**Dietary L-arginine supplementation improves semen quality and libido of boars under high ambient temperature**

J. Q. Chen, Y. S. Li, Z. J. Li, H. X. Lu, P. Q. Zhu and C. M. Li

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month  Day | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| 1 | 9:55:22 | 10:31:49 | 11:28:06 | 12:34:07 | 13:33:49 | 14:17:10 | 14:23:29 | 13:49:47 | 12:52:27 | 11:49:45 | 10:47:16 | 10:02:51 |
| 2 | 9:55:55 | 10:33:31 | 11:30:11 | 12:36:14 | 13:35:36 | 14:18:03 | 14:22:59 | 13:48:12 | 12:50:24 | 11:47:39 | 10:45:25 | 10:01:54 |
| 3 | 9:56:30 | 10:35:15 | 11:32:18 | 12:38:21 | 13:37:22 | 14:18:51 | 14:22:26 | 13:46:34 | 12:48:21 | 11:45:32 | 10:43:36 | 10:00:59 |
| 4 | 9:57:09 | 10:37:00 | 11:34:24 | 12:40:26 | 13:39:07 | 14:19:38 | 14:21:50 | 13:44:57 | 12:46:19 | 11:43:27 | 10:41:47 | 10:00:07 |
| 5 | 9:57:51 | 10:38:47 | 11:36:31 | 12:42:32 | 13:40:51 | 14:20:22 | 14:21:12 | 13:43:17 | 12:44:15 | 11:41:21 | 10:40:00 | 9:59:18 |
| 6 | 9:58:35 | 10:40:34 | 11:38:38 | 12:44:37 | 13:42:33 | 14:21:04 | 14:20:31 | 13:41:36 | 12:42:12 | 11:39:15 | 10:38:13 | 9:58:31 |
| 7 | 9:59:21 | 10:42:23 | 11:40:45 | 12:46:42 | 13:44:14 | 14:21:43 | 14:19:48 | 13:39:53 | 12:40:08 | 11:37:10 | 10:36:29 | 9:57:47 |
| 8 | 10:00:11 | 10:44:13 | 11:42:53 | 12:48:47 | 13:45:55 | 14:22:19 | 14:19:01 | 13:38:11 | 12:38:04 | 11:35:05 | 10:34:45 | 9:57:06 |
| 9 | 10:01:04 | 10:46:04 | 11:45:01 | 12:50:52 | 13:47:33 | 14:22:53 | 14:18:13 | 13:36:26 | 12:35:59 | 11:33:00 | 10:33:03 | 9:56:28 |
| 10 | 10:01:59 | 10:47:57 | 11:47:09 | 12:52:55 | 13:49:09 | 14:23:23 | 14:17:22 | 13:34:41 | 12:33:55 | 11:30:56 | 10:31:22 | 9:55:53 |
| 11 | 10:02:57 | 10:49:49 | 11:49:17 | 12:54:58 | 13:50:46 | 14:23:52 | 14:16:29 | 13:32:54 | 12:31:50 | 11:28:51 | 10:29:42 | 9:55:20 |
| 12 | 10:03:57 | 10:51:44 | 11:51:25 | 12:57:01 | 13:52:20 | 14:24:17 | 14:15:33 | 13:31:07 | 12:29:44 | 11:26:47 | 10:28:04 | 9:54:50 |
| 13 | 10:05:01 | 10:53:40 | 11:53:34 | 12:59:03 | 13:53:51 | 14:24:40 | 14:14:35 | 13:29:18 | 12:27:39 | 11:24:44 | 10:26:28 | 9:54:25 |
| 14 | 10:06:06 | 10:55:35 | 11:55:42 | 13:01:05 | 13:55:23 | 14:25:00 | 14:13:35 | 13:27:28 | 12:25:33 | 11:22:40 | 10:24:53 | 9:54:00 |
| 15 | 10:07:14 | 10:57:32 | 11:57:50 | 13:03:06 | 13:56:52 | 14:25:17 | 14:12:32 | 13:25:37 | 12:23:28 | 11:20:37 | 10:23:19 | 9:53:40 |
