

Ecography

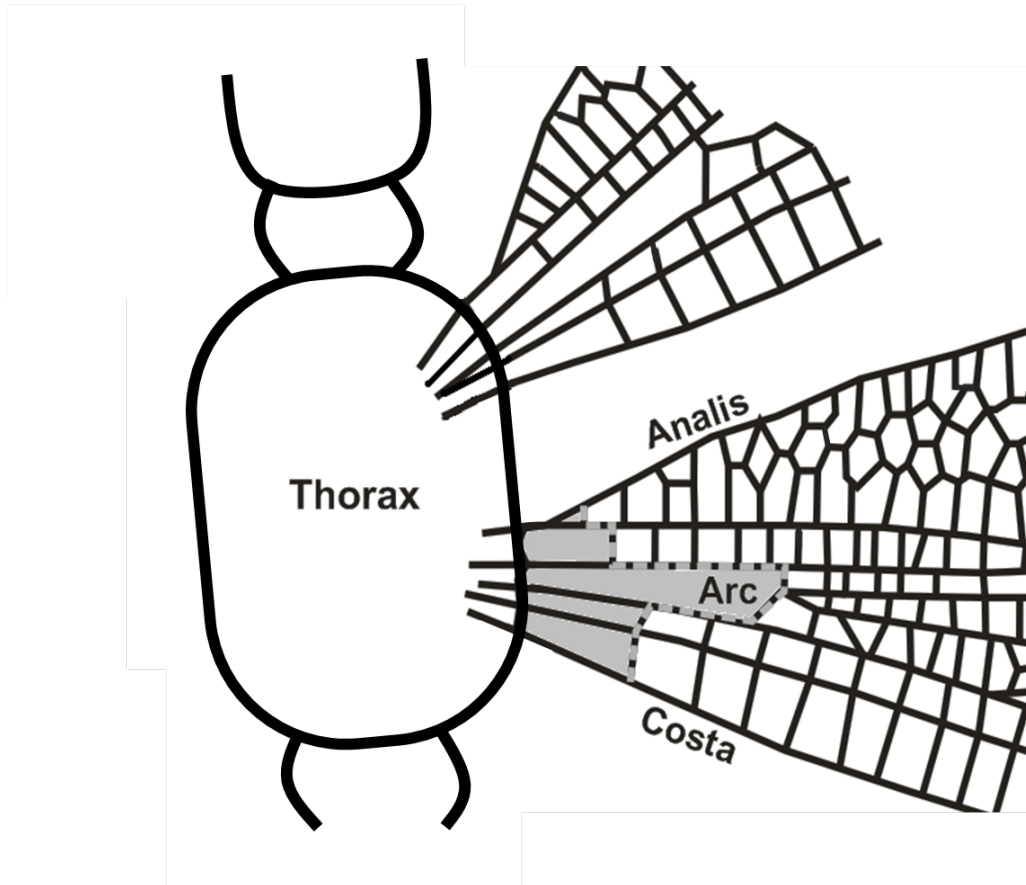
**ECOG-00018**

Hassall, C. 2013. Time stress and temperature explain continental variation in damselfly body size. – *Ecography* 36: xxx–xxx.

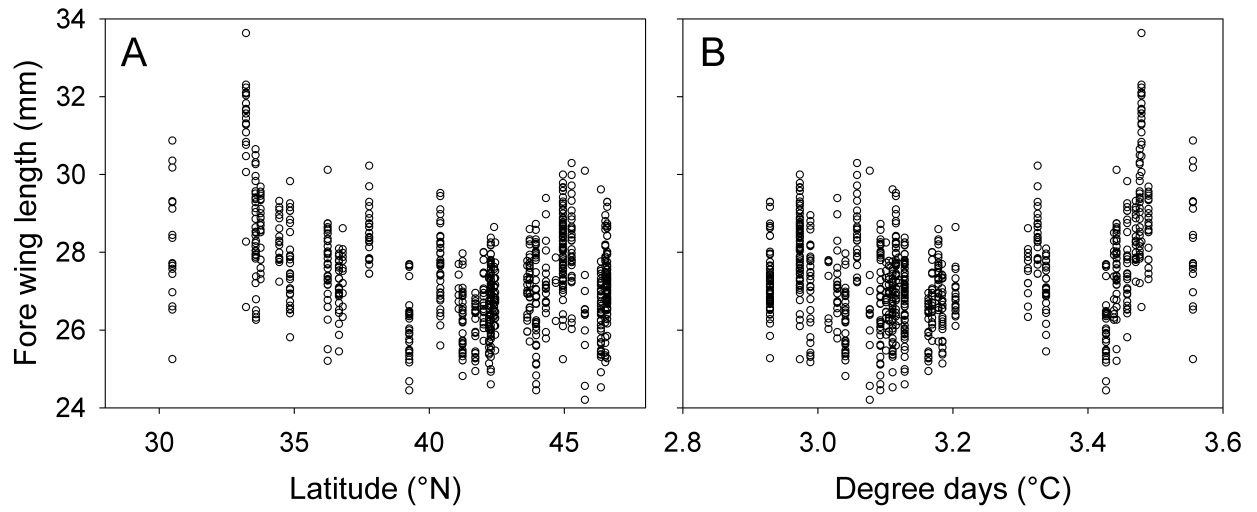
**Supplementary material**

## Appendix 1

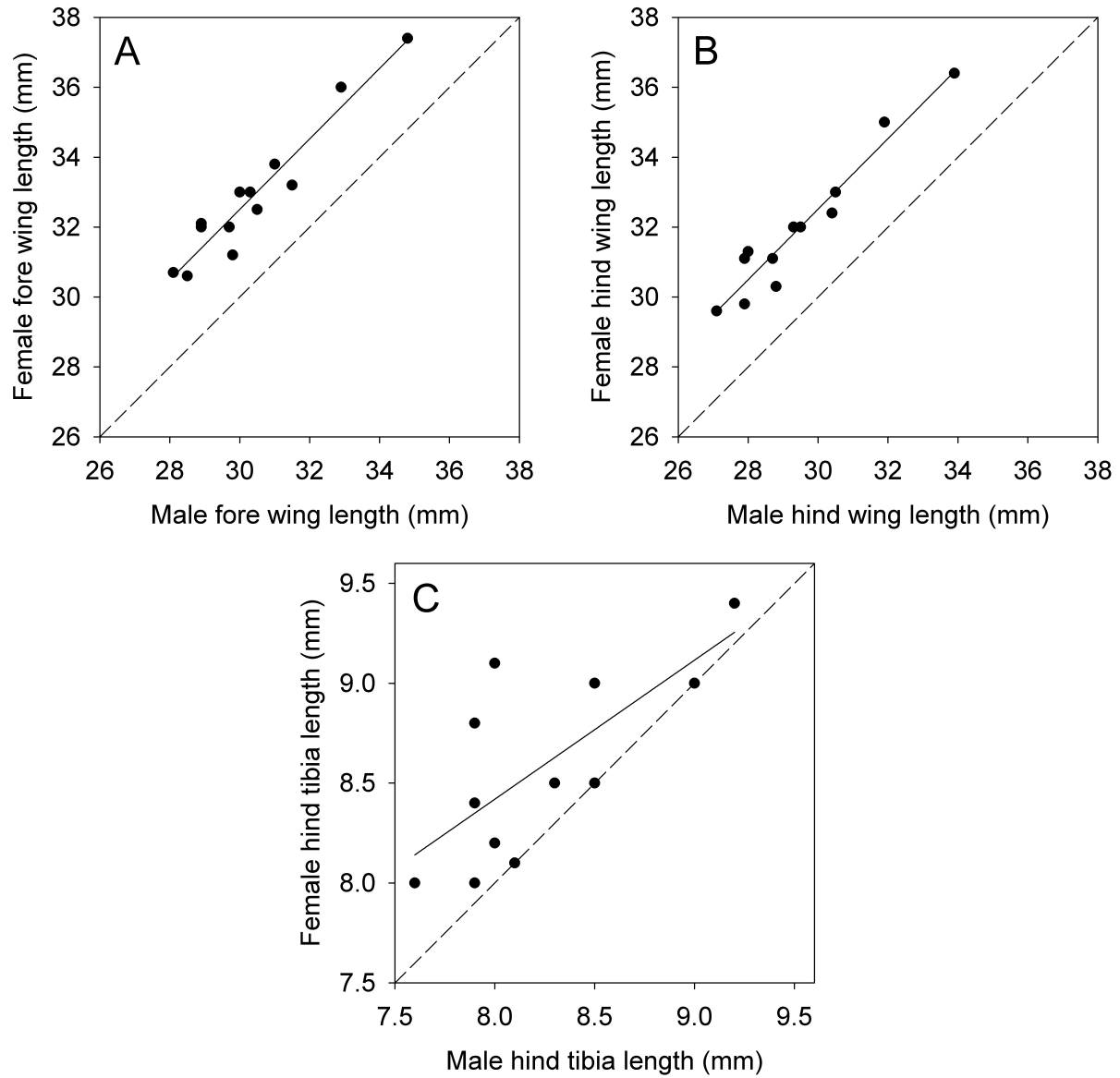
**Figure A1** – Dorsal drawing of *C. maculata* showing regions of the wing omitted from measurements (redrawn from Hassall and Thompson (2009)). Arc=arculus.



