

Agricultural Weather Series No. 5
November 1968

ALABAMA GROWING DEGREE DAYS

UNITED STATES DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
WEATHER BUREAU

in cooperation with

AGRICULTURAL EXPERIMENT STATION
AUBURN UNIVERSITY

E. V. Smith, Director

Auburn, Alabama

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ALABAMA GROWING DEGREE DAYS

PAUL A. MOTT and PERRY M. SMITH¹

INTRODUCTION

WEATHER INFORMATION is of utmost importance to vegetable growers. Frost dates, rainfall, and temperatures (maximum and minimum) have been and will continue to be important. As growing becomes more specialized in regard to scheduling for the processor, for mechanical harvesting, and to get the maximum use of a dwindling labor supply, even more weather data are needed. In this publication "growing degree days" or "heat units" as well as basic weather information are given. Data are made available by the Environmental Science Services Administration for seven weather stations in Alabama. These include Clanton, Dothan, Frisco City, Greensboro, Madison, Oneonta, and Robertsedale. The location of these stations is such that all areas of the State are included. The terms growing degree days and heat units will come to be used with many crops.

NEED FOR FORECASTING HARVESTING DATES

Mechanical harvesting is now a reality with several vegetable crops. As progress is made in this field, planning and production get more complicated. To use a 10- to 20-thousand dollar harvesting machine economically, it must be used over a long harvesting season. This means that plantings must be staggered and harvest dates predicted on as sound a basis as possible. Allowing a constant number of calendar days between plantings does not always give the desired results.

The growing-degree day theory of scheduling removes much of the guesswork since heat units are considered rather than just calendar days for planting. Assuming that other variables such as rainfall remain constant, the growing degree day method helps to make the scheduling of plantings and the forecasting of harvest time a matter of simple arithmetic.

GROWING DEGREE DAYS (HEAT UNITS)

Computing growing-degree days, sometimes called "heat units," is a simple means of relating air temperature to plant growth, development, and maturation. It is an arithmetic accumulation of the difference between daily mean temperatures and a given base temperature. The base temperature varies with crops. It is determined experimentally for each crop under variable seasonal temperatures. At temperatures above the base, the amount of

growth and time of maturation is related proportionally to the amount of heat units accumulated. The base temperature generally agreed upon for sweet corn, snapbeans, lima beans, and tomatoes is 50F. For Irish potatoes it is 45F. For garden peas it is 40F.

COMPUTING GROWING-DEGREE DAYS

The heat units or growing-degree days are computed on a daily basis using maximum and minimum daily temperatures. It is computed daily by averaging the maximum and minimum temperatures and then subtracting the correct base temperature for the particular crop.

For example: Crop - Snapbeans
Base temperature 50F
Max. temperature for day 75F
Min. temperature for day 55F
Total = 130F
Average = 130 divided by 2 = 65
65 (the average) - 50 (the base) =
15 heat units

Under this condition, a crop of snapbeans with a base of 50 will have an accumulation of 15 heat units or growing degree days for that day. These calculations start at planting time and are accumulated throughout the growing season until harvest.

Whenever the daily average temperature is equal to or lower than the base temperature, the number of growing degree days for that day is zero.

PREDICTING CROP MATURITY AND SCHEDULING OF PLANTINGS

Heat unit requirements for different varieties of certain vegetables are becoming more generally available. Some of this information can be secured from seed companies, experiment stations, and the extension service. Average heat unit accumulations beginning March 1 for base temperatures of 40°F, 45°F, and 50°F for selected locations in Alabama are given in Tables 1 through 21.

If a variety of snapbeans is known to mature with approximately 1100 heat units, a grower can take the average accumulation of heat units in his area starting at time of planting and estimate the time of harvest. However, since there are no two seasons alike, the predicted time of harvest will generally have to be adjusted depending on the heat unit accumulation for that season.

The most valuable usage of heat units comes in the scheduling of plantings so as to use mechanical harvesters and processing plant facilities most efficiently. A 5-day spread in planting does not necessarily mean that there

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will be a 5-day spread in the harvest time. For example, in southern Alabama the daily heat unit accumulation during late May or June, which is the usual snapbean harvesting season, may be around 30 per day. During the bean planting season in March the heat unit accumulation may be around 15. Theoretically for a 5-day harvest spread between plantings in May or June the grower should not make the second planting until around 150 heat units have accumulated. This may be anywhere between 6 and 15 days.

The heat unit method is not fool proof since factors such as day length and rainfall are not considered. However, it does give growers and processors some basis to schedule planting and predict harvest dates. By keeping up with the daily heat unit accumulation and studying short and long range weather forecasts, along with experience, it can be made to be an effective tool in the production of certain crops.

CROPS AND AREAS

Growing-degree days or heat units have already been used to a limited extent in Alabama by some processors in scheduling plantings of snapbeans in Baldwin County. It is anticipated that snapbeans will be grown in other areas of the State to be harvested mechanically as processors seek to spread their season. These same data can be used with crops such as peas (English and Southern), sweet corn, Irish potatoes, lima beans and others. The stations selected for presentation of data are located in areas of present production and in areas where there is definite potential for the expansion of vegetable crops.

EXPLANATION OF TABLES AND GRAPHS

Average Growing Degree Days and Accumulated Total

The tabulations in Tables 1 through 21 provide the average daily growing degree days and accumulated totals beginning March 1st as computed for the period of record indicated on the tables for each station for the months of March through November to the base 40, 45, and 50F temperatures.

The averages provided were obtained by computing each individual degree day for each base as the difference between the base and the daily mean temperature and then accumulating those obtained from March 1st through November.

For quick reference, graphs of the same data showing the mean accumulated growing degree days versus the date have been prepared on pages 27-30.

Average Dates for Last Spring and First Fall Occurrences of Temperatures

Table 22 presents the geographical location for each of the 7 stations along with the average dates on which temperatures of 32F and 28F last occurs in Spring and the average dates of the first occurrence of 32F and 28F in the Fall. The table also gives the length of the growing season which is defined as the average number of days between the last freezing temperature in Spring and the first freezing temperature in the Fall. The map entitled "Length of Growing Season" gives the same information for the entire State of Alabama. Caution should be exercised in using this map since lines are drawn primarily for available point data values. Interpolation may not produce strictly valid values for other points due to influence of evaluation, topography, and other factors. Data given by the map and Table 22 are based on 30 years of record from 1931 through 1960.

