

APPENDIX VIII

Table 1: Physiological cost in terms of heart rate (beats/min/m²) during activity of Digging of land by women farmers with traditional and modified technologies.

Treatment	Subject	WHR ₁	WHR ₂	WHR ₃
	S ₁	146.46	149.53	145.45
	S ₂	145.45	146.34	143.18
T ₁	S ₃	130.136	140.0	139.53
	S ₄	139.53	125.0	136.36
	S ₅	137.77	147.29	135.71
	S ₆	133.33	136.36	139.01
	Mean	138.77	140.36	139.87
	Total Mean			139.85
	S ₁	123.80	115.0	126.0
	S ₂	123.47	120.0	126.0
T ₂	S ₃	120.45	126.66	126.0
	S ₄	127.85	127.5	122.5
	S ₅	129.78	127.23	127.08
	S ₆	130.95	125.0	133.66
	Mean	126.05	123.56	126.97
	Total Mean			125.52

$$WHR = \frac{\Delta HR \times Duration of Activity}{Area}$$

T₁ - Traditional Technologies

T₂ – Modified Technologies.

Table 2: Physiological cost in terms of heart rate (beats/min/m²) during activity of Leveling of land by women farmers with traditional and modified technologies.

Treatment	Subject	$\frac{\Delta HR_1 \times 15}{area}$	$\frac{\Delta HR_2 \times 15}{area}$	$\frac{\Delta HR_3 \times 15}{area}$
	S ₁	123.80	120.0	126.6
	S ₂	122.5	127.5	123.80
T ₁	S ₃	122.0	126.6	127.6
	S ₄	123.80	122.5	122.0
	S ₅	123.80	120.0	123.80
	S ₆	122.5	126.6	124.3
	Mean	123.06	123.76	124.68 123.83
	S ₁	118.0	119.0	114.0
	S ₂	115.0	117.0	116.0
T ₂	S ₃	119.0	118.0	118.0
	S ₄	114.0	115.0	116.0
	S ₅	117.0	116.0	117.0
	S ₆	120.0	121.0	119.0
	Mean	117.16	117.66	116.66
	Total Mean			117.16

$$WHR = \frac{\Delta HR \times Duration of Activity}{Area}$$

T₁ - Traditional Technologies

T₂ – Modified Technologies.

Table 3: Physiological cost in terms of heart rate (beats/min/m²) during activity of Application of manure by women farmers with traditional and modified technologies.

Treatment	Subject	$\frac{\Delta HR_1 \times 15}{area}$	$\frac{\Delta HR_2 \times 15}{area}$	$\frac{\Delta HR_3 \times 15}{area}$
	S ₁	129.62	127.27	126.40
	S ₂	133.3	128.12	127.27
T ₁	S ₃	130.0	125.0	135.83
	S ₄	125.27	133.3	129.62
	S ₅	126.40	127.27	133.3
	S ₆	128.12	125.27	129.62
	Mean	128.78	127.70	129.73 128.73
	S ₁	120.45	120.0	117.39
	S ₂	118.45	119.37	120.45
T ₂	S ₃	116.72	120.0	121.0
	S ₄	119.37	120.45	118.45
	S ₅	120.0	119.37	118.37
	S ₆	117.39	120.45	116.75
	Mean	118.73	119.94	118.735
	Total Mean			119.135

$$WHR = \frac{\Delta HR \times Duration of Activity}{Area}$$

T₁ - Traditional Technologies

T₂ – Modified Technologies.

Table 4: Physiological cost in terms of heart rate (beats/min/m²) during activity of sowing by women farmers with traditional and modified technologies.

