

Table S1: Interaction effect - CO₂-C fluxes (µg C/g soil/day) at various sampling intervals in soils amended with different residue treatments under two methods of placement over the period of incubation

Treatments			Period (days)										
			3	7	14	21	28	35	42	56	76	96	126
Residue * Soil	Rice	Soil-1	814.81	819.86	451.20	278.33	318.09	274.87	266.23	172.88	112.54	101.05	68.78
		Soil-2	897.51	658.01	406.26	299.07	306.85	288.70	256.72	171.58	114.36	101.95	68.78
		Soil-3	845.07	718.51	463.31	392.43	325.87	267.09	277.46	186.70	121.01	105.89	67.37
		Soil-4	943.90	677.67	402.80	385.51	306.85	272.28	248.94	162.93	107.40	107.10	77.65
	Maize	Soil-1	774.48	797.17	412.31	381.19	324.14	291.29	269.68	174.60	113.15	109.82	69.38
		Soil-2	732.12	588.42	412.31	305.13	325.00	261.04	254.13	159.91	111.03	98.93	78.06
		Soil-3	754.31	738.17	403.66	397.61	343.16	291.29	283.52	186.27	121.32	111.33	79.27
		Soil-4	867.25	783.55	465.90	350.94	312.04	263.63	254.99	163.80	116.17	101.04	78.06
SEM (±)			14.01	22.30	12.85	10.38	5.99	4.13	5.46	4.78	1.86	2.50	4.47
LSD (P<0.05)			40.36	64.23	37.01	29.91	NS	11.91	NS	NS	5.35	7.21	NS
Application * Soil	Incorporation	Soil-1	814.81	825.91	419.22	336.24	332.78	289.57	261.91	172.44	111.33	105.59	74.43
		Soil-2	841.03	629.26	428.73	316.36	337.97	280.92	264.50	163.80	114.66	101.95	77.05
		Soil-3	814.82	739.69	425.27	427.87	345.75	283.51	291.29	185.84	118.90	108.91	74.22
		Soil-4	931.80	733.64	434.78	354.39	317.23	274.01	255.86	168.98	112.54	103.47	74.63
	Surface application	Soil-1	774.48	791.12	444.29	323.27	309.45	276.60	274.01	175.04	114.36	105.28	63.74
		Soil-2	788.60	617.16	389.83	287.84	293.89	268.82	246.35	167.69	110.73	98.93	69.79
		Soil-3	784.56	717.00	441.70	362.17	323.28	274.87	269.68	187.14	123.43	108.31	72.41
		Soil-4	879.35	727.59	433.92	382.05	301.67	261.91	248.08	157.75	111.03	104.68	81.08
SEM (±)			14.01	22.30	12.85	10.38	5.99	4.13	5.46	4.78	1.86	2.50	4.47
LSD (P<0.05)			NS	NS	NS	29.91	NS	NS	15.72	NS	NS	NS	NS
Application * Residue	Incorporation	Rice	902.55	708.68	417.49	351.80	320.25	281.79	264.93	175.03	114.21	104.22	74.63
		Maize	798.68	755.57	436.51	365.63	346.61	282.22	271.85	170.50	114.51	105.73	75.53
	Surface application	Rice	848.09	728.34	444.29	325.87	308.58	269.68	259.74	172.01	113.45	103.77	66.66
		Maize	765.40	698.09	410.58	351.80	305.56	271.41	259.31	171.79	116.32	104.83	76.85
SEM (±)			9.91	15.77	9.09	7.34	4.23	2.92	3.86	3.38	1.31	1.77	3.16
LSD (P<0.05)			NS	45.42	26.17	NS	12.20	NS	NS	NS	NS	NS	NS

NS- Non significant at 0.05 level of significance.

