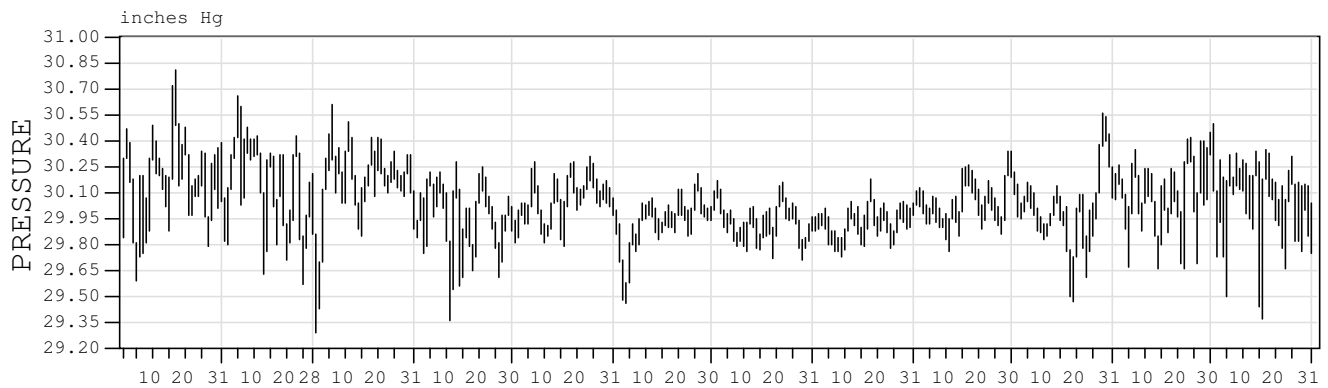
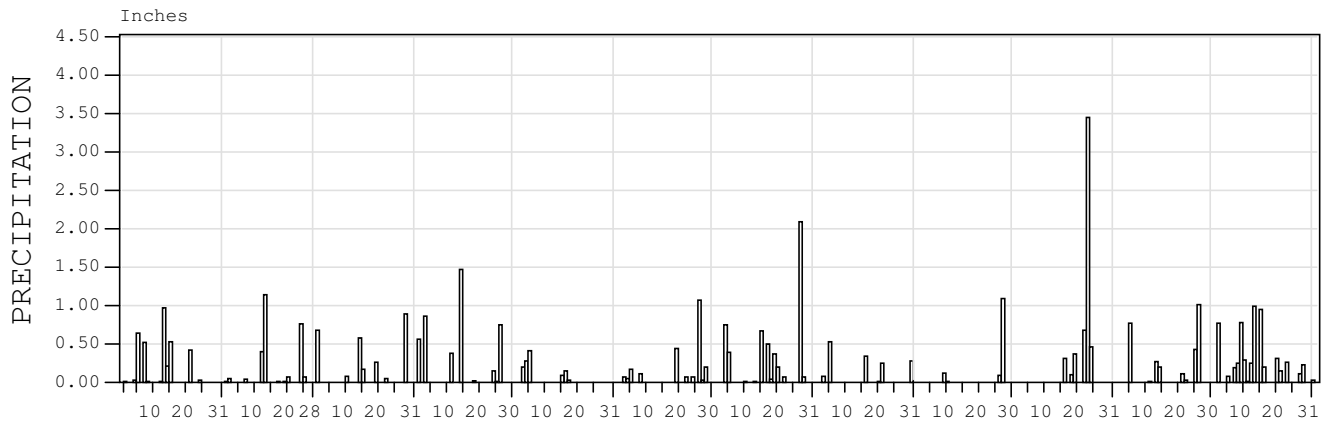
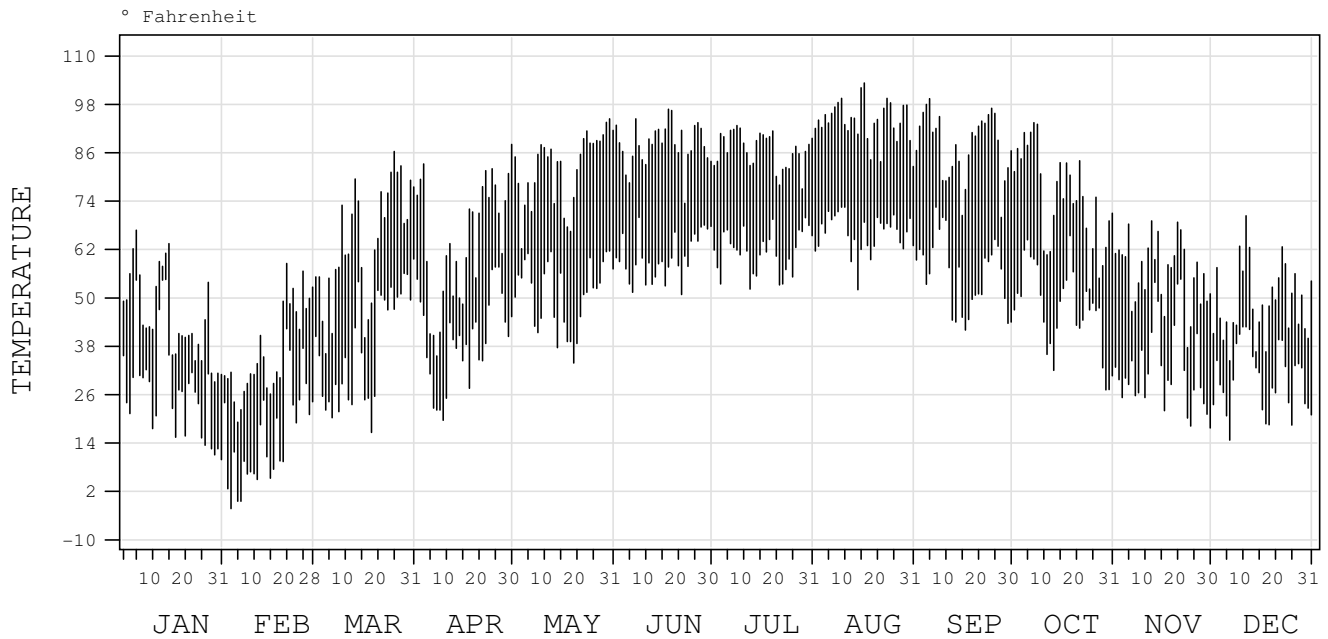


