

**Appendix A. 2013 and 2014 Precipitation, temperature, and growing degree-days (GDD 86/50) data for 2013–14 yield potential locations. The closest station with data for sites in northern Clinton County is the one in Peru.**

Month		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Lewis Co. (Sta. 304912, LOWVILLE)													
Precipitation	2013	2.77	2.65	2.02	3.17	2.28	5.19	5.18	2.20	2.80	2.46	7.01	4.60
	2014	3.45	2.28	2.80	2.92	3.55	5.20	4.35	3.94	1.79	3.96	2.96	2.23
	30-yr	3.17	2.46	2.78	3.19	3.47	3.43	3.38	3.88	3.87	4.26	3.85	3.77
Temperature	2013	19.7	18.7	27.0	40.8	56.4	62.4	69.7	64.3	55.9	48.3	31.4	21.3
	2014	12.2	16.5	18.5	42.0	56.1	63.7	65.9	64.0	57.9	50.2	33.0	28.0
	30-yr	17.4	19.1	28.7	42.5	54.0	63.2	67.4	66.0	57.9	46.5	35.9	23.6
Growing Degree Days	2013	4	0	0	82	322	402	619	466	305	172	26	4
	2014	0	0	0	96	302	435	509	453	340	167	22	2
	30-yr	2	2	23	95	260	432	551	517	324	130	35	4
Jefferson Co. (Sta. 309005, WATERTOWN INTL AP)													
Precipitation	2013	2.20	2.11	0.99	3.70	1.64	6.04	3.06	2.10	2.81	4.57	3.15	2.42
	2014	3.69	3.41	2.11	5.93	3.46	2.91	5.04	5.72	1.59	3.63	2.76	1.72
	30-yr	2.71	2.17	2.39	2.99	3.08	2.77	2.70	3.05	3.69	3.67	3.71	3.34
Temperature	2013	25.8	21.6	32.3	43.8	58.1	63.8	71.6	67.1	58.7	51.4	35.2	24.0
	2014	16.5	17.0	22.6	44.2	57.0	66.5	68.1	67.1	60.7	53.6	39.3	32.8
	30-yr	20.0	21.2	31.0	43.9	54.9	63.7	68.8	67.4	59.7	48.6	38.3	26.4
Growing Degree Days	2013	18	0	12	120	357	448	674	547	371	210	40	5
	2014	4	0	0	113	309	525	569	543	392	230	50	17
	30-yr	5	3	32	112	277	448	594	559	368	157	48	7
St. Lawrence Co. (Sta. 301185, CANTON 4 SE)													
Precipitation	2013	1.58	2.20	0.27	2.50	3.69	7.43	3.11	2.31	N/A	2.65	3.84	3.17
	2014	2.17	2.09	3.34	2.74	4.50	N/A	N/A	4.88	2.69	3.47	1.70	2.11
	30-yr	2.13	1.80	2.23	2.98	3.14	3.41	3.82	3.60	4.29	4.14	3.16	2.66
Temperature	2013	21.0	19.1	30.0	44.6	57.6	63.6	69.7	66.6	57.0	51.0	32.6	19.3
	2014	15.7	17.0	19.5	43.2	56.6	66.3	N/A	65.6	60.2	51.5	35.0	27.1
	30-yr	16.6	18.5	28.8	43.2	55.0	64.4	68.7	67.1	58.9	47.3	36.5	23.7
Growing Degree Days	2013	21	0	7	141	344	441	626	536	315	223	27	8
	2014	2	0	0	96	292	511	N/A	495	376	189	33	7
	30-yr	4	3	26	106	275	464	592	551	352	145	43	6
St. Lawrence Co. (Sta. 305134, MASSENA INTL AP)													
Precipitation	2013	1.44	0.87	0.48	1.78	3.81	7.61	3.59	3.61	5.44	2.66	2.66	1.64
	2014	1.46	1.28	0.91	4.17	2.12	4.93	5.47	5.14	1.21	2.04	1.45	0.98
	30-yr	2.15	1.67	2.10	2.92	3.18	3.52	3.53	3.40	3.55	3.27	2.87	2.49
Temperature	2013	18.9	19.0	29.9	42.8	57.7	63.4	70.4	66.6	57.6	49.3	32.4	17.7
	2014	12.2	15.3	18.6	41.5	56.6	66.3	67.5	66.2	59.1	51.4	35.7	26.7
	30-yr	15.8	18.2	29.0	44.0	55.9	65.0	69.7	67.5	59.2	47.3	36.2	22.7
Growing Degree Days	2013	11	0	4	110	353	437	636	531	330	193	36	2
	2014	1	0	0	77	296	505	549	514	363	181	28	2
	30-yr	3	2	24	111	297	474	613	556	352	140	37	4
Franklin Co. (Sta. 304996, MALONE)													
Precipitation	2013	1.61	1.77	0.84	2.33	5.18	8.66	3.74	2.72	6.03	1.97	3.90	3.66
	2014	1.57	1.73	3.02	4.13	4.56	5.54	4.13	3.95	3.52	3.11	1.81	2.92
	30-yr	2.23	1.85	2.26	3.03	3.29	3.98	4.16	4.40	4.01	4.04	3.14	2.77
Temperature	2013	18.5	17.3	27.4	40.8	57.2	62.0	68.6	64.6	56.6	48.8	31.1	17.2
	2014	13.4	15.5	16.7	41.0	55.2	64.0	66.5	64.5	58.4	49.7	33.3	25.6
	30-yr	15.2	17.1	26.8	41.4	53.8	63.1	67.5	65.6	57.8	46.0	35.0	22.0
Growing Degree Days	2013	13	0	4	87	316	390	587	468	289	170	25	2
	2014	1	0	0	79	262	432	515	462	339	161	26	4
	30-yr	3	2	20	84	245	422	551	502	310	117	33	5
Clinton Co. (Sta. 306538, PERU 2 WSW)													
Precipitation	2013	0.86	1.11	1.03	1.63	6.38	10.14	3.71	1.66	2.91	2.06	2.36	N/A
	2014	0.82	N/A	3.68	1.97	3.57	4.65	4.30	2.93	0.46	2.34	0.84	2.24
	30-yr	1.38	1.28	1.78	2.59	2.82	3.55	3.52	3.60	2.82	3.22	2.54	2.22
Temperature	2013	19.5	22.0	32.0	44.8	58.5	65.2	71.4	67.4	60.0	50.2	34.0	21.6
	2014	15.7	18.4	22.2	45.0	57.4	66.4	68.6	66.5	61.4	51.7	35.4	27.9
	30-yr	19.2	22.4	31.6	44.9	56.6	66.0	70.3	68.5	60.5	48.3	37.5	25.9
Growing Degree Days	2013	7	0	7	135	378	474	658	550	372	196	31	2
	2014	0	0	0	127	321	509	582	521	410	195	30	1
	30-yr	4	3	31	125	314	500	628	581	377	155	41	5

