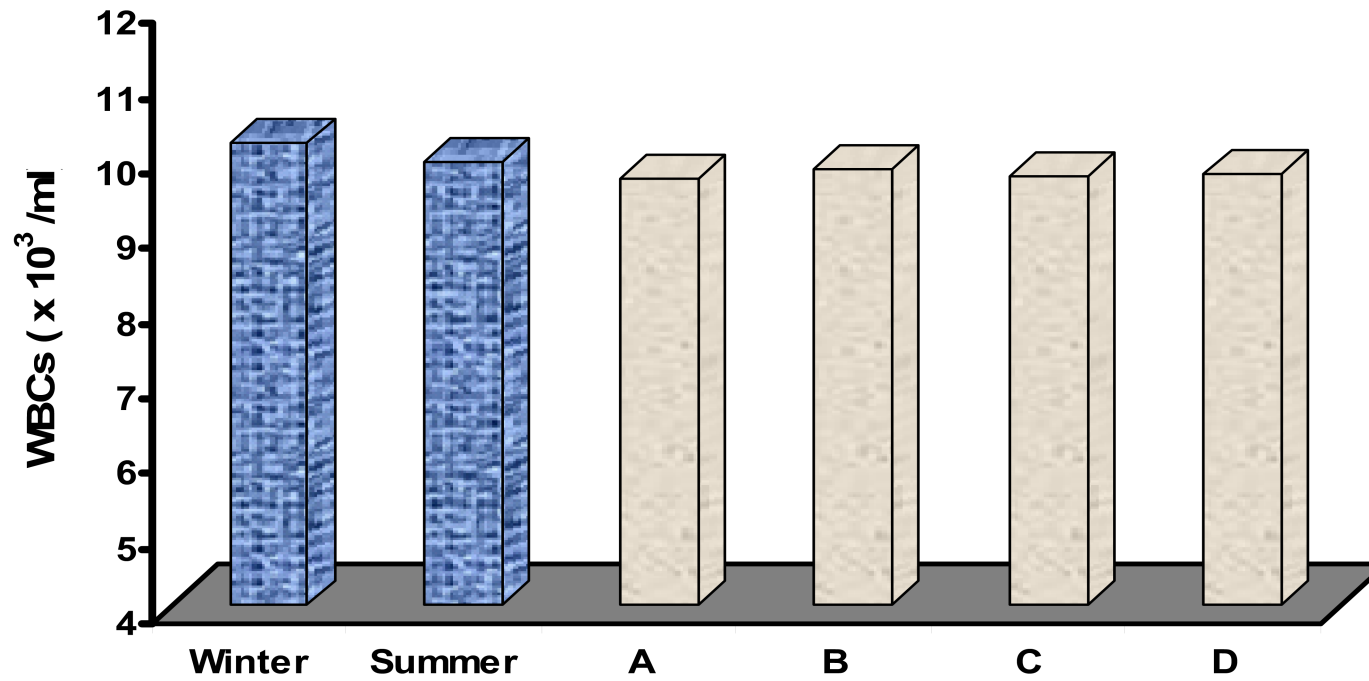


Fig (7) : Effect of season and feed on WBCs count of Nubian goats kids fed different levels of *C.cajan*.

- WBCs: White Blood Cells.
- Ration contain of *C.cajan* : A 0.0%, B 10 %, C 15,D 20 % .

