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(0.05= α)

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(68)

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(101)

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(Coulon, 1991)

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(2000)

(31)

(Sandholtz and Shannon, 2000)

(12-6)

(Sandholtz

and Shannon)

(Hockly, 2000)

(2002)

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(McCaughtry, 2004)

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(2004)

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(24)

(80)

(Morgan and Kingston & Sproule, 2005)

(92)

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.(1996 1991) -

Coulon, 1991) -

.(2004 -

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.(Sandholtz and Shannon, 2000) -

.(Hockly K. 2000, Sandholtz and Shannon, 2000) -

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0.77	4 47		13	1
0.67	4 36		10	2
0.48	4 34		1	3
0.53	4 32		6	4
0.57	4 19		9	5
0.69	4 08		3	6
0.66	4 04		12	7
0.88	3 96		2	8
0.56	3 90		8	9
0.90	3 79		5	10
0.98	3 77		15	11
0.87	3 67		16	12
0.79	3 66		4	13
0.87	3 54		14	14
0.101	3 52		11	15
1.05	3 08		7	16

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(4.47_3.52)

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(Coulon, 1991)

(2004)

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1.05	3.93	.	2	2
0.65	3.79	.	1	3
1.13	3.62	.	8	4
1.15	3.61	.	10	5
1.10	3.53	.	11	6
1.00	3.43	.	3	7
1.10	3.36	.	6	8
1.16	3.24	.	7	9
1.19	3.00	.	12	10
1.20	2.93	.	4	11
1.33	2.90	.	5	12
1.26	2.81	.	9	13

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(9 5 4 12 7 6 3)

(3.43 - 2.81)

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0.77	4 22		2	1
0.70	4 14		15	2

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0.70	4 10		13	3
0.75	4 09		14	4
0.97	3 99		4	5
1.07	3 97		9	6
0.92	3 94		8	7
0.74	3 93		3	8
1.08	3 66		10	9
1.01	3 57		11	10
1.14	3 30		1	11
1.06	3 28		5	12
1.16	3 17		7	13
1.01	3 11		6	14
1.15	2 37		12	15

13 15 2)

(4)

(4 22 -3 57)

(11 10 3 8 9 4 14

(12 6 7 5 1)

(3 30 -2 37)

(Sandholtz and Shannon, 2000)

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(5)

17 87	165 27	38		
22 77	164 21	32		
20 46	164 88	30		
20 00	164 74	40		
7 52	155 34	3	() 84	
20 87	156 59	26	() 83 9 - 76	
17 37	168 88	41	() 75 9 - 68	
		70		

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(5)

(165 27 - 164 21)

(75 9-68)

84

(168 88)

(155 34)

(156.59)

(83 9 - 76)

(6)

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0.128	2.26	724.604	1	724.602	
0.76	0.08	27.685	1	27.685	
*0.01	4.33	1386.075	2	2772.150	
0.12	2.32	743.677	1	743.677	×
*0.02	5.44	1676.9925	2	3353.985	×
0.6	0.12	39.7355	2	79.479	×
0.18	0.84	270.6235	2	541.247	× ×
		319.949	58	18557.052	
			69	26799.877	

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(6)

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(Hinkle & Wiersm & Jurs . 1988, 368) (Tukey / Kramer)

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(7)

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* 13 54	1 25	--	() 84 155 34 =
* 12 29	---		() 83 9- 76 156 59 =
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* P< 0.05

$$(0 \ 05 \geq \alpha) \qquad (7)$$

$$(\ 75 \ 9 \ -68)$$

$$(168 \ 88)$$

$$(\ 83 \ 9 \ - \ 76 \qquad 84)$$

$$(156 \ 59 \ 155 \ 34)$$

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$$(75.9 - 68)$$
$$(84) (83.9 - 76)$$

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	.406-397 (2)23	
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.171-139 (18)9		
(1985)		.3
.101-77 (4)4		
	(2006)	.4
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(2004)		.5
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.150-142	-	
	(2002)	.6
.137-113 (5)17		
(1994)		.7
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" "	(1987) .	.8
.121-108 (5)5		

	(1999)	.9
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	.163-142 (1)26	
(1990)		.10
	.114-81 (8)8	
	(1991)	.11
	(1992)	.12
	.62-5 (33) 2	
	(2002)	.13
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%83.9- %76 ↑

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