Probability Dates for Last Spring and First Fall Occurrence of 32F and 28F

Data used in Table 23 were taken from the Climatological records of the United States Weather Bureau for the 30-year period 1931-1960. In this publication, the period over which spring low temperature data is assumed to range is January 1 to June 30 and July 1 to December 31 for fall low temperatures.

Average Monthly and Annual Rainfall

Mean rainfall data given in Table 24 was obtained from 22 years of record (1931-1952) except for Oneonta which was computed from 16 years record (1937-1952).

How to Use Nomographs

To compute growing degree days from nomographs, place a straightedge on the maximum temperature (T_x) in the left-hand column and the minimum temperature (T_n) in the right-hand column. The mean (\bar{T}) and the growing degree days (GDD) are given at the point where the straightedge intersects the middle column.

ACKNOWLEDGMENT

Appreciation is extended to the State Climatologist Office, ESSA-Weather Bureau, Montgomery, Alabama, for furnishing data used in the map and supplementary tables.

TABLE 1. AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 50°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, CLANTON, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	3	3	11	222	19	633	26	1,318	30	2,175
2	3	6	10	232	19	652	26	1,344	30	2,205
3	6	12	11	243	18	670	25	1,369	30	2,235
4	5	17	11	254	18	688	26	1,395	30	2,265
5	7	24	11	265	19	707	26	1,421	30	2,295
6	7	31	10	275	18	725	27	1,448	30	2,325
7	4	35	12	287	19	744	28	1,476	30	2,355
8	4	39	12	299	19	763	28	1,504	30	2,385
9	3	42	12	311	19	782	29	1,533	30	2,415
10	4	46	12	323	20	802	29	1,562	29	2,444
11	6	52	13	336	20	822	29	1,591	29	2,473
12	8	60	12	348	20	842	29	1,620	29	2,502
13	8	68	11	359	21	863	29	1,649	30	2,532
14	8	76	10	369	21	884	30	1,679	31	2,563
15	8	84	13	382	21	905	28	1,707	31	2,594
16	8	92	13	395	21	926	28	1,735	31	2,625
17	6	98	11	406	22	948	28	1,763	31	2,656
18	6	104	12	418	24	972	28	1,791	31	2,687
19	7	111	13	431	25	997	29	1,820	31	2,718
20	7	118	14	445	24	1,021	30	1,850	31	2,749
21	6	124	15	460	24	1,045	28	1,878	31	2,780
22	6	130	15	475	24	1,069	29	1,907	30	2,810
23	6	136	17	492	25	1,094	29	1,936	30	2,840
24	9	145	18	510	24	1,118	30	1,966	31	2,871
25	10	155	18	528	25	1,143	30	1,996	30	2,901
26	11	166	17	545	25	1,168	30	2,026	31	2,932
27	10	176	17	562	25	1,193	30	2,056	31	2,963
28	8	184	17	579	25	1,218	30	2,086	31	2,994
29	9	193	18	597	25	1,243	30	2,116	31	3,025
30	9	202	17	614	24	1,267	29	2,145	31	3,056
31	9	211			25	1,292			31	3,087
Monthly total	211		403		678		853		942	

TABLE 1. (Cont.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 50°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, CLANTON, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	31	3,118	29	4,048	20	4,784	10	5,220
2	31	3,149	29	4,077	20	4,804	9	5,229
3	31	3,180	28	4,105	20	4,824	9	5,238
4	32	3,212	30	4,135	19	4,843	7	5,245
5	31	3,243	29	4,164	19	4,862	7	5,252
6	31	3,274	28	4,192	20	4,882	7	5,259
7	31	3,305	28	4,220	19	4,901	6	5,265
8	31	3,336	28	4,248	16	4,917	5	5,270
9	30	3,366	27	4,275	15	4,932	5	5,275
10	30	3,396	27	4,302	15	4,947	6	5,281
11	30	3,426	26	4,328	14	4,961	5	5,286
12	31	3,457	25	4,353	14	4,975	4	5,290
13	31	3,488	25	4,378	15	4,990	6	5,296
14	30	3,518	25	4,403	16	5,006	6	5,302
15	30	3,548	23	4,426	15	5,021	7	5,309
16	31	3,579	24	4,450	13	5,034	7	5,316
17	31	3,610	24	4,474	14	5,048	7	5,323
18	31	3,641	25	4,499	14	5,062	7	5,330
19	30	3,671	25	4,524	15	5,077	6	5,336
20	29	3,700	24	4,548	13	5,090	4	5,340
21	29	3,729	24	4,572	12	5,102	4	5,344
22	28	3,757	24	4,596	13	5,115	4	5,348
23	29	3,786	24	4,620	13	5,128	4	5,352
24	29	3,815	22	4,642	13	5,141	3	5,355
25	29	3,844	21	4,663	10	5,151	3	5,358
26	29	3,873	21	4,684	10	5,161	4	5,362
27	29	3,902	20	4,704	10	5,171	3	5,365
28	29	3,931	20	4,724	9	5,180	2	5,367
29	29	3,960	20	4,744	9	5,189	3	5,370
30	30	3,990	20	4,764	10	5,199	2	5,372
31	29	4,019			11	5,210		
Monthly total	932		745		446		162	

* Based on 30-year (1938-67) average as compiled by the National Weather Records Center.

