



Table S1: Plot coordinates, crop, hailstorm dates, and p-values of classification validation with ANOVA for each plot

Crop	Storm date	N Plot	Center Lat	Center Long	p-val
Corn	January 31, 2017	1	-33.205299	-65.009164	0.011
	February 17, 2017	2	-32.326772	-62.293934	0.021
	December 16, 2017	3	-33.009968	-62.700069	0.087
		4	-32.406371	-62.161917	0.006
	February 7, 2018	5	-32.686204	-64.350499	0.031
	October 30, 2018	6	-34.188936	-61.109156	0.045
	November 10, 2018	7	-34.770423	-62.372433	0.061
	December 10, 2018	8	-32.700825	-62.615687	0.087
		9	-34.387490	-61.079722	0.015
	December 14, 2018	10	-31.671094	-59.874197	0.020
		11	-34.126362	-63.513827	0.021
	November 29, 2019	12	-34.457597	-64.729923	0.034
	November 30, 2019	13	-32.996271	-62.756340	0.054
	January 11, 2020	14	-34.780549	-62.371644	0.020
	January 14, 2020	15	-32.719953	-62.626823	0.050
Wheat	October 26, 2017	16	-34.368211	-65.395453	0.049
	September 28, 2018	17	-35.386607	-59.583204	0.050
	October 8, 2018	18	-32.194550	-61.636060	0.050
		19	-35.590805	-59.960572	0.006
	October 17, 2018	20	-35.590175	-59.922202	0.049
		21	-35.554960	-59.987288	0.048
		22	-33.024986	-62.592211	0.012
	October 29, 2018	23	-32.268886	-63.651098	0.066
		24	-32.601671	-64.067642	0.049
		25	-32.475103	-63.902846	0.006
	November 9, 2018	26	-34.465144	-60.710430	0.049
		27	-34.198640	-61.132206	0.000
		28	-34.204099	-61.064772	0.002
	November 10, 2018	29	-32.197862	-63.219415	0.041
		30	-32.754540	-62.287000	0.030
		31	-32.789441	-62.644404	0.039
	November 10, 2018	32	-32.740848	-62.488938	0.063
		33	-32.867412	-62.776591	0.049
		34	-32.807596	-62.661623	0.050
	December 10, 2018	35	-32.617377	-62.833192	0.010
		36	-34.868738	-62.441513	0.007
		37	-36.102343	-63.820670	0.038
	October 9, 2019	38	-34.353844	-61.088649	0.000
		39	-34.390083	-61.080159	0.038
		40	-34.493010	-61.294991	0.031
	October 27, 2019	41	-33.139459	-63.272869	0.010
		42	-33.246730	-62.635198	0.000
		43	-33.614839	-62.557898	0.057
	October 28, 2019	44	-34.166119	-62.343901	0.003
		45	-34.164207	-60.952369	0.011
	November 29, 2019	46	-34.390434	-61.079900	0.020
		47	-34.306445	-60.747383	0.121

Crop	Storm date	N Plot	Center Lat	Center Long	p-val
Soy	January 9, 2017	48	-32.638677	-64.092386	0.040
	January 31, 2017	49	-32.967824	-64.483151	0.024
	February 16, 2017	50	-33.084956	-64.477753	0.050
		51	-32.353273	-62.330485	0.000
		52	-32.350214	-62.329250	0.140
	February 17, 2017	53	-33.097545	-64.817274	0.065
		54	-32.483175	-62.543017	0.036
		55	-32.492017	-62.594666	0.052
		56	-32.523817	-62.512996	0.038
	March 2, 2017	57	-31.847459	-63.646987	0.060
	April 7, 2017	58	-32.547804	-64.408059	0.046
		59	-32.977758	-62.577890	0.021
	December 16, 2017	60	-33.001874	-62.713474	0.006
		61	-33.016163	-62.587023	0.038
		62	-32.870418	-62.410558	0.016
		63	-33.021379	-62.742881	0.000
		64	-33.031088	-62.720791	0.002
	December 22, 2017	65	-33.000453	-62.771634	0.000
		66	-32.990776	-62.732021	0.008
		67	-33.595336	-62.940220	0.000
		68	-33.075623	-64.740891	0.049
	January 23, 2018	69	-32.746867	-64.718491	0.001
		70	-32.670546	-64.575285	0.000
	February 7, 2018	71	-32.403914	-62.154756	0.004
	April 22, 2018	72	-34.040366	-64.701025	0.090
	December 10, 2018	73	-35.927560	-63.405558	0.000
	December 13, 2018	74	-32.283975	-64.263404	0.118
		75	-32.684861	-62.477459	0.029
	January 9, 2019	76	-32.765424	-64.446099	0.000
	February 8, 2019	77	-31.982602	-64.329757	0.118
		78	-31.593575	-64.076741	0.007
	February 10, 2019	79	-33.356226	-65.162416	0.000
	February 22, 2019	80	-31.976376	-64.142721	0.000
	February 23, 2019	81	-33.139512	-62.419691	0.153
		82	-33.138011	-62.427229	0.003
	March 3, 2019	83	-34.015054	-64.569963	0.005
		84	-33.060729	-64.677631	0.108
	March 7, 2019	85	-33.060521	-64.666871	0.020
		86	-33.746685	-60.757219	0.037
	November 29, 2019	87	-33.418501	-64.989415	0.011
	January 5, 2020	88	-33.413332	-64.947740	0.008
	January 14, 2020	89	-34.462967	-64.748919	0.106
	January 15, 2020	90	-34.562968	-64.824213	0.003
		91	-34.580741	-64.823989	0.064