

- 4

1 - 4

2 - 4

- 4

.  
:

.( ) ⇐ ( 1 )

.( ) ⇐ ( 2 )

.( ) ⇐ ( 3 )

. ⇐ ( )

. ⇐ ( )

.(*t-Test*) ( ) ⇐ ( T ).(*F-Test*) ( ) ⇐ ( F )

. ⇐ ( B )

. ⇐ ( W )

. ⇐ (*L.S.D*)

:

1 - 4

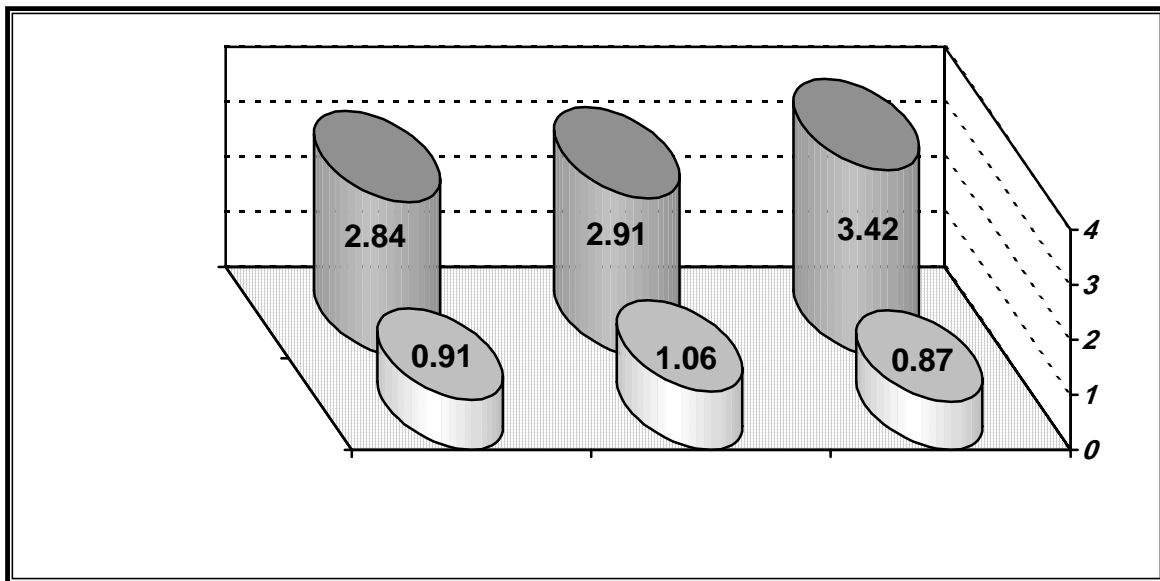
(3)

	(T)						
	4.86	0.25	2.84	0.34	0.91	15	( 1 )
	4.07	0.27	2.91	0.37	1.06	15	( 2 )
	5.13	0.18	3.42	0.29	0.87	15	( 3 )

.(2.145) = (14)

(0.05)

(T) \*



(10)

			(3)
(0.34)	(0.91)	( )	
(0.25)	(2.84)		
		(4.86)	( )
	(0.05)	(14)	(2.145)
		.	
	( )	( )	
	(0.37)	(1.06)	
	( )	(0.27)	(2.91)
(14)	(2.145)		(4.07)
		(0.05)	
		.	
	( )	( )	
	(0.29)	(0.87)	
	( )	(0.18)	(3.42)
(14)	(2.145)		(5.13)
		(0.05)	
		(10)	.

