NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL STUDIES SERVICE CENTER
DELTA BRANCH EXPERIMENT STATION
STONEVILLE, MISSISSIPPI

SUMMARY OF WEATHER OBSERVATIONS - 1978

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Air Temperature													
Average Maximum	40.7	44.5	60.1	76.8	81.1	89.2	94.6	90.8	86.6	77.5	68.8	55.2	72.2
Average Minimum	26.9	26.7	39.7	53.9	61.6	69.8	73.2	70.3	66.5	47.7	47.0	35.2	51.5
Departure of Mean from Normal	-10.4	-11.8	-4.2	+0.6	-1.0	+0.1	+2.2	-0.2	+1.8	-2.3	+5.9	-0.7	-1.8
Highest	72	65	82	87	95	99	98	98	95	87	84	77	99
Lowest	18	17	23	42	47	59	67	63	55	34	33	24	17
Soil Temperature Average													
2-inch Maximum	42.6	45.6	63.2	83.3	88.2	100.4	112.2	104.7	92.7	81.6	68.4	55.0	78.2
2-inch Minimum	35.8	33.9	44.1	60.2	65.7	76.0	83.1	80.5	73.8	58.3	53.7	41.2	58.9
4-inch Maximum	41.7	42.4	58.5	76.9	81.7	93.3	103.4	97.8	87.7	76.9	65.7	52.5	73.2
4-inch Minimum	37.0	35.3	45.4	61.3	67.2	77.4	85.6	83.3	76.6	62.2	56.3	43.4	60.9
8-inch Maximum	41.0	39.6	53.6	71.0	76.1	87.6	97.4	93.8	84.5	73.0	63.0	50.2	69.2
8-inch Minimum	37.2	35.8	47.5	63.6	69.2	80.2	88.8	86.6	78.9	65.8	58.1	44.8	63.0
Growing Degree Days Total													
40-degree base	62.5	24.0	338.5	762.0	974.5	1194.5	1354.5	1252.0	1097.0	699.5	522.5	216.0	8497.5
50-degree base	21.5	0.0	133.0	462.0	664.5	894.5	1044.5	942.0	797.0	389.5	241.0	76.5	5666.0
60-degree base	2.0	0.0	18.5	183.5	367.5	594.5	734.5	632.0	497.0	199.0	67.0	15.0	3310.5
65-degree base	0.0	0.0	0.0	84.0	235.0	444.5	579.5	477.0	347.0	42.5	10.5	3.5	2223.5
Total Precipitation (inches)	5.77	2.63	1.62	3.33	12.32	7.05	1.26	4.31	2.13	0.89	3.83	6.50	51.64
Departure from 1941-70 Normal	+1.14	-2.58	-4.01	-1.76	+7.74	+3.38	-2.52	+1.53	-.95	-1.62	-.59	+1.51	+1.27
Snow (inches)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Evaporation (inches)	--	--	3.59	7.55	7.12	7.94	9.54	7.79	4.93	5.27	2.86	--	
Solar Radiation (Langleys)	210	318	391	547	516	594	643	551	408	429	239	213	

Last spring freeze March 6. First fall freeze and killing freeze December 5. Growing season 273 days.

New Records: January 1978 was the third coldest of record. The air temperature mean 35.6 for February was the coldest ever for that month. March was the seventh coldest and third driest on record. The fourth windiest April on record produced the greatest April evaporation in 20 years of record. The May rainfall was second only to the 17.30 inches of May 1930. The third greatest June rainfall was recorded this year. The sixth driest July accounted for a record amount of evaporation for that month. The second highest total for October evaporation was recorded this year.