

APPENDIX XI

Table 1: Muscular stress (Grip strength) during the activity of Digging of Land by women farmers with the help of traditional and modified technologies.

Treatment	Subjects	Right Hand			Left Hand		
		M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg.)	M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg)
T ₁	S ₁	18.90	15.25	3.65	14.50	12.24	2.26
	S ₂	18.93	15.00	3.92	15.20	13.34	1.86
	S ₃	17.95	14.20	3.75	15.75	13.21	2.54
	S ₄	17.99	15.07	2.92	14.97	12.21	2.60
	S ₅	17.31	14.25	3.06	15.23	12.25	2.98
	S ₆	18.75	14.25	4.5	14.83	12.04	2.79
	Mean	18.305	14.67	3.63	15.08	12.54	2.505
T ₂	S ₁	18.95	15.50	3.45	14.75	12.50	2.25
	S ₂	18.25	15.73	3.02	15.35	12.65	2.7
	S ₃	17.95	15.10	2.85	15.75	12.75	3.0
	S ₄	18.75	14.99	3.76	14.65	11.95	2.7
	S ₅	17.39	14.25	3.14	15.25	11.50	3.75
	S ₆	18.50	15.25	2.85	14.50	11.57	2.93
	Mean	18.29	15.05	3.17	15.04	12.15	2.88

T₁ – Traditional Technology

T₂ – Modified Technology

M.S. – Muscular Stress (kg)

Table 2: Muscular stress (Grip strength) during the activity of Leveling of Land by women farmers with the help of traditional and modified technologies.

Treat- ment	Subjects	Right Hand			Left Hand		
		M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg.)	M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg)
	S ₁	17.34	15.23	2.11	14.50	13.24	1.26
	S ₂	17.50	14.50	3.0	15.25	13.50	1.75
T ₁	S ₃	16.95	14.25	2.7	16.10	13.95	2.15
	S ₄	16.75	14.30	2.45	15.95	12.85	3.10
	S ₅	15.25	13.23	2.02	15.35	13.09	2.26
	S ₆	17.50	14.27	3.23	16.30	14.00	2.3
	Mean	16.88	14.29	2.585	15.575	13.43	2.136
	S ₁	17.35	15.35	2.0	14.80	13.10	1.7
	S ₂	17.65	15.75	1.9	15.35	14.15	1.2
T ₂	S ₃	16.39	14.35	2.04	16.15	15.01	1.14
	S ₄	16.75	14.15	2.6	15.75	14.39	1.36
	S ₅	14.95	13.25	1.7	15.37	13.65	1.72
	S ₆	16.95	14.29	2.66	16.35	14.19	2.16
	Mean	16.67	14.52	2.15	15.62	14.08	1.54

T₁ – Traditional Technology

T₂ – Modified Technology

M.S. – Muscular Stress (kg)

Table 3: Muscular stress (Grip strength) during the activity of Application of manure by women farmers with the help of traditional and modified technologies.

Treat- ment	Subjects	Right Hand			Left Hand		
		M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg.)	M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg)
	S ₁	18.50	16.00	2.5	14.20	12.59	1.61
	S ₂	19.00	16.35	2.65	15.50	13.50	2.00
T ₁	S ₃	19.25	16.95	2.3	15.00	13.29	1.71
	S ₄	18.30	16.39	1.91	14.95	13.25	1.70
	S ₅	18.00	16.39	1.91	14.39	12.99	1.40
	S ₆	18.37	15.97	1.41	15.21	12.95	2.26
	Mean	18.57	16.34	2.11	14.875	13.095	1.78
	S ₁	18.75	17.50	1.25	14.25	13.25	1.00
	S ₂	19.00	17.95	1.05	14.55	13.59	0.96
T ₂	S ₃	18.30	16.57	1.73	15.25	14.20	1.05
	S ₄	18.50	16.99	1.51	14.95	13.95	1.00
	S ₅	18.32	16.65	1.67	14.39	12.75	1.64
	S ₆	18.75	16.95	1.80	15.00	13.75	1.25
	Mean	18.60	17.101	1.50	14.73	13.58	1.15

T₁ – Traditional Technology
M.S. – Muscular Stress (kg)

T₂ – Modified Technology

Table 4: Muscular stress (Grip strength) during the activity of Sowing by women farmers with the help of traditional and modified technologies.

