Supplementary information for

Contrasting agricultural management effects on soil organic carbon dynamics between topsoil and subsoil

Yui Osanai^{A,E}, Oliver Knox^B, Gunasekhar Nachimuthu^C and Brian Wilson,^{A,D}

^AEcosystem Management, School of Environmental and Rural Science, University of New England, Armidale NSW 2351, Australia.

^BAgronomy and Soil Science, School of Environmental and Rural Science, University of New England, Armidale NSW 2351, Australia.

^CDPI Agriculture, NSW Department of Primary Industries, Locked bag 1000, Narrabri, NSW, Australia.

^DNSW Department of Planning, Industry and Environment, Armidale NSW 2351, Australia.

^ECorresponding author. Email: yosanai@une.edu.au

Season					2015/16		2016/17		2017/18	
Rep	Plot	Row	HCS	Maize	Winter	Summer	Winter	Summer	Winter	Summer
Rep 1	1	16	Min Till/CC	-	Fallow	Cotton			Fallow	Cotton
	2	16		+		Maize				Maize
	3	16	Max Till/CC	-		Cotton				Cotton
	4	16		+		Maize				Maize
	5	16	Min Till/CW	-	Wheat	Stubble fallow			Wheat	Stubble fallow
	6	16		+		Maize				Maize
Rep 2	7	16	Min Till/CW	-		Stubble fallow				Stubble fallow
	8	24		+		Maize				Maize
	9	16	Min Till/CC	-	Fallow	Cotton				Cotton
	10	16		+		Maize	Fallow	Cotton		Maize
	11	16	Max Till/CC	+						IVIdize
	12	16		-		Cotton				Cotton
Rep 3	13	8	Max Till/CC	-						Cotton
	14	16		+		Maize				Maize
	15	16	Min Till/CW	-	Wheat	Stubble fallow			Wheat	Stubble fallow
	16	16		+		Maize			wneat	Maize
	17	16	Min Till/CC	-	Fallow	Cotton			Fallow Wheat	Cotton
	18	16		+		Maize				Maize
Rep 4	19	16	Min Till/CW	-	Wheat	Stubble fallow				Stubble fallow
	20	16		+		Maize				N de inc
	21	16	Min Till/CC	+					Fallow	Maize
	22	16		-	Fallow	Cotton				California
	23	24	Max Till/CC	-						Cotton
	24	16		+		Maize				Maize

Fig. S1 Crop rotation and experimental set up in the field. Experimental field consists of 24 plots in total with three historical cropping systems: maximum tillage continuous cotton (Max Till/CC), minimum tillage continuous cotton (Min Till/CC) and minimum tillage cotton-wheat (Min Till/CW) with (+) or without (-) maize treatment replicated four times.