

APPENDIX VII

Table 1: Heart rate (beats/min) during Digging of Land by Women Farmers with traditional and modified Technology

Techno-logy	Subjects	BHR ₁	WHR ₁	Δ HR ₁	BHR ₂	WHR ₂	Δ HR ₂	BHR ₃	WHR ₃	Δ HR ₃
T ₁	S ₁	72.0	138.0	58.0	76.0	140.0	64.00	79.0	140.0	61.0
	S ₂	75.0	139.0	64.0	77.0	137.0	60.0	78.0	141.0	63.0
	S ₃	79.0	136.0	57.0	80.0	143.0	63.0	80.0	140.0	60.0
	S ₄	76.0	136.0	60.0	80.0	135.0	55.0	80.0	140.0	60.0
	S ₅	78.0	140.0	62.0	75.0	139.0	64.0	81.0	138.0	57.0
	S ₆	81.0	137.0	56.0	74.0	138.00	64.0	77.0	139.0	62.0
	Mean	76.83	137.66	59.5	77.0	138.66	61.66	79.16	139.66	60.5
		BHR = 77.66			WHR = 138.66			Δ HR = 60.55		
T ₂	S ₁	80.0	136.0	56.0	86.0	137.0	51.00	78.0	136.0	58.0
	S ₂	79.0	134.0	55.0	75.0	135	60.0	78.0	135.0	57.0
	S ₃	78.0	133.0	55.0	77.0	134.0	57.0	77.0	135.0	58.0
	S ₄	80.0	136.0	56.0	81.0	132.0	51.0	81.0	130.0	49.0
	S ₅	74.0	135.0	61.0	77.0	134.0	57.0	76.0	137.0	61.0
	S ₆	79.0	134.0	55.0	76.0	136.0	60.0	80.0	134.0	54.0
	Mean	79.33	134.66	55.33	78.66	134.66	56.0	78.33	134.5	56.16
		BHR = 78.77			WHR = 134.66			Δ HR = 55.89		

BHR = Heart Rate (beats/min) before activity.

WHR = Working heart rate (beats/min).

Δ HR = WHR – BHR.

T₁ = Traditional Technologies.

T₂ = Modified Technologies.

R₁ = Replication One

R₂ = Replication Two

R₃ = Replication Three

Table 2: Heart rate (beats/min) during leveling of land by women farmers with traditional and modified technology

Treat- ment	Subjects	BHR ₁	WHR ₁	Δ HR ₁	BHR ₂	WHR ₂	Δ HR ₂	BHR ₃	WHR ₃	Δ HR ₃
T ₁	S ₁	82.0	129.0	47.0	79.0	121.0	42.0	78.0	135.0	57.0
	S ₂	75.0	130.0	55.0	84.0	135.0	51.0	81.0	133.0	52.0
	S ₃	76.0	125.0	49.0	79.0	122.0	43.0	77.0	122.0	45.0
	S ₄	80.0	130.0	50.0	79.0	127.0	48.0	77.0	125.0	48.0
	S ₅	76.0	128.0	52.0	75.0	122.0	47.0	79.0	129.0	50.0
	S ₆	80.0	130.0	50.0	81.0	127.0	46.0	88.0	127.0	44.0
		78.16	128.66	50.5	79.5	125.66	46.16	79.16	128.50	49.33
		BHR = 78.94			WHR = 127.62			Δ HR = 48.66		
T ₂	S ₁	81.0	122.0	41.0	82.0	122.0	40.0	82.0	121.0	39.0
	S ₂	79.0	125.0	46.0	82.0	128.0	46.0	84.0	126.0	42.0
	S ₃	80.0	128.0	48.0	79.0	126.0	47.0	80.0	126.0	46.0
	S ₄	80.0	128.0	48.0	80.0	127.0	46.0	79.0	127.0	48.0
	S ₅	81.0	122.0	41.0	80.0	123.0	43.0	82.0	129.0	47.0
	S ₆	81.0	128.0	47.0	78.0	126.0	48.0	77.0	124.0	47.0
		80.33	125.6	45.16	80.16	125.3	45.0	80.66	125.5	49.83
		BHR = 80.38			WHR = 125.46			Δ HR = 44.99		

BHR = Heart Rate (beats/min) before activity.