Treatment	Subject	$\frac{\Delta HR_1 \times 15}{area}$	$\frac{\Delta HR_2 \times 15}{area}$	$\frac{\Delta HR_3 \times 15}{area}$
	S ₁	133.3	133.80	128.57
	S ₂	138.46	146.61	143.93
T ₁	S ₃	134.48	127.73	136.66
	S ₄	132.0	128.67	126.92
	S ₅	115.62	118.90	114.28
	S ₆	128.175	133.33	126.00
	Mean	130.33	131.50	128.23
	Total Mean			130.02
	S ₁	111.36	122.5	124.41
	S ₂	123.68	118.13	121.76
T ₂	S ₃	114.46	115.60	124.37
	S ₄	120.0	125.0	118.48
	S ₅	116.00	120.51	114.97
	S ₆	120.51	109.09	116.66
	Mean	117.66	118.47	120.10
	Total Mean			118.74

$$WHR = \frac{\Delta HR \times Duration of Activity}{Area}$$

T₁ - Traditional Technologies
T₂ – Modified Technologies.

Table 5: Physiological cost in terms of heart rate (beats/min/m²) during activity of Interculture by women farmers with traditional and modified technologies.

Treatment	Subject	$\frac{\Delta HR_1 \times 15}{area}$	$\frac{\Delta HR_2 \times 15}{area}$	$\frac{\Delta HR_3 \times 15}{area}$
	S ₁	136.36	137.77	135.71
	S ₂	130.13	125.0	126.66
T ₁	S ₃	126.66	123.47	122.5
	S ₄	123.80	126.66	126.66
	S ₅	130.95	133.66	133.66
	S ₆	133.66	126.66	129.78
	Mean	130.26	128.87	129.16
	Total Mean			129.43
	S ₁	123.80	120.0	126.0
	S ₂	120.45	125.0	120.45
T ₂	S ₃	130.95	124.5	127.85
	S ₄	126.6	127.08	120.45
	S ₅	123.80	123.80	125.0
	S ₆	125.0	120.45	123.80
	Mean	125.1	123.47	123.92
	Total Mean			129.16

$$WHR = \frac{\Delta HR \times Duration of Activity}{Area}$$

T₁ - Traditional Technologies

T₂ – Modified Technologies.

Table 6: Physiological cost in terms of heart rate (beats/min/m²) during activity of Hoeing by women farmers with traditional and modified technologies.

Treatment	Subject	$\frac{\Delta HR_1 \times 15}{area}$	$\frac{\Delta HR_2 \times 15}{area}$	$\frac{\Delta HR_3 \times 15}{area}$
	S ₁	135.0	130.13	126.66
	S ₂	135.71	123.47	122.5
T ₁	S ₃	122.5	135.71	126.66
	S ₄	126.6	123.47	130.0
	S ₅	130.95	137.77	135.71
	S ₆	136.36	135.71	137.77
	Mean	131.18	131.04	129.88
	Total Mean			130.70
	S ₁	120.0	121.37	124.5
	S ₂	120.45	120.0	120.45
T ₂	S ₃	123.80	125.0	123.80
	S ₄	126.6	124.5	120.45
	S ₅	121.37	124.5	121.37
	S ₆	123.80	120.0	123.80
	Mean	122.67	122.56	122.39
	Total Mean			122.54

$$WHR = \frac{\Delta HR \times Duration of Activity}{Area}$$

T₁ - Traditional Technologies

T₂ – Modified Technologies.

Table 7: Physiological cost in terms of heart rate (beats/min/m²) during activity of Weeding by women farmers with traditional and modified technologies.

Treatment	Subject	$\frac{\Delta HR_1 \times 15}{area}$	$\frac{\Delta HR_2 \times 15}{area}$	$\frac{\Delta HR_3 \times 15}{area}$
	S ₁	132.80	136.36	137.77
	S ₂	130.13	126.66	136.66
T ₁	S ₃	133.66	126.66	125.0
	S ₄	135.71	137.77	136.36
	S ₅	130.95	129.78	129.78
	S ₆	130.13	126.66	132.80
	Mean	132.23	130.64	131.395
	Total Mean			131.42
	S ₁	111.36	122.5	124.41
	S ₂	115.60	124.37	120.51
T ₂	S ₃	123.68	122.5	126.00
	S ₄	118.13	121.76	123.68
	S ₅	122.5	123.68	124.41
	S ₆	120.51	120.0	118.13
	Mean	118.63	122.46	122.85
	Total Mean			121.31

$$WHR = \frac{\Delta HR \times Duration of Activity}{Area}$$

T₁ - Traditional Technologies

T₂ – Modified Technologies.