2007

LOCAL CLIMATOLOGICAL DATA

Annual Summary with Comparative Data
Derby Estates- Georgetown, KY
Daily Data



METEOROLOGICAL DATA FOR 2007
Derby Estates- Georgetown, KY

Latitude: 38° 14' 32" N Longitude: 84° 34' 70" W Elevation (Ground): 833 feet Time Zone: Eastern

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
TEMPERATURE													
Average													
-Daily Maximum	45.5	37.0	64.1	64.6	82.4	88.1	86.8	93.9	87.8	75.0	56.7	49.1	69.2
-Daily Minimum	27.2	15.5	38.0	39.6	51.0	60.1	61.5	66.1	55.8	47.3	32.2	29.8	43.7
-Monthly	36.4	26.2	51.1	52.1	66.7	74.1	74.2	80.0	71.8	61.2	44.5	39.4	56.5
-Monthly Dew Point	30.1	18.4	40.4	41.1	54.6	61.1	63.6	67.5	57.4	51.4	36.2	34.2	46.3
Extremes													
-Highest	66.8	58.6	86.3	88.2	94.4	96.8	92.8	103.3	99.4	93.6	69.2	70.4	103.3
-Date	5	20	25	30	30	17	8	16	5	7	12	11	AUG 16
-Lowest	9.9	-2.3	16.7	19.7	33.9	50.9	52.3	52.1	42.1	27.3	17.9	14.8	-2.3
-Date	31	3	18	9	19	21	12	14	16	29	30	6	FEB 3
DEGREE DAYS													
Heating Base 65°F	880	1076	434	389	68	0	0	0	16	189	609	780	4441
Cooling Base 65°F	0	0	11	11	130	279	295	473	230	80	0	0	1509
SOLAR RADIATION (W/m2)													
NUMBER OF DAYS													
Sunrise to Sunset													
-Clear	6	9	16	12	19	14	18	21	19	14	14	10	172
-Partly Cloudy	8	4	7	8	9	13	11	7	6	12	6	6	97
-Cloudy	17	15	8	10	3	3	2	3	5	5	10	15	96
Precipitation													
.01 inches or more	13	13	8	10	6	13	15	8	6	8	11	19	130
Snow, Ice pellets													
1.0 inches or more	1	3	0	0	0	0	0	0	0	0	0	0	4
Thunderstorms													
	0	1	2	5	5	8	7	4	0	1	1	0	34
Heavy Fog, visibility													
¼ mile or less	0	1	0	0	0	1	2	0	0	1	0	1	6
TEMPERATURE:													
-Maximum													
90°F and above	0	0	0	0	6	11	12	26	15	4	0	0	74
32°F and below	4	15	0	0	0	0	0	0	0	0	0	0	19
-Minimum													
32°F and below	25	25	13	7	0	0	0	0	0	4	19	17	110
0°F and below	0	3	0	0	0	0	0	0	0	0	0	0	3
PRESSURE													
Average													
-Monthly	30.174	30.149	30.165	29.959	30.062	29.932	29.938	29.930	30.048	30.017	30.108	30.084	30.047
Extremes													
-Highest	30.82	30.67	30.61	30.28	30.31	30.21	30.17	30.18	30.35	30.56	30.45	30.50	30.82
-Date	17	5	6	13	24	26	2	18	29	28	30	1	JAN 17
-Lowest	29.60	29.57	29.29	29.36	29.80	29.47	29.72	29.74	29.77	29.48	29.67	29.38	29.29
-Date	5	25	1	11	16	4	28	9	11	19	22	16	MAR 1
RELATIVE HUMIDITY (%)													
Average													
-Monthly	77.9	72.4	70.6	70.5	69.7	68.7	73.8	71.3	68.0	76.3	75.9	84.6	73.3
-Local Time													
Hour 01	82	80	79	82	89	85	88	87	84	88	84	88	84
Hour 07	86	82	83	86	92	87	91	92	90	91	84	90	88
Hour 13	69	59	58	56	49	50	58	52	46	58	60	78	58
Hour 19	76	72	63	58	51	55	59	53	50	69	77	84	64
PRECIPITATION													
Water Equivalent													
-Total	3.51	2.67	2.78	4.26	1.18	2.38	5.30	1.55	1.35	5.39	2.93	6.00	39.30
-Greatest (24 hrs)	1.11	1.42	0.90	1.47	0.50	1.07	2.18	0.53	1.16	3.56	1.40	1.17	3.56
-Date	13-14	12-13	28	14	4- 5	26	27-28	5	26-27	23-24	25-26	15-16	OCT 23-24
Snow, Ice pellets													
-Total	1.0	6.1	T	T	0.0	0.0	0.0	0.0	0.0	0.0	T	T	7.1
-Greatest (day)	1.0	2.6	T	T	0.0	0.0	0.0	0.0	0.0	0.0	T	T	2.6
-Date	24	18	3	6	1	1	1	1	1	1	23	5	FEB 18
WIND													
Resultant													
-Direction	247	262	258	258	315	306	299	282	272	269	244	250	258
-Speed	1.9	0.9	0.9	1.3	0.2	0.3	0.2	0.3	0.2	0.3	0.9	0.7	0.6
Average Speed	2.2	1.9	2.0	1.9	1.1	1.1	1.2	0.9	0.7	1.0	1.1	1.4	1.4
Maximum One-minute													
Average													
-Direction	W	WSW	WSW	W	WSW	WSW	WSW	NNE	SW	NE	WSW	WSW	WSW
-Speed	11	12	14	13	11	11	11	12	10	12	10	13	14
-Date	8	3	2	3	15	8	15	16	7	25	4	16	MAR 2
Peak Gust													
-Direction	SW	NNW	WSW	NW	W	WSW	S	N	SW	NNE	W	WSW	WSW
-Speed	20	26	28	26	20	22	23	23	21	21	22	26	28
-Date	15	3	2	3	15	26	15	16	7	25	26	23	MAR 2

MEANS AND EXTREMES*
Derby Estates- Georgetown, KY

Latitude: 38° 14' 32" N Longitude: 84° 34' 70" W Elevation (Ground): 833 feet Time Zone: Eastern

