

1 **Table 1.** Median senescence and toxin reaction ratings of commercial and public varieties.

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Entry	N ^x	Liquid media		+Culture filtrate		Entry	N	Liquid media		+Culture filtrate	
		Control	SRXN	Treated	TRXN			Control	SRXN	Treated	TRXN
<i>Arkansas</i>						Midland					
Osage	5	1	NS	3	TS	3537NX	5	1	NS	2	TR
R09-430	5	1	NS	3	TS	3633NR2	5	2	NS	3	TS
R13-1019	5	1	NS	4	TS	3657NRZ	5	1	NS	3	TS
UA 5014 C	5	1	NS	4	TS	3926NRS2	5	2	NS	4	TS
UA 5414RR	5	2	NS	5	TS	3938NX	5	4	S	4	TS
<i>Asgrow</i>						3983NRZ					
AG 3432	5	6	S	6	TS	4328NX	5	1	NS	2	TR
AG 4232	5	2	NS	1	TR	4373R2	5	1	NS	2	TR
AG 5335	5	1	NS	3	TS	4677NXS	5	1	NS	4	TS
<i>Credenz</i>						4797NRS2					
CZ 3548 LL	5	1	NS	1	TR	4956NXS	5	2	NS	5	TS
CZ 3601 LL	5	1	NS	4	TS	4963NRS2	5	2	NS	4	TS
CZ 3738 LL	5	1	NS	1	TR	Missouri					
CZ 3841 LL	5	1	NS	2	TR	S13-10590C	5	6	S	6	TS
CZ 4105 LL	5	4	S	4	TS	S13-1805C	5	5	S	6	TS
CZ 4222 LL	5	1	NS	4	TS	S13-1955C	5	6	S	6	TS
CZ 4308 LL	5	1	NS	2	TR	S13-2743C	5	6	S	5	TS
CZ 4548 LL	5	1	NS	1	TR	S13-3851C	5	5	S	5	TS
CZ 4748 LL	5	1	NS	4	TS	S14-9051R	5	4	S	4	TS
CZ 4918 LL	5	1	NS	1	TR	Morsoy					
CZ 4938 LL	5	6	S	6	TS	3907RXT	5	6	S	4	TS
HBK LL 4953	5	1	NS	1	TR	4117RXT	5	2	NS	5	TS
<i>Dyna Gro</i>						4327RXT					
S35XT97	5	2	NS	4	TS	4426RXT	5	1	NS	6	TS
S37XT28	5	1	NS	2	TR	4535RXT	5	5	S	6	TS
S38RY87	5	1	NS	2	TR	4667RXT	5	6	S	6	TS

S39XT68	5	6	S	6	TS	4706RXT	5	2	NS	5	TS
S43XS27	5	6	S	6	TS	4737RXT	5	1	NS	5	TS
S46XS87	5	1	NS	4	TS	4857RXT	5	2	NS	5	TS
S48XS78	5	1	NS	4	TS	4997RXT	5	6	S	5	TS
S49XS88	5	1	NS	3	TS	Phillips					
Emerge Genetics						306NR2XS	5	5	S	5	TS
e3796	5	4	S	6	TS	348NR2X	5	1	NS	3	TS
e4394	5	5	S	5	TS	363NR2YE	5	2	NS	6	TS
e4766s	5	5	S	5	TS	387NR2X	5	2	NS	4	TS
e4892s	5	3	S	6	TS	408NR2XS	5	1	NS	2	TR
e4993s	5	4	S	6	TS	411NR2Y	5	1	NS	5	TS
e4996s	5	1	NS	5	TS	454R2YSE	5	5	S	6	TS
N4746s	5	4	S	6	TS	456NR2XS	5	1	NS	2	TR
T4846s	5	5	S	6	TS	478NR2XSE	5	2	NS	6	TS
Frontier Seed						Syngenta					
3SR92	5	2	NS	3	TS	GH2981x	5	1	NS	5	TS
4SR62	5	2	NS	5	TS	GH3195x	5	1	NS	2	TR
4SR82	5	1	NS	2	TR	GH3324x	5	1	NS	5	TS
41GT37	5	2	NS	6	TS	GH3546x	5	1	NS	4	TS
49GT02	5	1	NS	5	TS	GH3761x	5	6	S	6	TS
Kansas AES						GH3982x	5	4	S	4	TS
K11-2363B	5	3	S	4	TS	GH3985x	5	1	NS	2	TR
K12-1348	5	1	NS	4	TS	GH4142x	5	1	NS	5	TS
K12-1355	5	6	S	6	TS	GH4307x	5	1	NS	4	TS
K12-2333	5	2	NS	2	TR	GH4542x	5	1	NS	4	TS
K13-1615	5	6	S	3	TS	NK S39-T2	5	4	S	5	TS
K13-1830	5	1	NS	3	TS	NK S39-T3	5	6	S	6	TS
K4313NRRT	5	1	NS	2	TR	Willcross					
KS3406RR	5	2	NS	6	TS	WX1441NLL	5	1	NS	6	TS
K4117NS	5	3	S	5	TS	WX1445NLL	5	1	NS	2	TR
KS4313N	5	3	S	4	TS	WX1745NLL	5	1	NS	2	TR