Table 8: Physiological cost in terms of heart rate (beats/min/m²) during activity of Harvesting by women farmers with traditional and modified technologies.

Treatment	Subject	$\frac{\Delta HR_1 \times 15}{area}$	$\frac{\Delta HR_2 \times 15}{area}$	$\frac{\Delta HR_3 \times 15}{area}$
	S ₁	123.68	122.5	124.91
	S ₂	124.37	124.41	120.0
T ₁	S ₃	120.51	116.00	118.48
	S ₄	122.5	124.37	123.68
	S ₅	122.5	118.48	120.51
	S ₆	123.68	120.0	120.51
	Mean	122.87	120.96	121.26
	Total Mean			121.69
	S ₁	116.00	115.60	117.66
	S ₂	116.66	118.48	111.36
T ₂	S ₃	118.13	120.0	115.60
	S ₄	117.66	116.66	120.0
	S ₅	120.51	120.51	118.13
	S ₆	118.48	116.00	116.66
	Mean	118.48	116.00	116.66
	Total Mean			

$$WHR = \frac{\Delta HR \times Duration of Activity}{Area}$$

T₁ - Traditional Technologies
T₂ – Modified Technologies.

Table 9: Physiological cost in terms of heart rate (beats/min/m²) during activity of Threshing by women farmers with traditional and modified technologies.

Treatment	Subject	$\frac{\Delta HR_1 \times 15}{area}$	$\frac{\Delta HR_2 \times 15}{area}$	$\frac{\Delta HR_3 \times 15}{area}$
	S ₁	112.0	110.0	111.0
	S ₂	109.0	112.0	113.0
T ₁	S ₃	114.0	115.0	114.0
	S ₄	113.0	115.0	112.0
	S ₅	108.0	109.0	110.0
	S ₆	110.0	112.0	109.0
	Mean	111.0	112.61	111.5
	Total Mean			111.70
	S ₁	105.0	104.0	105.0
	S ₂	99.0	100.0	103.0
T ₂	S ₃	103.0	105.0	107.0
	S ₄	105.0	107.0	108.0
	S ₅	110.0	106.0	109.0
	S ₆	107.0	104.0	105.0
	Mean	104.83	104.33	106.16
	Total Mean			105.10

$$WHR = \frac{\Delta HR \times Duration of Activity}{Area}$$

T₁ - Traditional Technologies
T₂ – Modified Technologies.

Table 10: Physiological cost in terms of heart rate (beats/min/m²) during activity of Winnowing by women farmers with traditional and modified technologies.

Treatment	Subject	$\frac{\Delta HR_1 \times 15}{area}$	$\frac{\Delta HR_2 \times 15}{area}$	$\frac{\Delta HR_3 \times 15}{area}$
	S ₁	110.0	111.0	110.0
	S ₂	106.0	109.0	110.0
T ₁	S ₃	111.0	112.0	108.0
	S ₄	108.0	109.0	107.0
	S ₅	110.0	112.0	110.0
	S ₆	105.0	106.0	107.0
	Mean	108.33	109.83	108.66
	Total Mean			108.94
	S ₁	105.0	104.0	104.0
	S ₂	103.0	102.0	105.0
T ₂	S ₃	104.0	106.0	107.0
	S ₄	105.0	105.0	106.0
	S ₅	107.0	106.0	105.0
	S ₆	106.0	107.0	107.0
	Mean	105.0	105.0	105.66
	Total Mean			105.22

$$WHR = \frac{\Delta HR \times Duration of Activity}{Area}$$

T₁ - Traditional Technologies
T₂ – Modified Technologies.