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Year
TEMPERATURE													
Average													
-Daily Maximum	45.5	37.0	64.1	64.6	82.4	88.1	85.9	91.1	81.4	69.8	57.6	50.8	68.2
-Daily Minimum	27.2	15.5	38.0	39.6	51.0	60.1	68.7	65.9	54.3	44.0	32.9	28.8	43.8
-Monthly	36.4	26.2	51.1	52.1	66.7	74.1	77.3	78.5	67.8	56.9	45.2	39.8	56.0
-Monthly Dew Point	30.1	18.4	40.4	41.1	54.6	61.1	69.3	67.6	57.1	48.2	37.3	33.2	46.5
Extremes													
-Record Highest	66.8	58.6	86.3	88.2	94.4	96.8	92.8	103.3	99.4	93.6	78.0	70.4	103.3
-Year	2007	2007	2007	2007	2007	2007	2007	2007	2007	2007	2006	2007	AUG 2007
-Record Lowest	9.9	-2.3	16.7	19.7	33.9	50.9	52.3	52.1	36.9	23.2	16.9	8.7	-2.3
-Year	2007	2007	2007	2007	2007	2007	2007	2007	2006	2006	2006	2006	FEB 2007
MEAN DEGREE DAYS													
Heating Base 65°F	880	1076	434	389	68	0	0	0	49	286	585	769	4535
Cooling Base 65°F	0	0	11	11	130	279	156	427	143	45	0	0	1201
MEAN SOLAR RADIATION													
MEAN NUMBER OF DAYS													
Sunrise to Sunset													
-Clear	6.0	9.0	16.0	12.0	19.0	14.0	9.5	18.0	15.0	14.5	12.5	11.0	156.5
-Partly Cloudy	8.0	4.0	7.0	8.0	9.0	13.0	5.5	7.5	8.0	8.0	8.0	7.5	93.5
-Cloudy	17.0	15.0	8.0	10.0	3.0	3.0	1.0	5.5	7.0	8.5	9.5	12.5	100.0
Precipitation ≥ .01"	13.0	13.0	8.0	10.0	6.0	13.0	7.5	8.5	10.0	9.5	10.5	14.5	123.5
Snow, Ice plts. ≥ 1.0"	1.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
Thunderstorms	0.0	1.0	2.0	5.0	5.0	8.0	3.5	3.0	2.0	0.5	0.5	0.0	30.5
Heavy Fog, vis. ≤ ¼ mi	0.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	0.5	1.0	0.5	0.5	5.5
TEMPERATURE:													
-Maximum													
90°F and above	0.0	0.0	0.0	0.0	6.0	11.0	6.0	19.0	7.5	2.0	0.0	0.0	51.5
32°F and below	4.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	20.0
-Minimum													
32°F and below	25.0	25.0	13.0	7.0	0.0	0.0	0.0	0.0	0.0	5.0	16.0	19.5	110.5
0°F and below	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
PRESSURE													
Average													
-Monthly	30.174	30.149	30.165	29.959	30.062	29.932	29.938	29.879	30.006	30.005	30.099	30.145	30.043
Extremes													
-Record Highest	30.82	30.67	30.61	30.28	30.31	30.21	30.17	30.18	30.35	30.56	30.56	30.71	30.82
-Year	2007	2007	2007	2007	2007	2007	2007	2007	2007	2007	2006	2006	JAN 2007
-Record Lowest	29.60	29.57	29.29	29.36	29.80	29.47	29.72	29.63	29.67	29.37	29.25	29.38	29.25