WHR = Working heart rate (beats/min).

Δ HR = WHR – BHR.

T₁ = Traditional Technologies.

T₂ = Modified Technologies.

R₁ = Replication One

R₂ = Replication Two

R₃ = Replication Three

Table 3: Heart rate (beats/min) during application of manure by women farmers with traditional and modified technology

Treat- ment	Subjects	BHR ₁	WHR ₁	Δ HR ₁	BHR ₂	WHR ₂	Δ HR ₂	BHR ₃	WHR ₃	Δ HR ₃
T ₁	S ₁	82.0	122.0	40.0	79.0	120.0	41.0	78.0	120.0	72.0
	S ₂	79.0	118.0	39.0	82.0	119.0	37.0	81.0	120.0	39.0
	S ₃	80.0	122.0	42.0	79.0	126.0	47.0	77.0	124.0	47.0
	S ₄	80.0	119.0	39.0	81.0	121.0	40.0	77.0	125.0	48.0
	S ₅	82.0	129.0	47.0	81.0	127.0	46.0	79.0	124.0	45.0
	S ₆	80.0	119.0	39.0	81.0	121.0	40.0	83.0	129.0	46.0
		80.5	121.5	41.0	80.5	122.33	41.83	79.16	123.66	44.5
		BHR = 80.05			WHR = 122.49			Δ HR = 42.5		
T ₂	S ₁	82.0	120.0	38.0	80.0	119.0	39.0	82.0	117.0	35.0
	S ₂	77.0	115.0	38.0	78.0	116.0	38.0	76.0	115.0	39.0
	S ₃	80.0	121.0	41.0	79.0	122.0	43.0	80.0	120.0	40.0
	S ₄	77.0	118.0	41.0	80.0	118.0	38.0	79.0	116.0	37.0
	S ₅	80.0	120.0	40.0	75.0	119.0	44.0	82.0	118.0	36.0
	S ₆	78.0	116.0	38.0	79.0	118.0	39.0	79.0	119.0	40.0
		79.0	118.33	39.33	78.5	118.66	40.16	79.66	117.5	37.83
		BHR = 79.05			WHR = 118.16			Δ HR = 39.27		

BHR = Heart Rate (beats/min) before activity.

WHR = Working heart rate (beats/min).

Δ HR = WHR – BHR.

T₁ = Traditional Technologies.

T₂ = Modified Technologies.

R₁ = Replication One

R₂ = Replication Two

R₃ = Replication Three

Table 4: Heart rate (beats/min) during sowing by women Farmers with traditional and modified technologies.

Treat-ment	Subjects	BHR ₁	WHR ₁	Δ HR ₁	BHR ₂	WHR ₂	Δ HR ₂	BHR ₃	WHR ₃	Δ HR ₃
T ₁	S ₁	78.0	118.0	40.0	79.0	117.0	38.0	80.0	116.0	36.0
	S ₂	79.0	115.0	36.0	80.0	119.0	39.0	80.0	118.0	38.0
	S ₃	81.0	120.0	39.0	87.0	122.0	35.0	82.0	123	41.0
	S ₄	86.0	119.0	33.0	80.0	115.0	35.0	84.0	117.0	33.0
	S ₅	79.0	116.0	37.0	80.0	119.0	39.0	85.0	117.0	32.0
	S ₆	76.0	117.0	41.0	86.0	118.0	32.0	82.0	115.0	33.0
		79.83	117.5	37.66	82.0	118.33	36.33	82.16	117.66	35.5
		BHR = 81.33			WHR = 117.83			Δ HR = 17.66		
T ₂	S ₁	77.0	126.0	49.0	78.0	127.0	49.0	75.0	128.0	53.0
	S ₂	75.0	122.0	47.0	76.0	119.0	43.0	79.0	126.0	47.0
	S ₃	80.0	119.0	39.0	84.0	124.0	40.0	78.0	128.0	50.0
	S ₄	81.0	123.0	42.0	80.0	125.0	45.0	79.0	127.0	48.0
	S ₅	79.0	121.0	42.0	78.0	125.0	47.0	83.0	126.0	43.0
	S ₆	81.0	128.0	47.0	82.0	130.0	48.0	80.0	129.0	49.0
		78.83	123.16	44.33	79.66	125.0	45.33	79.0	127.33	47.33
		BHR = 79.163			WHR = 125.05			Δ HR = 45.83		