TABLE 2. AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 50°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, DOTHAN, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	6	6	14	328	22	855	29	1,640	32	2,560
2	7	13	15	343	22	877	29	1,669	32	2,592
3	9	22	15	358	22	899	28	1,697	32	2,624
4	9	31	16	374	22	921	29	1,726	31	2,655
5	8	39	15	389	22	943	29	1,755	31	2,686
6	10	49	15	404	22	965	29	1,784	31	2,717
7	8	57	15	419	22	987	30	1,814	31	2,748
8	6	63	16	435	22	1,009	30	1,844	31	2,779
9	5	68	16	451	23	1,032	31	1,875	31	2,810
10	8	76	16	467	24	1,056	31	1,906	31	2,841
11	10	86	17	484	23	1,079	31	1,937	31	2,872
12	13	99	16	500	24	1,103	31	1,968	31	2,903
13	12	111	14	514	23	1,126	31	1,999	32	2,935
14	10	121	14	528	24	1,150	31	2,030	32	2,967
15	10	131	15	543	24	1,174	31	2,061	32	2,999
16	10	141	15	558	25	1,199	31	2,092	32	3,031
17	10	151	15	573	25	1,224	30	2,122	32	3,063
18	12	163	17	590	26	2,250	30	2,152	32	3,095
19	11	174	17	607	27	1,277	30	2,182	32	3,127
20	10	184	18	625	27	1,304	30	2,212	32	3,159
21	9	193	19	644	27	1,331	31	2,243	32	3,191
22	9	202	20	664	28	1,359	31	2,274	32	3,223
23	11	213	21	685	28	1,387	32	2,306	32	3,255
24	14	227	21	706	28	1,415	32	2,338	31	3,286
25	14	241	21	727	28	1,443	31	2,369	32	3,318
26	13	254	21	748	28	1,471	32	2,401	31	3,349
27	12	266	21	769	28	1,499	32	2,433	32	3,381
28	12	278	21	790	28	1,527	32	2,465	32	3,413
29	12	290	21	811	28	1,555	31	2,496	31	3,444
30	12	302	22	833	28	1,583	32	2,528	32	3,476
31	12	314			28	1,611			33	3,509
Monthly total	314		519		778		917		981	

TABLE 2. (Con't.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 50°F AND ACCUMULATED TOTAL BEGINNING MARCH 1, DOTHAN, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	32	3,541	31	4,521	24	5,334	13	5,889
2	32	3,573	31	4,552	24	5,358	13	5,902
3	32	3,605	31	4,583	23	5,381	12	5,914
4	33	3,638	31	4,614	23	5,404	9	5,923
5	33	3,671	31	4,645	23	5,427	11	5,934
6	32	3,703	30	4,675	22	5,449	10	5,944
7	32	3,735	29	4,704	21	5,470	10	5,954
8	32	3,767	29	4,733	20	5,490	8	5,962
9	32	3,799	29	4,762	20	5,510	9	5,971
10	32	3,831	29	4,791	19	5,529	8	5,979
11	32	3,863	28	4,819	19	5,548	8	5,987
12	32	3,895	27	4,846	19	5,567	9	5,996
13	32	3,927	27	4,873	19	5,586	11	6,007
14	32	3,959	27	4,900	19	5,605	11	6,018
15	32	3,991	27	4,927	18	5,623	12	6,030
16	32	4,023	27	4,954	17	5,640	13	6,043
17	32	4,055	27	4,981	18	5,658	11	6,054
18	32	4,087	27	5,008	17	5,675	10	6,064
19	32	4,119	28	5,036	18	5,693	9	6,073
20	31	4,150	27	5,063	17	5,710	8	6,081
21	31	4,181	27	5,090	17	5,727	8	6,089
22	31	4,212	27	5,117	17	5,744	7	6,096
23	31	4,243	26	5,143	17	5,761	7	6,103
24	30	4,273	25	5,168	17	5,778	7	6,110
25	31	4,304	25	5,193	14	5,792	5	6,115
26	30	4,334	24	5,217	14	5,806	6	6,121
27	31	4,365	23	5,240	15	5,821	6	6,127
28	31	4,396	23	5,263	13	5,834	5	6,132
29	31	4,427	23	5,286	13	5,847	4	6,136
30	32	4,459	24	5,310	14	5,861	3	6,139
31	31	4,490			15	5,876		
Monthly total	981		820		566		263	

* Based on 28-year (1940-67) average as compiled by the National Weather Records Center.

TABLE 3. AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 50°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, FRISCO CITY, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	7	7	12	290	22	784	28	1,547	32	2,442
2	5	12	13	303	22	806	28	1,575	31	2,473
3	8	20	13	316	21	827	27	1,602	32	2,505
4	9	29	14	330	22	849	27	1,629	31	2,536
5	8	37	14	344	22	871	28	1,657	31	2,567
6	7	44	15	359	21	892	28	1,685	32	2,599
7	7	51	15	374	22	914	29	1,714	32	2,631
8	6	57	15	389	22	936	29	1,743	31	2,662
9	6	63	15	404	23	959	30	1,773	30	2,692
10	7	70	15	419	23	982	31	1,804	30	2,722
11	8	78	14	433	22	1,004	29	1,833	29	2,751
12	11	89	15	448	21	1,025	30	1,863	30	2,781
13	12	101	12	460	23	1,048	30	1,893	30	2,811
14	11	112	11	471	23	1,071	30	1,923	31	2,842
15	8	120	13	484	23	1,094	30	1,953	31	2,873
16	7	127	12	496	23	1,117	30	1,983	31	2,904
17	7	134	11	507	24	1,141	30	2,013	31	2,935
18	10	144	14	521	26	1,167	29	2,042	31	2,966
19	11	155	17	538	27	1,194	29	2,071	32	2,998
20	8	163	18	556	26	1,220	30	2,101	32	3,030
21	9	172	19	575	27	1,247	30	2,131	32	3,062
22	7	179	19	594	27	1,274	30	2,161	31	3,093
23	7	186	20	614	28	1,302	31	2,192	31	3,124
24	12	198	22	636	27	1,329	32	2,224	32	3,156
25	13	211	21	657	27	1,356	31	2,255	31	3,187
26	12	223	20	677	28	1,384	31	2,286	32	3,219
27	11	234	21	698	27	1,411	31	2,317	31	3,250
28	10	244	21	719	27	1,438	30	2,347	31	3,281
29	11	255	21	740	28	1,466	31	2,378	31	3,312
30	11	266	22	762	26	1,492	32	2,410	31	3,343
31	12	278			27	1,519			32	3,375
Monthly total	278		484		757		891		965	