KS5004N	5	1	NS	5	TS	WXE3367N	5	1	NS	3	TS
KS5502N	5	4	S	2	TR	WXE3377ND	5	1	NS	4	TS
KS5507NRR	5	1	NS	2	TR	WXE3386N	5	1	NS	3	TS
LG Seeds						WXE3437N	5	1	NS	2	TR
C3026RX	5	6	S	6	TS	WXE3446NS	5	1	NS	5	TS
C3333RX	5	5	S	5	TS	WXE3466NS	5	1	NS	2	TR
C3489RX	5	1	NS	2	TR	WXE3487NS	5	1	NS	3	TS
C3550RX	5	6	S	6	TS	WXE3497NS	5	1	NS	3	TS
C3775RX	5	2	NS	1	TR	WXE3517NS	5	6	NS	6	TS
C3985RX	5	4	S	6	TS	Other public					
C4227RX	5	2	NS	5	TS	LD06-7862	5	1	NS	4	TS
C4458RX	5	2	NS	6	TS	LS09-1920	5	4	S	2	TR
C4615RX	5	6	S	6	TS	Morgan	5	3	S	6	TS
						Ripley	5	2	NS	4	TR
						Spencer	5	2	NS	5	TS

3 *Abbreviations:* SRXN = Senescence reaction (NS = non-senescent [1-2], S = senescent [3-6]); TRXN = Toxin reaction (TR = toxin resistant
4 [1-2], TS = toxin sensitive [3-6]). *Plants tested per treatment.

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7 **Table 2.** Median senescence and toxin reaction ratings of Kansas breeding lines.

Line	N ^x	Liquid media		+Culture filtrate		Line	N	Liquid media		+Culture filtrate	
		Control	SRXN	Treated	TRXN			Control	SRXN	Treated	TRXN
K14-1717-1	5	4	S	6	TS	K16-1645	5	2	NS	4	TS
K14-1717-5	5	6	S	6	TS	K16-1649	5	1	NS	1	TR
K16-1066	5	1	NS	2	TR	K16-1651	5	2	NS	3	TS
K16-1068	5	2	NS	2	TR	K16-1659	5	1	NS	2	TR
K16-1071	5	1	NS	3	TS	K16-1662	5	3	S	3	TS
K16-1072	5	4	S	3	TS	K16-1664	5	2	NS	2	TR
K16-1081	5	1	NS	2	TR	K16-1675	5	2	NS	2	TR
K16-1084	5	1	NS	2	TR	K16-1685	5	2	NS	2	TR
K16-1091	5	2	NS	2	TR	K16-1687	5	1	NS	3	TS
K16-1098	5	1	NS	2	TR	K16-1690	5	2	NS	2	TR
K16-1099	5	2	NS	4	TS	K16-1696	5	4	S	5	TS
K16-1100	5	1	NS	2	TR	K16-1698	5	1	NS	5	TS
K16-1106	5	2	NS	2	TS	K16-1702	5	6	S	6	TS
K16-1107	5	2	NS	2	TR	K16-1704	5	5	S	4	TS
K16-1114	5	1	NS	2	TR	K16-1706	5	6	S	6	TS
K16-1153	5	1	NS	2	TR	K16-1716	5	2	NS	6	TS
K16-1154	5	2	NS	2	TR	K16-1722	5	2	NS	5	TS
K16-1156	5	1	NS	2	TR	K16-1723	5	6	S	6	TS
K16-1158	5	2	NS	2	TR	K16-1729	5	6	S	6	TS
K16-1170	5	5	S	3	TS	K16-1730	5	6	S	6	TS
K16-1171	5	1	NS	2	TR	K16-1753	5	2	NS	6	TS
K16-1172	5	3	S	3	TS	K16-1755	5	5	S	6	TS
K16-1174	5	2	NS	2	TR	K16-1763	5	6	S	5	TS
K16-1180	5	4	S	3	TS	K16-1764	5	6	S	6	TS
K16-1181	5	2	NS	2	TR	K16-1765	5	1	NS	4	TS
K16-1182	5	6	S	6	TS	K16-1767	5	1	NS	5	TS
K16-1190	5	1	NS	1	TR	K16-1774	5	1	NS	4	TS

