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Quality of
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The quality of working life (QWL) and its impact on the performance of the employees at JAWWAL Palestine Cellular Communications Ltd. Company.

Abstract

This study aimed at investigating the quality of working life (QWL) and its impact on the performance of the employees at JAWWAL Palestine Cellular Communications Ltd. Company.

To investigate the correlation between the quality of work life and the employees' performance, we used a descriptive approach. To this end, three questionnaires were designed to collect data relevant to the research hypotheses and questions, the first and the second questionnaires address the personnel at JAWWAL, while the third relates to the customers. The collected data was analyzed using several descriptive statistical measures (mean, variance, percentiles), moreover, we used Pearson correlation coefficient, t-test, ANOVA, and Cronbach's α statistic to measure the internal consistency or reliability of the questionnaires.

Random sampling techniques were employed where 140 questionnaires were distributed among the employees, 47 among the directors, and 1500 among the customers.

The study has reflected several positive results pertaining to the employees' responses which are related to the quality of work life at JAWWAL via the following traits: salaries and benefits, leadership quality, employment security, quality of health care, quality of social integrity, quality of compensation between life and work, and quality of overall view about the organization.

The results concerning the employees' performance via their performance characteristics: dedication and honesty, communications and relationship, punctuality, productivity, abiding by the organization culture and rules.

Regarding the hypotheses, this research shows that there exists a genuine correlation between the quality of work life in one hand and the employees' performance on the other.

The following recommendations are suggested by the student-researcher:

- The company (JAWWAL) should work more to enhance its employees professionalism on the two levels: vertical and horizontal.
- Provide ongoing (continuous) professional training in communication skills.
- Give the employees a chance to show their abilities and potentials.
- Encourage innovation
- Use high technology to facilitate customers services

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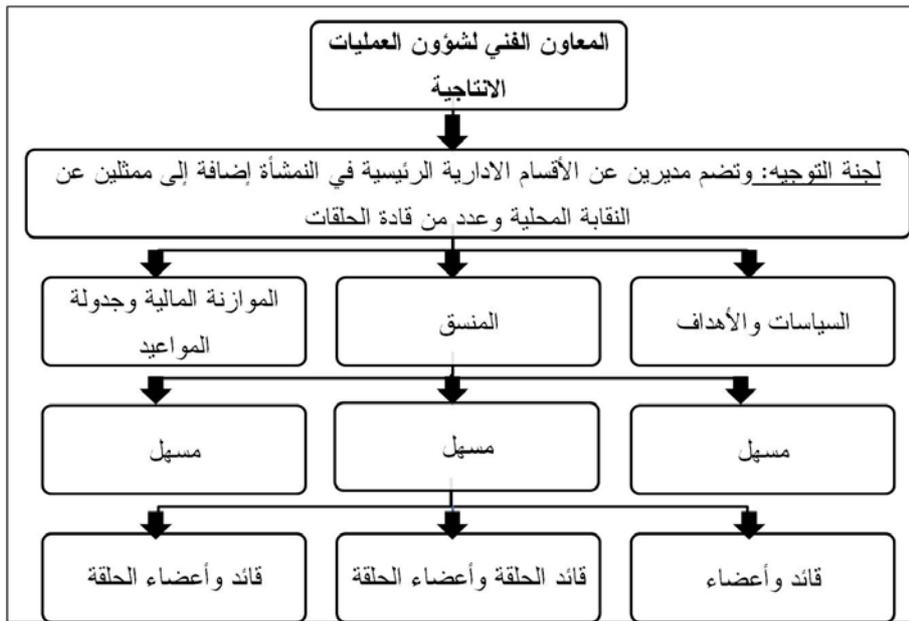
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(Iverson and Erwin, 97)

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14.1	150	6.7	7	18.6	8	40 - 49	
100.0	1064	100	105	100	43		
47.9	510	46.7	49	72.1	31		
52.1	554	53.3	56	27.9	12		
100.0	1064	100.0	105	100.0	43		
-	-	64.8	68	27.9	12	5	
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38.5	410	6.7	7	9.3	4		
50.2	534	79.0	83	83.72	36		
11.3	120	14.3	15	6.97	3		
100.0	1064	100.0	105	100	43		
38.7	412	28.6	30	69.77	30		
56.8	604	67.6	71	30.23	13		
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100.0	1064	100.0	105	100.0	43		
12.6	134	14.3	15	18.6	8		
74.4	792	75.2	79	60.5	26		
13.0	138	10.5	11	20.9	9		
100.0	1064	100.0	105	100.0	43		
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One-Way ANOVA