-Year	2007	2007	2007	2007	2007	2007	2007	2006	2006	2006	2006	2007	NOV 2006
RELATIVE HUMIDITY (%)													
Average													
-Monthly	77.9	72.4	70.6	70.5	69.7	68.7	79.7	74.0	74.9	78.1	78.3	81.2	74.7
-Local Time													
Hour 01	82	80	79	82	89	85	44	89	88	88	86	86	81
Hour 07	86	82	83	86	92	87	46	92	92	90	88	89	84
Hour 13	69	59	58	56	49	50	29	57	57	62	61	70	56
Hour 19	76	72	63	58	51	55	30	58	62	72	80	82	63
PRECIPITATION													
Water Equivalent													
-Mean	3.51	2.67	2.78	4.26	1.18	2.38	2.65	2.20	4.70	5.03	2.64	4.74	38.75
-Maximum Monthly	3.51	2.67	2.78	4.26	1.18	2.38	5.30	2.85	8.05	5.39	2.93	6.00	8.05
-Year	2007	2007	2007	2007	2007	2007	2007	2006	2006	2007	2007	2007	SEP 2006
-Minimum Monthly	3.51	2.67	2.78	4.26	1.18	2.38	0.00	1.55	1.35	4.68	2.36	3.48	0.00
-Year	2007	2007	2007	2007	2007	2007	2007	2007	2007	2006	2006	2006	2006
-Greatest (24 hrs)	1.11	1.42	0.90	1.47	0.50	1.07	2.18	1.21	3.97	3.56	1.50	1.28	3.97
-Year	2007	2007	2007	2007	2007	2007	2007	2006	2006	2007	2006	2006	SEP 2006
Snow, Ice pellets													
-Mean	1.0	6.1	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.*	T	7.2
-Maximum Monthly	1.0	6.1	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.1	T	6.1
-Year	2007	2007	2007	2007	2007	2007	2006	2006	2006	2006	2006	2006	FEB 2007
-Minimum Monthly	1.0	6.1	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.1	T	T
-Year	2007	2007	2007	2007	2007	2007	2006	2006	2006	2006	2006	2006	DEC 2006
-Greatest (day)	1.0	2.6	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.1	T	2.6
-Year	2007	2007	2007	2007	2007	2007	2006	2006	2006	2006	2006	2006	FEB 2007
WIND													
Resultant													
-Direction	247	262	258	258	315	306	298	308	275	263	252	246	259
-Speed	1.9	0.9	0.9	1.3	0.2	0.3	0.1	0.2	0.2	0.5	0.6	0.9	0.6
Average Speed	2.2	1.9	2.0	1.9	1.1	1.1	0.6	1.1	0.9	1.2	1.0	1.4	1.4
Maximum One-minute													
Average													
-Direction	W	WSW	WSW	W	WSW	WSW	WSW	N	SW	WSW	WSW	SW	SW
-Speed	11	12	14	13	11	11	11	14	10	13	10	16	16
-Year	2007	2007	2007	2007	2007	2007	2007	2006	2007	2006	2007	2006	DEC 2006
Peak Gust													
-Direction	SW	NNW	WSW	NW	W	WSW	S	W	SW	WSW	W	SW	SW
-Speed	20	26	28	26	20	22	23	28	21	25	22	31	31
-Year	2007	2007	2007	2007	2007	2007	2007	2006	2007	2006	2007	2006	DEC 2006