K16-1194	5	1	NS	1	TR	K16-1777	5	1	NS	2	TR
K16-1195	5	6	S	2	TR	K16-1786	5	1	NS	1	TR
K16-1197	5	5	S	2	TR	K16-1787	5	2	NS	6	TS
K16-1199	5	3	S	6	TS	K16-1788	5	1	NS	3	TS
K16-1200	5	6	S	1	TR	K16-1789	5	1	NS	6	TS
K16-1202	5	2	NS	2	TR	K16-1793	5	2	NS	4	TS
K16-1203	5	6	S	3	TS	K16-1797	5	2	NS	4	TS
K16-1204	5	6	S	5	TS	K16-1815	5	1	NS	5	TS
K16-1206	5	2	NS	3	TS	K16-1817	5	2	NS	6	TS
K16-1208	5	6	S	4	TS	K16-1821	5	2	NS	4	TS
K16-1209	5	6	S	6	TS	K16-1837	5	5	S	6	TS
K16-1211	5	6	S	3	TS	K16-1843	5	6	S	6	TS
K16-1213	5	6	S	6	TS	K16-1846	5	2	NS	5	TS
K16-1215	5	6	S	6	TS	K16-1863	5	2	NS	6	TS
K16-1218	5	1	NS	6	TS	K16-1869	5	2	NS	3	TS
K16-1221	5	4	S	2	TR	K16-1872	5	2	NS	6	TS
K16-1222	5	6	S	3	TS	K16-1874	5	6	S	6	TS
K16-1227	5	5	S	4	TS	K16-1875	5	3	S	6	TS
K16-1228	5	6	S	4	TS	K16-1879-1	5	1	NS	3	TS
K16-1229	5	5	S	2	TR	K16-1879-2	5	1	NS	3	TS
K16-1231	5	6	S	3	TS	K16-1880	5	1	NS	3	TS
K16-1233	5	1	NS	4	TS	K16-1881	5	1	NS	5	TS
K16-1235	5	5	S	5	TS	K16-1882	5	2	NS	4	TS
K16-1245	5	1	NS	5	TS	K16-1884	5	1	NS	5	TS
K16-1467	5	6	S	6	TS	K16-1889	5	2	NS	4	TS
K16-1472	5	6	S	2	TS	K16-1903	5	1	NS	6	TS
K16-1488	5	6	S	1	TR	K16-1914	5	2	NS	2	TR
K16-1492	5	2	NS	3	TS	K16-1917	5	2	NS	5	TS
K16-1498	5	4	S	3	TS	K16-1989	5	1	NS	2	TR
K16-1501	5	6	S	6	TS	K16-1991	5	1	NS	3	TS
K16-1502	5	6	S	2	TR	K16-2001	5	2	NS	2	TR