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	77.1	0.86	3.86		1	1
	76.0	1.08	3.80		2	5
	75.6	0.92	3.78		3	8
	74.5	0.97	3.72		4	9
	73.0	0.99	3.65		5	10
	72.2	1.03	3.61		6	6
	71.6	0.74	3.58		7	7
	69.7	0.83	3.49		8	3
	69.5	0.81	3.48		9	2

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	69.3	0.89	3.47		10	4
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	80.6	0.97	4.03		1	2
	80.4	0.97	4.02		2	14
	79.2	0.88	3.96		3	13
	77.5	0.96	3.88)	4	3
	76.2	1.01	3.81	(5	11
	76.2	1.07	3.81		6	12
	75.4	1.04	3.77		7	1
	75.2	1.01	3.76		8	5
	73.9	1.04	3.70		9	6
	73.7	0.91	3.69		10	4
	72.2	1.01	3.61		11	9
	72.2	0.98	3.61		12	10
	72.2	0.94	3.61		31	16
	72.0	0.83	3.60		41	8

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	71.8	0.85	3.59		15	15
	69.5	1.12	3.48		16	7
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	77.0	0.85	3.85		1	1
	76.8	0.95	3.84		2	4
	74.1	0.87	3.70		3	3
	73.0	0.96	3.65		4	2
	72.0	0.97	3.60		5	5
	71.6	0.98	3.58		6	7

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	71.0	0.91	3.55		7	6
	69.7	0.97	3.49		8	8
	69.5	0.93	3.48		9	9
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	78.3	0.79	3.91		1	5
	76.2	0.96	3.81		2	7
	76.0	0.97	3.80		3	2
	76.0	0.93	3.80		4	9
	75.6	0.77	3.78		5	1
	75.6	0.93	3.78		6	15
	73.5	0.90	3.68		7	3
	73.3	0.90	3.67		8	6
	73.3	0.91	3.67		9	10
	73.0	0.98	3.65		10	4
	73.0	1.00	3.65		11	14
	71.6	0.68	3.58		12	11
	71.0	1.07	3.55		13	8
	66.5	0.90	3.32		14	13
	65.9	0.83	3.30		15	12
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	78.9	0.84	3.94		1	1
	78.9	0.98	3.94		2	2
	78.9	0.86	3.94		3	9
	77.7	0.90	3.89		4	5
	76.8	0.81	3.84		5	4
	76.6	0.85	3.83		6	8
	76.4	0.98	3.82		7	7
	75.6	1.04	3.78		8	3
	72.0	0.88	3.60		9	10
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	76.2	0.56	3.81			

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	81.3	0.75	4.07		1	14
	78.9	0.91	3.94		2	4
	78.3	0.69	3.91		3	1
	77.7	0.99	3.89		4	8

: -6.4

	77.0	0.92	3.85		5	11
	76.6	0.90	3.83		6	15
	76.2	0.92	3.81		7	5
	75.0	0.89	3.75		8	6
	74.1	0.87	3.70		9	10
	73.7	1.13	3.69		10	12
	73.5	0.86	3.68		11	13
	73.1	0.96	3.66		12	2
	73.0	1.00	3.65		13	7
	71.6	0.86	3.58		14	9
	70.5	0.98	3.52		15	3
	75.4	0.47	3.77			

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	77.3	0.81	3.87		1	6
	76.2	0.67	3.81		2	1
	75.8	0.86	3.79		3	4
	74.9	1.02	3.74		4	7
	74.9	0.76	3.74		5	10
	74.7	0.61	3.73		6	9
	74.1	0.90	3.70		7	3
	72.2	0.84	3.61		8	2
	72.2	0.89	3.61		9	5
	70.9	0.84	3.54		10	8
	70.7	0.95	3.53		11	11
	74.0	0.44	3.70			

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	80.2	0.83	4.01		1	9
	78.9	0.81	3.94		2	10
	77.7	1.03	3.89		3	7
	77.0	0.82	3.85		4	1
	75.0	0.91	3.75		5	8

: -8.4

	74.5	0.87	3.72		6	2
	72.8	0.95	3.64		7	3
	71.8	0.91	3.59		9	6
	71.6	0.94	3.58		8	5
	69.0	1.05	3.45		10	4
	74.8	0.54	3.74			

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	75.8	1.00	3.79	()	1	7
	74.9	0.83	3.74	.	2	3
	73.9	0.81	3.70	.	3	6
	73.7	0.81	3.69	.	4	2
	73.0	0.80	3.65	.	5	1
	72.2	0.75	3.61	.	6	8
	69.1	0.96	3.46	.	7	4
	65.3	0.91	3.27	.	8	5
	72.3	0.54	3.61	.		

