



**Table 3.262: Yield and economics as influenced by different treatments in fingermillet + pigeonpea intercropping (8:2) system – Bengaluru**

Treatment	Yield (kg/ha)					NMR (Rs/ha)	B:C ratio	RWUE (kg/ha-mm)
	2018				FMEY mean (2 yrs)			
	Grain	Straw	Pigeonpea seed	FMEY				
<b>Tillage</b>								
M <sub>1</sub> : Conventional tillage	1367	1730	171	1652	2058	24068	1.86	5.98
M <sub>2</sub> : Reduced tillage	1520	1845	262	1956	2118	33861	2.23	7.08
M <sub>3</sub> : Zero tillage	1036	1390	163	1307	1538	16708	1.68	4.73
CD at 5%	NS	NS	NS	NS	NS	-	-	-
<b>Cover crop</b>								
C <sub>1</sub> : Control	1132	1411	153	1387	1658	21478	1.97	5.02
C <sub>2</sub> : Field bean	1280	1719	172	1566	1832	18844	1.61	5.67
C <sub>3</sub> : Horsegram	1510	1835	271	1963	2223	34346	2.26	7.10
CD at 5%	293.4	295.0	NS	354.0	186.2	-	-	-
<b>Interaction</b>								
M <sub>1</sub> C <sub>1</sub>	1167	1509	123	1371	1822	19811	1.84	4.96
M <sub>1</sub> C <sub>2</sub>	1423	1719	129	1638	1957	19671	1.61	5.93
M <sub>1</sub> C <sub>3</sub>	1512	1963	261	1947	2394	32725	2.14	7.04
M <sub>2</sub> C <sub>1</sub>	1181	1656	203	1519	1846	24971	2.08	5.50
M <sub>2</sub> C <sub>2</sub>	1524	1776	246	1934	1969	29136	1.92	7.00
M <sub>2</sub> C <sub>3</sub>	1855	2103	336	2416	2538	47505	2.69	8.74
M <sub>3</sub> C <sub>1</sub>	1050	1068	132	1270	1306	19619	1.98	4.59
M <sub>3</sub> C <sub>2</sub>	894	1663	139	1126	1570	7727	1.27	4.07
M <sub>3</sub> C <sub>3</sub>	1164	1440	217	1525	1738	22780	1.91	5.52
CD at 5%	NS	NS	NS	NS	NS	-	-	-

FMEY: Finger millet equivalent yield

Different tillage and cover crop treatments showed non-significant results with respect to soil physical properties (Table 3.263).

**Table 3.263: Soil physical properties as influenced by different treatments in fingermillet + pigeonpea intercropping (8:2) system – Bengaluru**

Treatment	Bulk density	Particle density	MWHC	Porosity
	(Mg/m <sup>3</sup> )		(%)	
<b>Tillage</b>				
M <sub>1</sub> : Conventional tillage	1.43	3.1	29.8	52.4
M <sub>2</sub> : Reduced tillage	1.35	3.1	26.6	50.8
M <sub>3</sub> : Zero tillage	1.45	3.2	29.0	51.0
CD at 5%	NS	NS	NS	NS
<b>Cover crop</b>				
C <sub>1</sub> : Control	1.47	3.2	27.9	51.0
C <sub>2</sub> : Field bean	1.39	3.1	29.1	51.6
C <sub>3</sub> : Horsegram	1.38	3.1	28.4	51.6
CD at 5%	NS	NS	NS	NS