BHR = Heart Rate (beats/min) before activity.

WHR = Working heart rate (beats/min).

Δ HR = WHR – BHR.

T₁ = Traditional Technologies.

T₂ = Modified Technologies.

R₁ = Replication One

R₂ = Replication Two

R₃ = Replication Three

Table 6: Heart rate (beats/min) during activity of hoeing by women farmers with traditional and modified technology.

Treat- ment	Subjects	BHR ₁	WHR ₁	Δ HR ₁	BHR ₂	WHR ₂	Δ HR ₂	BHR ₃	WHR ₃	Δ HR ₃
T ₁	S ₁	82.0	139.0	57.0	85.0	136.0	51.0	84.0	135.0	51.0
	S ₂	79.0	134.0	55.0	80.0	133.0	53.0	82.0	132.0	50.0
	S ₃	82.0	130.0	48.0	86.0	132.0	46.0	74.0	134.0	60.0
	S ₄	83.0	131.0	48.0	77.0	133.0	56.0	79.0	132.0	53.0
	S ₅	79.0	133.0	54.0	82.0	137.0	55.0	79.0	132.0	53.0
	S ₆	78.0	132.0	54.0	82.0	134.0	52.0	79.0	131.0	52.0
		80.5	133.16	52.66	82.0	134.16	52.16	79.5	132.66	53.16
		BHR = 80.66			WHR = 133.26			Δ HR = 52.66		
T ₂	S ₁	78.0	130.0	52.0	82.0	132.0	50.0	83.0	135.0	52.0
	S ₂	80.0	131.0	51.0	79.0	130.0	51.0	80.0	126.0	46.0
	S ₃	79.0	129.0	50.0	80.0	124.0	44.0	79.0	123.0	44.0
	S ₄	80.0	125.0	45.0	76.0	124.0	48.0	78.0	129.0	51.0
	S ₅	76.0	126.0	50.0	78.0	128.0	50.0	80.0	129.0	49.0
	S ₆	76.0	121.0	45.0	80.0	129.0	49.0	75.0	130.0	55.0
		78.16	127.0	48.83	79.16	127.83	48.66	79.16	128.66	49.5
		BHR = 79.16			WHR = 127.83			Δ HR = 48.99		

BHR = Heart Rate (beats/min) before activity.

WHR = Working heart rate (beats/min).

Δ HR = WHR – BHR.

T₁ = Traditional Technologies.

T₂ = Modified Technologies.

R₁ = Replication One

R₂ = Replication Two

R₃ = Replication Three

Table 7: Heart rate (beats/min) during activity of weeding by women farmers with traditional and modified technologies.

