

Table S1. Annual survival rate of each treatment and sub-experiment

	Survival GS1 (%)	Survival GS2 (%)
Sub-experiment 1		
	Mulch	
Control	100	90
Com_Plastic	98	95
Com_Biofilm	98	93
New_Biofilm	97	93
New_Jute	98	97
New_Rubber	98	82
	Soil conditioner	
SC-	98	90
New_SC40	99	93
Sub-experiment 2		
SC-	100	90
New_SC20	100	97
New_SC40	100	100
New_SC80	100	93
Sub-experiment 3		
Com_SC40	100	97
New_SC40	100	100