**Figure A2** – Raw plot of body size measurements (length of the right fore wing in mm) of male *Calopteryx maculata* at 34 sites across the USA and Canada (see main text for details).



**Figure A3** – A comparison of variation in male and female body size measurements in *Calopteryx maculata* as a test of Rensch's rule.



**Table A1** - Individual measurements for specimens of male *Calopteryx maculata*, and date of collection (days since 1 January). See Table 1 for locations and characteristics of sites.

Specimen	Site	Fore wing length (mm)	Hind wing length (mm)	Hind tibia length (mm)	Date
QC_A_02	QC_A	27.413	26.090	8.022	176
QC_A_03	QC_A	26.431	25.495	7.845	176
QC_A_04	QC_A	25.988	25.161	7.722	176
QC_A_06	QC_A	25.613	24.440	7.626	176
QC_A_07	QC_A	26.388	24.826	7.583	176
QC_A_08	QC_A	30.096	28.549	8.256	176
QC_A_09	QC_A	26.535	25.576	8.085	176
QC_A_10	QC_A	27.002	25.981	8.409	176
QC_A_11	QC_A	25.988	24.835	7.599	176
QC_A_12	QC_A	24.206	23.318	7.371	176
QC_A_13	QC_A	26.522	25.597	7.642	176
QC_A_15	QC_A	24.564	23.805	7.314	176
QC_A_16	QC_A	26.398	25.526	7.375	176
QC_B_01	QC_B	27.768	26.537	7.997	178
QC_B_02	QC_B	25.415	24.678	7.335	178
QC_B_03	QC_B	27.469	26.300	8.063	178
QC_B_04	QC_B	27.284	26.375	8.370	178
QC_B_05	QC_B	25.174	24.099	7.856	178
QC_B_06	QC_B	27.637	26.367	6.994	178
QC_B_07	QC_B	25.814	25.218	6.960	178
QC_B_08	QC_B	27.490	26.680	7.693	178
QC_B_09	QC_B	28.680	27.961	8.241	178
QC_B_11	QC_B	28.197	27.193	8.531	178
QC_B_12	QC_B	26.293	25.180	7.533	178
QC_B_13	QC_B	25.309	24.556	7.196	178
QC_B_14	QC_B	27.007	25.931	8.870	178
QC_B_15	QC_B	26.511	25.420	8.266	178
QC_B_16	QC_B	27.104	25.790	7.413	178
QC_B_17	QC_B	25.666	24.714	7.572	178
QC_B_18	QC_B	26.792	25.701	7.978	178
QC_B_19	QC_B	26.194	25.032	7.248	178
QC_B_20	QC_B	25.347	24.414	7.815	178
QC_B_22	QC_B	27.841	26.393	9.032	178
QC_B_23	QC_B	27.787	26.989	8.503	178
QC_B_25	QC_B	27.487	26.652	8.092	178
QC_B_26	QC_B	28.160	27.205	8.227	178
QC_B_27	QC_B	28.951	27.999	8.547	178
QC_B_28	QC_B	28.172	27.106	8.527	178

QC_B_29	QC_B	28.800	27.179	8.769	178
QC_B_30	QC_B	27.129	26.080	8.191	178
QC_B_31	QC_B	28.586	27.837	8.576	178
QC_B_32	QC_B	27.884	27.053	8.427	178
QC_B_33	QC_B	27.386	26.073	7.664	178
VT_C_01	VT_C	26.727	25.785	7.686	185
VT_C_02	VT_C	26.121	25.177	8.000	185
VT_C_03	VT_C	25.648	24.735	7.684	185
VT_C_04	VT_C	26.395	25.272	7.306	185
VT_C_05	VT_C	25.481	24.899	8.105	185
VT_C_06	VT_C	26.916	25.946	7.959	185
VT_C_07	VT_C	29.615	28.472	8.913	185
VT_C_08	VT_C	27.567	26.293	8.349	185
VT_C_09	VT_C	26.737	25.832	8.438	185
VT_C_10	VT_C	24.912	24.084	7.644	185
VT_C_11	VT_C	27.762	27.105	8.270	185
VT_C_12	VT_C	27.149	25.899	8.462	185
VT_C_01	VT_C	25.375	24.577	7.413	187
VT_C_02	VT_C	25.312	24.700	7.111	187
VT_C_03	VT_C	27.007	25.911	8.631	187
VT_C_04	VT_C	26.621	25.886	7.675	187
VT_C_05	VT_C	27.044	25.943	7.887	187
VT_C_06	VT_C	25.365	24.719	7.258	187
VT_C_07	VT_C	27.203	26.241	7.881	187
VT_C_08	VT_C	25.437	24.631	7.674	187
VT_C_01	VT_C	27.322	26.581	7.724	199
VT_C_02	VT_C	25.460	24.725	6.905	199
VT_C_03	VT_C	26.736	26.139	7.876	199
VT_C_04	VT_C	25.780	24.904	8.343	199
VT_C_05	VT_C	25.686	24.613	7.010	199
VT_C_06	VT_C	26.255	25.515	7.634	199
VT_C_07	VT_C	26.677	25.704	7.524	199
VT_C_08	VT_C	27.447	26.534	8.429	199
VT_C_09	VT_C	27.517	26.678	7.269	199
VT_C_10	VT_C	26.465	25.799	7.432	199
VT_C_11	VT_C	25.984	25.045	8.013	199
VT_C_12	VT_C	26.529	25.604	7.393	199
VT_C_13	VT_C	26.442	25.502	7.920	199
VT_C_14	VT_C	26.990	26.162	7.855	199
VT_C_15	VT_C	26.237	24.963	7.937	199
VT_C_16	VT_C	27.248	26.212	7.724	199
VT_C_17	VT_C	26.615	25.621	7.924	199
VT_C_18	VT_C	27.208	25.799	7.621	199

VT_C_19	VT_C	26.841	25.838	7.986	199
VT_C_20	VT_C	24.526	23.446	7.484	199
VT_C_21	VT_C	26.040	25.122	8.485	199
VT_C_22	VT_C	26.430	25.562	7.699	199
ON_E_01	ON_E	28.869	27.807	8.880	171
ON_E_02	ON_E	27.263	26.549	8.781	171
ON_E_03	ON_E	28.493	27.387	8.453	171
ON_E_04	ON_E	28.692	27.420	9.420	171
ON_E_05	ON_E	27.424	26.242	8.020	171
ON_E_06	ON_E	28.288	27.042	9.161	171
ON_E_07	ON_E	29.997	29.047	8.477	171
ON_E_08	ON_E	28.609	27.610	8.943	171
ON_E_09	ON_E	28.066	27.315	8.725	171
ON_E_10	ON_E	28.587	27.415	8.936	171
ON_E_11	ON_E	28.990	28.129	9.359	171
ON_E_12	ON_E	28.383	27.330	9.335	171
ON_E_13	ON_E	28.199	27.022	9.281	171
ON_E_14	ON_E	28.396	27.217	8.658	171
ON_E_15	ON_E	27.295	26.420	8.545	171
ON_E_16	ON_E	27.587	26.799	8.816	171
ON_E_17	ON_E	29.411	28.491	9.195	171
ON_E_18	ON_E	28.107	26.862	8.890	171
ON_E_19	ON_E	28.377	27.203	8.909	171
ON_E_20	ON_E	28.031	27.110	8.567	171
ON_E_21	ON_E	28.279	27.132	8.103	171
ON_E_22	ON_E	27.760	26.387	8.720	171
ON_E_23	ON_E	28.141	27.091	8.735	171
ON_E_24	ON_E	26.768	25.652	8.472	171
ON_E_25	ON_E	28.887	27.696	8.610	171
ON_E_26	ON_E	26.405	25.553	9.236	171
ON_E_27	ON_E	27.820	26.920	9.254	171
ON_E_28	ON_E	27.029	25.907	8.680	171
ON_E_29	ON_E	28.528	27.432	9.498	171
ON_E_30	ON_E	28.534	27.499	8.484	171
ON_E_31	ON_E	29.070	27.971	9.460	171
ON_E_32	ON_E	28.738	27.807	8.970	171
ON_E_33	ON_E	26.957	25.900	8.771	171
ON_E_01	ON_E	27.457	26.523	8.433	171
ON_E_02	ON_E	27.815	26.599	8.465	171
ON_E_03	ON_E	27.282	25.892	8.599	171
ON_E_04	ON_E	29.655	28.272	9.174	171
ON_E_05	ON_E	27.895	26.943	8.728	171
ON_E_06	ON_E	28.481	27.364	9.386	171