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	80.4	0.81	4.02		1	7
	79.0	0.81	3.95	()	2	6
	78.7	0.90	3.93		3	9
	78.5	0.77	3.92		4	1

: -10.4

	77.0	0.85	3.85		5	3
	74.5	0.95	3.72		6	4
	74.1	0.84	3.70		7	8
	73.5	0.99	3.68	()	8	2
	73.1	0.98	3.66		9	5
	76.5	0.57	3.83			

(-10.4) (-10.4)

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.11.1.2.4

(3.61- 3.83)

11.4

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	0.57	3.83		10
	0.56	3.81		5
	0.47	3.77		6
	540.	753.		2
	0.54	3.74		8
	0.44	3.70		7
	490.	663.		4
	0.59	3.64		1
	550.	643.		3
	0.54	3.61		9
	0.59	3.64		

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	0.69	4.26	.	2
	0.77	4.11	.	3
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	88.0	923.	.	5
	.970	883.	.	6
	710.	833.	.	7
	0.73	3.91		8
	0.79	3.98	()	

(12.4)

(4.02)

(4.11)

(3.92)

(4.26)

(3.74)

(3.88)

(3.83)

(4.0)

.2.2.2.4

(13.4)

(3.33 – 4.47)

(3.94)

:13.4

()

	0.61	4.4	.	1
	0.77	31.4	.	3
	0.84	943.	.	4
	0.79	10.4	.	5
	0.85	47.4)	2
	0.76	3.89	.	6
	0.70	.333	.	8
	0.73	3.97	.	9
	0.74	3.56	.	7
	0.74	3.94	()	

13.4

(4.4)

(4.31)

(3.94)

(4.10)

(4.347)

(3.97)

(3.89)

(3.56)

(3.33)

(4.0)

.3.2.2.4

(14.4)

.(4.1 – 4.52)

:14.4

	0.65	1.4	.	3
	0.49	4.17		6
	0.83	4.31		1
	0.92	4.19		2
	0.90	4.33	()	4
	0.94	4.52		5
	0.80	4.27		

(14.4)

(4.1)

.(4.17)

(3.4)
.(4.19)

(4.33)
.(4.52)

(4.27)

.4.2.2.4

(15.4)

.(3.07 – 4.33)

(4.06)

: -15.4

	0.76	3.85	.	8
	0.69	4.81	.	9
	0.64	4.33	.	10

: -15.4

	0.71	4.23		6
	0.76	4.11		7
	0.58	4.27		2
	0.71	3.79		3
	0.65	3.07		1
	0.93	4.21		4
	0.96	.983		5
	0.68	4.06	()	

(15.4)

4.06

(4.33)
)

(3.85)

:

(4.81

.(4.23)

•

.(4.1)

•

(4.27 (

•

(3.98)

•

(4.07)

•

•

.(3.79)

(4.21)

•

.5.2.2.4

(16.4)

(3.84 – 4.42)

(4.12)

:16.4

	0.68	.114		6
	0.71	3.88		7
	0.61	4.26		1
	0.59	4.31		3
	0.77	3.84		4
	0.68	4.27		2
	0.62	4.42		5
	0.83	3.93		8
	0.66	4.12	()	

(4.13)

(16.4)

)

(3.88

)

(4.1

)

(3.41) (3.84)
 (4.27)
 (3.93)
 (4.42)

(Fitzsimmons,2002)

.6.2.2.4

:17.4

	0.63	3.93		2
	0.83	4.00		6
	0.76	4.1		1
	0.83	4.61		4
	0.85	4.6		3
	0.92	4.23		5
	0.81	4.24	()	

(17.4)

.(3.93 – 4.61)

(17.4)

(4.0)

(3.93)

(4.6)

(4.61)

(4.23 4.1)

.4.24

.7.2.2.4

:18.4

	0.56	76.4		2
	0.69	4.45		5
	0.73	4.03		6
	0.61	4.32		7
	0.85	3.62		8
	0.80	4.48		3
	0.49	4.05		1
	0.68	3.87		4
	0.76	4.32	()	

(18.4)

.(3.62 – 4.76)

(18.4)

.(4.32)

(18.4)

(4.45)

(4.03)

)

(4.32)

(4.48)

.(3.87

.(4.05)

(3.62)

(18.4)

:

.8.2.2.4

4.2

4.13

4.0

.