Treat- ment	Subjects	Right Hand			Left Hand		
		M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg.)	M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg)
	S ₁	18.45	17.25	1.20	14.59	13.39	1.20
	S ₂	19.25	17.35	1.90	15.39	14.00	1.39
T ₁	S ₃	18.95	16.99	1.96	16.00	14.75	1.25
	S ₄	17.39	15.39	2.00	14.99	13.02	1.97
	S ₅	18.75	16.25	2.50	14.75	12.99	1.76
	S ₆	18.75	16.80	1.95	15.37	13.92	1.45
	Mean	18.59	16.67	1.91	15.18	13.67	1.51
	S ₁	18.49	16.99	1.50	14.50	13.00	1.50
	S ₂	19.27	17.00	2.27	15.30	13.75	1.50
T ₂	S ₃	18.93	17.25	1.68	15.95	14.25	1.70
	S ₄	17.25	16.00	1.25	14.75	13.95	0.80
	S ₅	18.37	17.20	1.17	14.25	12.75	1.50
	S ₆	18.70	17.25	1.45	15.50	14.00	1.50
	Mean	18.50	16.94	1.55	15.04	13.61	1.42

T₁ – Traditional Technology

T₂ – Modified Technology

M.S. – Muscular Stress (kg)

Table 5: Muscular stress (Grip strength) during the activity of Interculture by women farmers with the help of traditional and modified technologies.

Treat- ment	Subjects	Right Hand			Left Hand		
		M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg.)	M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg)
T ₁	S ₁	19.00	16.85	2.15	16.50	15.20	1.30
	S ₂	19.25	16.99	2.26	15.00	13.75	1.25
	S ₃	19.45	16.95	2.8	15.95	13.99	1.96
	S ₄	18.95	16.50	2.45	14.35	13.00	1.35
	S ₅	18.60	16.35	2.25	13.95	12.75	1.20
	S ₆	18.50	16.00	2.5	14.60	13.35	1.25
	Mean	19.00	16.60	2.40	15.05	13.665	1 385
T ₂	S ₁	18.75	17.95	0.80	16.66	15.25	1.41
	S ₂	19.37	18.35	1.02	15.25	13.95	1.30
	S ₃	17.25	16.25	1.00	16.00	14.25	1.75
	S ₄	18.95	17.35	1.60	14.75	13.75	1.00
	S ₅	18.25	17.00	1.25	14.00	13.50	0.50
	S ₆	18.50	16.99	1.51	14.75	14.00	0.75
	Mean	18.51	17.315	1.196	15.23	14.11	1.088

T₁ – Traditional Technology
M.S. – Muscular Stress (kg)

T₂ – Modified Technology

Table 6: Muscular stress (Grip strength) during the activity of Hoeing by women farmers with the help of traditional and modified technologies.

Treat- ment	Subjects	Right Hand			Left Hand		
		M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg.)	M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg)
	S ₁	17.99	14.00	3.99	14.95	12.25	2.70
	S ₂	18.35	16.25	2.10	15.00	12.50	2.50
T ₁	S ₃	19.00	15.90	3.10	16.12	13.25	2.87
	S ₄	18.00	14.25	3.75	15.35	14.75	2.60
	S ₅	18.50	14.75	3.75	15.50	13.50	2.00
	S ₆	18.35	13.25	5.1	14.79	12.22	2.57
	Mean	18.36	14.73	3.63	15.285	13.07	2.54
	S ₁	17.50	15.25	2.25	15.00	13.00	2.00
	S ₂	18.25	15.50	2.75	14.50	12.75	1.75
T ₂	S ₃	19.00	16.25	2.75	16.25	13.95	2.30
	S ₄	18.25	15.25	3.00	15.50	13.00	2.50
	S ₅	18.50	15.85	2.65	16.25	15.21	1.04
	S ₆	18.75	16.00	2.75	15.95	14.25	1.70
	Mean	18.37	15.68	2.69	15.57	13.69	1.88

T₁ – Traditional Technology
M.S. – Muscular Stress (kg)

T₂ – Modified Technology

Table 7: Muscular stress (Grip strength) during the activity of Weeding by women farmers with the help of traditional and modified technologies.

Treat- ment	Subjects	Right Hand			Left Hand		
		M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg.)	M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg)
	S ₁	17.99	12.25	5.74	16.00	12.25	3.75
	S ₂	18.50	15.25	3.25	15.95	12.37	3.58
T ₁	S ₃	18.00	14.31	3.69	16.35	12.54	3.81
	S ₄	18.25	14.75	3.50	16.59	13.21	3.38
	S ₅	17.95	13.00	4.95	16.79	13.25	3.54
	S ₆	17.50	12.37	5.13	16.84	13.52	3.32
	Mean	18.03	13.655	4.378	16.42	12.85	3.56
	S ₁	18.00	15.37	2.63	16.37	13.57	2.30
	S ₂	17.75	13.93	3.82	14.50	12.00	2.50
T ₂	S ₃	18.25	14.00	4.25	15.00	12.20	2.80
	S ₄	17.90	13.23	4.67	15.25	12.75	2.50
	S ₅	18.50	15.23	3.27	14.00	11.50	2.50
	S ₆	17.58	14.00	3.58	14.20	11.50	2.70
	Mean	17.99	14.29	3.70	14.88	12.25	2.63

T₁ – Traditional Technology
M.S. – Muscular Stress (kg)

T₂ – Modified Technology

Table 8: Muscular stress (Grip strength) during the activity of Harvesting by women farmers with the help of traditional and modified technologies.