ON_E_07	ON_E	27.870	26.829	8.250	171
ON_E_08	ON_E	28.369	27.340	8.732	171
ON_E_09	ON_E	27.083	26.313	7.626	171
ON_E_10	ON_E	28.056	26.650	8.586	171
ON_E_11	ON_E	27.765	26.628	8.906	171
ON_E_12	ON_E	27.155	26.237	8.327	171
ON_E_13	ON_E	27.029	26.055	8.022	171
ON_E_14	ON_E	27.530	26.426	8.620	171
ON_E_15	ON_E	28.086	27.010	8.996	171
ON_E_16	ON_E	28.739	27.506	8.163	171
ON_E_17	ON_E	28.421	27.073	8.905	171
ON_E_18	ON_E	28.879	27.337	9.215	171
ON_E_19	ON_E	28.657	27.539	9.174	171
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ON_E_21	ON_E	28.834	27.316	9.112	171
ON_E_22	ON_E	28.475	27.188	8.721	171
ON_E_23	ON_E	28.374	27.201	9.064	171
ON_E_24	ON_E	27.665	26.465	8.923	171
ON_E_25	ON_E	27.654	26.462	8.993	171
ON_E_26	ON_E	27.168	26.171	8.830	171
ON_E_27	ON_E	28.721	27.353	8.769	171
ON_E_28	ON_E	27.328	26.111	8.835	171
ON_E_29	ON_E	26.263	24.828	8.162	171
ON_E_30	ON_E	27.698	26.712	8.823	171
ON_E_31	ON_E	27.518	26.301	8.752	171
ON_E_01	ON_E	28.420	27.414	8.963	172
ON_E_02	ON_E	28.078	26.871	8.797	172
ON_E_03	ON_E	28.069	26.948	9.109	172
ON_E_04	ON_E	27.570	26.327	9.228	172
ON_E_05	ON_E	29.572	28.561	9.788	172
ON_E_06	ON_E	28.593	27.743	9.077	172
ON_E_07	ON_E	28.109	27.257	8.992	172
ON_E_08	ON_E	27.138	26.270	8.171	172
ON_E_09	ON_E	29.094	27.744	9.260	172
ON_E_10	ON_E	29.780	28.463	9.399	172
ON_E_11	ON_E	29.672	28.486	9.011	172
ON_E_12	ON_E	29.196	27.947	9.367	172
ON_E_13	ON_E	28.421	27.351	8.565	172
ON_E_14	ON_E	28.697	27.622	8.800	172
ON_E_15	ON_E	28.994	27.858	9.424	172
ON_E_16	ON_E	28.774	27.803	9.245	172
ON_E_17	ON_E	27.661	26.385	9.045	172
ON_E_18	ON_E	25.250	24.436	8.590	172



ON_E_19	ON_E	29.302	28.034	9.318	172
ON_E_20	ON_E	26.100	25.046	8.447	172
ON_H_01	ON_H	27.660	26.477	8.303	175
ON_H_02	ON_H	27.751	26.429	8.235	175
ON_H_03	ON_H	27.095	26.001	8.278	175
ON_H_04	ON_H	27.308	26.201	8.050	175
ON_H_05	ON_H	27.149	25.978	8.075	175
ON_H_06	ON_H	27.002	25.831	8.050	175
ON_H_07	ON_H	27.182	26.109	8.174	175
ON_H_08	ON_H	26.512	25.594	8.018	175
ON_H_09	ON_H	28.629	27.663	8.358	175
ON_H_10	ON_H	26.411	25.307	7.794	175
ON_H_11	ON_H	27.751	26.385	8.182	175
ON_H_12	ON_H	27.245	26.242	8.123	175
ON_H_13	ON_H	26.718	25.667	7.969	175
ON_H_14	ON_H	28.735	27.577	8.863	175
ON_H_15	ON_H	27.030	25.642	8.393	175
ON_H_16	ON_H	26.394	25.452	7.773	175
ON_H_17	ON_H	27.423	26.301	8.398	175
ON_H_20	ON_H	27.131	25.866	8.449	175
ON_H_21	ON_H	26.800	25.658	7.870	175
ON_H_22	ON_H	26.954	25.814	8.994	175
ON_H_23	ON_H	26.576	25.570	8.086	175
ON_H_24	ON_H	27.417	26.473	8.062	175
ON_H_25	ON_H	27.546	26.271	8.011	175
ON_H_26	ON_H	27.964	26.898	8.122	175
ON_H_27	ON_H	25.847	25.683	8.690	175
ON_H_28	ON_H	26.811	25.579	7.577	175
ON_H_29	ON_H	26.843	25.493	8.156	175
ON_H_30	ON_H	29.167	27.903	9.416	175
ON_H_31	ON_H	26.681	25.860	8.332	175
ON_H_01	ON_H	26.527	25.613	8.661	177
ON_H_02	ON_H	28.424	27.107	8.502	177
ON_H_03	ON_H	28.417	27.440	8.323	177
ON_H_04	ON_H	27.158	26.298	8.344	177
ON_H_05	ON_H	26.165	25.102	7.986	177
ON_H_06	ON_H	27.328	26.446	8.413	177
ON_H_07	ON_H	27.559	26.388	8.496	177
ON_H_08	ON_H	26.280	25.289	7.611	177
ON_H_09	ON_H	25.273	24.308	7.758	177
ON_H_10	ON_H	27.339	26.409	8.098	177
ON_H_11	ON_H	26.916	25.919	7.910	177
ON_H_12	ON_H	28.671	27.509	9.232	177

ON_H_13	ON_H	26.669	25.741	8.524	177
ON_H_14	ON_H	27.461	26.428	9.037	177
ON_H_15	ON_H	27.380	26.159	8.435	177
ON_H_16	ON_H	29.296	28.066	8.311	177
ON_H_17	ON_H	29.289	28.240	7.800	177
ON_H_18	ON_H	28.620	27.653	8.440	177
ON_H_19	ON_H	26.558	25.783	7.791	177
ON_H_20	ON_H	27.018	26.094	7.709	177
ON_H_21	ON_H	27.635	26.549	8.152	177
ON_H_22	ON_H	26.399	25.177	7.692	177
ON_H_23	ON_H	26.778	25.786	8.328	177
ON_H_24	ON_H	27.294	26.502	8.482	177
ON_H_25	ON_H	27.267	26.090	8.743	177
ON_H_26	ON_H	27.941	26.852	8.760	177
ON_H_27	ON_H	28.013	26.848	8.201	177
ON_H_28	ON_H	26.739	25.649	7.905	177
ON_H_29	ON_H	27.637	26.511	8.468	177
ON_H_30	ON_H	26.753	25.734	8.153	177
ON_H_31	ON_H	26.685	25.452	7.738	177
ON_A_01	ON_A	29.071	27.987	8.022	151
ON_A_02	ON_A	28.297	27.026	7.909	151
ON_A_03	ON_A	29.715	28.514	8.278	151
ON_A_04	ON_A	28.842	27.701	8.126	151
ON_A_05	ON_A	28.614	27.700	8.533	151
ON_A_06	ON_A	29.505	28.472	8.712	151
ON_A_07	ON_A	28.454	27.143	7.708	151
ON_A_08	ON_A	28.376	27.335	8.084	151
ON_A_09	ON_A	27.980	26.691	8.120	151
ON_A_10	ON_A	28.074	26.817	7.739	151
ON_A_11	ON_A	28.922	27.676	8.098	151
ON_A_12	ON_A	27.262	26.129	7.772	151
ON_A_13	ON_A	27.669	26.568	7.886	151
ON_A_14	ON_A	28.577	27.331	8.306	151
ON_A_15	ON_A	29.985	28.338	8.470	151
ON_A_16	ON_A	27.226	26.169	8.202	151
ON_A_17	ON_A	30.294	29.099	7.691	151
ON_A_18	ON_A	27.347	26.399	7.585	151
ON_A_19	ON_A	27.892	26.840	8.002	151
ON_A_20	ON_A	29.321	27.998	8.296	151
ON_A_21	ON_A	28.654	26.976	7.939	151
ON_A_22	ON_A	27.861	26.841	7.430	151
ON_A_23	ON_A	28.308	27.280	7.935	151
ON_F_01	ON_F	28.976	27.926	7.800	166