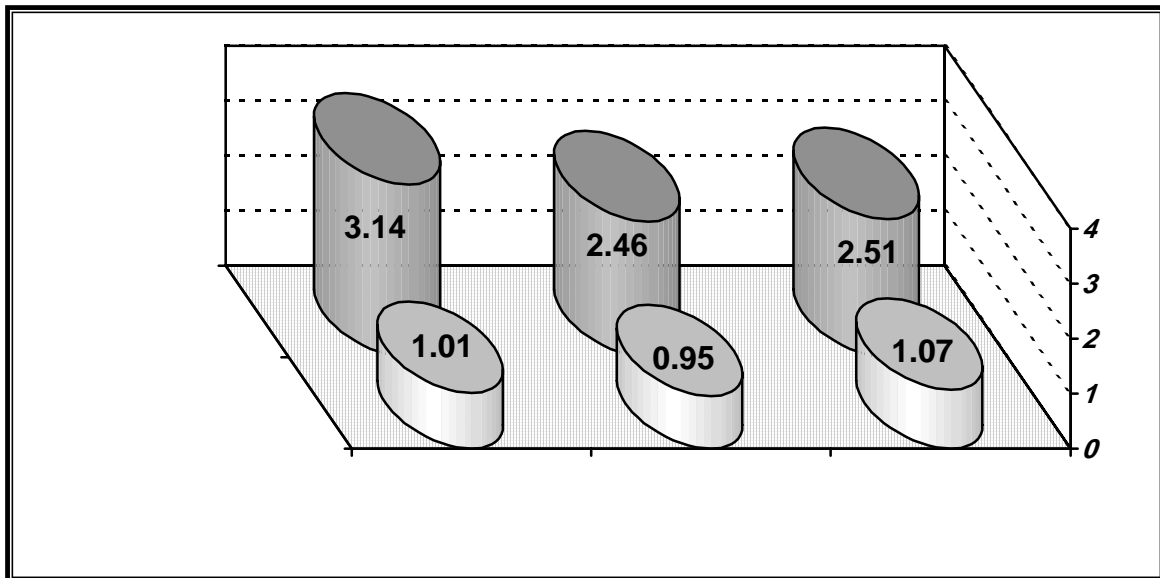
( 4 )

	(T)						
	6.27	0.51	3.14	0.41	1.01	15	( 1 )
	5.38	0.46	2.46	0.39	0.95	15	( 2 )
	5.53	0.39	2.51	0.43	1.07	15	( 3 )

.(2.145) = (14)

(0.05)

(T) \*



( 11 )

(4)

	(1.01)		( )	
	(3.14)			(0.41)
		(6.27)	( )	(0.51)
(0.05)		(14)		(2.145)
			( )	
		(0.39)	(0.95)	
	( )	(0.46)	(2.46)	
(14)	(2.145)			(5.38)
			(0.05)	
			( )	
		(0.43)	(1.07)	
	( )	(0.39)	(2.51)	
(14)	(2.145)			(5.53)
			(0.05)	
			(11)	

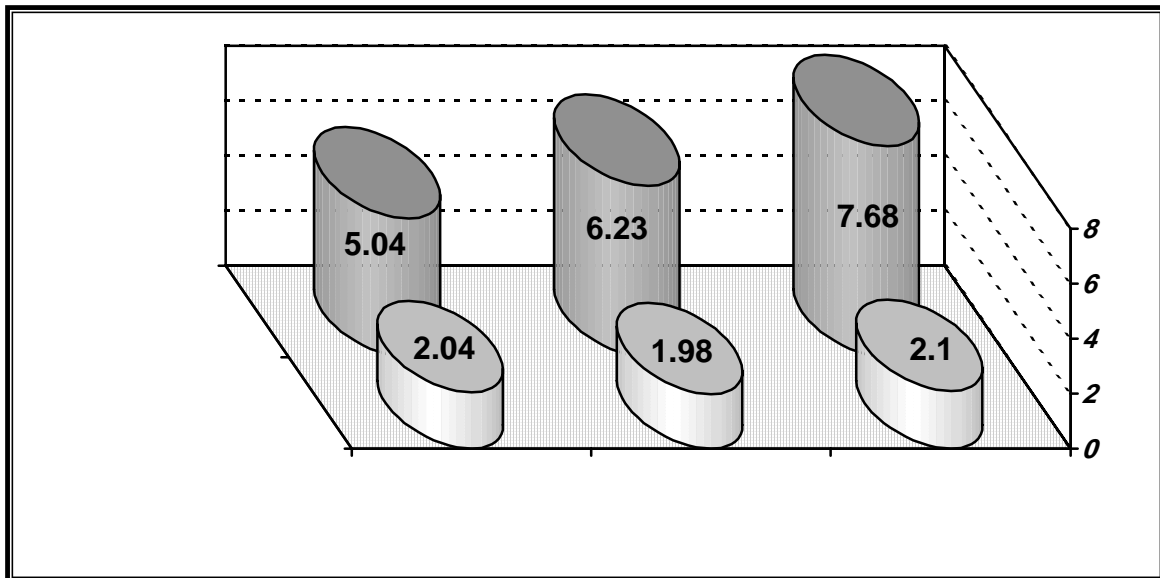
(5)