K16-1503	5	4	S	2	TR	K16-2010	5	1	NS	6	TS
K16-1504	5	6	S	3	TS	K16-2012-1	5	6	S	6	TS
K16-1509	5	6	S	2	TR	K16-2012-2	5	1	NS	4	TS
K16-1516	5	3	S	2	TR	K16-2015	5	1	NS	1	TR
K16-1524	5	1	NS	3	TS	K16-2016	5	1	NS	3	TS
K16-1537	5	3	S	3	TS	K16-2019	5	2	NS	3	TS
K16-1540	5	6	S	6	TS	K16-2025	5	1	NS	3	TS
K16-1542	5	3	S	3	TS	K16-2026	5	6	S	5	TS
K16-1548	5	1	NS	2	TR	K16-2032	5	4	S	4	TS
K16-1550	5	6	S	6	TS	K16-2040	5	4	S	4	TS
K16-1552	5	2	NS	1	TR	K16-2041	5	3	S	6	TS
K16-1556	5	3	S	3	TS	K16-2043	5	6	S	5	TS
K16-1561	5	1	NS	2	TR	K16-2044	5	6	S	5	TS
K16-1564	5	5	S	5	TS	K16-2048	5	6	S	4	TS
K16-1572	5	3	S	1	TR	K16-2049	5	6	S	6	TS
K16-1576	5	1	NS	2	TR	K16-2052	5	1	NS	5	TS
K16-1585	5	3	S	4	TS	K16-2105	5	6	S	6	TS
K16-1591	5	2	NS	1	TR	K16-2130	5	6	S	5	TS
K16-1621	5	2	NS	3	TS	K16-2148	5	6	S	6	TS
K16-1623	5	3	S	2	TR	K16-2155	5	3	S	6	TS
K16-1630	5	2	NS	2	TR	K5004 N(2)	5	3	S	5	TS
K16-1634	5	4	S	6	TS	KS 5518	5	2	NS	6	TS
K16-1637	5	4	S	5	TS	e4993	5	1.8	NS	4.2	TS
K16-1643	5	1	NS	2	TR						

8 *Abbreviations:* SRXN = Senescence reaction (NS = non-senescent [1-2], S = senescent [3-6]); TRXN = Toxin reaction (TR = toxin resistant
9 [1-2], TS = toxin sensitive [3-6]). *Plants tested per treatment.

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- 12 **Table 3.** Average change from mock-inoculated control for disease severity index (DSI), germination, root length, hypocotyl length,
 13 and seedling weight (and relative ranks in parentheses) for a subset of twenty soybean entries.

