

Table 2. Physical diluted semen quality of NZW rabbit bucks, during incubation condition at 37^o C for up to 6 hours as affected by Gibberellic and Boric acid or both injection (Means \pm SE).

Characteristics	Incubation period (Hrs.)	Acids injection				Means \pm SE
		Control	Gibberellic	Boric	Gibberellic & Boric	
Advanced sperm motility (%)	0.0	60.84 \pm 2.48	68.72 \pm 2.93	74.71 \pm 2.79	77.92 \pm 3.12	70.55 \pm 2.69 ^A
	2.0	52.37 \pm 2.14	65.38 \pm 2.51	66.96 \pm 2.54	73.84 \pm 2.51	64.64 \pm 2.17 ^B
	4.0	44.36 \pm 1.74	58.18 \pm 2.11	66.01 \pm 2.04	70.84 \pm 2.37	59.85 \pm 2.09 ^C
	6.0	35.46 \pm 1.83	50.74 \pm 2.17	61.37 \pm 1.96	66.19 \pm 2.13	53.44 \pm 1.79 ^D
Means \pm SE		48.26\pm1.96^d	60.76\pm2.24^c	67.26\pm2.47^b	72.20\pm2.42^a	62.12\pm2.03
Storage ability (%)		58.28 \pm 2.82 ^c	73.84 \pm 3.31 ^b	82.14 \pm 3.29 ^a	84.95 \pm 3.54 ^a	74.80 \pm 3.14
Dead spermatozoa (%)	0.0	26.61 \pm 1.35	22.68 \pm 1.13	17.73 \pm 1.09	15.59 \pm 1.08	20.65 \pm 1.09 ^D
	2.0	30.41 \pm 1.48	25.73 \pm 1.44	19.69 \pm 1.16	16.61 \pm 1.00	23.11 \pm 1.26 ^C
	4.0	35.74 \pm 1.96	29.24 \pm 1.57	21.71 \pm 1.17	18.73 \pm 1.03	26.36 \pm 1.42 ^B
	6.0	39.91 \pm 2.36	32.99 \pm 2.09	24.82 \pm 1.68	21.17 \pm 1.47	29.72 \pm 1.71 ^A
Means \pm SE		33.17\pm1.58^a	27.66\pm1.37^b	20.99\pm1.21^c	18.03\pm1.10^d	24.96\pm1.28
Sperm abnormalities (%)	0.0	21.36 \pm 1.17	17.14 \pm 0.97	15.13 \pm 0.86	13.98 \pm 0.74	16.90 \pm 0.92 ^B
	2.0	22.71 \pm 1.25	18.16 \pm 1.08	15.58 \pm 0.84	14.21 \pm 0.87	17.67 \pm 0.95 ^B
	4.0	23.98 \pm 1.22	19.27 \pm 1.11	16.35 \pm 1.00	14.73 \pm 0.82	18.58 \pm 1.04 ^B
	6.0	28.14 \pm 1.37	24.19 \pm 1.29	18.31 \pm 1.15	14.77 \pm 0.99	21.35 \pm 1.07 ^A
Means \pm SE		24.05\pm1.23^a	19.69\pm1.04^b	16.34\pm0.87^c	14.42\pm0.83^d	18.63\pm0.97
Acrosomal damages (%)	0.0	18.73 \pm 1.12	15.84 \pm 0.93	14.27 \pm 0.84	11.86 \pm 0.69	15.18 \pm 0.81 ^C
	2.0	20.84 \pm 1.26	18.21 \pm 1.13	15.31 \pm 0.92	12.49 \pm 0.81	16.71 \pm 1.04 ^C
	4.0	24.91 \pm 1.36	21.40 \pm 1.24	17.40 \pm 1.15	13.67 \pm 0.82	19.35 \pm 1.11 ^B
	6.0	27.01 \pm 1.33	25.14 \pm 1.42	20.69 \pm 1.14	14.85 \pm 0.94	21.92 \pm 1.19 ^A
Means \pm SE		22.87\pm1.15^a	20.15\pm1.01^b	16.92\pm0.91^c	13.22\pm0.77^d	18.29\pm0.94

Means bearing different letter superscripts (a,b,c,d) within the same row or (A,B,C,D) within the same column within each trait are significantly ($P \leq 0.05$ or 0.01) different.

