

# Effects of Cover Crops and Soil Amendments on Soil CO<sub>2</sub> Flux in a Mississippi Corn Cropping System on Upland Soil <sup>†</sup>

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**Table S1.** Means and standard errors (SE) for CO<sub>2</sub> fluxes of each year. Values followed by letters with no letter in common denote significantly different CO<sub>2</sub> fluxes (Tukey's test,  $\alpha=0.05$ ).

Cover crop	Treatment	2019			2020			2021		
		Mean	SE		Mean	SE		Mean	SE	
WCC	Control	3.3	0.4	e	6.7	0.5	a	7.3	0.8	abcd
WCC	1T FGD+L+FRT	4.3	0.5	bcde	5.6	0.2	a	5.6	0.7	d
WCC	2T FGD+L+FRT	4.4	0.4	abcde	5.3	0.3	a	5.7	0.4	cd
WCC	3T FGD+L+FRT	4.6	0.4	abcde	6.2	0.4	a	6.0	0.8	bcd
WCC	BL	14.6	6.9	abc	6.9	0.5	a	10.8	1.7	ab
WCC	BL+FGD+L	11.6	3.9	ab	6.1	0.6	a	11.8	1.4	a
WCC	FRT	3.8	0.5	cde	6.1	0.6	a	5.3	0.5	d
NCC	Control	4.3	0.6	bcde	6.7	0.6	a	5.6	0.5	cd
NCC	1T FGD+L+FRT	3.5	0.5	de	6.6	0.6	a	4.0	0.4	d
NCC	2T FGD+L+FRT	3.5	0.3	de	5.1	0.5	a	4.8	0.6	d
NCC	3T FGD+L+FRT	3.2	0.3	e	5.3	0.3	a	5.0	0.4	d
NCC	BL	12.9	4.1	a	6.9	0.5	a	13.7	3.6	a
NCC	BL+FGD+L	9.2	3.2	abcd	6.8	0.4	a	10.1	1.3	abc
NCC	FRT	3.3	0.5	de	5.4	0.4	a	5.0	0.6	d
<b>Average across amendment treatments</b>										
WCC		6.7	1.2	<b>a</b>	6.1	0.2	<b>a</b>	7.5	0.5	<b>a</b>
NCC		5.9	0.9	<b>a</b>	6.1	0.2	<b>a</b>	6.9	0.7	<b>b</b>
<b>Average across cover crops</b>										
	Control	3.8	0.4	<i>b</i>	6.7	0.4	<i>a</i>	6.4	0.5	<i>b</i>
	1T FGD+L+FRT	3.9	0.3	<i>b</i>	6.1	0.3	<i>a</i>	4.8	0.4	<i>b</i>
	2T FGD+L+FRT	4.0	0.3	<i>b</i>	5.2	0.3	<i>a</i>	5.3	0.4	<i>b</i>
	3T FGD+L+FRT	3.9	0.3	<i>b</i>	5.7	0.3	<i>a</i>	5.5	0.4	<i>b</i>
	BL	13.7	3.9	<i>a</i>	6.9	0.3	<i>a</i>	12.2	1.9	<i>a</i>
	BL+FGD+L	10.5	2.5	<i>a</i>	6.5	0.4	<i>a</i>	11.0	0.9	<i>a</i>
	FRT	3.6	0.3	<i>b</i>	5.7	0.4	<i>a</i>	5.1	0.4	<i>b</i>