TABLE 3. (Con't.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 50°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, FRISCO CITY, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	32	3,407	31	4,382	24	5,187	13	5,725
2	31	3,438	31	4,413	24	5,211	11	5,736
3	32	3,470	31	4,444	24	5,235	12	5,748
4	32	3,502	30	4,474	22	5,257	10	5,758
5	31	3,533	30	4,504	21	5,278	9	5,767
6	32	3,565	30	4,534	22	5,300	10	5,777
7	32	3,597	29	4,563	21	5,321	7	5,784
8	33	3,630	29	4,592	18	5,339	7	5,791
9	31	3,661	28	4,620	18	5,357	8	5,799
10	31	3,692	28	4,648	19	5,376	7	5,806
11	31	3,723	28	4,676	18	5,394	6	5,812
12	33	3,756	27	4,703	19	5,413	8	5,820
13	33	3,789	28	4,731	20	5,433	10	5,830
14	33	3,822	27	4,758	21	5,454	13	5,843
15	32	3,854	26	4,784	19	5,473	13	5,856
16	31	3,885	26	4,810	18	5,491	14	5,870
17	32	3,917	27	4,837	19	5,510	13	5,883
18	32	3,949	27	4,864	18	5,528	9	5,892
19	32	3,981	26	4,890	16	5,544	8	5,900
20	31	4,012	27	4,917	15	5,559	7	5,907
21	31	4,043	27	4,944	14	5,573	6	5,913
22	29	4,072	27	4,971	15	5,588	7	5,920
23	30	4,102	27	4,998	16	5,604	7	5,927
24	30	4,132	26	5,024	17	5,621	6	5,933
25	31	4,163	24	5,048	13	5,634	6	5,939
26	30	4,193	24	5,072	12	5,646	6	5,945
27	30	4,223	24	5,096	14	5,660	6	5,951
28	31	4,254	22	5,118	14	5,674	7	5,958
29	32	4,286	22	5,140	13	5,687	5	5,963
30	33	4,319	23	5,163	12	5,699	2	5,965
31	32	4,351			13	5,712		
Monthly total	976		812		549		253	

* Based on 17-year (1951-67) average as compiled by the National Weather Records Center.

TABLE 4. AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 50°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, GREENSBORO, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	5	5	12	278	20	747	27	1,478	31	2,376
2	6	11	13	291	20	767	27	1,505	31	2,407
3	8	19	12	303	20	787	27	1,532	31	2,438
4	7	26	13	316	20	807	26	1,558	31	2,469
5	8	34	13	329	20	827	26	1,584	31	2,500
6	7	41	13	342	21	848	28	1,612	31	2,531
7	6	47	14	356	21	869	29	1,641	32	2,563
8	5	52	14	370	21	890	30	1,671	31	2,594
9	5	57	13	383	21	911	31	1,702	31	2,625
10	6	63	13	396	22	933	31	1,733	31	2,656
11	9	72	15	411	22	955	30	1,763	31	2,687
12	10	82	13	424	22	977	30	1,793	30	2,717
13	10	92	12	436	21	998	31	1,824	31	2,748
14	9	101	13	449	22	1,020	30	1,854	31	2,779
15	8	109	14	463	23	1,043	29	1,883	32	2,811
16	10	119	14	477	23	1,066	30	1,913	32	2,843
17	8	127	13	490	24	1,090	30	1,943	32	2,875
18	8	135	15	505	25	1,115	30	1,973	32	2,907
19	9	144	16	521	25	1,140	31	2,004	32	2,939
20	9	153	16	537	25	1,165	31	2,035	32	2,971
21	8	161	17	554	26	1,191	30	2,065	32	3,003
22	7	168	18	572	26	1,217	31	2,096	32	3,035
23	9	177	19	591	26	1,243	31	2,127	32	3,067
24	13	190	19	610	26	1,269	31	2,158	32	3,099
25	12	202	19	629	26	1,295	31	2,189	32	3,131
26	12	214	19	648	26	1,321	31	2,220	32	3,163
27	10	224	19	667	26	1,347	31	2,251	32	3,195
28	10	234	20	687	26	1,373	32	2,283	32	3,227
29	10	244	20	707	26	1,399	31	2,314	32	3,259
30	11	255	20	727	26	1,425	31	2,345	32	3,291
31	11	266			26	1,451			32	3,323
Monthly total	266		461		724		894		978	

TABLE 4. (Con't.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 50°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, GREENSBORO, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	31	3,354	31	4,335	23	5,138	13	5,673
2	32	3,386	31	4,366	23	5,161	13	5,686
3	32	3,418	31	4,397	22	5,183	12	5,698
4	32	3,450	31	4,428	23	5,206	8	5,706
5	32	3,482	31	4,459	23	5,229	10	5,716
6	32	3,514	30	4,489	23	5,252	9	5,725
7	32	3,546	30	4,519	21	5,273	9	5,734
8	32	3,578	30	4,549	19	5,292	7	5,741
9	32	3,610	29	4,578	19	5,311	8	5,749
10	32	3,642	29	4,607	19	5,330	7	5,756
11	32	3,674	28	4,635	18	5,348	7	5,763
12	32	3,706	27	4,662	18	5,366	7	5,770
13	32	3,738	27	4,689	19	5,385	9	5,779
14	32	3,770	26	4,715	18	5,403	10	5,789
15	32	3,802	26	4,741	17	5,420	10	5,799
16	32	3,834	26	4,767	17	5,437	11	5,810
17	33	3,867	27	4,794	17	5,454	9	5,819
18	32	3,899	27	4,821	18	5,472	9	5,828
19	31	3,930	27	4,848	17	5,489	8	5,836
20	31	3,961	27	4,875	16	5,505	6	5,842
21	31	3,992	26	4,901	16	5,521	6	5,848
22	30	4,022	26	4,927	17	5,538	6	5,854
23	31	4,053	26	4,953	16	5,554	5	5,859
24	31	4,084	25	4,978	15	5,569	4	5,863
25	31	4,115	24	5,002	14	5,583	4	5,867
26	31	4,146	23	5,025	14	5,597	5	5,872
27	31	4,177	23	5,048	13	5,610	4	5,876
28	32	4,209	23	5,071	12	5,622	4	5,880
29	32	4,241	22	5,093	11	5,633	4	5,884
30	32	4,273	22	5,115	13	5,646	2	5,886
31	31	4,304			14	5,660		
Monthly total	981		811		545		226	

* Based on 30-year (1938-67) average as compiled by the National Records Center.