Table 3. Physical diluted semen quality of NZW rabbit bucks, during chilled storage at (4-6)^o C for up to 3 days as affected by Gibberellic and Boric acid or both injection (Means \pm SE).

Characteristics	Chilled storage (Days.)	Acids injection				Means \pm SE
		Control	Gibberellic	Boric	Gibberellic & Boric	
Advanced sperm motility (%)	0.0	60.11 \pm 2.44	68.13 \pm 2.91	74.22 \pm 2.72	77.31 \pm 3.04	69.94 \pm 2.55 ^A
	1.0	50.62 \pm 2.01	63.17 \pm 2.36	64.99 \pm 2.50	70.19 \pm 2.39	62.24 \pm 2.01 ^B
	2.0	49.92 \pm 1.70	52.74 \pm 2.03	61.27 \pm 2.22	66.27 \pm 2.41	57.55 \pm 1.91 ^C
	3.0	31.16 \pm 1.80	44.72 \pm 1.77	53.19 \pm 1.94	59.68 \pm 2.11	47.19 \pm 1.54 ^D
Means \pm SE		47.95\pm1.74^d	57.19\pm2.20^c	63.42\pm2.17^b	68.36\pm2.33^a	59.23\pm1.94
Storage ability (%)		51.84 \pm 2.71 ^c	65.64 \pm 2.86 ^b	71.67 \pm 3.11 ^a	77.20 \pm 3.24 ^a	74.80 \pm 2.84
Dead spermatozoa (%)	0.0	27.06 \pm 1.39	22.99 \pm 1.05	18.11 \pm 1.06	15.72 \pm 1.06	20.97 \pm 1.14 ^D
	1.0	31.16 \pm 1.77	27.22 \pm 1.49	21.86 \pm 1.25	16.99 \pm 1.17	24.31 \pm 1.21 ^C
	2.0	37.85 \pm 1.94	31.55 \pm 1.71	23.79 \pm 1.35	20.69 \pm 1.33	28.47 \pm 1.36 ^B
	3.0	42.73 \pm 2.24	35.07 \pm 2.12	27.96 \pm 1.57	23.41 \pm 1.82	32.29 \pm 1.79 ^A
Means \pm SE		34.70\pm1.67^a	29.21\pm1.33^b	22.93\pm1.26^c	19.20\pm1.04^d	26.51\pm1.28
Sperm abnormalities (%)	0.0	21.42 \pm 1.14	17.16 \pm 1.12	15.36 \pm 0.91	13.95 \pm 0.85	16.98 \pm 1.13 ^B
	1.0	22.84 \pm 1.29	18.34 \pm 1.07	15.55 \pm 0.93	14.27 \pm 0.90	17.75 \pm 1.20 ^B
	2.0	24.05 \pm 1.47	19.51 \pm 1.28	16.39 \pm 1.11	14.99 \pm 1.08	18.74 \pm 1.17 ^B
	3.0	28.47 \pm 1.59	24.21 \pm 1.33	18.49 \pm 1.11	15.41 \pm 1.12	21.65 \pm 1.34 ^A
Means \pm SE		24.20\pm1.29^a	19.81\pm1.07^b	16.45\pm0.99^c	14.66\pm0.74^d	18.78\pm1.11
Acrosomal damages (%)	0.0	19.82 \pm 1.28	16.41 \pm 0.88	14.32 \pm 0.87	11.97 \pm 0.75	15.63 \pm 0.82 ^C
	1.0	21.24 \pm 1.28	19.03 \pm 1.03	16.18 \pm 0.86	13.21 \pm 0.69	17.42 \pm 0.97 ^C
	2.0	26.17 \pm 1.44	23.27 \pm 1.26	19.63 \pm 1.11	15.88 \pm 1.10	21.24 \pm 1.25 ^B
	3.0	31.01 \pm 1.85	28.49 \pm 1.61	23.51 \pm 1.59	17.94 \pm 1.33	25.24 \pm 1.34 ^A
Means \pm SE		24.56\pm1.33^a	21.80\pm1.14^b	18.41\pm0.98^c	14.75\pm0.79^d	19.88\pm0.97

Means bearing different letter superscripts (a, b, c) within the same row or (A, B, C) within the same column within each trait are significantly (P \leq 0.05 or 0.01) different.