* Length of record: July 2006 to December 2007

Derby Estates- Georgetown, KY

PRECIPITATION (inches)

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
2006							0.00	2.85	8.05	4.68	2.36	3.48	21.42
2007	3.51	2.67	2.78	4.26	1.18	2.38	5.30	1.55	1.35	5.39	2.93	6.00	39.30

SNOWFALL (inches)

Year	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Total
2005-06													0.0
2006-07	0.0	0.0	0.0	0.0	0.1	T	1.0	6.1	T	T	0.0	0.0	7.2
2007-08	0.0	0.0	0.0	0.0	T	T							

Derby Estates- Georgetown, KY

TEMPERATURE °F

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
2006							80.4	77.0	63.9	52.6	46.0	40.2	60.0
2007	36.4	26.2	51.1	52.1	66.7	74.1	74.2	80.0	71.8	61.2	44.5	39.4	56.5

HEATING DEGREE DAYS: Base 65°F

Year	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Total
2005-06													0
2006-07	0	0	81	383	560	758	880	1076	434	389	68	0	4629
2007-08	0	0	16	189	609	780							

Derby Estates- Georgetown, KY

COOLING DEGREE DAYS: Base 65°F

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total
2006							16	380	56	9	0	0	461
2007	0	0	11	11	130	279	295	473	230	80	0	0	1509

STATION LOCATION AND INSTRUMENTATION
Derby Estates- Georgetown, KY

Location	Occupied from	Occupied to	Latitude North	Longitude West	Elevation Above (ft)						
					Sea Level	Ground					
						Wind	Sun	Temp	Humidity	Rain	Barometer
117 Citation Court Georgetown, KY 40324	8/01/06	Present	38° 14' 32"	84° 34' 70"	833	8	0	5	5	5	15

INSTRUMENTATION DETAIL

Units are: Temperature=°F, Wind=mph, Pressure=Inches Hg, Precipitation=inches.

Davis Vantage Pro, Vantage Pro Plus, Vantage Pro2, Vantage Pro2 Plus

Wind:

Electronic sensors:

Large cups: Instantaneous speed to 120 mph and direction to nearest 7°, greater of 2 mph or ±5%.

Small cups: Instantaneous speed to 175 mph and direction to nearest 7°, greater of 3 mph or ±5%.

Temperature:

Electronic sensor: -40° to 140°F, ±1°F.

Humidity:

Electronic sensor: 0 to 100% RH, ±3%.

Barometer:

Electronic sensor: 26.00 to 32.00 inches Hg, ±0.05".

Rainfall:

6.5-inch diameter electronic tipping bucket rain gauge. Resolution 0.01", ±4%.

Sunshine:

Electronic sensor: 0 to 1600 W/m², 5%.

UV:

Electronic sensor: 0 to 16 Index, 8%.

Snow, ice pellets, glaze and other meteorological phenomenon not recorded by the Weather Computer are manually observed and recorded in the station record.

OBSERVER NOTES