ON_F_02	ON_F	28.042	27.039	7.995	166
ON_F_03	ON_F	27.058	26.022	7.713	166
ON_F_04	ON_F	26.938	25.897	7.447	166
ON_F_05	ON_F	25.781	24.782	7.390	166
ON_F_06	ON_F	26.432	25.180	7.577	166
ON_F_07	ON_F	26.558	25.440	7.953	166
ON_F_08	ON_F	26.736	25.978	7.677	166
ON_F_09	ON_F	27.087	26.117	7.618	166
ON_F_10	ON_F	27.145	26.162	7.893	166
ON_F_11	ON_F	28.296	27.148	8.044	166
ON_F_12	ON_F	27.599	26.476	7.644	166
ON_F_13	ON_F	27.161	26.121	7.631	166
ON_F_14	ON_F	29.392	28.109	8.373	166
ON_F_15	ON_F	27.450	26.390	8.431	166
ON_F_16	ON_F	26.714	25.784	7.938	166
ON_F_17	ON_F	26.696	25.674	7.593	166
ON_F_18	ON_F	26.707	25.751	7.948	166
ON_F_19	ON_F	25.947	24.810	7.241	166
ON_F_20	ON_F	27.250	25.985	8.357	166
ON_C_02	ON_C	27.991	27.022	8.226	159
ON_C_03	ON_C	28.329	27.181	8.917	159
ON_C_04	ON_C	28.573	27.455	8.551	159
ON_C_05	ON_C	27.058	25.800	8.027	159
ON_C_06	ON_C	28.258	26.960	8.660	159
ON_C_07	ON_C	27.797	26.309	8.417	159
ON_C_08	ON_C	27.918	26.757	7.482	159
ON_C_09	ON_C	26.683	25.724	8.143	159
ON_C_10	ON_C	28.258	27.062	9.114	159
ON_C_11	ON_C	27.486	26.031	8.685	159
ON_C_12	ON_C	28.192	26.761	8.190	159
ON_C_13	ON_C	27.864	26.634	8.829	159
ON_C_14	ON_C	27.978	26.644	8.151	159
ON_C_15	ON_C	27.282	25.887	8.286	159
ON_C_16	ON_C	26.152	25.249	8.469	159
ON_C_17	ON_C	28.216	26.804	8.658	159
ON_C_19	ON_C	27.964	26.808	8.571	159
ON_C_20	ON_C	28.020	26.794	8.563	159
ON_C_21	ON_C	28.183	27.018	8.815	159
ON_C_22	ON_C	28.728	27.877	8.265	159
MI_01	MI	26.767	26.112	7.428	170
MI_02	MI	26.935	26.052	7.371	170
MI_03	MI	27.625	26.753	7.898	170
MI_04	MI	26.850	25.989	7.055	170

MI_05	MI	27.091	26.133	7.638	170
MI_08	MI	27.327	26.323	7.627	170
MI_09	MI	27.101	25.700	7.417	170
MI_10	MI	26.506	25.713	7.194	170
MI_11	MI	26.641	25.746	7.487	170
MI_12	MI	26.790	26.142	7.553	170
MI_13	MI	26.583	25.884	7.699	170
MI_01	MI	26.350	25.276	7.246	177
MI_02	MI	27.130	26.130	7.706	177
MI_03	MI	28.648	27.271	7.959	177
MI_04	MI	27.326	26.323	7.402	177
MI_05	MI	27.570	26.879	7.957	177
MI_06	MI	26.105	25.209	7.834	177
MI_08	MI	26.626	25.814	7.409	177
MI_09	MI	26.389	25.333	7.756	177
MI_10	MI	26.935	26.212	7.515	177
MI_11	MI	26.501	25.451	7.500	177
NE_C_01	NE_C	26.496	25.371	7.351	172
NE_C_02	NE_C	25.927	25.066	6.324	172
NE_C_03	NE_C	24.944	24.333	7.207	172
NE_C_04	NE_C	25.192	24.315	7.154	172
NE_C_05	NE_C	25.274	24.480	7.492	172
NE_C_06	NE_C	26.505	25.332	7.469	172
NE_C_07	NE_C	25.840	24.701	7.128	172
NE_C_08	NE_C	26.288	25.421	7.669	172
NE_C_10	NE_C	25.404	24.263	7.240	172
NE_C_11	NE_C	25.447	24.360	7.400	172
NE_C_12	NE_C	25.271	24.035	7.395	172
NE_C_14	NE_C	26.600	25.495	7.291	172
NE_C_15	NE_C	25.302	24.318	6.992	172
NE_C_16	NE_C	26.484	25.413	7.207	172
NE_C_17	NE_C	25.951	25.048	7.022	172
NE_C_18	NE_C	25.400	24.445	6.960	172
NE_C_19	NE_C	26.682	25.742	7.564	172
NE_C_20	NE_C	26.954	26.211	7.139	172
NE_C_21	NE_C	26.669	25.688	7.500	172
NE_C_22	NE_C	26.812	25.604	7.197	172
NE_C_23	NE_C	26.454	25.595	6.968	172
NE_C_24	NE_C	26.438	25.316	7.541	172
NE_C_25	NE_C	26.738	25.604	7.259	172
NE_A_01	NE_A	26.897	26.143	7.761	181
NE_A_02	NE_A	26.732	25.427	7.241	181
NE_A_03	NE_A	27.697	26.560	7.879	181

NE_A_04	NE_A	26.542	25.474	7.696	181
NE_A_05	NE_A	27.423	26.806	7.516	181
NE_A_06	NE_A	27.070	26.391	7.602	181
NE_B_01	NE_B	26.985	26.237	7.427	182
NE_B_02	NE_B	26.257	25.214	7.452	182
NE_B_03	NE_B	25.426	24.702	7.688	182
NE_B_04	NE_B	26.219	25.581	7.775	182
NE_B_05	NE_B	25.221	24.085	6.943	182
NE_B_06	NE_B	25.391	25.045	6.970	182
NE_B_07	NE_B	25.664	25.024	7.725	182
NE_B_08	NE_B	25.217	24.067	6.953	182
NE_B_09	NE_B	27.679	26.796	7.776	182
NE_B_10	NE_B	26.404	25.804	7.345	182
NE_B_11	NE_B	27.770	26.903	7.757	182
NE_B_12	NE_B	25.730	24.853	7.524	182
NE_B_13	NE_B	25.915	25.139	7.242	182
NE_B_14	NE_B	25.630	24.878	7.331	182
NE_B_15	NE_B	26.503	25.630	7.197	182
NE_B_16	NE_B	25.705	24.892	7.549	182
NE_B_17	NE_B	26.510	25.606	7.737	182
NE_B_18	NE_B	25.417	24.566	7.476	182
NE_B_19	NE_B	27.083	26.397	7.337	182
NE_B_20	NE_B	26.903	25.942	7.573	182
NE_B_21	NE_B	26.718	25.878	7.374	182
NE_B_22	NE_B	26.873	25.658	8.280	182
NE_B_23	NE_B	25.475	24.717	7.080	182
NE_B_24	NE_B	24.818	24.204	7.219	182
NE_B_25	NE_B	27.970	26.865	8.672	182
NE_B_26	NE_B	26.505	25.437	7.382	182
NE_B_27	NE_B	26.948	26.030	7.176	182
NE_B_28	NE_B	25.326	24.762	7.056	182
NE_B_29	NE_B	26.194	25.602	7.275	182
NE_B_30	NE_B	26.447	25.339	7.327	182
NE_B_32	NE_B	26.588	26.003	7.448	182
GA_A_02	GA_A	26.407	25.669	7.113	216
GA_A_03	GA_A	27.929	27.180	7.989	216
GA_A_04	GA_A	28.500	27.714	8.869	216
GA_A_05	GA_A	27.378	26.473	7.983	216
GA_A_06	GA_A	26.504	25.713	7.828	216
GA_A_07	GA_A	28.023	26.922	7.920	216
GA_A_08	GA_A	26.318	25.255	7.478	216
GA_A_09	GA_A	26.263	25.271	7.584	216
GA_A_10	GA_A	26.789	25.563	7.442	216

GA_A_12	GA_A	28.290	27.248	7.836	216
AR_01	AR	27.980	26.542	7.855	142
AR_02	AR	26.596	25.718	7.916	142
AR_03	AR	28.153	27.060	9.015	142
AR_04	AR	28.290	27.690	8.427	142
AR_05	AR	27.269	26.227	6.998	142
AR_06	AR	27.843	26.749	8.725	142
AR_07	AR	27.374	26.528	7.970	142
AR_08	AR	27.308	26.696	8.599	142
AR_09	AR	26.590	25.689	8.362	142
AR_10	AR	28.283	27.136	8.630	142
AR_01	AR	25.507	24.518	7.867	218
AR_02	AR	27.175	26.363	7.988	218
AR_03	AR	28.151	27.030	8.074	218
AR_04	AR	27.587	26.431	8.349	218
AR_05	AR	28.018	27.098	8.158	218
AR_06	AR	26.929	26.149	7.954	218
AR_07	AR	28.732	28.026	8.137	218
AR_08	AR	27.310	26.346	8.024	218
AR_09	AR	25.205	24.468	7.901	218
AR_10	AR	27.163	26.242	8.315	218
AR_01	AR	28.646	27.417	8.293	219
AR_02	AR	27.710	26.674	7.982	219
AR_03	AR	28.603	27.839	8.963	219
AR_04	AR	30.119	29.006	8.654	219
AR_05	AR	26.265	25.489	8.233	219
AR_06	AR	28.557	27.888	8.045	219
AR_07	AR	26.770	25.655	7.592	219
AR_08	AR	28.345	27.492	8.342	219
AR_09	AR	28.744	27.735	8.232	219
AR_10	AR	27.947	26.953	8.900	219
AR_11	AR	27.682	26.666	8.154	219
AR_12	AR	26.264	25.271	7.611	219
AR_01	AR	27.397	26.564	8.145	219
AR_02	AR	28.480	27.311	8.126	219
AR_03	AR	27.295	26.193	7.905	219
MO_B_01	MO_B	26.936	26.140	8.183	156
MO_B_02	MO_B	27.069	25.755	8.149	156
MO_B_03	MO_B	27.963	25.997	8.048	156
MO_B_04	MO_B	26.694	25.825	7.714	156
MO_B_05	MO_B	27.652	26.665	8.046	156
MO_B_06	MO_B	25.873	24.963	7.973	156
MO_B_07	MO_B	27.318	26.280	8.045	156