TABLE 5. AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 50°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, MADISON, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	3	3	9	163	17	526	25	1,158	29	1,981
2	3	6	9	172	17	543	24	1,182	28	2,009
3	4	10	9	181	17	560	24	1,206	28	2,037
4	5	15	10	191	16	576	24	1,230	29	2,066
5	5	20	9	200	17	593	25	1,255	29	2,095
6	5	25	9	209	18	611	25	1,280	29	2,124
7	3	28	10	219	17	628	26	1,306	29	2,153
8	3	31	10	229	17	645	27	1,333	30	2,183
9	2	33	9	238	17	662	28	1,361	30	2,213
10	2	35	10	248	18	680	28	1,389	29	2,242
11	4	39	10	258	18	698	28	1,417	29	2,271
12	5	44	10	268	19	717	28	1,445	28	2,299
13	5	49	8	276	18	735	28	1,473	29	2,328
14	6	55	9	285	19	754	28	1,501	30	2,358
15	6	61	12	297	20	774	26	1,527	30	2,388
16	6	67	11	308	20	794	27	1,554	30	2,418
17	4	71	10	318	21	815	27	1,581	30	2,448
18	4	75	11	329	23	838	27	1,608	31	2,479
19	5	80	12	341	23	861	29	1,637	30	2,509
20	5	85	13	354	22	883	28	1,665	30	2,539
21	5	90	14	368	22	905	28	1,693	30	2,569
22	4	94	15	383	22	927	29	1,722	30	2,599
23	4	98	15	398	22	949	29	1,751	30	2,629
24	7	105	16	414	22	971	28	1,779	30	2,659
25	8	113	16	430	23	994	28	1,807	29	2,688
26	8	121	15	445	23	1,017	29	1,836	30	2,718
27	6	127	15	460	23	1,040	29	1,865	30	2,748
28	6	133	16	476	24	1,064	29	1,894	30	2,778
29	7	140	17	493	23	1,087	29	1,923	31	2,809
30	7	147	16	509	23	1,110	29	1,952	31	2,840
31	7	154			23	1,133			30	2,870
Monthly total	154		355		624		819		918	

TABLE 5. (Con't.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 50°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, MADISON, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	30	2,900	28	3,809	19	4,505	9	4,904
2	30	2,930	28	3,837	18	4,523	9	4,913
3	31	2,961	28	3,865	19	4,542	8	4,921
4	31	2,992	29	3,894	18	4,560	5	4,926
5	30	3,022	28	3,922	18	4,578	6	4,932
6	30	3,052	27	3,949	19	4,597	5	4,937
7	30	3,082	27	3,976	17	4,614	5	4,942
8	30	3,112	26	4,002	15	4,629	4	4,946
9	30	3,142	25	4,027	13	4,642	4	4,950
10	29	3,171	26	4,053	14	4,656	4	4,954
11	30	3,201	24	4,077	14	4,670	4	4,958
12	30	3,231	24	4,101	13	4,683	5	4,963
13	30	3,261	24	4,125	14	4,697	6	4,969
14	30	3,291	23	4,148	14	4,711	5	4,974
15	30	3,321	23	4,171	14	4,725	6	4,980
16	30	3,351	23	4,194	13	4,738	7	4,987
17	30	3,381	23	4,217	13	4,751	5	4,992
18	29	3,410	23	4,240	13	4,764	6	4,998
19	29	3,439	24	4,264	13	4,777	5	5,003
20	28	3,467	23	4,287	12	4,789	4	5,007
21	28	3,495	22	4,309	12	4,801	4	5,011
22	28	3,523	22	4,331	12	4,813	4	5,015
23	29	3,552	22	4,353	11	4,824	3	5,018
24	28	3,580	20	4,373	10	4,834	2	5,020
25	29	3,609	19	4,392	9	4,843	2	5,022
26	28	3,637	19	4,411	9	4,852	3	5,025
27	28	3,665	19	4,430	9	4,861	2	5,027
28	29	3,694	19	4,449	8	4,869	2	5,029
29	29	3,723	18	4,467	7	4,876	2	5,031
30	29	3,752	19	4,486	9	4,885	1	5,032
31	29	3,781			10	4,895		
Monthly total	911		705		409		137	

* Based on 30-year (1938-67) average as compiled by the National Weather Records Center.

TABLE 6. AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 50°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, ONEONTA, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	4	4	7	137	17	477	22	1,089	28	1,875
2	2	6	7	144	17	494	22	1,111	28	1,903
3	4	10	9	153	16	510	22	1,133	28	1,931
4	4	14	10	163	16	526	23	1,156	29	1,960
5	5	19	8	171	17	543	24	1,180	30	1,990
6	5	24	8	179	17	560	24	1,204	30	2,020
7	3	27	10	189	17	577	24	1,228	30	2,050
8	3	30	8	197	17	594	26	1,254	29	2,079
9	3	33	8	205	17	611	27	1,281	29	2,108
10	2	35	10	215	18	629	27	1,308	26	2,134
11	4	39	9	224	19	648	26	1,334	26	2,160
12	6	45	10	234	19	667	27	1,361	27	2,187
13	6	51	8	242	18	685	27	1,388	28	2,215
14	4	55	6	248	18	703	28	1,416	29	2,244
15	4	59	9	257	19	722	26	1,442	29	2,273
16	2	61	7	264	20	742	26	1,468	29	2,302
17	2	63	6	270	19	761	26	1,494	29	2,331
18	3	66	9	279	22	783	25	1,519	29	2,360
19	3	69	12	291	22	805	26	1,545	29	2,389
20	4	73	13	304	22	827	27	1,572	30	2,419
21	5	78	14	318	21	848	27	1,599	31	2,450
22	3	81	14	332	22	870	27	1,626	30	2,480
23	2	83	16	348	23	893	28	1,654	30	2,510
24	5	88	17	365	21	914	28	1,682	30	2,540
25	7	95	17	382	23	937	28	1,710	29	2,569
26	7	102	15	397	22	959	28	1,738	29	2,598
27	6	108	16	413	22	981	27	1,765	30	2,628
28	4	112	16	429	22	1,003	27	1,792	30	2,658
29	6	118	16	445	22	1,025	27	1,819	30	2,688
30	6	124	15	460	21	1,046	28	1,847	31	2,719
31	6	130			21	1,067			30	2,749
Monthly total	130		330		607		780		902	

