U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL STUDIES SERVICE CENTER
DELTA BRANCH EXPERIMENT STATION
STONEVILLE, MISSISSIPPI

SUMMARY OF WEATHER OBSERVATIONS - 1977

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Air Temperature													
Average Maximum	39.4	57.6	68.8	76.7	87.8	92.6	92.5	90.8	87.8	75.2	64.6	52.9	73.9
Average Minimum	23.2	33.6	47.1	54.6	64.3	70.8	72.7	70.8	67.5	49.8	45.7	34.9	52.9
Departure of Mean from Normal	-12.9	-1.8	+3.9	+0.9	+3.6	+2.3	+0.9	0.0	+2.9	-2.4	+1.4	-2.3	-0.3
Highest	59	81	83	86	98	100	100	96	95	92	80	75	100
Lowest	5	16	34	40	49	54	68	63	57	36	28	21	5
Soil Temperature Average													
2-inch Maximum	40.0	56.4	69.3	81.4	95.3	104.2	106.3	105.4	94.1	79.3	64.4	53.1	79.1
2-inch Minimum	33.4	38.5	49.2	60.2	71.1	79.3	81.1	79.7	73.2	56.2	49.9	39.8	59.3
4-inch Maximum	39.2	51.9	64.5	76.4	88.4	97.1	99.1	97.4	88.2	74.2	61.6	50.7	74.1
4-inch Minimum	35.0	40.6	51.5	61.8	72.8	81.0	83.4	82.1	75.7	60.5	52.8	42.3	61.6
8-inch Maximum	38.4	47.1	59.6	70.8	83.1	92.1	93.7	92.7	84.9	70.7	60.3	49.0	70.2
8-inch Minimum	34.8	41.8	53.8	64.3	75.5	84.5	87.0	85.8	79.2	64.5	55.4	44.0	64.2
Growing Degree Days Total													
40-degree base	14.0	209.0	560.0	780.0	1120.0	1248.0	1319.0	1265.5	1128.0	692.5	443.5	188.0	8967.5
50-degree base	0	56.0	255.0	480.0	810.0	948.0	1009.0	955.5	828.0	382.5	181.5	41.5	5947.0
60-degree base	0	8.0	58.5	196.0	500.0	648.0	699.0	645.5	528.0	116.5	45.5	6.0	3451.0
65-degree base	0	0	13.5	78.0	374.0	498.0	544.0	490.5	378.0	44.0	11.0	1.0	2405.0
Total Precipitation (inches)	3.60	1.60	6.71	4.28	1.29	2.80	3.91	1.04	5.36	3.27	7.35	3.53	44.74
Departure from 1941-70 Normal	-1.03	-3.61	+1.35	-0.81	-3.29	-0.87	+0.13	-1.74	+2.28	+0.76	+2.93	-1.46	-5.63
Snow (inches)	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9
Evaporation (inches)	--	--	5.26	6.51	9.66	9.66	7.82	7.65	6.09	4.75	2.39	1.22	
Solar Radiation (Langleys)	240	349	396	498	579	626	555	557	415	374	217	212	

Last spring freeze February 28. First fall freeze November 13. First killing freeze November 26. Growing season 270 days.

New Records: The January mean temperature was the lowest in the 47 years of record. The three-month average of the winter months of December, 1976, January and February, 1977, also set a new low record. This coldest winter was followed by the second warmest spring (March-April-May). The May mean temperature was the second warmest recorded. The warmest May reading was 76.3 in 1941. Six new record lows and six new record highs were established for particular dates during the year. No rainfall records were broken. The annual total was the lowest since 1967.