MO_B_08	MO_B	26.514	25.897	7.416	156
MO_B_09	MO_B	26.865	25.938	8.238	156
MO_B_12	MO_B	27.327	26.062	8.106	156
MO_B_13	MO_B	26.957	25.739	8.200	156
MO_B_14	MO_B	27.769	26.631	8.418	156
MO_B_15	MO_B	28.093	26.911	8.298	156
MO_B_16	MO_B	27.042	26.069	8.228	156
MO_B_17	MO_B	26.441	25.586	8.360	156
MO_B_18	MO_B	27.909	26.685	8.127	156
MO_B_19	MO_B	26.906	26.098	8.263	156
MO_B_20	MO_B	26.157	25.235	7.479	156
MO_B_21	MO_B	27.795	26.534	6.692	156
MO_B_22	MO_B	27.531	26.090	8.039	156
MO_B_23	MO_B	27.605	26.530	8.906	156
MO_B_24	MO_B	25.450	24.419	7.922	156
MO_B_25	MO_B	27.096	25.937	7.941	156
MO_A_01	MO_A	26.945	26.107	8.231	156
MO_A_02	MO_A	27.519	26.531	8.655	156
MO_A_03	MO_A	27.981	27.037	8.313	156
MO_A_04	MO_A	27.203	26.200	8.608	156
MO_A_05	MO_A	27.779	26.964	7.079	156
MO_A_06	MO_A	27.209	26.597	8.538	156
MO_A_07	MO_A	26.337	25.389	7.915	156
MO_A_08	MO_A	28.077	27.259	8.905	156
MO_A_09	MO_A	27.876	27.049	7.937	156
MO_A_10	MO_A	28.616	27.507	8.047	156
MO_A_11	MO_A	27.583	26.556	7.778	156
MO_A_12	MO_A	26.600	25.507	8.276	156
ON_G_02	ON_G	28.249	27.352	7.745	192
ON_G_03	ON_G	26.106	25.344	7.537	192
ON_G_04	ON_G	26.453	25.340	7.476	192
ON_G_05	ON_G	26.777	25.917	7.739	192
ON_G_06	ON_G	25.878	25.091	7.235	192
ON_G_07	ON_G	27.732	27.043	7.941	192
ON_G_08	ON_G	26.961	26.018	7.434	192
ON_G_09	ON_G	26.314	25.388	7.356	192
ON_G_10	ON_G	27.158	26.173	7.462	192
ON_G_11	ON_G	26.303	25.268	7.269	192
ON_G_12	ON_G	25.471	24.724	7.408	192
ON_G_13	ON_G	26.469	25.419	7.245	192
ON_G_14	ON_G	27.334	26.512	7.750	192
ON_G_15	ON_G	26.822	25.900	7.460	192
ON_G_16	ON_G	27.521	26.333	7.444	192

ON_G_17	ON_G	26.714	26.104	6.861	192
ON_G_18	ON_G	26.767	25.970	7.553	192
TX_01	TX	29.340	28.024	7.959	133
TX_02	TX	28.757	27.629	8.058	133
TX_03	TX	29.003	27.788	8.053	133
TX_05	TX	29.453	28.261	7.603	133
TX_06	TX	27.594	26.609	7.845	133
TX_07	TX	28.561	27.527	8.189	133
TX_08	TX	28.881	27.668	7.750	133
TX_09	TX	28.896	27.617	7.947	133
TX_10	TX	28.113	26.990	7.780	133
TX_11	TX	29.366	28.091	7.558	133
TX_12	TX	29.112	28.028	8.154	133
TX_13	TX	27.805	26.735	7.979	133
TX_14	TX	29.503	28.314	8.034	133
TX_15	TX	28.576	27.148	8.409	133
TX_16	TX	28.687	27.798	8.214	133
TX_17	TX	29.686	28.491	8.492	133
TX_18	TX	29.555	28.346	8.166	133
TX_19	TX	28.515	27.609	8.042	133
TX_20	TX	27.306	26.274	8.027	133
TX_21	TX	27.447	26.334	8.425	133
TX_22	TX	27.810	26.766	8.348	133
IA_A_01	IA_A	26.145	25.249	7.919	175
IA_A_02	IA_A	27.066	25.983	7.896	175
IA_A_03	IA_A	27.804	26.569	7.328	175
IA_A_04	IA_A	26.623	25.712	7.520	175
IA_A_05	IA_A	27.027	25.877	7.676	175
IA_A_06	IA_A	26.539	25.616	7.176	175
IA_A_07	IA_A	26.312	25.710	7.329	175
IA_A_08	IA_A	26.951	25.974	7.162	175
IA_A_09	IA_A	26.705	25.687	7.632	175
IA_A_10	IA_A	27.992	27.223	7.963	175
IA_A_11	IA_A	26.864	26.007	7.459	175
IA_A_12	IA_A	28.004	26.813	7.571	175
IA_A_13	IA_A	26.198	24.998	7.306	175
IA_A_14	IA_A	26.490	25.528	7.469	175
IA_A_15	IA_A	25.720	24.665	7.555	175
IA_A_16	IA_A	27.448	26.338	7.335	175
IA_A_17	IA_A	26.697	25.689	7.244	175
IA_A_18	IA_A	26.048	25.183	7.504	175
IA_A_19	IA_A	26.460	25.303	7.348	175
IA_A_20	IA_A	27.475	26.659	7.914	175



IL_A_01	IL_A	26.334	25.369	7.805	198
IL_A_02	IL_A	25.139	24.327	7.023	198
IL_A_03	IL_A	26.022	25.248	7.379	198
IL_A_04	IL_A	25.547	24.361	7.562	198
IL_A_05	IL_A	25.412	24.566	7.428	198
IL_A_06	IL_A	26.103	25.200	6.971	198
IL_A_07	IL_A	27.347	26.201	7.232	198
IL_A_08	IL_A	26.759	26.032	7.226	198
IL_A_09	IL_A	25.718	25.018	7.460	198
IL_A_10	IL_A	25.693	24.666	7.502	198
IL_A_11	IL_A	26.556	25.938	7.411	198
IL_A_12	IL_A	26.643	25.577	7.423	198
IL_A_13	IL_A	26.279	25.235	7.442	198
IL_A_14	IL_A	26.155	25.167	7.472	198
IL_A_15	IL_A	27.399	26.444	7.978	198
IL_A_16	IL_A	26.968	26.062	7.758	198
IL_A_17	IL_A	25.717	24.593	7.593	198
IL_A_18	IL_A	26.218	25.431	7.743	198
IL_A_19	IL_A	27.322	26.697	8.067	198
IL_A_20	IL_A	25.371	24.611	7.456	198
MS_01	MS	28.426	27.547	7.840	186
MS_02	MS	29.831	29.113	8.469	186
MS_03	MS	29.286	28.147	8.941	186
MS_04	MS	29.030	27.813	8.982	186
MS_05	MS	27.934	26.946	8.302	186
MS_01	MS	29.563	28.637	7.936	186
MS_02	MS	27.836	26.501	8.243	186
MS_03	MS	28.234	27.362	8.222	186
MS_04	MS	29.507	28.541	7.995	186
MS_05	MS	29.365	28.088	7.892	186
MS_06	MS	28.037	26.994	7.977	186
MS_07	MS	29.133	28.021	7.763	186
MS_08	MS	28.856	27.726	8.490	186
MS_09	MS	30.310	29.183	8.618	186
MS_10	MS	27.942	26.821	7.716	186
MS_11	MS	29.400	28.496	5.883	186
MS_01	MS	30.496	29.430	8.428	186
MS_02	MS	30.264	29.074	8.171	186
MS_03	MS	28.523	27.978	8.412	186
MS_04	MS	28.640	27.537	7.895	186
MS_05	MS	29.960	29.078	8.311	186
MS_06	MS	28.155	27.039	7.767	186
MS_07	MS	29.408	28.430	8.345	186