Entry	DSI			Germination			Root length (cm)			Hypocotyl length (cm)			Seedling weight (g)		
	Cont	Inoc	$\Delta_{\text{Inoc-Cont}}$	Cont	Inoc	$\Delta_{\text{Inoc-Cont}}$	Cont	Inoc	$\Delta_{\text{Inoc-Cont}}$	Cont	Inoc	$\Delta_{\text{Inoc-Cont}}$	Cont	Inoc	$\Delta_{\text{Inoc-Cont}}$
e4394	1.57	1.83	+0.26bcd	0.75	0.78	+3.13a	5.92	5.71	-2.18ab	8.12	7.70	-0.42abcd	0.85	0.80	-0.05bcde
K16-1190	1.42	1.75	+0.33bcd	0.90	0.80	-10.58ab	9.39	6.81	-2.58ab	10.15	8.03	-2.12bcd	1.02	0.87	-0.14bcde
K16-1194	1.33	1.62	+0.29bcd	0.92	0.84	-8.00ab	10.85	7.67	-3.18ab	9.34	8.89	-0.45abcd	1.03	0.95	-0.08bcde
K16-1197	1.55	1.88	+0.33bcd	0.89	0.81	-8.31ab	8.55	6.48	-2.07ab	10.38	8.28	-2.10bcd	1.02	0.95	-0.07bcde
K16-1200	1.39	1.61	+0.22cd	0.91	0.84	-7.00ab	9.36	6.77	-2.59ab	9.72	9.21	-0.51abcd	0.83	0.85	+0.02abcd
K16-1204	1.42	1.54	+0.12d	0.95	0.94	-1.00ab	10.51	9.05	-1.46ab	8.36	11.87	+3.52a	0.78	1.03	+0.26a
K16-1228	1.31	1.41	+0.10d	0.92	0.93	-2.00ab	10.26	9.45	-1.40ab	9.34	10.62	+1.28ab	0.99	1.03	+0.04ab
K16-1233	1.25	1.90	+0.65abc	0.91	0.76	-15.38b	9.51	5.95	-3.56b	11.26	7.77	-3.49d	1.01	0.81	-0.20cde
K16-1245	1.51	1.82	+0.31bcd	0.86	0.80	-6.46ab	8.40	6.95	-1.45ab	9.12	8.07	-1.05bcd	0.96	0.87	-0.09cde
K16-1502	1.44	1.84	+0.40abcd	0.83	0.84	-1.00a	9.22	8.29	-0.92ab	9.19	7.60	-1.60bcd	1.10	0.95	-0.15bcde
K16-1503	1.29	1.41	+0.12d	0.89	0.89	± 0.00 ab	9.30	9.76	+0.46a	10.62	11.19	+0.57abc	0.88	0.93	+0.06bcde
K16-1537	1.10	1.60	+0.50abcd	0.94	0.88	-6.00ab	10.76	9.03	-1.73ab	12.01	10.89	-1.12bcd	1.18	1.07	-1.11bcde
K16-1623	1.13	1.70	+0.57abcd	0.91	0.83	-7.63ab	8.71	6.53	-2.18ab	9.10	7.77	-1.33bcd	1.12	1.03	-0.09bcde
K16-1630	0.54	1.43	+0.90a	1.00	0.93	-7.04ab	10.83	9.22	-1.61ab	12.75	9.43	-3.32cd	1.07	0.93	-0.14bcde
K16-1634	1.23	1.61	+0.38abcd	0.96	0.84	-12.00ab	10.83	7.35	-3.48ab	9.40	8.64	-0.77bcd	0.96	0.90	-0.06bcde
K16-1649	1.14	1.45	+0.31bcd	0.92	0.88	-4.00ab	11.04	9.46	-1.58ab	10.41	10.05	-0.36bc	0.96	0.95	-0.01bc
K16-1664	1.26	1.88	+0.62abcd	0.88	0.82	-6.00ab	9.60	6.33	-3.27ab	9.44	6.46	-2.98cd	1.22	0.95	-0.27e
K16-1685	1.07	1.63	+0.56abcd	0.88	0.90	+2.08a	8.94	9.00	+0.06a	10.47	10.09	-0.38abcd	1.10	1.08	-0.02bcde
K16-1690	0.88	1.64	+0.76ab	0.89	0.87	-2.00ab	10.00	9.24	-0.76ab	11.23	8.22	-3.01cd	1.21	0.96	-0.25de
K4117NS	1.01	1.60	+0.59abcd	1.00	0.94	-6.00ab	12.18	10.63	-1.55ab	11.60	12.10	+0.50abc	1.06	1.10	+0.05ab

15 **Table 4.** Average ratings for a subset of 21 commercial and public soybean varieties using the
 16 "layer-cake" assay.

Entry	"Layer-cake" rating			Damping-off 17		
	Cont	Inoc	Diff ^x	Cont	Inoc	Diff
<i>Credenz</i>						
CZ 4105 LL	1.00 ^y	5.77	+4.77	0.35	0.35	±0.00
CZ 4308 LL	1.38	3.40	+2.03	0.40	0.45	+0.05
CZ 4918 LL	1.00	3.09	+2.09	0.40	0.40	±0.00
CZ 4938 LL	1.06	4.67	+3.61	0.35	0.55	+0.20
<i>DynaGro</i>						
S43XS27	1.58	4.55	+2.97	0.30	0.50	+0.20
S46XS87	1.30	5.57	+4.27	0.10	0.25	+0.15
<i>Emerge Genetics</i>						
e4394	1.81	2.63	+0.81	0.20	0.40	+0.20
e4766s	1.08	5.65	+4.57	0.30	0.30	±0.00
e4892	1.38	2.36	+0.98	0.20	0.50	+0.30
e4993s	1.00	3.95	+2.95	0.15	0.00	-0.15
e4996	1.05	2.84	+1.79	0.00	0.10	+0.10
T4846s	1.05	4.61	+3.56	0.00	0.05	+0.05
<i>LG Seeds</i>						
C3775 RX	1.00	4.00	+3.00	0.45	0.75	+0.30
C3985 RX	1.58	5.00	+3.42	0.35	0.65	+0.30
C4227 RX	3.00	2.97	-0.03	0.60	0.60	±0.00
C4458 RX	1.50	2.63	+1.13	0.40	0.60	+0.20
C4615 RX	2.00	4.71	+2.71	0.05	0.35	+0.30
<i>Missouri</i>						
S04-9051R	1.00	4.39	+3.39	0.30	0.30	±0.00
<i>Phillips Seed</i>						
454R2YSE	1.08	1.96	+0.88	0.45	0.55	+0.10
456 R2XS	1.85	4.54	+2.69	0.15	0.45	+0.30
478 NR2XSE	2.42	4.15	+1.73	0.40	0.50	+0.10

