Supplementary (appendix) Figures:

Table S1: Logistic fit models for emergence and normalized emergence based on year, cover crop system, seed size, and hybrid.

Treatments				Emergence			Normalized Emergence		
Year	Cover	Size	Hyrbid	Logistic Fit Model	Approx. R^2	Std. Error of Estimate	Logistic Fit Model	Approx. R^2	Std. Error of Estimate
2019	Bare Soil			1206.6 / (1+48.4563*EXP(-0.77*plants)	0.9989	2.72	1169.3 / (1+24.3258*EXP(-1.16*plants)	0.9993	2.35
2019	KBG			1323 / (1+21.6821*EXP(-0.67*plants)	0.9990	2.69	1261.5 / (1+13.4098*EXP(-1.13*plants)	0.9998	1.33
2020	Bare Soil			1096.3 / (1+24.677*EXP(-1.19*plants)	0.9986	4.46	1094.7 / (1+21.5754*EXP(-1.42*plants)	0.9992	3.50
2020	KBG			940.1 / (1+26.1533*EXP(-0.57*plants)	0.9972	4.76	937.8 / (1+19.8747*EXP(-0.59*plants)	0.9971	5.00
2019	Bare Soil	IB		629.8 / (1+46.7091*EXP(-0.79*plants)	0.9990	1.97	612.4 / (1+22.1036*EXP(-1.18*plants)	0.9994	1.47
2019	Bare Soil	SD		577.4 / (1+52.8703*EXP(-0.75*plants)	0.9987	1.95	557.1 / (1+27.7324*EXP(-1.14*plants)	0.9987	1.87
2019	KBG	IB		657.2 / (1+24.9036*EXP(-0.71*plants)	0.9987	1.90	629.3 / (1+13.3488*EXP(-1.15*plants)	0.9997	0.91

Year	Crop	Trt	Code1	Code2	Equation	R²	Value	Equation	R²	Value
2019	KBG	SD			666.4 / (1+18.9674*EXP(-0.64*plants))	0.9989	1.86	632.1 / (1+13.5445*EXP(-1.1*plants))	0.9997	0.98
2020	Bare Soil	IB			519.5 / (1+32.5031*EXP(-1.29*plants))	0.9984	2.85	519.5 / (1+24.0422*EXP(-1.45*plants))	0.9993	2.01
2020	Bare Soil	SD			571.4 / (1+20.5892*EXP(-1.14*plants))	0.9982	3.35	569.5 / (1+20.9481*EXP(-1.43*plants))	0.9988	2.73
2020	KBG	IB			481.6 / (1+23.1278*EXP(-0.51*plants))	0.9981	2.76	477.4 / (1+20.8382*EXP(-0.54*plants))	0.9975	3.21
2020	KBG	SD			464.7 / (1+24.5399*EXP(-0.6*plants))	0.9975	3.27	459.8 / (1+21.661*EXP(-0.66*plants))	0.9970	3.65
2019	Bare Soil	IB	7016	CNV	323.8 / (1+36.5021*EXP(-0.82*plants))	0.9981	2.00	311.1 / (1+19.085*EXP(-1.4*plants))	0.9996	0.97
2019	Bare Soil	IB	1197		310.3 / (1+70.7619*EXP(-0.79*plants))	0.9991	1.22	301.4 / (1+43.7522*EXP(-1.19*plants))	0.9993	1.00
2019	Bare Soil	SD	7016	CNV	268 / (1+40.9164*EXP(-0.77*plants))	0.9969	2.18	254.3 / (1+26.2057*EXP(-1.46*plants))	0.9982	1.58
2019	Bare Soil	SD	1197		318.2 / (1+68.2636*EXP(-0.72*plants))	0.9986	1.29	299.7 / (1+70.5578*EXP(-1.23*plants))	0.9993	0.96
2019	KBG	IB	7016	CNV	327.6 / (1+20.7315*EXP(-0.74*plants))	0.9974	1.74	311.2 / (1+7.8159*EXP(-1.22*plants))	0.9997	0.50

Year	Cover	Loc	Code	Equation	R^2	RMSE	Equation	R^2	RMSE
2019	KBG	IB	1197	339.4 / (1+31.9274*EXP(-0.68*plants))	0.9981	1.64	316.3 / (1+34.4065*EXP(-1.28*plants))	0.9992	0.99
2019	KBG	SD	7016 CNV	342.4 / (1+17.0864*EXP(-0.69*plants))	0.9989	1.42	328.8 / (1+10.9194*EXP(-1.15*plants))	0.9997	0.68
2019	KBG	SD	1197	326.2 / (1+24.0171*EXP(-0.62*plants))	0.9984	1.50	302.8 / (1+19.4747*EXP(-1.11*plants))	0.9994	0.96
2020	Bare Soil	IB	7016 CNV	226 / (1+17.8446*EXP(-1.05*plants))	0.9998	0.66	223.9 / (1+25.2854*EXP(-1.43*plants))	0.9989	1.54
2020	Bare Soil	IB	1197	295.2 / (1+31.185*EXP(-1.31*plants))	0.9978	2.27	295.7 / (1+23.1542*EXP(-1.47*plants))	0.9991	1.34
2020	Bare Soil	SD	7016 CNV	276.3 / (1+19.1344*EXP(-1.01*plants))	0.9980	2.14	275.6 / (1+17.9567*EXP(-1.2*plants))	0.9988	1.82
2020	Bare Soil	SD	1197	295.8 / (1+23.9289*EXP(-1.31*plants))	0.9972	2.63	292.8 / (1+33.5561*EXP(-1.85*plants))	0.9986	1.70
2020	KBG	IB	7016 CNV	206.5 / (1+19.6617*EXP(-0.55*plants))	0.9987	1.49	203.8 / (1+19.3409*EXP(-0.62*plants))	0.9976	2.08
2020	KBG	IB	1197	272.5 / (1+29.9519*EXP(-0.51*plants))	0.9974	2.32	273.1 / (1+22.8364*EXP(-0.51*plants))	0.9979	2.15
2020	KBG	SD	7016 CNV	199.9 / (1+25.9039*EXP(-0.63*plants))	0.9969	2.41	197.8 / (1+20.5905*EXP(-0.68*plants))	0.9962	2.73

			264.8 / (1+23.8984*EXP(-0.59*plants)	0.9978	2.32	269 / (1+20.2251*EXP(-0.61*plants)	0.9959	3.41
20 20	KBG	SD	1197					

Table S2: Logistic fit models for emergence based on planting depth, year, and cover crop systems.

Year	Cover	Depth	Logistic Fit Model	Approx. R^2	Std. Error of Estimate
2019	Bare Soil	3.15 cm	575.6 / (1+34.5443*EXP(-1.05*plants)	0.9975	2.48
2019	Bare Soil	6.30 cm	598 / (1+11308.6*EXP(-1.49*plants)	0.9994	1.11
2019	KBG	3.15 cm	657.8 / (1+14.7432*EXP(-0.99*plants)	0.9994	1.46
2019	KBG	6.30 cm	605.5 / (1+8160*EXP(-1.51*plants)	0.9992	1.41
2020	Bare Soil	3.15 cm	79.1369 / (1+2.2716*EXP(-0*plants)	0.9977	3.71
2020	Bare Soil	6.30 cm	66.8831 / (1+1.2464*EXP(-0*plants)	0.9992	2.22
2020	KBG	3.15 cm	12.352 / (1+0.4881*EXP(-0*plants)	0.9943	4.65
2020	KBG	6.30 cm	66.8896 / (1+0.6909*EXP(-0*plants)	0.9979	3.07