MS_08	MS	27.882	26.992	7.956	186
MS_09	MS	27.206	26.026	8.085	186
MS_10	MS	30.648	29.202	8.461	186
VT_B_01	VT_B	27.294	26.696	8.386	205
VT_B_02	VT_B	25.963	24.911	7.605	205
VT_B_03	VT_B	26.320	25.514	8.789	205
VT_B_04	VT_B	27.778	26.859	8.558	205
VT_B_05	VT_B	27.165	25.979	7.931	205
VT_B_06	VT_B	26.239	25.687	8.161	205
VT_B_07	VT_B	26.954	25.940	8.186	205
VT_B_09	VT_B	26.929	26.234	7.696	205
VT_B_10	VT_B	27.007	25.973	6.296	205
VT_B_11	VT_B	27.652	26.731	8.055	205
VT_B_13	VT_B	27.367	26.337	7.844	205
VT_B_15	VT_B	26.932	26.177	7.543	205
VT_B_16	VT_B	26.397	25.229	7.661	205
VT_B_17	VT_B	25.954	24.955	7.413	205
VT_A_01	VT_A	27.209	26.129	7.594	169
VT_A_02	VT_A	26.232	25.296	8.026	169
VT_A_03	VT_A	27.862	26.670	7.399	169
VT_A_04	VT_A	27.280	26.014	8.055	169
GA_B_01	GA_B	27.989	26.882	8.272	169
GA_B_03	GA_B	28.872	27.587	8.022	169
GA_B_04	GA_B	27.846	26.951	7.798	169
GA_B_05	GA_B	27.241	26.337	7.642	169
GA_B_06	GA_B	29.320	27.751	7.883	169
GA_B_07	GA_B	28.296	27.456	7.958	169
GA_B_08	GA_B	27.836	26.553	8.003	169
GA_B_10	GA_B	27.747	26.947	7.621	178
GA_B_11	GA_B	28.405	27.563	8.503	178
GA_B_12	GA_B	28.961	28.070	8.157	178
GA_B_13	GA_B	27.802	26.802	8.045	178
GA_B_14	GA_B	27.822	26.601	7.757	178
GA_B_15	GA_B	28.257	27.402	7.842	178
GA_B_16	GA_B	29.090	28.041	8.412	178
GA_B_17	GA_B	27.858	26.802	8.411	178
GA_B_18	GA_B	29.156	27.987	8.615	178
GA_B_19	GA_B	28.184	27.090	7.773	178
GA_B_20	GA_B	28.609	27.584	7.980	178
SC_A_01	SC_A	31.650	30.441	9.457	195
SC_A_02	SC_A	32.106	30.816	9.189	195
SC_A_03	SC_A	33.633	32.534	10.102	195
SC_A_04	SC_A	31.829	30.914	9.174	195

SC_A_05	SC_A	31.312	30.269	9.584	195
SC_A_06	SC_A	28.272	27.561	8.967	195
SC_A_07	SC_A	31.685	32.629	10.180	195
SC_A_08	SC_A	31.281	30.231	9.650	195
SC_A_09	SC_A	30.835	29.530	9.263	195
SC_A_10	SC_A	32.034	30.869	9.205	195
SC_A_11	SC_A	30.761	29.356	8.702	195
SC_A_01	SC_A	31.566	30.409	9.268	195
SC_A_02	SC_A	32.307	31.533	9.510	195
SC_A_03	SC_A	30.471	29.305	8.735	195
SC_A_04	SC_A	26.589	25.893	8.309	195
SC_A_05	SC_A	31.082	30.247	8.859	195
SC_A_06	SC_A	32.232	31.161	9.754	195
SC_A_07	SC_A	32.083	30.968	9.997	195
SC_A_08	SC_A	30.060	30.889	8.654	195
SC_A_09	SC_A	31.445	30.759	9.403	195
SC_A_10	SC_A	31.678	30.584	9.340	195
OH_01	OH	27.076	26.159	7.439	167
OH_02	OH	27.963	26.727	8.218	167
OH_03	OH	26.350	25.224	7.778	167
OH_04	OH	27.261	25.746	7.831	167
OH_05	OH	27.682	26.515	8.304	167
OH_06	OH	26.761	25.680	8.217	167
OH_07	OH	26.808	25.843	7.929	167
OH_08	OH	27.702	26.668	8.327	167
OH_09	OH	27.401	26.209	8.033	167
OH_10	OH	27.985	26.790	8.184	167
OH_11	OH	28.393	26.992	8.153	167
OH_12	OH	25.601	24.499	7.217	167
OH_13	OH	28.112	26.822	7.884	167
OH_14	OH	26.950	25.832	7.797	167
OH_15	OH	26.964	25.580	7.781	167
OH_16	OH	26.441	25.293	8.373	167
OH_17	OH	28.981	28.009	8.941	167
OH_18	OH	27.788	26.584	8.195	167
OH_19	OH	27.729	26.692	8.492	167
OH_20	OH	27.416	26.047	8.056	167
OH_01	OH	29.523	28.470	8.707	167
OH_02	OH	27.790	26.940	8.085	167
OH_03	OH	28.211	27.103	8.048	167
OH_04	OH	28.220	26.949	8.366	167
OH_05	OH	27.969	26.693	8.132	167
OH_06	OH	29.103	27.663	7.948	167

OH_07	OH	27.735	26.705	9.042	167
OH_08	OH	27.414	26.197	7.966	167
OH_09	OH	28.417	27.144	8.651	167
OH_10	OH	26.117	25.276	8.217	167
OH_11	OH	29.444	28.242	9.198	167
OH_13	OH	28.801	27.533	8.453	167
OH_14	OH	27.453	26.508	7.762	167
OH_15	OH	28.418	27.293	8.820	167
OH_16	OH	26.530	25.379	7.713	167
OH_17	OH	27.648	26.546	8.184	167
OH_18	OH	28.263	27.452	8.129	167
OH_19	OH	26.884	25.758	7.894	167
OH_20	OH	28.742	27.564	9.114	167
FL_01	FL	29.310	28.559	7.542	177
FL_02	FL	26.525	25.905	7.240	177
FL_03	FL	27.701	26.904	8.020	177
FL_04	FL	25.252	24.338	7.387	177
FL_05	FL	27.572	26.668	7.667	177
FL_06	FL	27.699	26.381	7.589	177
FL_07	FL	29.118	27.427	7.807	177
FL_08	FL	29.285	28.476	8.214	177
FL_09	FL	30.178	28.836	7.916	177
FL_10	FL	27.719	26.823	7.697	177
FL_11	FL	26.972	26.261	7.969	177
FL_12	FL	27.651	26.833	7.774	177
FL_13	FL	27.443	26.759	7.575	177
FL_15	FL	26.608	25.717	7.057	177
FL_16	FL	28.444	27.500	7.827	177
FL_17	FL	30.870	29.617	8.603	177
FL_18	FL	30.354	29.383	8.515	177
FL_19	FL	28.368	27.334	8.369	177
FL_20	FL	27.648	26.622	8.040	177
ON_I_01	ON_I	27.934	26.806	7.825	196
ON_I_02	ON_I	27.596	26.502	7.822	196
ON_I_03	ON_I	27.644	27.018	7.730	196
ON_I_04	ON_I	28.283	27.340	8.471	196
ON_I_05	ON_I	27.188	26.659	7.547	196
ON_I_06	ON_I	28.202	27.514	8.403	196
ON_I_07	ON_I	27.493	26.366	8.209	196
ON_I_08	ON_I	28.328	27.512	8.398	196
ON_I_09	ON_I	27.667	27.174	7.814	196
ON_I_10	ON_I	27.864	27.158	7.928	196
ON_I_11	ON_I	26.581	25.619	7.782	196

ON_I_12	ON_I	26.964	25.996	8.239	196
ON_I_13	ON_I	27.463	26.717	7.817	196
ON_I_14	ON_I	26.853	25.859	7.893	196
ON_I_15	ON_I	26.510	25.513	7.551	196
ON_I_16	ON_I	27.316	26.414	7.954	196
ON_I_17	ON_I	26.837	26.181	7.603	196
ON_I_18	ON_I	27.731	26.745	7.763	196
ON_I_19	ON_I	28.594	26.727	8.653	196
ON_I_20	ON_I	27.337	25.911	7.700	196
ON_I_21	ON_I	27.336	26.543	7.903	196
ON_I_22	ON_I	27.282	26.255	7.861	196
ON_I_23	ON_I	25.702	24.901	7.308	196
ON_I_24	ON_I	26.933	26.037	7.391	196
ON_I_25	ON_I	26.567	25.640	8.175	196
IA_B_01	IA_B	27.378	26.157	7.633	196
IA_B_02	IA_B	26.409	25.364	7.719	196
IA_B_03	IA_B	24.603	25.285	7.420	196
IA_B_04	IA_B	27.577	26.224	7.912	196
IA_B_05	IA_B	26.971	26.354	7.513	196
IA_B_06	IA_B	26.599	25.789	7.748	196
IA_B_07	IA_B	27.283	26.189	7.736	196
IA_B_08	IA_B	27.162	25.966	7.678	196
IA_B_09	IA_B	27.053	26.208	7.166	196
IA_B_10	IA_B	26.667	25.865	7.097	196
IA_B_11	IA_B	26.365	25.477	7.475	196
IA_B_12	IA_B	26.991	26.193	7.963	196
IA_B_13	IA_B	26.834	25.625	7.786	196
IA_B_14	IA_B	27.449	26.945	7.303	196
IA_B_15	IA_B	26.260	25.351	7.412	196
IA_B_16	IA_B	26.830	26.007	7.864	196
IA_B_17	IA_B	26.992	25.553	7.377	196
IA_B_18	IA_B	24.991	24.023	7.319	196
IA_B_19	IA_B	25.308	24.701	7.317	196
IA_B_20	IA_B	25.829	25.081	6.994	196
IA_B_21	IA_B	27.107	26.415	7.355	196
IA_B_22	IA_B	27.056	25.937	7.435	196
IA_B_23	IA_B	25.919	25.176	6.991	196
IA_B_24	IA_B	27.161	25.983	7.685	196
IA_B_25	IA_B	27.755	26.879	7.842	196
IA_B_01	IA_B	26.801	25.664	7.333	196
IA_B_02	IA_B	26.957	26.010	7.991	196
IA_B_03	IA_B	26.391	25.431	7.943	196
IA_B_04	IA_B	27.282	26.171	7.465	196