:

.3.2.4

(20.4)

.(3.04 – 3.65)

:19.4

	0.79	3.98		1
	0.74	3.94		2
	0.80	4.27		3
	0.68	4.06		4
	0.66	4.12		5
	0.81	4.24		6
	0.76	4.32		7
	0.79	4.82		

: -20.4

	1.16	3.65) (4
	1.13	3.60		13
	1.14	3.59		10
	1.22	3.55		14
	1.11	3.53		11

: -20.4

	1.13	3.52		8
	1.15	3.49		5
	1.12	3.49		9
	1.13	3.48		7
	1.14	3.45		12
	1.18	3.42		6
	1.17	3.39		1
	1.13	3.21		2
	1.19	3.04		3
	0.83	3.46	()	

(20.4)

3.46

.%69.2

(3.65) %73.1

)

(
(%70.6 3.53)

.%72.1 3.60

71.8 3.59
 (%70.9 3.55)
 . (%69.9 3.49)
 (3.48) %69.5
 ()
 3.49)
 (69.8 69.9
 (%69 3.45)
 .(%68.5 3.42)

 .(%67.7 3.39)

%64.1 3.21
 (3.04) %60.8

4.4

:

$(\alpha \leq 0.05)$

:

:

$(\alpha \leq 0.05)$

•

(0.58)

()

0.03

$(\alpha \leq 0.05)$

:21.4

0.03	0.58	105	
		43	

$(\alpha \leq 0.05)$

*

$(\alpha \leq 0.05)$

•

(0.62)

()

0.01

$(\alpha \leq 0.05)$

:22.4

0.01	0.62	105	
		43	

($\alpha \leq 0.05$)

*

($\alpha \leq 0.05$)

•

(0.52)

0.04

($\alpha \leq 0.05$)

:23.4

0.04	0.52	105	
		43	

($\alpha \leq 0.05$)

*

($\alpha \leq 0.05$)

•

(0.49)

()

0.05

($\alpha \leq 0.05$)

:24.4

0.05	0.49	105	
		43	

($\alpha \leq 0.05$)

*

($\alpha \leq 0.05$)

•

(0.73)

()

0.00

($\alpha \leq 0.05$)

:25.4

0.000	0.73	105	
		43	

($\alpha \leq 0.05$)

*

($\alpha \leq 0.05$)

•

(0.64)

()

0.00

($\alpha \leq 0.05$)

:26.4

0.000	0.64	105	
		43	

($\alpha \leq 0.05$)

.*

($\alpha \leq 0.05$)

•

(0.47)

()

0.05

($\alpha \leq 0.05$)

:27.4

0.05	0.47	105	
		43	

($\alpha \leq 0.05$)

*

($\alpha \leq 0.05$)

•

(0.44)

()

0.045

($\alpha \leq 0.05$)

:28.4

0.045	0.44	105	
		43	

($\alpha \leq 0.05$)

*

($\alpha \leq 0.05$)

•

(0.42)

()

0.047

($\alpha \leq 0.05$)

:29.4

0.047	0.42	105	
		43	

($\alpha \leq 0.05$)

*

($\alpha \leq 0.05$)

•

(0.53)

()

0.05

$(\alpha \leq 0.05)$

$(\alpha \leq 0.05)$

:

:

:30.4

0.05	0.53	105	
		43	

$(\alpha \leq 0.05)$

.*

$(\alpha \leq 0.05)$

•

:

0.05

(31.4)

$(\alpha \leq 0.05)$

:

0.05

($\alpha \leq 0.05$)

($\alpha \leq 0.05$)

(32.4)

:31.4

0.763	0.39	0.14	3	0.41		
		0.36	101	35.94		
			104	36.36		
0.007	5.25	1.70	2	3.39		
		0.32	102	32.97		
			104	36.36		
0.575	0.56	0.20	2	0.39		
		0.35	102	35.97		
			104	36.36		
0.131	2.07	0.71	2	1.42		
		0.34	102	34.94		
			104	36.36		
0.020	4.04	1.33	2	2.67		
		0.33	102	33.69		
			104	36.36		
0.870	-0.16		103			

