

METEOROLOGICAL DATA FOR 2006
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							85.0	88.3	75.0	64.6	58.5	52.5	70.6
-Daily Minimum							75.8	65.6	52.8	40.6	33.6	27.9	49.4
-Monthly							80.4	77.0	63.9	52.6	46.0	40.2	60.0
-Monthly Dew Point							75.1	67.6	56.8	45.0	38.3	32.2	52.5
Extremes													
-Highest							85.0	96.4	86.9	85.8	78.0	68.3	96.4
-Date							31	3	8	4	10	1	AUG 3
-Lowest							75.8	53.9	36.9	23.2	16.9	8.7	8.7
-Date							31	23	29	25	3	8	DEC 8
DEGREE DAYS													
Heating Base 65°F							0	0	81	383	560	758	1782
Cooling Base 65°F							16	380	56	9	0	0	461
SOLAR RADIATION (W/m2)													
NUMBER OF DAYS													
Sunrise to Sunset													
-Clear							1	15	11	15	11	12	65
-Partly Cloudy							0	8	10	4	10	9	41
-Cloudy							0	8	9	12	9	10	48
Precipitation													
.01 inches or more							0	9	14	11	10	10	54
Snow, Ice pellets													
1.0 inches or more							0	0	0	0	0	0	0
Thunderstorms													
							0	2	4	0	0	0	6
Heavy Fog, visibility													
¼ mile or less							0	0	1	1	1	0	3
TEMPERATURE:													
-Maximum													
90°F and above							0	12	0	0	0	0	12
32°F and below							0	0	0	0	0	2	2
-Minimum													
32°F and below							0	0	0	6	13	22	41
0°F and below							0	0	0	0	0	0	0
PRESSURE													
Average													
-Monthly							29.938	29.828	29.964	29.994	30.090	30.205	30.003
Extremes													
-Highest							29.96	30.12	30.15	30.36	30.56	30.71	30.71
-Date							31	16	16	7	4	8	DEC 8
-Lowest							29.91	29.63	29.67	29.37	29.25	29.41	29.25
-Date							31	10	18	27	16	1	NOV 16
RELATIVE HUMIDITY (%)													
Average													
-Monthly							85.5	76.6	81.8	80.0	80.7	77.8	80.4
-Local Time													
Hour 01							0	91	92	89	89	84	74
Hour 07							0	91	93	89	92	88	75
Hour 13							0	62	67	67	62	62	53
Hour 19							0	63	74	76	83	79	62
PRECIPITATION													
Water Equivalent													
-Total							0.00	2.85	8.05	4.68	2.36	3.48	21.42
-Greatest (24 hrs)							0.00	1.21	3.97	1.69	1.50	1.28	3.97
-Date							31	28-29	22-23	16-17	15-16	21-22	SEP 22-23
Snow, Ice pellets													
-Total							0.0	0.0	0.0	0.0	0.1	T	0.1
-Greatest (day)							0.0	0.0	0.0	0.0	0.1	T	0.1
-Date							31	1	1	1	20	7	NOV 20
WIND													
Resultant													
-Direction							0	333	279	262	274	244	264
-Speed							0.0	0.3	0.3	0.7	0.4	1.0	0.4
Average Speed							0.0	1.3	1.0	1.3	0.9	1.4	1.0
Maximum One-minute													
Average													
-Direction							N	N	WSW	WSW	WSW	SW	SW
-Speed							0	14	9	13	9	16	16
-Date							31	10	30	11	11	1	DEC 1
Peak Gust													
-Direction							WSW	W	N	WSW	NE	SW	SW
-Speed							0	28	18	25	19	31	31
-Date							31	10	27	11	15	1	DEC 1

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							85.0	88.3	75.0	64.6	58.5	52.5	70.6
-Daily Minimum							75.8	65.6	52.8	40.6	33.6	27.9	49.4
-Monthly							80.4	77.0	63.9	52.6	46.0	40.2	60.0
-Monthly Dew Point							75.1	67.6	56.8	45.0	38.3	32.2	52.5
Extremes													
-Record Highest							85.0	96.4	86.9	85.8	78.0	68.3	96.4
-Year							2006	2006	2006	2006	2006	2006	AUG 2006
-Record Lowest							75.8	53.9	36.9	23.2	16.9	8.7	8.7
-Year							2006	2006	2006	2006	2006	2006	DEC 2006
MEAN DEGREE DAYS													
Heating Base 65°F							0	0	81	383	560	758	1782
Cooling Base 65°F							16	380	56	9	0	0	461
MEAN SOLAR RADIATION													
MEAN NUMBER OF DAYS													
Sunrise to Sunset													
-Clear							1.0	15.0	11.0	15.0	11.0	12.0	65.0
-Partly Cloudy							0.0	8.0	10.0	4.0	10.0	9.0	41.0
-Cloudy							0.0	8.0	9.0	12.0	9.0	10.0	48.0
Precipitation ≥ .01"							0.0	9.0	14.0	11.0	10.0	10.0	54.0
Snow, Ice plts. ≥ 1.0"							0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thunderstorms							0.0	2.0	4.0	0.0	0.0	0.0	6.0
Heavy Fog, vis. ≤ ¼ mi							0.0	0.0	1.0	1.0	1.0	0.0	3.0
TEMPERATURE:													
-Maximum													
90°F and above							0.0	12.0	0.0	0.0	0.0	0.0	12.0
32°F and below							0.0	0.0	0.0	0.0	0.0	2.0	2.0
-Minimum													
32°F and below							0.0	0.0	0.0	6.0	13.0	22.0	41.0
0°F and below							0.0	0.0	0.0	0.0	0.0	0.0	0.0
PRESSURE													
Average													
-Monthly							29.938	29.828	29.964	29.994	30.090	30.205	30.003
Extremes													
-Record Highest							29.96	30.12	30.15	30.36	30.56	30.71	30.71
-Year							2006	2006	2006	2006	2006	2006	DEC 2006
-Record Lowest							29.91	29.63	29.67	29.37	29.25	29.41	29.25
-Year							2006	2006	2006	2006	2006	2006	NOV 2006
RELATIVE HUMIDITY (%)													
Average													
-Monthly							85.5	76.6	81.8	80.0	80.7	77.8	80.4
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Hour 01							0	91	92	89	89	84	74
Hour 07							0	91	93	89	92	88	75
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PRECIPITATION													
Water Equivalent													
-Mean							0.00	2.85	8.05	4.68	2.36	3.48	21.42
-Maximum Monthly							0.00	2.85	8.05	4.68	2.36	3.48	8.05
-Year								2006	2006	2006	2006	2006	SEP 2006
-Minimum Monthly							0.00	2.85	8.05	4.68	2.36	3.48	0.00
-Year								2006	2006	2006	2006	2006	
-Greatest (24 hrs)							0.00	1.21	3.97	1.69	1.50	1.28	3.97
-Year								2006	2006	2006	2006	2006	SEP 2006
Snow, Ice pellets													
-Mean							0.0	0.0	0.0	0.0	0.1	T	0.1
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-Year							2006	2006	2006	2006	2006	2006	NOV 2006
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Resultant													
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Maximum One-minute													
Average													
-Direction							N	N	WSW	WSW	WSW	SW	SW
-Speed							0	14	9	13	9	16	16
-Year							2006	2006	2006	2006	2006	2006	DEC 2006
Peak Gust													
-Direction							WSW	W	N	WSW	NE	SW	SW
-Speed							0	28	18	25	19	31	31
-Year							2006	2006	2006	2006	2006	2006	DEC 2006

* Length of record: July 2006 to December 2006

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

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							

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

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							

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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

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