IA_B_05	IA_B	27.096	25.928	8.643	196
IA_B_06	IA_B	27.947	26.696	8.064	196
IA_B_07	IA_B	27.478	26.418	7.398	196
IA_B_08	IA_B	27.480	26.083	7.957	196
IA_B_09	IA_B	26.383	25.529	8.199	196
IA_B_10	IA_B	25.484	24.445	7.687	196
IA_B_11	IA_B	27.763	26.702	8.217	196
IA_B_12	IA_B	25.891	24.455	7.278	196
IA_B_13	IA_B	27.086	25.725	7.604	196
IA_B_14	IA_B	28.176	27.149	7.961	196
IA_B_15	IA_B	27.577	26.318	8.003	196
IA_B_16	IA_B	26.022	25.077	7.799	196
IA_B_17	IA_B	28.189	26.749	8.362	196
IA_B_18	IA_B	27.184	26.324	8.073	196
IA_B_19	IA_B	26.740	25.796	7.599	196
IA_B_20	IA_B	27.956	26.614	8.147	196
IA_B_21	IA_B	27.290	25.956	8.109	196
IA_B_22	IA_B	27.056	25.980	8.248	196
IA_B_23	IA_B	27.010	26.158	7.511	196
IA_B_24	IA_B	27.703	26.940	8.028	196
IA_B_25	IA_B	27.266	26.043	7.929	196
IA_B_26	IA_B	27.261	26.437	8.405	196
IA_B_27	IA_B	27.672	26.600	7.995	196
IA_B_28	IA_B	27.155	25.901	7.706	196
IA_B_29	IA_B	27.801	28.450	8.643	196
IA_B_30	IA_B	27.684	26.259	7.936	196
IA_B_31	IA_B	28.250	27.064	8.216	196
IA_B_32	IA_B	27.724	26.742	8.207	196
IA_B_33	IA_B	27.189	26.004	8.134	196
IA_B_34	IA_B	26.118	24.938	7.964	196
IA_B_35	IA_B	26.035	25.092	7.663	196
IA_B_36	IA_B	28.375	27.238	8.331	196
IA_B_37	IA_B	26.249	25.299	7.839	196
IA_B_38	IA_B	26.893	25.779	7.537	196
IA_B_39	IA_B	25.568	23.866	6.974	196
IA_B_40	IA_B	27.188	26.153	7.887	196
IA_B_41	IA_B	26.610	25.590	8.101	196
IA_B_42	IA_B	27.305	26.151	7.541	196
IA_B_43	IA_B	25.986	24.740	7.446	196
IA_B_44	IA_B	27.757	26.411	8.021	196
IA_B_45	IA_B	26.930	25.838	7.972	196
IA_B_46	IA_B	28.252	27.170	7.773	196
IA_B_47	IA_B	24.927	23.823	7.563	196

IA_B_48	IA_B	25.765	27.183	8.913	196
ON_D_01	ON_D	25.111	24.414	7.097	209
ON_D_02	ON_D	26.681	25.654	7.475	209
ON_D_03	ON_D	24.606	23.976	7.047	209
ON_D_04	ON_D	26.248	25.296	7.044	209
ON_D_05	ON_D	26.673	25.638	7.566	209
ON_D_06	ON_D	25.866	24.586	7.511	209
ON_D_07	ON_D	25.139	24.260	7.347	209
ON_D_08	ON_D	25.621	24.978	7.172	209
ON_D_09	ON_D	27.034	26.015	6.710	209
ON_D_10	ON_D	26.876	25.832	7.385	209
ON_D_11	ON_D	25.309	24.310	7.498	209
ON_D_12	ON_D	25.594	24.540	7.118	209
ON_D_13	ON_D	24.831	23.661	6.926	209
ON_D_14	ON_D	25.991	24.947	7.421	209
ON_D_16	ON_D	26.189	25.372	7.627	209
ON_D_17	ON_D	26.078	25.294	7.136	209
ON_D_18	ON_D	26.842	25.895	7.848	209
ON_D_19	ON_D	26.206	25.407	7.372	209
ON_D_20	ON_D	24.450	23.909	6.882	209
ON_B_01	ON_B	27.744	26.677	7.965	212
ON_B_02	ON_B	27.777	26.594	7.641	212
ON_B_03	ON_B	27.392	26.245	8.124	212
ON_B_04	ON_B	26.024	25.003	7.230	212
ON_B_05	ON_B	26.187	24.958	7.844	212
ON_B_06	ON_B	26.296	25.205	7.774	212
ON_B_07	ON_B	27.794	26.818	7.780	212
KY_01	KY	27.825	26.928	8.633	158
KY_02	KY	29.294	27.873	8.732	158
KY_03	KY	27.445	26.120	8.524	158
KY_04	KY	28.727	27.676	7.944	158
KY_05	KY	28.495	27.424	8.177	158
KY_06	KY	28.363	27.086	8.337	158
KY_07	KY	28.305	27.172	8.805	158
KY_08	KY	29.182	27.918	8.924	158
KY_09	KY	28.645	27.547	8.376	158
KY_10	KY	27.451	26.217	8.886	158
KY_11	KY	28.128	27.297	8.568	158
KY_12	KY	27.844	26.790	8.551	158
KY_13	KY	28.990	27.747	8.352	158
KY_14	KY	27.802	26.902	8.056	158
KY_15	KY	30.225	29.173	9.707	158
KY_16	KY	28.390	27.224	8.465	158

KY_17	KY	28.262	27.143	8.359	158
KY_18	KY	28.737	27.511	8.398	158
KY_19	KY	28.744	27.604	8.675	158
KY_20	KY	27.681	26.560	8.462	158
KY_21	KY	28.384	26.941	8.353	158
KY_22	KY	28.649	27.302	7.793	158
KY_23	KY	28.877	27.714	8.092	158
KY_24	KY	29.695	28.861	8.600	158
KY_25	KY	27.817	26.872	8.559	158
MD_01	MD	26.395	25.971	7.827	194
MD_02	MD	25.413	24.567	7.272	194
MD_03	MD	25.890	25.033	7.530	194
MD_04	MD	25.923	24.991	8.110	194
MD_05	MD	25.168	24.223	6.889	194
MD_06	MD	26.634	25.824	6.931	194
MD_07	MD	26.036	25.273	7.229	194
MD_09	MD	26.416	25.433	7.710	194
MD_10	MD	25.992	25.034	7.230	194
MD_11	MD	26.356	25.531	7.388	194
MD_12	MD	26.485	25.562	7.228	194
MD_14	MD	26.429	25.528	7.944	194
MD_15	MD	26.406	25.472	8.261	194
MD_17	MD	25.456	24.519	7.085	194
MD_18	MD	25.753	24.801	7.161	194
MD_20	MD	25.756	25.071	7.894	194
MD_21	MD	24.681	23.723	6.979	194
MD_22	MD	25.490	24.496	7.157	194
MD_23	MD	26.460	25.820	7.662	194
MD_24	MD	25.475	24.646	7.218	194
MD_25	MD	25.328	24.740	7.350	194
MD_26	MD	25.693	24.698	7.550	194
MD_27	MD	26.294	25.522	7.484	194
MD_28	MD	25.899	24.636	7.544	194
MD_29	MD	27.384	26.520	7.601	194
MD_30	MD	27.622	26.609	7.744	194
MD_32	MD	27.693	26.581	7.394	194
MD_33	MD	24.448	23.648	7.494	194
MD_34	MD	25.235	24.423	6.816	194
MD_35	MD	27.663	26.788	7.577	194
SC_B_01	SC_B	29.256	28.255	7.922	196
SC_B_02	SC_B	27.071	28.174	8.237	196
SC_B_03	SC_B	27.880	27.000	8.082	196
SC_B_04	SC_B	26.913	26.062	7.853	196