($\alpha \leq 0.05$)

*

LSD : -32.4

:

				(I-J)	(J)	(I)
-0.14	-0.61	0.002	0.12	-0.38	5-10	5
0.42	-1.20	0.342	0.41	-0.39	10	
0.61	0.14	0.002	0.12	0.38	5	5-10
0.81	-0.83	0.972	0.41	-0.01	10	
1.20	-0.42	0.342	0.41	0.39	5	10
0.83	-0.81	0.972	0.41	0.01	5-10	

($\alpha \leq 0.05$)

*

LSD - :33.4

:

				(I-J)	(J)	(I)
0.78	0.13	0.006	0.16	0.45		
0.91	0.01	0.046	0.23	0.46		
-0.13	-0.78	0.006	0.16	-0.45		
0.37	-0.36	0.975	0.18	0.01		
-0.01	-0.91	0.046	0.23	-0.46		
0.36	-0.37	0.975	0.18	-0.01		

($\alpha \leq 0.05$)

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($\alpha \leq 0.05$)

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:

0.05 34.4

$(\alpha \leq 0.05)$

:

0.05

$(\alpha \leq 0.05)$

$(\alpha \leq 0.05)$

(34.4)

: -33.4

(34.3)

0.001	5.71	1.46	3	4.38		
		0.26	101	25.86		
			104	30.24		
0.031	3.59	1.00	2	1.99		
		0.28	102	28.25		
			104	30.24		
0.021	3.99	1.10	2	2.20		
		0.27	102	28.05		
			104	30.24		
0.062	2.85	0.80	2	1.60		
		0.28	102	28.64		
			104	30.24		

: -33.4

(34.3)

0.000	9.31	2.33	2	4.67		
		0.25	102	25.57		
			104	30.24		
0.218	1.24		103			
	1.25					

(-34.4)

LSD : -34.4

:

				(I-J)	(J)	(I)
0.00	-0.52	0.052	0.13	-0.26	30 - 39	30
-0.20	-1.13	0.005	0.23	-0.66	*40 - 49	
-0.26	-1.70	0.008	0.36	-0.98	* 50	
0.52	0.00	0.052	0.13	0.26	30	30 - 39
0.10	-0.91	0.118	0.26	-0.40	40 - 49	
0.03	-1.47	0.059	0.38	-0.72	50	

LSD : -34.4

:

				(I-J)	(J)	(I)
1.13	0.20	0.005	0.23	0.66	* 30	40 – 49
0.91	-0.10	0.118	0.26	0.40	30 - 39	
0.52	-1.16	0.457	0.42	-0.32	50	
1.70	0.26	0.008	0.36	0.98	* 30	50
1.47	-0.03	0.059	0.38	0.72	30 - 39	
1.16	-0.52	0.457	0.42	0.32	40 - 49	
0.35	-0.09	0.234	0.11	0.13	5-10	5
-0.11	-1.61	0.025	0.38	-0.86	* 10	
0.09	-0.35	0.234	0.11	-0.13	5	5-10
-0.23	-1.75	0.011	0.38	-0.99	* 10	
1.61	0.11	0.025	0.38	0.86	* 5	10
1.75	0.23	0.011	0.38	0.99	* 5-10	
0.52	-0.30	0.598	0.21	0.11		
0.17	-0.78	0.206	0.24	-0.31		
0.30	-0.52	0.598	0.21	-0.11		
-0.12	-0.71	0.006	0.15	-0.41	*	
0.78	-0.17	0.206	0.24	0.31		
0.71	0.12	0.006	0.15	0.41	*	
0.11	-0.45	0.228	0.14	-0.17		
0.91	0.12	0.011*	0.20	0.52	*	
0.45	-0.11	0.228	0.14	0.17		
1.01	0.37	0.000*	0.16	0.69	*	
-0.12	-0.91	0.011*	0.20	-0.52	*	
-0.37	-1.01	0.000*	0.16	-0.69	*	

($\alpha \leq 0.05$)

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($\alpha \leq 0.05$)

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:

0.05

35.4

($\alpha \leq 0.05$)

:

0.05

($\alpha \leq 0.05$)

($\alpha \leq 0.05$)

(36.4)

