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(Poulin, 1992, pp. 11-12)

(Landwer,2002)

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.(Unesco, 1976, p.4)

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%22.8

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(%14.4) (%15.4)
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778	67	120	112	302	177	
100.0	8.6	15.4	14.4	38.8	22.8	%

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510023.	48149.9	64965.6	85818.6	180004.	131084.	
778	67	120	112	302	177	
4752	409	732	684	1844	1083	
107.3	118	89	125.5	97.6	121.0	

. / (107.3)
 (121.0) / (125.5) :
 / (118) /
 . / (97.6) / (89)
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(/)			
%			
93.77	18441	14347822	
5.5	1083	842800	
0.720	141	110080	
100.0	19666	15300702	

(18442) : *
 (%93.8)
 (%5.5) (1083.2) : *
 (%0.7) (141.4) : *
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 (4) : -1
 (%37.4) (%17.1)

(%31.5)

.(%12.1) ()

(4)

1.9	1.9	1.9	15	
19.0	17.1	17.1	133	
56.4	37.4	37.4	291	
87.9	31.5	31.5	245	
100.0	12.1	12.1	94	() +
	100.0	100.0	778	

: -2

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%8.1

(%65)

%22

(5)

5.1	5.1	5.1	40	
13.2	8.1	8.1	63	
35.1	21.9	21.9	170	
100.0	64.9	64.9	505	
	100.0	100.0	778	

: -2/2

.(2) .(3)
 (6) .(1)
 %12

(%17.5) :
 (%53.6) .(%17)

(6)

12.0	12.0	12.0	93	
29.4	17.5	17.5	136	
46.4	17.0	17.0	132	
100.0	53.6	53.6	417	
	100.0	100.0	778	

: -3/2
 %15.7 %71.6
 %14

(7)

2.1	2.1	2.1	16	
12.7	10.7	10.7	83	
28.4	15.7	15.7	122	
100.0	71.6	71.6	557	
	100.0	100.0	778	

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-4/2

%19.4

%34.2

%28.8

% 17.6

(8)

17.6	17.6	17.6	137	
51.8	34.2	34.2	266	
80.6	28.8	28.8	224	
100.0	19.4	19.4	151	
	100.0	100.0	778	

(9)

	.84862	2.4653	1918.00	3.00	.00	778	1
	1.53063	2.6440	2057.00	4.00	.00	778	2
	.76346	2.5681	1998.00	3.00	.00	778	3
	.99581	1.500 0	1167.00	3.00	.00	778	4

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()

%35.6

%31.2

%32.9

()

(10)

0.3	0.3	0.3	2	
31.5	31.2	31.2	243	
64.4	32.9	32.9	256	
100.0	35.6	35.6	277	
	100.0	100.0	778	

(2.758)
 (0.05 > 0.027) (0.05)

ANOVA (11)

.027	2.758	496800803	4	1987203213	
		180098825	773	139216391935	
			777	141203595149	

LSD

.(12) .

() LSD (12)

		(I-J)	(J)	(I)
.865	3655.231	621.739		
.844	3553.236	699.608		
.319	3569.550	3559.874		
.228	3731.291	4499.280		
.865	3655.231	-621.739		
.956	1404.643	77.869		
.042	1445.415	2938.135(*)		

.032	1808.334	3877.541(*)		
.844	3553.236	-699.608)
.956	1404.643	-77.869		
.014	1163.612	2860.266(*)		
.017	1592.118	3799.672(*)		
.319	3569.550	-3559.874)
.042	1445.415	-2938.135(*)		
.014	1163.612	-2860.266(*)		
.564	1628.202	939.406		
.228	3731.291	-4499.280)
.032	1808.334	-3877.541(*)		
.017	1592.118	-3799.672(*)		
.564	1628.202	-939.406		

* The mean difference is significant at the .05 level.

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ANOVA (13)

.013	3.623	651801080	3	1955403242	
		179907224	774	139248191906	
			777	141203595149	

(3.623)

(0.05 ≥ 0.013)

.(14) .LSD

() LSD (14)

		(I-J)	(J)	(I)
.654	9517.37710	-4264.91289	1.00	0
.700	9537.52206	-3675.15449	2.00	
.929	9514.83537	-844.45338	3.00	
.654	9517.37710	4264.91289	.00	1.00
.645	1279.67542	589.75840	2.00	
.002	1097.87716	3420.45952(*)	3.00	
.700	9537.52206	3675.15449	.00	2.00
.645	1279.67542	-589.75840	1.00	
.025	1260.63261	2830.70112(*)	3.00	
.929	9514.83537	844.45338	.00	3.00
.002	1097.87716	-3420.45952(*)	1.00	
.025	1260.63261	-2830.70112(*)	2.00	

* The mean difference is significant at the .05 level.

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(3)

(2 1)

.(3)

(2 1)

(0)

()

(19666)
 (%5.5) (%93.8) : /
 / (%0.7)
 / (107.3)
 (97.6) (89)
 (118) (121.0) (125.5)
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 (/ 107.3)
 (/ 200) /³ (39.16)
 (73)
 .(2008) (44)
 (118) () ." " 211
 (58) (94) (113)
 .() .(10)
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 - (2007) .(2007). -
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