Treat- ment	Subjects	Right Hand			Left Hand		
		M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg.)	M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg)
	S ₁	18.25	15.00	3.25	16.39	12.25	4.14
	S ₂	18.00	15.25	2.75	15.25	12.52	2.73
T ₁	S ₃	17.50	14.35	3.15	14.39	11.09	3.20
	S ₄	16.75	13.25	3.50	14.60	12.29	2.31
	S ₅	17.80	13.95	3.85	14.20	12.00	2.20
	S ₆	17.95	12.15	8.80	14.75	12.00	2.75
	Mean	17.70	13.99	3.71	14.93	12.025	2.88
	S ₁	18.27	15.29	2.98	16.20	13.50	2.70
	S ₂	18.15	15.95	2.20	16.75	12.79	3.96
T ₂	S ₃	17.65	14.25	3.40	15.50	12.25	3.25
	S ₄	16.95	14.00	2.95	14.50	12.50	2.00
	S ₅	17.85	14.20	3.65	14.75	13.00	1.75
	S ₆	18.00	15.35	2.65	14.50	12.15	2.35
	Mean	17.81	14.85	2.97	15.36	12.69	2.66

T₁ – Traditional Technology

T₂ – Modified Technology

M.S. – Muscular Stress (kg)

Table 9: Muscular stress (Grip strength) during the activity of Threshing by women farmers with the help of traditional and modified technologies.

Treat- ment	Subjects	Right Hand			Left Hand		
		M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg.)	M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg)
	S ₁	18.25	12.95	5.3	17.25	13.25	4.00
	S ₂	18.25	12.25	6.0	17.95	13.50	4.45
T ₁	S ₃	18.95	13.37	5.53	18.12	13.52	4.60
	S ₄	17.95	13.00	4.95	17.60	13.25	4.35
	S ₅	18.89	13.25	5.64	17.50	13.12	4.38
	S ₆	18.50	14.25	4.25	17.25	13.75	3.50
	Mean	18.47	13.17	5.28	17.61	13.39	4.21
	S ₁	18.20	14.95	3.25	17.25	14.00	3.25
	S ₂	18.25	14.37	3.88	17.80	14.12	3.68
T ₂	S ₃	17.75	13.25	4.50	18.25	14.75	3.50
	S ₄	18.90	15.20	3.70	17.95	14.85	3.10
	S ₅	17.25	13.90	3.35	17.25	14.39	2.86
	S ₆	18.50	14.00	4.50	17.50	14.75	2.75
	Mean	18.14	14.27	3.86	17.66	14.47	3.19

T₁ – Traditional Technology

T₂ – Modified Technology

M.S. – Muscular Stress (kg)

Table 10: Muscular stress (Grip strength) during the activity of Winnowing by women farmers with the help of traditional and modified technologies.

Treat- ment	Subjects	Right Hand			Left Hand		
		M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg.)	M.S. Before activity (kg)	M.S. During activity (kg)	Mean difference in M.S. (kg)
T ₁	S ₁	17.50	15.29	2.21	14.39	12.39	2.00
	S ₂	17.95	15.95	2.00	14.29	12.29	2.00
	S ₃	18.00	14.75	2.25	13.20	11.29	1.91
	S ₄	18.50	16.00	2.50	12.50	11.19	1.31
	S ₅	18.25	16.35	1.90	13.75	11.37	2.38
	S ₆	17.95	15.15	2.80	13.92	12.25	1.67
	Mean	18.025	15.58	2.27	13.67	11.79	1.87
T ₂	S ₁	18.05	16.25	1.80	14.50	12.49	2.01
	S ₂	19.50	17.29	2.21	14.50	13.50	1.00
	S ₃	17.35	16.25	1.10	13.75	12.50	1.25
	S ₄	18.25	17.20	1.05	13.29	11.50	1.79
	S ₅	16.95	15.25	1.70	14.00	11.75	2.25
	S ₆	17.95	16.50	1.45	13.99	12.75	1.24
	Mean	18.00	16.45	1.55	14.005	12.41	1.59

T₁ – Traditional Technology

T₂ – Modified Technology

M.S. – Muscular Stress (kg)