18 ^xDiff = Average difference between inoculated and control (Inoc - Cont); ^yValues are rounded to
 19 nearest hundredths place.

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23 **Table 5.** Average ratings for a subset of 20 entries from the Kansas State University breeding
 24 program using the "layer-cake" assay.

Entry	"Layer-cake" rating			Damping-off 25		
	Cont	Inoc	Diff	Cont	Inoc	Diff
e4394	1.70 ^x	3.25	+1.55	0.12	0.08	-0.04
K16-1190	1.08	2.34	+1.26	0.08	0.08	±0.00
K16-1194	1.18	2.50	+1.31	0.28	0.12	-0.16
K16-1197	1.25	3.22	+1.97	0.12	0.12	±0.00
K16-1200	2.16	3.54	+1.38	0.20	0.04	-0.16
K16-1204	1.45	3.02	+1.57	0.16	0.08	-0.08
K16-1228	2.04	2.64	+0.60	0.12	0.12	±0.00
K16-1233	2.31	3.27	+0.96	0.16	0.08	-0.08
K16-1245	2.40	2.94	+0.54	0.04	0.04	±0.00
K16-1503	2.41	2.44	+0.03	0.12	0.04	-0.08
K16-1537	1.61	3.29	+1.68	0.08	0.12	+0.04
K16-1623	1.41	4.05	+2.64	0.08	0.04	-0.04
K16-1630	2.68	3.43	+0.75	0.04	0.28	+0.24
K16-1634	1.85	4.14	+2.29	0.04	0.20	+0.16
K16-1649	1.36	3.18	+1.82	0.04	0.04	±0.00
K16-1664	1.55	2.49	+0.95	0.08	0.20	+0.12
K16-1685	1.15	3.39	+2.24	0.12	0.08	-0.04
K16-1690	2.28	3.55	+1.27	0.12	0.12	±0.00
KS4117NS	2.89	2.41	-0.48 ^y	0.12	0.12	±0.00

47 ^xValues are rounded to nearest hundredths place; ^yInoculated values that are significantly higher
 48 ($P < 0.05$, Student's t) than control (mock-inoculated) values are considered susceptible (S); R =
 49 resistant.

50

51 **Table 6.** Field evaluation of a subset of 20 entries from the Kansas State University breeding
 52 program.

Entry	SDS severity (%), 2019					AUDPC	Resistance Designation	Yr
	20 Aug	28 Aug	3 Sep	9 Sep				
e4394	0.00 ^x	0.30	1.75	7.03	34	d	R	55
K16-1190	0.88	1.75	10.58	30.25	170	bcd	R	56
K16-1197	2.90	11.75	37.03	65.90	514	ab	S	57
K16-1200	0.88	1.48	7.05	28.15	141	bcd	R	58
K16-1204	0.00	0.88	3.23	11.13	59	d	R	59
K16-1228	1.78	2.05	7.05	23.48	134	bcd	R	60
K16-1233	6.45	23.48	50.33	74.73	716	a	S	61
K16-1285	1.45	2.05	21.20	35.80	255	bcd	R	62
K16-1245	0.30	5.28	10.58	31.13	195	bcd	R	63
K16-1502	0.00	0.30	4.08	19.35	85	cd	R	64
K16-1503	0.00	1.15	6.45	34.65	151	bcd	R	65
K16-1537	0.00	1.45	8.80	39.33	181	bcd	R	66
K16-1623	0.60	0.00	4.68	34.65	134	bcd	R	67
K16-1630	2.63	2.30	19.95	50.50	298	bcd	R	68
K16-1634	0.60	0.88	9.40	44.00	197	bcd	R	69
K16-1649	0.00	1.48	7.63	27.63	139	bcd	R	70
K16-1664	1.78	5.28	13.48	34.65	229	bcd	R	71
K16-1685	2.63	13.20	30.03	61.45	467	abc	S	72
K16-1690	0.88	1.18	7.03	14.10	96	cd	R	73
KS4117NS	0.00	0.00	1.15		14	d	R	74
								75