SC_B_05	SC_B	26.521	27.684	7.744	196
SC_B_06	SC_B	26.937	25.967	7.080	196
SC_B_07	SC_B	25.812	26.750	7.776	196
SC_B_08	SC_B	27.718	26.367	7.501	196
SC_B_09	SC_B	28.067	27.140	8.070	196
SC_B_10	SC_B	27.917	26.998	7.969	196
SC_B_11	SC_B	28.836	27.650	8.391	196
SC_B_13	SC_B	27.369	26.468	7.737	196
SC_B_14	SC_B	27.453	26.374	7.726	196
SC_B_15	SC_B	27.815	26.827	7.617	196
SC_B_16	SC_B	29.828	28.719	7.823	196
SC_B_17	SC_B	27.456	26.167	7.997	196
SC_B_18	SC_B	28.518	27.671	7.756	196
SC_B_19	SC_B	29.067	28.042	8.104	196
SC_B_20	SC_B	28.748	27.634	7.804	196
SC_B_21	SC_B	26.733	25.759	7.584	196
SC_B_22	SC_B	26.429	25.474	7.380	196
SC_B_23	SC_B	26.625	26.470	8.019	196
SC_B_24	SC_B	27.037	26.091	7.334	196
SC_B_25	SC_B	29.158	28.353	7.482	196
SC_B_26	SC_B	27.433	28.660	7.793	196
SC_B_27	SC_B	26.543	25.409	8.022	196
SC_B_29	SC_B	29.061	30.235	8.895	196
SC_B_30	SC_B	27.306	26.159	7.745	196

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**Table A2** – Details of weather stations used in the calculation of degree day data. Station identification codes are given either as World Meteorological Organisation (WMO) codes, Global Historical Climate Network Daily (GHCND) codes, or Climate Identification (Climate ID) codes from Environment Canada. N is the number of days of data that were recorded for the 365 day period between 1st July 2009 and 30th June 2010. Remaining values were interpolated from 4th-order polynomials, the parameters of which are given below.

Sampling site	Site code	Weather station name	Station ID code	Latitude (°N)	Longitude (°E)	Distance from		N	Intercept	beta(x)	beta(x <sup>2</sup> )	beta(x <sup>3</sup> )	beta(x <sup>4</sup> )	R <sup>2</sup>
						site (km)								
Smithville	AR	Jonesboro Municipal Airport Ar Us	GHCND:USW00003953	35.83	-90.65	86.65	365	21.709	0.335	-6.226E-03	2.715E-05	-3.410E-08	0.860	
8 Mile Creek	FL	Pensacola Regional Airport Fl Us	GHCND:USW00013899	30.48	-87.19	13.36	365	23.909	0.311	-5.306E-03	2.238E-05	-2.760E-08	0.834	
Conyers Monastery	GA_A	U Of Ga Plant Science Farm Ga Us	GHCND:USC00098950	33.87	-83.54	59.17	365	22.413	0.304	-5.670E-03	2.456E-05	-3.070E-08	0.879	
Rome	GA_B	Rome Ga Us	GHCND:USC00097600	34.25	-85.15	21.94	362	22.702	0.314	-5.738E-03	2.494E-05	-3.140E-08	0.869	
Gateway Hills Park	IA_A	Ames 5 Se Ia Us	GHCND:USC00130203	41.95	-93.57	9.15	365	14.193	0.494	-8.549E-03	3.703E-05	-4.700E-08	0.822	
Odebolt	IA_B	Sac City Ia Us	GHCND:USC00137312	42.42	-94.99	20.19	365	13.829	0.492	-8.621E-03	3.742E-05	-4.750E-08	0.829	
Rockford	IL_A	Rockford Greater Rockford Airport Il Us	GHCND:USW00094822	42.19	-89.09	9.82	365	14.217	0.458	-7.830E-03	3.398E-05	-4.330E-08	0.834	
Fossil Creek	KY	Danville Ky Us	GHCND:USC00152040	37.65	-84.77	22.76	363	17.776	0.392	-6.822E-03	2.949E-05	-3.720E-08	0.822	
Folly Quarter Creek	MD	Maryland Science Center Baltimore Md Us	GHCND:USW00093784	39.28	-76.61	27.41	365	22.156	0.320	-5.944E-03	2.569E-05	-3.200E-08	0.840	
Johnson Creek	MI	Ann Arbor University Of Mi Mi Us	GHCND:USC00200230	42.29	-83.71	18.95	365	15.545	0.399	-6.899E-03	2.978E-05	-3.770E-08	0.843	
Eleven Point Rivier	MO_A	West Plains Mo Us	GHCND:USC00238880	36.74	-91.83	45.23	365	19.212	0.321	-6.063E-03	2.650E-05	-3.330E-08	0.817	
White River	MO_B	Springfield Regional Airport	GHCND:USW00013995	37.24	-93.39	121.93	365	20.421	0.307	-6.038E-03	2.662E-05	-3.360E-08	0.809	
Starkville	MS	State University Ms Us	GHCND:USC00228374	33.47	-88.78	26.36	365	22.961	0.307	-5.755E-03	2.508E-05	-3.140E-08	0.851	
Chappell	NE_A	Chappell Ne Us	GHCND:USC00251602	41.09	-102.47	1.26	233	27.368	-0.024	-2.881E-03	1.508E-05	-1.950E-08	0.744	
Kimball	NE_B	Kimball 2 Ne Ne Us	GHCND:USC00254440	41.25	-103.63	17.51	360	20.134	0.113	-3.997E-03	1.886E-05	-2.410E-08	0.768	
Leigh	NE_C	Madison 2 W Ne Us	GHCND:USC00255080	41.83	-97.45	22.04	361	16.962	0.383	-7.436E-03	3.296E-05	-4.210E-08	0.830	
Mt Vernon	OH	Fredericktown 4 S Oh Us	GHCND:USC00332956	40.42	-82.53	4.17	334	10.395	0.504	-7.830E-03	3.299E-05	-4.140E-08	0.810	
Blakeney Falls	ON_A	Appleton	Climate ID 6100285	45.19	-76.11	14.01	352	14.286	0.391	-7.169E-03	3.165E-05	-4.070E-08	0.821	
Dorset	ON_B	Ravenscliffe	Climate ID 6116901	45.35	-79.27	25.77	363	12.701	0.431	-7.636E-03	3.353E-05	-4.320E-08	0.809	
Heber Down	ON_C	Oshawa Wpcp	Climate ID 6155878	43.87	-78.83	14.92	359	14.585	0.362	-6.310E-03	2.716E-05	-3.420E-08	0.835	
Lucknow	ON_D	Kincardine	Climate ID 6124127	44.17	-81.62	25.97	303	13.306	0.413	-6.786E-03	2.884E-05	-3.630E-08	0.831	
North Bay	ON_E	North Bay A	WMO ID 71731	46.36	-79.42	5.82	365	11.702	0.453	-7.967E-03	3.494E-05	-4.500E-08	0.808	

Peterborough	ON_F	Peterborough Trent U	WMO ID 71672	44.35	-78.30	5.24	355	13.215	0.397	-7.052E-03	3.086E-05	-3.950E-08	0.833
Ridgetown	ON_G	Ridgetown Rcs	WMO ID 71307	42.45	-81.88	4.22	365	14.197	0.373	-6.431E-03	2.739E-05	-3.410E-08	0.817
Sault Ste Marie	ON_H	Sault	WMO ID 71260	46.48	-84.51	19.70	365	9.827	0.468	-7.597E-03	3.245E-05	-4.120E-08	0.814
Serena Gundy Park	ON_I	Toronto East York Dustan	Climate ID 6158751	43.70	-79.34	2.05	365	16.029	0.383	-6.763E-03	2.933E-05	-3.720E-08	0.845
Dunany	QC_A	Lachute	Climate identifier 7033650	45.65	-74.33	12.12	365	15.462	0.367	-6.993E-03	3.115E-05	-4.030E-08	0.837
Shawinigan	QC_B	Shawinigan	WMO ID 71370	46.56	-72.73	6.46	365	14.241	0.357	-6.793E-03	3.020E-05	-3.900E-08	0.835
Four Holes Swamp	SC_A	Summerville 4 W Sc Us	GHCND:USC00388426	33.04	-80.23	22.24	319	22.806	0.329	-5.641E-03	2.341E-05	-2.820E-08	0.882
Little Creek	SC_B	Greenville Sc Us	GHCND:USW00013886	34.82	-82.36	4.12	362	22.388	0.322	-5.917E-03	2.580E-05	-3.260E-08	0.877
Powderly	TX	Paris Tx Us	GHCND:USC00416794	33.67	-95.56	9.74	294	25.836	0.251	-5.484E-03	2.470E-05	-3.140E-08	0.853
Lamoille River	VT_A	Burlington International Airport Vt Us	GHCND:USW00014742	44.47	-73.15	24.52	365	16.700	0.331	-6.362E-03	2.812E-05	-3.600E-08	0.824
West Haven	VT_B	Glens Falls Farm Ny Us	GHCND:USC00303284	43.33	-73.73	44.09	364	14.309	0.426	-7.633E-03	3.355E-05	-4.310E-08	0.831
Winooski River	VT_C	Montpelier 2 Vt Us	GHCND:USC00435273	44.26	-72.60	10.96	365	16.191	0.362	-6.809E-03	2.999E-05	-3.840E-08	0.823