: -35.4

0.967	0.09	0.03	3	0.08		
		0.31	101	31.67		
			104	31.75		
0.030	3.65	1.06	2	2.12		
		0.29	102	29.63		
			104	31.75		
0.262	1.36	0.41	2	0.82		
		0.30	102	30.93		
			104	31.75		
0.543	0.61	0.19	2	0.38		
		0.31	102	31.37		
			104	31.75		

: -35.4

0.004	5.80	1.62	2	3.24		
		0.28	102	28.51		
			104	31.75		
0.474	0.72		103			
	0.73					

($\alpha \leq 0.05$)

*

LSD : -36.4

:

				(I-J)	(J)	(I)
-0.08	-0.52	0.008	0.11	-0.30	5-10	5
0.74	-0.79	0.950	0.39	-0.02	10	
0.52	0.08	0.008	0.11	0.30	5	5-10
1.05	-0.50	0.480	0.39	0.28	10	
0.79	-0.74	0.950	0.39	0.02	5	10
0.50	-1.05	0.480	0.39	-0.28	5-10	
0.61	0.02	0.038	0.15	0.31		
1.13	0.30	0.001	0.21	0.71		
-0.02	-0.61	0.038	0.15	-0.31		
0.74	0.07	0.020	0.17	0.40		

LSD : -36.4

:

				(I-J)	(J)	(I)
-0.30	-1.13	0.001	0.21	-0.71		
-0.07	-0.74	0.020	0.17	-0.40		

($\alpha \leq 0.05$)

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($\alpha \leq 0.05$)

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0.05

(37.4)

($\alpha \leq 0.05$)

:

0.05

($\alpha \leq 0.05$)

($\alpha \leq 0.05$)

(38.4)

:37.4

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0.664	0.53	0.13	3	0.38		
		0.24	101	24.22		
			104	24.60		
0.539	0.62	0.15	2	0.30		
		0.24	102	24.30		
			104	24.60		
0.082	2.57	0.59	2	1.18		
		0.23	102	23.42		
			104	24.60		
0.817	0.20	0.05	2	0.10		
		0.24	102	24.50		
			104	24.60		
0.005	5.69	1.23	2	2.47		
		0.22	102	22.13		
			104	24.60		
0.951	-0.06		103			
	-0.06					

($\alpha \leq 0.05$)

*

LSD : -38.4

				(I-J)	(J)	(I)
0.69	0.17	0.002	0.13	0.43	*	
0.86	0.12	0.009	0.18	0.49	*	
-0.17	-0.69	0.002	0.13	-0.43	*	
0.36	-0.23	0.676	0.15	0.06		

LSD : -38.4

-0.12	-0.86	0.009	0.18	-0.49	*	
0.23	-0.36	0.676	0.15	-0.06		

($\alpha \leq 0.05$)

*

($\alpha \leq 0.05$)

•

:

0.05

(39.4)

($\alpha \leq 0.05$)

:

0.05

($\alpha \leq 0.05$)

($\alpha \leq 0.05$)

(40.4)

:39.4

0.759	0.39	0.13	3	0.38		
		0.32	101	32.53		
			104	32.91		
0.333	1.11	0.35	2	0.70		
		0.32	102	32.21		
			104	32.91		
0.840	0.17	0.06	2	0.11		
		0.32	102	32.79		
			104	32.91		
0.515	0.67	0.21	2	0.43		
		0.32	102	32.48		
			104	32.91		
0.000	8.48	2.34	2	4.69		
		0.28	102	28.22		
			104	32.91		
0.847	-0.19		103			
	-0.20					

($\alpha \leq 0.05$)

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($\alpha \leq 0.05$)

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:

LSD :40.4

:

				(I-J)	(J)	(I)
0.49	-0.10	0.183	0.15	0.20		
1.23	0.41	0.000	0.21	0.82	*	
0.10	-0.49	0.183	0.15	-0.20		
0.96	0.29	0.000	0.17	0.62	*	
-0.41	-1.23	0.000	0.21	-0.82	*	
-0.29	-0.96	0.000	0.17	-0.62	*	

($\alpha \leq 0.05$)

*

0.05

41.4

($\alpha \leq 0.05$)

:

0.05

0.05)

($\alpha \leq$

($\alpha \leq 0.05$)

(42.4)