TABLE 6. (Con't.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 50°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, ONEONTA, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	29	2,778	27	3,654	19	4,316	7	4,671
2	30	2,808	27	3,681	19	4,335	6	4,677
3	30	2,838	26	3,707	18	4,353	6	4,683
4	29	2,867	27	3,734	18	4,371	4	4,687
5	29	2,896	26	3,760	16	4,387	5	4,692
6	29	2,925	25	3,785	17	4,404	4	4,696
7	29	2,954	25	3,810	16	4,420	2	4,698
8	29	2,983	24	3,834	13	4,433	2	4,700
9	28	3,011	24	3,858	12	4,445	3	4,703
10	28	3,039	24	3,882	12	4,457	3	4,706
11	28	3,067	23	3,905	13	4,470	2	4,708
12	30	3,097	24	3,929	13	4,483	3	4,711
13	30	3,127	24	3,953	13	4,496	5	4,716
14	29	3,156	22	3,975	14	4,510	6	4,722
15	29	3,185	21	3,996	13	4,523	7	4,729
16	28	3,213	22	4,018	12	4,535	8	4,737
17	29	3,242	23	4,041	13	4,548	6	4,743
18	29	3,271	23	4,064	12	4,560	6	4,749
19	29	3,300	22	4,086	11	4,571	5	4,754
20	28	3,328	22	4,108	9	4,580	3	4,757
21	28	3,356	21	4,129	9	4,589	3	4,760
22	26	3,382	21	4,150	10	4,599	4	4,764
23	26	3,408	21	4,171	10	4,609	3	4,767
24	26	3,434	20	4,191	10	4,619	2	4,769
25	27	3,461	18	4,209	6	4,625	2	4,771
26	27	3,488	18	4,227	6	4,631	3	4,774
27	27	3,515	18	4,245	7	4,638	2	4,776
28	28	3,543	18	4,263	7	4,645	2	4,778
29	28	3,571	17	4,280	6	4,651	2	4,780
30	28	3,599	17	4,297	6	4,657	1	4,781
31	28	3,627			7	4,664		
Monthly total	878		670		367		117	

* Based on 17-year (1951-67) average as compiled by the National Records Center.

TABLE 7. AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 50°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, ROBERTSDALE, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	7	7	14	351	22	873	27	1,624	31	2,511
2	7	14	15	366	22	895	27	1,651	31	2,542
3	9	23	14	380	22	917	27	1,678	30	2,572
4	10	33	15	395	21	938	27	1,705	31	2,603
5	10	43	16	411	21	959	27	1,732	31	2,634
6	11	54	16	427	21	980	28	1,760	31	2,665
7	8	62	16	443	21	1,001	28	1,788	31	2,696
8	7	69	16	459	22	1,023	29	1,817	30	2,726
9	7	76	15	474	22	1,045	29	1,846	31	2,757
10	8	84	16	490	22	1,067	30	1,876	30	2,787
11	11	95	16	506	22	1,089	29	1,905	30	2,817
12	11	106	16	522	22	1,111	30	1,935	30	2,847
13	12	118	14	536	22	1,133	30	1,965	31	2,878
14	11	129	14	550	23	1,156	30	1,995	30	2,908
15	12	141	15	565	23	1,179	30	2,025	31	2,939
16	12	153	16	581	23	1,202	30	2,055	31	2,970
17	10	163	15	596	24	1,226	30	2,085	31	3,001
18	11	174	16	612	25	1,251	30	2,115	31	3,032
19	12	186	17	629	25	1,276	29	2,144	31	3,063
20	11	197	18	647	26	1,302	30	2,174	31	3,094
21	11	208	18	665	27	1,329	30	2,204	31	3,125
22	11	219	19	684	27	1,356	30	2,234	31	3,156
23	10	229	19	703	27	1,383	31	2,265	30	3,186
24	14	243	21	724	27	1,410	31	2,296	31	3,217
25	13	256	20	744	26	1,436	30	2,326	31	3,248
26	15	271	20	764	26	1,462	31	2,357	31	3,279
27	13	284	21	785	27	1,489	31	2,388	31	3,310
28	13	297	22	807	27	1,516	31	2,419	31	3,341
29	13	310	22	829	27	1,543	31	2,450	31	3,372
30	13	323	22	851	27	1,570	30	2,480	31	3,403
31	14	337			27	1,597			31	3,434
Monthly total	337		514		746		883		954	

TABLE 7. (Cont.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 50°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, ROBERTSDALE, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	31	3,465	30	4,421	23	5,236	14	5,807
2	31	3,496	31	4,452	23	5,259	14	5,821
3	31	3,527	30	4,482	24	5,283	14	5,835
4	32	3,559	30	4,512	24	5,307	11	5,846
5	31	3,590	30	4,542	23	5,330	12	5,858
6	31	3,621	30	4,572	23	5,353	11	5,869
7	31	3,652	29	4,601	22	5,375	11	5,880
8	31	3,683	29	4,630	21	5,396	10	5,890
9	31	3,714	29	4,659	20	5,416	9	5,899
10	31	3,745	29	4,688	20	5,436	10	5,909
11	31	3,776	29	4,717	19	5,455	9	5,918
12	32	3,808	28	4,745	19	5,474	10	5,928
13	31	3,839	27	4,772	20	5,494	11	5,939
14	31	3,870	27	4,799	20	5,514	13	5,952
15	31	3,901	27	4,826	19	5,533	12	5,964
16	32	3,933	27	4,853	18	5,551	13	5,977
17	31	3,964	27	4,880	18	5,569	12	5,989
18	32	3,996	27	4,907	18	5,587	11	6,000
19	31	4,027	27	4,934	18	5,605	11	6,011
20	30	4,057	28	4,962	17	5,622	8	6,019
21	30	4,087	27	4,989	17	5,639	9	6,028
22	30	4,117	26	5,015	18	5,657	9	6,037
23	30	4,147	26	5,041	18	5,675	8	6,045
24	30	4,177	26	5,067	17	5,692	6	6,051
25	30	4,207	25	5,092	15	5,707	7	6,058
26	31	4,238	25	5,117	15	5,722	8	6,066
27	30	4,268	25	5,142	15	5,737	7	6,073
28	30	4,298	24	5,166	14	5,751	7	6,080
29	31	4,329	23	5,189	13	5,764	5	6,085
30	31	4,360	24	5,213	14	5,778	4	6,089
31	31	4,391			15	5,793		
Monthly total	957		822		580		296	

* Based on 30-year (1938-67) average as compiled by the National Weather Records Center.