Treat-ment	Subjects	BHR ₁	WHR ₁	Δ HR ₁	BHR ₂	WHR ₂	Δ HR ₂	BHR ₃	WHR ₃	Δ HR ₃
T ₁	S ₁	81.0	125.0	44.0	77.0	127.0	50.0	80.0	124.0	44.0
	S ₂	76.0	123.0	47.0	78.0	126.0	48.0	79.0	123.0	44.0
	S ₃	80.0	124.0	44.0	81.0	123.0	42.0	82.0	121.0	39.0
	S ₄	77.0	121.0	44.0	81.0	123.0	42.0	83.0	120.0	37.0
	S ₅	79.0	119.0	40.0	77.0	124.0	47.0	75.0	121.0	46.0
	S ₆	82.0	121.0	39.0	76.0	118.0	42.0	79.0	119.0	40.0
		78.83	122.16	43.0	78.33	123.5	45.16	79.66	121.33	41.66
		BHR = 78.94			WHR = 122.33			Δ HR = 43.27		
T ₂	S ₁	82.0	124.0	42.0	84.0	122.0	38.0	84.0	124.0	40.0
	S ₂	80.0	123.0	43.0	80.0	122.0	42.0	81.0	120.0	39.0
	S ₃	82.0	124.0	42.0	86.0	120.0	34.0	79.0	120.0	41.0
	S ₄	84.0	120.0	36.0	78.0	122.0	44.0	79.0	121.0	42.0
	S ₅	76.0	119.0	43.0	79.0	123.0	44.0	84.0	119.0	35.0
	S ₆	78.0	118.0	40.0	83.0	118.0	35.0	76	118.0	42.0
		80.33	121.33	41.33	81.66	121.16	39.5	80.5	120.33	39.83
		BHR = 80.83			WHR = 120.90			Δ HR = 40.22		

BHR = Heart Rate (beats/min) before activity.

WHR = Working heart rate (beats/min).

Δ HR = WHR – BHR.

T₁ = Traditional Technologies.

T₂ = Modified Technologies.

R₁ = Replication One

R₂ = Replication Two

R₃ = Replication Three

Table 8: Heart rate (beats/min) during activity of harvesting by women farmers with traditional and modified technologies.

Treat- ment	Subjects	BHR ₁	WHR ₁	Δ HR ₁	BHR ₂	WHR ₂	Δ HR ₂	BHR ₃	WHR ₃	Δ HR ₃
T ₁	S ₁	79.0	119.0	40.0	75.0	120.0	45.0	78.0	118.0	40.0
	S ₂	76.0	121.0	45.0	76.0	116.0	40.0	79.0	118.0	39.0
	S ₃	80.0	117.0	37.0	82.0	119.0	37.0	81.0	120.0	39.0
	S ₄	77.0	120.0	43.0	82.0	119.0	37.0	82.0	118.0	36.0
	S ₅	78.0	118.0	40.0	75.0	118.0	43.0	82.0	119.0	37.0
	S ₆	80.0	120.0	40.0	75.0	121.0	46.0	79.0	121.0	42.0
	Mean	78.33	119.16	40.83	77.5	118.83	41.33	80.16	119.0	38.83
		BHR = 78.66			WHR = 118.99			Δ HR = 40.16		
T ₂	S ₁	78.0	115.0	37.0	76.0	117.0	41.0	79.0	117.0	38.0
	S ₂	76.0	116.0	40.0	76.0	115.0	39.0	78.0	116.0	38.0
	S ₃	79.0	120.0	41.0	80.0	117.0	37.0	81.0	119.0	38.0
	S ₄	76.0	116.0	40.0	78.0	118.0	40.0	82.0	116.0	34.0
	S ₅	83.0	115.0	32.0	76.0	116.0	40.0	80.0	117.0	37.0
	S ₆	80.0	118.0	38.0	76.0	117.0	41.0	77.0	119.0	42.0
	Mean	78.66	116.66	38.0	77.0	116.66	39.66	79.5	117.33	37.83
		BHR = 87.38			WHR = 116.88			Δ HR = 38.49		

BHR = Heart Rate (beats/min) before activity.

WHR = Working heart rate (beats/min).

Δ HR = WHR – BHR.

T₁ = Traditional Technologies.

T₂ = Modified Technologies.

R₁ = Replication One

R₂ = Replication Two

R₃ = Replication Three

Table 9: Heart rate (beats/min) during activity of threshing by women farmers with traditional and modified technologies.

