



At Bengaluru, in custard apple based agri-horti systems, significantly higher custard apple equivalent yield was recorded with fingermillet (2029 kg/ha) followed by green chillies intercropping (1937 kg/ha) as compared to other intercrops. Intercropping of fingermillet also registered higher net returns (Rs.94507/ha), B:C ratio (4.47) and

RWUE (8.08 kg/ha-mm) compared to other treatments (Table 3.156). Significantly higher soil organic carbon (0.64%), available N (238.52 kg/ha), P (70.43 kg/ha) and K (162.71 kg/ha) was recorded in plots under custard apple + cowpea system compared to other treatments (Table 3.157).

**Table 3.156: Yield and economics of custard apple based agri-horti systems - Bengaluru**

Treatment	Yield (kg/ha)		CEY (kg/ha)		NMR (Rs/ha)	COC (Rs/ha)	B:C ratio	RWUE (kg/ha-mm)
	2018-19	Pooled (8 yrs)	2018-19	Pooled (8 yrs)				
T <sub>1</sub> : CA + fingermillet	1605 (1227)	2198 (578)	2029	1458	94507	27233	4.47	8.08
T <sub>2</sub> : CA + fodder maize	28526 (1150)	38156 (552)	1625	1520	71080	26420	3.69	6.47
T <sub>3</sub> : CA + field bean	375 (1304)	668 (665)	1453	1168	57915	29265	2.98	5.79
T <sub>4</sub> : CA + niger	204 (1258)	310 (471)	1462	875	66068	21652	4.05	5.82
T <sub>5</sub> : CA + green chilli	2766 (1245)	3110 (526)	1937	1340	84869	31351	3.71	7.72
T <sub>6</sub> : CA + cowpea	395 (1313)	557 (570)	1510	1110	63035	27565	3.29	6.02
T <sub>7</sub> : CA + foxtail millet	431 (1223)	557 (512)	1366	960	58723	23237	3.53	5.44
T <sub>8</sub> : Custard apple (CA)	1352	569	1352	758	61042	20078	4.04	1.86
T <sub>9</sub> : Fingermillet	2895	3232	1448	1238	63267	23583	3.68	5.77
T <sub>10</sub> : Fodder maize	45655	56285	761	9759	23740	21920	2.08	3.03
T <sub>11</sub> : Field bean	741	1063	296	642	-7005	24765	0.72	1.18
T <sub>12</sub> : Niger	306	442	306	421	1208	17152	1.07	1.22
T <sub>13</sub> : Green chilli	4368	4883	1092	1348	38669	26851	2.44	4.35
T <sub>14</sub> : Cowpea	843	823	421	621	2195	23065	1.10	1.68
T <sub>15</sub> : Foxtail millet	1051	1076	350	468	2263	18737	1.12	1.39
CD at 5%	38.5	29.3	79.4		-		-	-

Figures in parenthesis indicate yield of main crop; COC: Cost of cultivation

**Table 3.157: Soil properties as influence by custard apple based agri-horti systems - Bengaluru**

Treatment	pH (1: 2.5)	EC (dS/m)	OC (%)	Available nutrients (kg/ha)		
				N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
T <sub>1</sub> : Custard apple + fingermillet	5.41	0.05	0.56	181.4	49.3	142.8
T <sub>2</sub> : Custard apple + fodder maize	5.30	0.04	0.50	141.9	34.5	108.2
T <sub>3</sub> : Custard apple + field bean	5.25	0.05	0.62	238.4	66.7	161.4
T <sub>4</sub> : Custard apple + niger	5.43	0.04	0.5	183.2	49.2	128.4
T <sub>5</sub> : Custard apple + chilli	5.43	0.05	0.54	176.8	40.5	122.4
T <sub>6</sub> : Custard apple + cowpea	5.29	0.05	0.64	238.5	70.4	162.7
T <sub>7</sub> : Custard apple + foxtail millet	5.42	0.04	0.52	175.2	54.5	138.3
T <sub>8</sub> : Fingermillet alone	5.36	0.04	0.49	159.3	40.2	116.7
T <sub>9</sub> : Fodder maize alone	5.36	0.05	0.42	132.1	28.4	92.7
T <sub>10</sub> : Field bean alone	5.28	0.05	0.55	221.4	56.8	140.8
T <sub>11</sub> : Niger alone	5.37	0.04	0.46	175.3	35.2	113.4
T <sub>12</sub> : Chilli alone	5.38	0.05	0.49	156.7	40.5	120.8
T <sub>13</sub> : Cowpea alone	5.3	0.04	0.59	225.2	56.7	144.4
T <sub>14</sub> : Foxtail millet alone	5.36	0.05	0.49	162.4	44.2	129.4
T <sub>15</sub> : Custard apple alone	5.44	0.05	0.51	178.6	50.3	124.9
CD at 5%	NS	NS	0.07	30.6	7.9	22.1