TABLE 8. AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 45°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, CLANTON, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	6	6	15	344	24	900	31	1,740	35	2,747
2	6	12	15	359	24	924	31	1,771	35	2,782
3	9	21	15	374	23	947	30	1,801	35	2,817
4	9	30	16	390	23	970	31	1,832	35	2,852
5	10	40	16	406	24	994	31	1,863	35	2,887
6	10	50	15	421	23	1,017	32	1,895	35	2,922
7	8	58	16	437	24	1,041	33	1,928	35	2,957
8	7	65	17	454	24	1,065	33	1,961	35	2,992
9	6	71	17	471	24	1,089	34	1,995	35	3,027
10	8	79	17	488	25	1,114	34	2,029	34	3,061
11	10	89	18	506	25	1,139	34	2,063	34	3,095
12	12	101	17	523	25	1,164	34	2,097	34	3,129
13	12	113	15	538	26	1,190	34	2,131	35	3,164
14	12	125	15	553	26	1,216	35	2,166	36	3,200
15	11	136	17	570	26	1,242	33	2,199	36	3,236
16	11	147	18	588	26	1,268	33	2,232	36	3,272
17	9	156	16	604	27	1,295	33	2,265	36	3,308
18	10	166	17	621	29	1,324	33	2,298	36	3,344
19	12	178	18	639	30	1,354	34	2,332	36	3,380
20	11	189	19	658	29	1,383	35	2,367	36	3,416
21	10	199	19	677	29	1,412	33	2,400	36	3,452
22	9	208	20	697	29	1,441	34	2,434	35	3,487
23	10	218	22	719	30	1,471	34	2,468	35	3,522
24	14	232	23	742	29	1,500	35	2,503	36	3,558
25	15	247	23	765	30	1,530	35	2,538	35	3,593
26	16	263	22	787	30	1,560	35	2,573	36	3,629
27	14	277	22	809	30	1,590	35	2,608	36	3,665
28	12	289	22	831	30	1,620	35	2,643	36	3,701
29	13	302	23	854	30	1,650	35	2,678	36	3,737
30	13	315	22	876	29	1,679	34	2,712	36	3,773
31	14	329			30	1,709			36	3,809
Monthly total	329		547		833		1,003		1,097	

TABLE 8. (Con't.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 45°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, CLANTON, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	36	3,845	34	4,930	25	5,816	15	6,400
2	36	3,881	34	4,964	25	5,841	14	6,414
3	36	3,917	33	4,997	25	5,866	14	6,428
4	37	3,954	35	5,032	24	5,890	11	6,439
5	36	3,990	34	5,066	24	5,914	10	6,449
6	36	4,026	33	5,099	25	5,939	11	6,460
7	36	4,062	33	5,132	24	5,963	10	6,470
8	36	4,098	33	5,165	21	5,984	9	6,479
9	35	4,133	32	5,197	20	6,004	9	6,488
10	35	4,168	32	5,229	20	6,024	9	6,497
11	35	4,203	31	5,260	19	6,043	8	6,505
12	36	4,239	30	5,290	19	6,062	8	6,513
13	36	4,275	30	5,320	20	6,082	10	6,523
14	35	4,310	30	5,350	21	6,103	10	6,533
15	35	4,345	28	5,378	20	6,123	11	6,544
16	36	4,381	29	5,407	18	6,141	12	6,556
17	36	4,417	29	5,436	18	6,159	12	6,568
18	36	4,453	30	5,466	19	6,178	10	6,578
19	35	4,488	30	5,496	19	6,197	10	6,588
20	34	4,522	29	5,525	18	6,215	8	6,596
21	34	4,556	29	5,554	17	6,232	8	6,604
22	33	4,589	29	5,583	18	6,250	7	6,611
23	34	4,623	29	5,612	18	6,268	7	6,618
24	34	4,657	27	5,639	17	6,285	6	6,624
25	34	4,691	26	5,665	15	6,300	6	6,630
26	34	4,725	26	5,691	15	6,315	6	6,636
27	34	4,759	25	5,716	14	6,329	5	6,641
28	34	4,793	25	5,741	14	6,343	5	6,646
29	34	4,827	25	5,766	13	6,356	6	6,652
30	35	4,862	25	5,791	14	6,370	3	6,655
31	34	4,896			15	6,385		
Monthly total	1,087		895		594		270	

* Based on 30-year average (1938-67) as compiled by the National Weather Records Center.

TABLE 9. AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 45°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, DOTHAN, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	10	10	18	474	27	1,151	34	2,091	37	3,161
2	11	21	20	494	27	1,178	34	2,125	37	3,198
3	13	34	20	514	27	1,205	33	2,158	37	3,235
4	14	48	21	535	27	1,232	34	2,192	36	3,271
5	12	60	20	555	27	1,259	34	2,226	36	3,307
6	14	74	20	575	27	1,286	34	2,260	36	3,343
7	12	86	20	595	27	1,313	35	2,295	36	3,379
8	10	96	21	616	27	1,340	35	2,330	36	3,415
9	10	106	21	637	28	1,368	36	2,366	36	3,451
10	12	118	21	658	29	1,397	36	2,402	36	3,487
11	15	133	22	680	28	1,425	36	2,438	36	3,523
12	17	150	21	701	29	1,454	36	2,474	36	3,559
13	16	166	19	720	28	1,482	36	2,510	37	3,596
14	15	181	19	739	29	1,511	36	2,546	37	3,633
15	15	196	20	759	29	1,540	36	2,582	37	3,670
16	15	211	20	779	30	1,570	36	2,618	37	3,707
17	15	226	20	799	30	1,600	35	2,653	37	3,744
18	16	242	22	821	31	1,631	35	2,688	37	3,781
19	16	258	22	843	32	1,663	35	2,723	37	3,818
20	15	273	23	866	32	1,695	35	2,758	37	3,855
21	14	287	24	890	32	1,727	36	2,794	37	3,892
22	14	301	25	915	33	1,760	36	2,830	37	3,929
23	16	317	26	941	33	1,793	37	2,867	37	3,966
24	18	335	26	967	33	1,826	37	2,904	36	4,002
25	19	354	26	993	33	1,859	36	2,940	37	4,039
26	18	372	26	1,019	33	1,892	37	2,977	36	4,075
27	17	389	26	1,045	33	1,925	37	3,014	37	4,112
28	17	406	26	1,071	33	1,958	37	3,051	37	4,149
29	16	422	26	1,097	33	1,991	36	3,087	36	4,185
30	17	439	27	1,124	33	2,024	37	3,124	37	4,222
31	17	456			33	2,057			38	4,260
Monthly total	456		668		933		1,067		1,136	