Table S2: Interaction effect - Cumulative total C mineralized ($\mu\text{g C/g soil}$) at various sampling intervals in soils amended with different residue treatments under two methods of placement over the period of incubation

Treatments			Period (days)										
			3	7	14	21	28	35	42	56	76	96	126
Residue * Soil	Rice	Soil-1	660.00	1545.44	2398.22	2924.26	3525.45	4044.95	4548.12	5201.59	5809.31	6354.95	6912.03
		Soil-2	726.98	1437.62	2205.45	2770.69	3350.64	3896.29	4381.49	5030.05	5647.57	6198.12	6755.20
		Soil-3	684.50	1460.50	2336.14	3077.82	3693.71	4198.52	4722.92	5428.66	6082.13	6653.91	7199.56
		Soil-4	764.56	1496.44	2257.72	2986.34	3566.29	4080.89	4551.39	5167.28	5747.23	6325.54	6954.51
	Maize	Soil-1	627.33	1488.27	2267.53	2987.97	3600.59	4151.14	4660.84	5320.84	5931.83	6524.85	7086.83
		Soil-2	593.02	1228.52	2007.77	2584.45	3198.71	3692.08	4172.38	4776.83	5376.39	5910.59	6542.82
		Soil-3	610.99	1408.22	2171.14	2922.63	3571.19	4121.73	4657.58	5361.69	6016.78	6617.97	7260.00
		Soil-4	702.48	1548.71	2429.26	3092.53	3682.28	4180.55	4662.48	5281.63	5908.96	6454.60	7086.83
SEM (±)			11.35	24.76	37.97	37.93	39.09	39.88	40.72	38.36	41.55	47.56	61.43
LSD (P<0.05)			32.69	71.33	109.37	109.27	112.60	114.88	117.30	110.52	119.68	136.99	176.95
Application * Soil	Incorporation	Soil-1	660.00	1551.98	2344.31	2979.80	3608.76	4156.04	4651.04	5302.87	5904.06	6474.21	7077.03
		Soil-2	681.24	1360.84	2171.14	2769.06	3407.82	3938.76	4438.67	5057.82	5676.98	6227.53	6851.59
		Soil-3	660.00	1458.86	2262.63	3071.29	3724.75	4260.59	4811.14	5513.62	6155.65	6743.76	7344.95
		Soil-4	754.75	1547.08	2368.81	3038.62	3638.17	4156.04	4639.60	5278.36	5886.09	6444.80	7049.26
	Surface application	Soil-1	627.33	1481.73	2321.44	2932.43	3517.28	4040.05	4557.92	5219.56	5837.08	6405.59	6921.83
		Soil-2	638.76	1305.30	2042.08	2586.09	3141.54	3649.61	4115.20	4749.06	5346.98	5881.19	6446.44
		Soil-3	635.50	1409.85	2244.65	2929.16	3540.15	4059.66	4569.36	5276.73	5943.27	6528.12	7114.61
		Soil-4	712.28	1498.07	2318.17	3040.25	3610.40	4105.40	4574.26	5170.55	5770.10	6335.35	6992.08
SEM (±)			11.35	24.76	37.97	37.93	39.09	39.88	40.72	38.36	41.55	47.56	61.43
LSD (P<0.05)			NS	NS	NS	NS	112.60	114.88	117.30	110.52	119.68	136.99	NS
Application * Residue	Incorporation	Rice	731.07	1496.43	2285.50	2950.40	3555.67	4088.24	4588.96	5250.59	5867.30	6430.10	7034.56
		Maize	646.93	1462.95	2287.95	2978.99	3634.08	4167.48	4681.26	5325.74	5944.09	6515.05	7126.86
	Surface application	Rice	686.95	1473.56	2313.27	2929.16	3512.38	4022.08	4513.00	5163.19	5775.82	6336.16	6876.09
		Maize	619.98	1373.91	2149.90	2814.80	3392.30	3905.27	4395.37	5044.75	5672.90	6238.96	6861.39
SEM (±)			8.02	17.51	26.85	26.82	27.64	28.20	28.79	27.13	29.38	33.63	43.44
LSD (P<0.05)			NS	NS	77.34	77.27	79.62	81.23	82.94	78.15	84.63	96.87	NS

NS- Non significant at 0.05 level of significance.