:41.4

0.473	0.84	0.19	3	0.56		
		0.22	101	22.40		
			104	22.96		
0.149	1.94	0.42	2	0.84		
		0.22	102	22.12		
			104	22.96		
0.010	4.78	0.98	2	1.97		
		0.21	102	20.99		
			104	22.96		
0.314	1.17	0.26	2	0.52		
		0.22	102	22.45		
			104	22.96		
0.126	2.12	0.46	2	0.91		
		0.22	102	22.05		
			104	22.96		
0.323	-0.99		103			
	-1.00					

($\alpha \leq 0.05$)

*

LSD : -42.4

:

				(I-J)	(J)	(I)
-0.19	-0.90	0.003	0.18	-0.54		
-0.02	-0.85	0.039	0.21	-0.43		
0.90	0.19	0.003	0.18	0.54		

LSD : -42.4

:

				(I-J)	(J)	(I)
0.36	-0.14	0.393	0.13	0.11		
0.85	0.02	0.039	0.21	0.43		
0.14	-0.36	0.393	0.13	-0.11		

($\alpha \leq 0.05$)

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($\alpha \leq 0.05$)

•

:

0.05

43.4

($\alpha \leq 0.05$)

:

0.05

0.05)

($\alpha \leq$

($\alpha \leq 0.05$)

:43.4

0.347	1.11	0.22	3	0.65		
		0.20	101	19.72		
			104	20.37		
0.924	0.08	0.02	2	0.03		
		0.20	102	20.34		
			104	20.37		
0.020	4.06	0.75	2	1.50		
		0.19	102	18.87		
			104	20.37		
0.542	0.62	0.12	2	0.24		
		0.20	102	20.13		
			104	20.37		
0.088	2.49	0.47	2	0.95		
		0.19	102	19.43		
			104	20.37		
0.235	-1.19		103			
	-1.20					

($\alpha \leq 0.05$)

*

LSD : -44.4

:

				(I-J)	(J)	(I)
0.82	0.15	0.005	0.17	0.48		
0.83	0.05	0.028	0.20	0.44		
-0.15	-0.82	0.005	0.17	-0.48		

LSD : -44.4

:

				(I-J)	(J)	(I)
0.20	-0.28	0.717	0.12	-0.04		
-0.05	-0.83	0.028	0.20	-0.44		
0.28	-0.20	0.717	0.12	0.04		

($\alpha \leq 0.05$)

*

($\alpha \leq 0.05$)

•

:

0.05

45.4

($\alpha \leq 0.05$)

:

0.05

0.05)

($\alpha \leq$

($\alpha \leq 0.05$)

(46.4)

:45.4

0.392	1.01	0.30	3	0.89		
		0.29	101	29.59		
			104	30.48		
0.764	0.27	0.08	2	0.16		
		0.30	102	30.32		
			104	30.48		
0.071	2.72	0.77	2	1.54		
		0.28	102	28.93		
			104	30.48		
0.058	2.93	0.83	2	1.65		
		0.28	102	28.82		
			104	30.48		
0.027	3.74	1.04	2	2.08		
		0.28	102	28.39		
			104	30.48		
0.734	0.34		103			
	0.34					

($\alpha \leq 0.05$)

*

LSD : -46.4

:

				(I-J)	(J)	(I)
0.62	0.03	0.029	0.15	0.33		
0.96	0.13	0.010	0.21	0.55		
-0.03	-0.62	0.029	0.15	-0.33		

LSD : -46.4

:

				(I-J)	(J)	(I)
0.55	-0.12	0.203	0.17	0.22		
-0.13	-0.96	*0.010	0.21	-0.55		
0.12	-0.55	0.203	0.17	-0.22		

($\alpha \leq 0.05$)

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($\alpha \leq 0.05$)

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0.05

47.4

($\alpha \leq 0.05$)

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: -47.4

0.362	1.08	0.32	3	0.95		
		0.29	101	29.75		
			104	30.71		

: -47.4

0.148	1.95	0.56	2	1.13		
		0.29	102	29.58		
			104	30.71		
0.093	2.43	0.70	2	1.40		
		0.29	102	29.31		
			104	30.71		
0.241	1.44	0.42	2	0.85		
		0.29	102	29.86		
			104	30.71		
0.194	1.66	0.49	2	0.97		
		0.29	102	29.74		
			104	30.71		
0.166	-1.39		103			
	-1.37					