	(T)						
	11.06	0.53	5.04	0.60	2.04	15	( 1 )
	13.21	0.61	6.23	0.54	1.98	15	( 2 )
	16.43	0.42	7.68	0.84	2.10	15	( 3 )

.(2.145) = (14)

(0.05)

(T) \*



(12)

(5)

	(2.04)	( )		
	(5.04)			(0.60)
		(11.06)	( )	(0.53)
(0.05)		(14)		(2.145)
		( )		
		(0.54)		(1.98)
	(13.21)	( )		(0.61) (6.23)
(0.05)		(14)		(2.145)
		( )		
		(0.84)		(2.10)
	( )	(0.42)		(7.68)
(14)		(2.145)		(16.43)
				(0.05)
				(12)
	(23.65)			(6)
(24.135)	( )	(12.132)		
	(42 2)		(2.84)	( )
				(0.05)

(6)

( )

	<b>(F)</b>				
	*24.135	12.125	2	23.65	<b>(B)</b>
		0.437	42	12.132	<b>(W)</b>
			44	35.782	

.(0.05) (2.84) = (F) \*

(0.436) (L.S.D)

(7)

(L.S.D)

(7)

(L.S.D)

	<b>(L.S.D)</b>			
	0.436	0.07 -	2.91 - 2.84	<b>2 - 1</b>
		*0.58 -	3.42 - 2.84	<b>3 - 1</b>
		*0.51 -	3.42 - 2.91	<b>3 - 2</b>

(8.84) (8) (20.681)  
 (2.84) ( ) (27.95) ( )  
 (0.05) (42 2)

(8)

( )

	(F)				
	*27.950	10.472	2	20.681	(B)
		0.294	42	8.84	(W)
			44	29.521	

.(0.05) (2.84) = (F) \*

(0.540) (L.S.D)

(9)

(L.S.D)

(9)

(L.S.D)

	(L.S.D)			
	0.540	*0.68	2.46 - 3.14	2 - 1
		*0.63	2.51 - 3.14	3 - 1
		0.05 -	2.51 - 2.46	3 - 2

(10)

(47.42)

(23.088) ( ) (34.39)  
 (0.05) (42 2) (2.84) ( )

(10)

( )

	(F)				
	*23.088	15.12	2	47.42	(B)
		0.60	42	34.39	(W)
			44	81.81	

.(0.05) (2.84) = (F) \*

(1.546) (L.S.D)

(11)

(L.S.D)

(11)

(L.S.D)

	(L.S.D)			
	1.546	1.19 -	6.23 - 5.04	<b>2 - 1</b>
		*2.64 -	7.68 - 5.04	<b>3 - 1</b>
		*1.44 -	7.68 - 6.24	<b>3 - 2</b>

:

**2 - 4**

(3)

*(t-Test)*

(12) (11) (10)

(5) (4)

(1998 ).

(9) (7)  
(L.S.D)

(11)

(7)

*(Singer,1980)*

( )

(9)

(11)