The 30-year average is for years 1983–2012. N/A means no data available.

\*No close station with data for these sites in northern Clinton County – closest station with current data is the one in Peru, in southern part of the county.

**Appendix B. Cumulative departure from normal of total precipitation, average temperature, and number of growing degree days (GDD) for sites in the 2013 and 2014 Yield Potential Study, reflecting the corn growing season from May through September or October harvest .**

		Cumulative departure from normal May through September					
		Total precipitation (inches)		Ave temperature (°F)		Number of GDD (86/50)	
County	Site Sta.	2013	2014	2013	2014	2013	2014
Lewis	Lowville	-0.4	0.8	0.2	-0.9	30	-45
Jefferson	Watertown Intl AP <sup>†</sup>	0.4	3.4	4.8	4.9	151	92
St. Lawrence	Canton	2.6*	1.0*	0.4	3.3*	28	32*
St. Lawrence	Massena Intl AP <sup>†</sup>	6.9	1.7	-1.6	-1.6	-5	-65
Franklin	Malone <sup>†</sup>	6.5	1.9	1.2	0.8	20	-20
Clinton	Peru	8.5	-0.4	0.6	-1.6	32	-57
		Cumulative departure from normal May through October					
		Total precipitation (inches)		Ave temperature (°F)		Number of GDD (86/50)	
County	Site Sta.	2013	2014	2013	2014	2013	2014
Lewis	Lowville	-2.18	0.50	2.0	2.8	72	-8
Jefferson	Watertown Intl AP <sup>†</sup>	1.26	3.39	7.6	9.9	204	165
St. Lawrence	Canton	1.08*	0.37*	4.1	7.5*	106	76*
St. Lawrence	Massena Intl AP <sup>†</sup>	6.27	0.46	0.4	2.5	48	-24
Franklin	Malone <sup>†</sup>	4.42	0.93	4.0	4.5	73	24
Clinton	Peru	7.33	-1.28	2.5	1.8	73	-17

\*Canton station missing precipitation data for September 2013; June and July 2014; also missing average temperature and GDDs for July 2014. GDDs departure from norm for July 2014 in nearby Massena was -64 and significantly negative at all other sites in July (-25 to -46) so Canton likely had significantly lower departure for 2014 growing season than as indicated in this table.

† No Yield Potential study results sites from this county or weather station area in 2014, only in 2013.