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0.359	1.08	0.35	3	1.06		
		0.32	101	32.82		
			104	33.88		
0.012	4.60	1.40	2	2.80		
		0.30	102	31.07		
			104	33.88		
0.041	3.29	1.03	2	2.05		
		0.31	102	31.83		
			104	33.88		
0.284	1.27	0.41	2	0.82		
		0.32	102	33.05		
			104	33.88		
0.111	2.25	0.71	2	1.43		
		0.32	102	32.45		
			104	33.88		
0.862	0.17		103			
	0.17					

($\alpha \leq 0.05$)

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LSD :49.4

				(I-J)	(J)	(I)
-0.09	-0.54	0.007	0.11	-0.32	5-10	5
1.18	-0.39	0.316	0.40	0.40	10	
0.54	0.09	0.007	0.11	0.32	5	5-10
1.51	-0.08	0.078	0.40	0.71	10	
0.39	-1.18	0.316	0.40	-0.40	5	10
0.08	-1.51	0.078	0.40	-0.71	5-10	
-0.12	-1.00	0.012	0.22	-0.56		
0.04	-0.97	0.070	0.26	-0.47		
1.00	0.12	0.012	0.22	0.56		
0.40	-0.22	0.558	0.16	0.09		
0.97	-0.04	0.070	0.26	0.47		
0.22	-0.40	0.558	0.16	-0.09		

($\alpha \leq 0.05$)

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($\alpha \leq 0.05$)

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($\alpha \leq 0.05$)

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$(\alpha \leq 0.05)$

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(51.4)

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0.000	5.88	4.01	4	16.04		
		0.68	1059	722.28		
			1063	738.32		
0.049	3.02	2.09	2	4.18		
		0.69	1061	734.13		
			1063	738.32		
0.363	1.01	0.70	2	1.41		
		0.69	1061	736.91		
			1063	738.32		
0.850	0.16	0.11	2	0.23		
		0.70	1061	738.09		
			1063	738.32		
0.015	-2.44		1062			
	-2.40					

$(\alpha \leq 0.05)$

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LSD :51.4

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				(I-J)	(J)	(I)
0.24	0.00	0.055	0.06	0.12	20- 29	20
0.28	-0.02	0.098	0.08	0.13	30- 39	
-0.10	-0.44	0.002	0.09	-0.27	40-49	
0.42	-0.24	0.583	0.17	0.09	50	
0.00	-0.24	0.055	0.06	-0.12	20	20- 29
0.16	-0.14	0.861	0.08	0.01	30- 39	
-0.22	-0.55	0.000	0.08	-0.38	40-49	
0.30	-0.35	0.883	0.17	-0.02	50	
0.02	-0.28	0.098	0.08	-0.13	20	30- 39
0.14	-0.16	0.861	0.08	-0.01	20- 29	
-0.20	-0.59	0.000	0.10	-0.40	40-49	
0.30	-0.38	0.828	0.17	-0.04	50	
0.44	0.10	0.002	0.09	0.27	20	40-49
0.55	0.22	0.000	0.08	0.38	20- 29	
0.59	0.20	0.000	0.10	0.40	30- 39	
0.71	0.01	0.044	0.18	0.36	50	
0.24	-0.42	0.583	0.17	-0.09	20	50
0.35	-0.30	0.883	0.17	0.02	20- 29	
0.38	-0.30	0.828	0.17	0.04	30- 39	
-0.01	-0.71	0.044	0.18	-0.36	40-49	

($\alpha \leq 0.05$)

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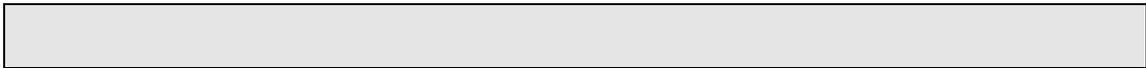
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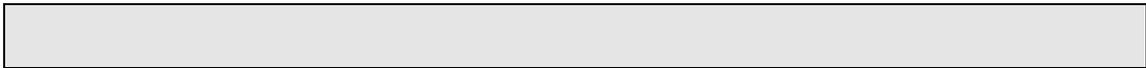
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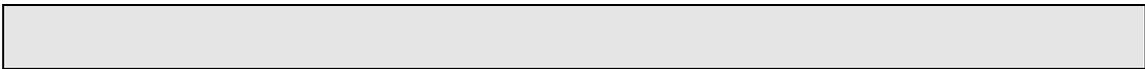
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47	4.3
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