

Table S1

List of weed species and their classification on weed types under different crop residues management (NR: no crop residues retention, HR: half crop residues retention, TR: total crop residues retention) in the summer maize field in NCP during the study period.

Weed species Latin binomial	Family	Functional groups		Weed occurrence		
		MT	LC	NR	HR	TR
2019						
<i>Chloris virgata</i> Sw.	Poaceae	M	A		√	
<i>Cirsium arvense</i> var. <i>integrifolium</i>	Asteraceae	D	P	√		
<i>Convolvulus arvensis</i>	Convolvulaceae	D	P	√	√	√
<i>Digitaria sanguinalis</i> (L.) Scop	Poaceae	M	A		√	√
<i>Eleusine indica</i> (L.) Gaertn	Poaceae	M	A	√		
<i>Imperata cylindrica</i> (L.) Beauv.	Poaceae	M	P	√		
<i>Rehmannia glutinosa</i>	Orobanchaceae	D	P		√	
<i>Setaria viridis</i> (L.) Beauv	Poaceae	M	A	√	√	√
<i>Triticum aestivum</i> L.	Poaceae	M	A	√	√	√
2020						
<i>Abutilon theophrasti</i>	Malvaceae	D	A	√		√
<i>Cirsium arvense</i> var. <i>integrifolium</i>	Asteraceae	D	P	√		
<i>Convolvulus arvensis</i>	Convolvulaceae	D	P	√	√	√
<i>Digitaria sanguinalis</i> (L.) Scop	Poaceae	M	A	√	√	√
<i>Eleusine indica</i> (L.) Gaertn	Poaceae	M	A		√	
<i>Portulaca oleracea</i> L.	Portulacaceae	D	A	√		
<i>Triticum aestivum</i> L.	Poaceae	M	A			√

MT, LC, D, M, A, P are morphological type, life cycle, dicotyledons, monocotyledons, annual, and perennial, respectively.

‘√’ means the occurrence of the weed under experimental treatments.