76 ^xValues are rounded to nearest hundredths place;

77 **TABLE 7.** Pearson correlations between variables collected during the 2019 study.

	TRXN diff	DSI	DSI diff	GERM	GERM diff	ROOT	ROOT diff	HYPO	HYPO diff	SW	SW diff	LC	LC diff	Field AUDPC
TRXN	+0.64 0.003*	+0.16 0.523	-0.14 0.560	-0.06 0.793	-0.06 0.815	-0.10 0.698	-0.30 0.216	+0.15 0.543	+0.34 0.149	-0.06 0.800	+0.11 0.655	-0.04 0.866	-0.24 0.334	-0.12 0.625
TRXN diff	--	+0.22 0.371	+0.41 0.083	-0.13 0.608	-0.16 0.523	-0.02 0.919	-0.23 0.333	-0.61 0.805	-0.18 0.471	+0.03 0.894	-0.15 0.894	-0.09 0.710	-0.27 0.276	+0.16 0.505
DSI	--	--	+0.19 0.437	-0.82 <0.0001***	-0.03 0.890	-0.78 <0.0001***	-0.47 0.042*	-0.76 0.0001**	-0.51 0.027*	-0.41 0.069~	-0.18 0.458	+0.04 0.860	+0.19 0.449	+0.36 0.132
DSI diff	--	--	--	-0.01 0.972	-0.19 0.429	+0.02 0.920	-0.14 0.555	-0.29 0.220	-0.73 0.0004**	+0.12 0.619	-0.38 0.108	+0.28 0.260	+0.01 0.957	+0.32 0.180
GERM	--	--	--	--	+0.07 0.778	+0.91 <0.0001***	+0.56 0.013*	+0.83 <0.0001***	+0.55 0.015*	+0.75 0.0001**	+0.17 0.485	-0.13 0.594	-0.27 0.279	-0.36 0.129
GERM diff	--	--	--	--	--	+0.01 0.965	+0.28 0.241	-0.12 0.635	+0.21 0.388	-0.18 0.470	+0.88 <0.0001***	-0.13 0.597	-0.13 0.598	-0.15 0.537
ROOT	--	--	--	--	--	--	+0.69 0.0012*	+0.81 <0.0001***	+0.43 0.064	+0.69 0.0008**	+0.05 0.845	-0.23 0.345	-0.39 0.106	-0.35 0.145
ROOT diff	--	--	--	--	--	--	--	+0.50 0.0285*	+0.36 0.126	+0.46 0.0472*	+0.14 0.561	-0.22 0.375	-0.23 0.360	-0.24 0.326
HYPO	--	--	--	--	--	--	--	--	+0.73 0.0004**	+0.61 0.0044**	+0.13 0.573	-0.23 0.343	-0.33 0.187	-0.26 0.278
HYPO diff	--	--	--	--	--	--	--	--	--	+0.40 0.090	+0.45 0.055~	-0.20 0.420	-0.08 0.751	-0.49 0.034*
SW	--	--	--	--	--	--	--	--	--	--	-0.13 0.579	-0.09 0.711	+0.01 0.967	-0.20 0.407
SW diff	--	--	--	--	--	--	--	--	--	--	--	-0.12 0.612	-0.14 0.582	-0.12 0.629
LC	--	--	--	--	--	--	--	--	--	--	--	--	+0.74 0.0005*	+0.16 0.526
LC diff	--	--	--	--	--	--	--	--	--	--	--	--	--	+0.19 0.460