Treat-ment	Subjects	BHR ₁	WHR ₁	Δ HR ₁	BHR ₂	WHR ₂	Δ HR ₂	BHR ₃	WHR ₃	Δ HR ₃
T ₁	S ₁	78.0	112.0	34.0	76.0	115.0	39.0	79.0	116.0	37.0
	S ₂	79.0	114.0	35.0	75.0	116.0	41.0	83.0	117.0	34.0
	S ₃	84.0	115.0	31.0	79.0	117.0	38.0	80.0	117.0	37.0
	S ₄	79.0	117.0	38.0	82.0	115.0	33.0	77.0	118.0	41.0
	S ₅	79.0	118.0	39.0	83.0	118.0	35.0	83.0	117.0	34.0
	S ₆	80.0	113.0	33.0	78.0	112.0	34.0	77.0	119.0	42.0
		79.83	114.16	35.0	78.83	115.5	36.66	79.83	117.33	37.5
		BHR = 79.49			WHR = 115.66			Δ HR = 36.38		
T ₂	S ₁	80.0	113.0	33.0	82.0	113.0	31.0	80.0	110.0	30.0
	S ₂	78.0	112.0	34.0	74.0	109.0	35.0	79.0	112.0	33.0
	S ₃	77.0	109.0	32.0	81.0	112.0	31.0	77.0	109.0	32.0
	S ₄	79.0	110.0	31.0	77.0	109.0	32.0	78.0	110.0	32.0
	S ₅	78.0	108.0	30.0	76.0	107.0	31.0	78.0	110.0	32.0
	S ₆	80.0	111.0	31.0	79.0	109.0	30.0	79.0	109.0	30.0
		78.66	110.5	31.83	78.16	109.83	31.66	78.5	110.0	31.5
		BHR = 78.44			WHR = 110.17			Δ HR = 94.82		

BHR = Heart Rate (beats/min) before activity.

WHR = Working heart rate (beats/min).

Δ HR = WHR – BHR.

T₁ = Traditional Technologies.

T₂ = Modified Technologies.

R₁ = Replication One

R₂ = Replication Two

R₃ = Replication Three

Table 10: Heart rate (beats/min) during activity of winnowing by women farmers with traditional and modified technologies.

Treat- ment	Subjects	BHR ₁	WHR ₁	Δ HR ₁	BHR ₂	WHR ₂	Δ HR ₂	BHR ₃	WHR ₃	Δ HR ₃
T ₁	S ₁	76.0	110.0	34.0	78.0	110.0	32.0	77.0	112.0	35.0
	S ₂	79.0	116.0	37.0	81.0	117.0	36.0	79.0	113.0	34.0
	S ₃	80.0	116.0	36.0	78.0	115.0	37.0	76.0	114.0	38.0
	S ₄	76.0	110.0	34.0	77.0	114.0	37.0	79.0	113.0	34.0
	S ₅	80.0	117.0	37.0	77.0	116.0	39.0	78.0	115.0	37.0
	S ₆	82.0	112.0	30.0	83.0	111.0	28.0	79.0	116.0	37.0
		78.83	113.5	34.66	79.0	113.83	34.83	78.0	113.83	35.83
		BHR = 78.83			WHR = 113.72			Δ HR = 35.10		
T ₂	S ₁	76.0	110.0	34.0	79.0	109.0	30.0	79.0	108.0	29.0
	S ₂	80.0	109.0	29.0	81.0	110.0	29.0	76.0	112.0	36.0
	S ₃	76.0	108.0	32.0	83.0	113.0	30.0	75.0	110.0	35.0
	S ₄	76.0	110.0	34.0	80.0	113.0	33.0	81.0	114.0	33.0
	S ₅	81.0	114.0	33.0	82.0	108.0	26.0	77.0	112.0	35.0
	S ₆	77.0	109.0	32.0	79.0	110.0	31.0	82.0	112.0	30.0
		77.66	110.0	32.33	80.66	110.5	29.83	78.33	111.33	33.0
		BHR = 78.84			WHR = 110.66			Δ HR = 31.72		

BHR = Heart Rate (beats/min) before activity.

WHR = Working heart rate (beats/min).

Δ HR = WHR – BHR.

T₁ = Traditional Technologies.

T₂ = Modified Technologies.

R₁ = Replication One

R₂ = Replication Two

R₃ = Replication Three