

**Table 6. Individual trial site results: cover crop AGB, response crop yield and response ratios, 2023.**

Site ID	Response crop	Management comparison <sup>(1)</sup>	Seeding	2023		AGB (lb/a)			Yield (bu/a)*				Response ratio				
			rate <sup>(2)</sup> (lb/a)	Term. timing <sup>(3)</sup>	Precip. region <sup>(4)</sup>	Cover 1	Cover 2	p>f	No cover	Cover 1	Cover 2	p>f	Cover 1	Cover 2			
RC11	Corn	Rate: 40 vs. 80		PRE	SE	(5)						215.9	206.7	208.9	0.057	0.957	0.968
RC12	Corn	Rate: 40 vs. 80		PRE	SE	(5)						225.0	213.5	215.1	0.235	0.949	0.956
RK06	Corn	Rate: 50 vs. 100		PP	SW	(6)											
JF12	Corn	Rate: 50 vs. 100		LP	N		1,745	1,480	0.246								
JF19	Corn	Cover vs. no cover	43	PP	SC		176		nc			180.5	174.8		0.082	0.968	
WW07	Corn	Term. Timing: PP vs. PRE	50		SC		323	641	0.042			183.9	179.6	168.1	0.464	0.977	0.914
WW08	Corn	Term. Timing: PP vs. PRE	80		SC		391	841	0.005			183.9	152.9	169.9	0.188	0.831	0.924
JF17	Corn	N rate: 100 vs 140		LP	N	(6)						153.0	168.2	180.7	0.040	1.099	1.181
JF18	Corn	N rate: 100 vs 140		LP	N	(6)						153.0	143.2	136.6	0.326	0.936	0.893
DG06	Soybean	Rate: 28 vs. 56		PRE	N	(5)											
RC10	Soybean	Rate: 50 vs. 80		PRE	SE		1,039	1,447	0.318			58.2	59.7	57.7	0.513	1.026	0.991
RC07	Soybean	Rate: 50 vs. 100		PRE	SE		2,150	2,052	0.785			53.0	47.7	45.0	0.015	0.900	0.849
RK05	Soybean	Rate: 50 vs. 100		PP	SW	(6)											
RC08	Soybean	Term. Timing: PP vs. PRE	50		SE		906	1,006	0.713			37.7	41.8	40.5	0.330	1.109	1.074
JF13	Soybean	Term. Timing: PP vs. PRE	55		SC		155	589	0.012			57.2	60.4	56.4	0.076	1.056	0.986
JF15	Soybean	Term. Timing: PP vs. PRE	55		SC		343	1,090	0.006			59.5	58.5	55.0	0.070	0.983	0.924
WW09	Soybean	Term. Timing: PP vs. PRE	55		SC		107	920	0.001			43.7	46.2	45.2	0.673	1.057	1.034
RC09	Soybean	Term. Timing: PP vs. PRE	80		SE		894	803	0.492			38.4	44.8	41.3	0.003	1.167	1.076
WW05	Soybean	Term. Timing: PP vs. EP	50		SC		105	1,688	0.002			45.0	47.8	41.5	0.025	1.062	0.922
JF14	Soybean	Term. Timing: PP vs. EP	55		SC		155	412	0.002			59.5	60.5	55.0	0.137	1.017	0.924
JF16	Soybean	Term. Timing: PP vs. EP	55		SC		343	1,791	0.001			58.9	58.4	46.8	0.004	0.992	0.795
WW10	Soybean	Term. Timing: PP vs. EP	55		SC		107	1,295	<0.001			45.4	46.2	42.0	0.431	1.018	0.925
WW06	Soybean	Term. Timing: PP vs. EP	80		SC		142	1,778	<0.001			45.0	46.5	39.9	0.015	1.033	0.887
JF20	Soybean	Cover vs. no cover	43	PP	SC		148		nc			49.9	50.3	49.9	0.794	1.008	1.000
DG07	Soybean	Placement <sup>(7)</sup>	28		N	(5)			(5)								

<sup>(1)</sup> Cover 1 vs. Cover 2

\*Yield reported at standard moisture: corn, 15%; soybean, 13%

<sup>(2)</sup> Cereal rye seeding rate, trial rate if seeding rate is not the comparison. \*\* indicates a non-rye trial, discussed in text.

<sup>(3)</sup> Individual site termination timings are reported in Table 4; PP, preplant; PRE, preemergence; EP, early postemergence, <7 DAE; LP, late postemergence, >7 DAE.

<sup>(4)</sup> References grouping of NWS Reporting Stations and precipitation amounts reported in Table 5.

<sup>(5)</sup> Unsampled, stand too variable to get a representative sample.

<sup>(6)</sup> Unsampled, stand terminated without sufficient notice for sampling.

<sup>(7)</sup> Placement: In-row vs. between rows, references rye establishment in advance of 2023 response.

nc, no rye treatment comparison. Site JF20 treatment comparison not applied, response ratio 2 represents a second replicated comparison.