Species	Growth	Growth	Nutrient	Ν	Ν	Erosion	Alleviate	Weed	Pollinator	Forage	Planting dates
	Period	Form	Acquisition	retention	supply	Control	Compaction	Suppression	Resources	Production	window, weeks
			Strategy								before first
G 1 D) II								killing frost
Cereal Rye	WH	SD to TO	NL	\checkmark +	✓-	√ +	\checkmark	✓ +	✓ -	\checkmark +	4 weeks prior to 6 weeks after
Triticale	WH	SD to TO	NL	✓+	√-	✓+	\checkmark	✓+	✓-	✓+	4 weeks prior to 6 weeks after
Annual Ryegrass	WH	SD	NL	\checkmark +	✓-	✓+	\checkmark	\checkmark	✓-	\checkmark +	3 to 10
Oats	WK	SD	NL	\checkmark^1	✓-	\checkmark	\checkmark	\checkmark +	✓-	\checkmark +	3 to 10
Sorghum- Sudan grass	WK	ТО	NL	\checkmark^1	✓-	\checkmark	\checkmark	\checkmark	✓-	√ ⁴	8 to 12
Red Clover	WH	SD	L	✓-	$\checkmark +$	\checkmark	$\checkmark +$	✓-	\checkmark +	\checkmark	5 to 6
Austrian Winter Pea	WH	V	L	✓-	\checkmark +	\checkmark	\checkmark	\checkmark	\checkmark +	\checkmark	2 to 10
Crimson Clover	WH	SD	L	√-	✓+	\checkmark	\checkmark	✓ -	✓+	✓+	3 to 10
Hairy Vetch	WH	V	L	✓-	$\checkmark +$	\checkmark	\checkmark	\checkmark	\checkmark +	\checkmark	2 to 10
Fava bean	WK	ТО	L	✓-	$\checkmark + 2$	\checkmark	\checkmark	\checkmark	\checkmark	✓-	8 to 10
Sunnhemp	WK	ТО	L	✓-	$\checkmark + 2$	\checkmark	\checkmark	✓-	\checkmark	✓-	10 to 14
Soybean	WK	SD	L	✓-	$\checkmark + 2$	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	10 to 14
Forage Radish	WK	SD	NL	\checkmark^1	$\checkmark + 2$	√ ³	\checkmark +	✓+	✓-	\checkmark	3 to 10
Canola	WH	SD to TO	NL	✓+	\checkmark	✓+	\checkmark	✓+	✓+	\checkmark	3 to 10
Sunflower	WK	ТО	NL	$\checkmark 1$	√ -	\checkmark	\checkmark	✓ -	\checkmark +	√ -	10 to 14

Table 1. Cover crop characteristics, ability to provide various services, and recommended planting date windows.

WH= Winter-hardy; WK= Winter-killed; SD = Short, dense; TO= Tall, open; V= Vining; L= Legume; NL= Non-legume; \checkmark += Excellent ability; \checkmark =Moderate ability; \checkmark - = Limited to no ability.

Notes

¹Winterkilled species provide no N retention in the winter and spring. ²N released rapidly following winter kill of these species is subject to leaching losses. ³Forage radish provides excellent erosion control in the fall, but soil is left bare in spring after winterkilled residues decompose. ⁴Be aware of potential for prussic acid poisoning. ⁵Planting date recommendations from Cover Crop Solutions, LLC when available and personal experience otherwise.