| 16 | 10:08:24 | 10:59:30 | 11:59:59 | 13:05:08 | 13:58:19 | 14:25:32 | 14:11:27 | 13:23:46 | 12:21:21 | 11:18:35 | 10:21:47 | 9:53:23 |
| 17 | 10:09:37 | 11:01:29 | 12:02:07 | 13:07:08 | 13:59:45 | 14:25:43 | 14:10:21 | 13:21:53 | 12:19:16 | 11:16:33 | 10:20:18 | 9:53:09 |
| 18 | 10:10:51 | 11:03:28 | 12:04:16 | 13:09:07 | 14:01:09 | 14:25:52 | 14:09:12 | 13:20:00 | 12:17:09 | 11:14:31 | 10:18:49 | 9:52:58 |
| 19 | 10:12:09 | 11:05:28 | 12:06:25 | 13:11:06 | 14:02:31 | 14:25:58 | 14:08:01 | 13:18:07 | 12:15:03 | 11:12:30 | 10:17:23 | 9:52:49 |
| 20 | 10:13:28 | 11:07:29 | 12:08:34 | 13:13:04 | 14:03:51 | 14:26:01 | 14:06:47 | 13:16:12 | 12:12:56 | 11:10:29 | 10:15:58 | 9:52:44 |
| 21 | 10:14:49 | 11:09:30 | 12:10:42 | 13:15:02 | 14:05:10 | 14:26:01 | 14:05:32 | 13:14:16 | 12:10:50 | 11:08:29 | 10:14:36 | 9:52:42 |
| 22 | 10:16:13 | 11:11:32 | 12:12:50 | 13:16:58 | 14:06:26 | 14:25:59 | 14:04:15 | 13:12:20 | 12:08:43 | 11:06:30 | 10:13:16 | 9:52:44 |
| 23 | 10:17:39 | 11:13:34 | 12:14:58 | 13:18:54 | 14:07:40 | 14:25:53 | 14:02:56 | 13:10:24 | 12:06:37 | 11:04:31 | 10:11:57 | 9:52:49 |
| 24 | 10:19:06 | 11:15:37 | 12:17:06 | 13:20:49 | 14:08:52 | 14:25:45 | 14:01:35 | 13:08:26 | 12:04:31 | 11:02:33 | 10:10:41 | 9:52:56 |
| 25 | 10:20:35 | 11:17:41 | 12:19:15 | 13:22:43 | 14:10:02 | 14:25:34 | 14:00:13 | 13:06:29 | 12:02:24 | 11:00:35 | 10:09:26 | 9:53:06 |
| 26 | 10:22:06 | 11:19:45 | 12:21:23 | 13:24:36 | 14:11:11 | 14:25:20 | 13:58:48 | 13:04:29 | 12:00:17 | 10:58:39 | 10:08:15 | 9:53:20 |
| 27 | 10:23:39 | 11:21:50 | 12:23:31 | 13:26:29 | 14:12:16 | 14:25:04 | 13:57:22 | 13:02:30 | 11:58:10 | 10:56:43 | 10:07:05 | 9:53:37 |
| 28 | 10:25:14 | 11:23:55 | 12:25:39 | 13:28:20 | 14:13:20 | 14:24:44 | 13:55:54 | 13:00:31 | 11:56:04 | 10:54:48 | 10:05:58 | 9:53:57 |
| 29 | 10:26:50 | 11:25:59 | 12:27:47 | 13:30:11 | 14:14:21 | 14:24:21 | 13:54:25 | 12:58:31 | 11:53:58 | 10:52:54 | 10:04:53 | 9:54:20 |
| 30 | 10:28:28 |  | 12:29:53 | 13:32:00 | 14:15:20 | 14:23:57 | 13:52:54 | 12:56:30 | 11:51:52 | 10:51:00 | 10:03:51 | 9:54:46 |
| 31 | 10:30:07 | 12:32:01 |  | 14:16:16 |  | 13:51:21 | 12:54:29 |  | 10:49:08 |  | 9:55:15 |

**Table S1** *Day-length profile in the geographic area where the experiment was performed*