TABLE 9. (Con't.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 45°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, DOTHAN, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	37	4,297	36	5,432	29	6,395	18	7,104
2	37	4,334	36	5,468	29	6,424	17	7,121
3	37	4,371	36	5,504	28	6,452	16	7,137
4	38	4,409	36	5,540	28	6,480	14	7,151
5	38	4,447	36	5,576	28	6,508	16	7,167
6	37	4,484	35	5,611	27	6,535	14	7,181
7	37	4,521	34	5,645	26	6,561	14	7,195
8	37	4,558	34	5,679	25	6,586	13	7,208
9	37	4,595	34	5,713	25	6,611	13	7,221
10	37	4,632	34	5,747	24	6,635	13	7,234
11	37	4,669	33	5,780	24	6,659	13	7,247
12	37	4,706	32	5,812	24	6,683	14	7,261
13	37	4,743	32	5,844	24	6,707	15	7,276
14	37	4,780	32	5,876	24	6,731	16	7,292
15	37	4,817	32	5,908	23	6,754	17	7,309
16	37	4,854	32	5,940	22	6,776	18	7,327
17	37	4,891	32	5,972	23	6,799	16	7,343
18	37	4,928	32	6,004	22	6,821	14	7,357
19	37	4,965	33	6,037	23	6,844	13	7,370
20	36	5,001	32	6,069	22	6,866	12	7,382
21	36	5,037	32	6,101	22	6,888	12	7,394
22	36	5,073	32	6,133	22	6,910	11	7,405
23	36	5,109	31	6,164	22	6,932	11	7,416
24	35	5,144	30	6,194	22	6,954	11	7,427
25	36	5,180	30	6,224	19	6,973	10	7,437
26	35	5,215	29	6,253	19	6,992	10	7,447
27	36	5,251	28	6,281	19	7,011	10	7,457
28	36	5,287	28	6,309	18	7,029	9	7,466
29	36	5,323	28	6,337	18	7,047	8	7,474
30	37	5,360	29	6,366	19	7,066	5	7,479
31	36	5,396			20	7,086		
Monthly total	1,136		970		720		393	

* Based on 28-year (1940-67) average as compiled by the National Weather Records Center.

TABLE 10. AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 45°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, FRISCO CITY, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	10	10	17	423	27	1,066	33	1,984	37	3,029
2	9	19	18	441	27	1,093	33	2,017	36	3,065
3	12	31	18	459	26	1,119	32	2,049	37	3,102
4	12	43	19	478	27	1,146	32	2,081	36	3,138
5	12	55	19	497	27	1,173	33	2,114	36	3,174
6	11	66	20	517	26	1,199	33	2,147	37	3,211
7	11	77	19	536	27	1,226	34	2,181	37	3,248
8	10	87	20	556	27	1,253	34	2,215	36	3,284
9	10	97	20	576	28	1,281	35	2,250	35	3,319
10	11	108	20	596	28	1,309	36	2,286	35	3,354
11	13	121	19	615	27	1,336	34	2,320	34	3,388
12	16	137	20	635	26	1,362	35	2,355	35	3,423
13	16	153	17	652	28	1,390	35	2,390	35	3,458
14	15	168	16	668	28	1,418	35	2,425	36	3,494
15	12	180	18	686	28	1,446	35	2,460	36	3,530
16	11	191	17	703	28	1,474	35	2,495	36	3,566
17	11	202	16	719	29	1,503	35	2,530	36	3,602
18	14	216	19	738	31	1,534	34	2,564	36	3,638
19	15	231	22	760	32	1,566	34	2,598	37	3,675
20	12	243	23	783	31	1,597	35	2,633	37	3,712
21	13	256	24	807	32	1,629	35	2,668	37	3,749
22	11	267	24	831	32	1,661	35	2,703	36	3,785
23	12	279	25	856	33	1,694	36	2,739	36	3,821
24	16	295	27	883	32	1,726	37	2,776	37	3,858
25	18	313	26	909	32	1,758	36	2,812	36	3,894
26	17	330	25	934	33	1,791	36	2,848	37	3,931
27	15	345	26	960	32	1,823	36	2,884	36	3,967
28	14	359	26	986	32	1,855	35	2,919	36	4,003
29	15	374	26	1,012	33	1,888	36	2,955	36	4,039
30	16	390	27	1,039	31	1,919	37	2,992	36	4,075
31	16	406			32	1,951			37	4,112
Monthly total	406		633		912		1,041		1,120	

TABLE 10. (Con't.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 45°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, FRISCO CITY, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	37	4,149	36	5,279	29	6,234	18	6,925
2	36	4,185	36	5,315	29	6,263	16	6,941
3	37	4,222	36	5,351	29	6,292	16	6,957
4	37	4,259	35	5,386	27	6,319	14	6,971
5	36	4,295	35	5,421	26	6,345	13	6,984
6	37	4,332	35	5,456	27	6,372	14	6,998
7	37	4,369	34	5,490	26	6,398	12	7,010
8	38	4,407	34	5,524	23	6,421	11	7,021
9	36	4,443	33	5,557	23	6,444	12	7,033
10	36	4,479	33	5,590	24	6,468	11	7,044
11	36	4,515	33	5,623	23	6,491	10	7,054
12	38	4,553	32	5,655	24	6,515	13	7,067
13	38	4,591	33	5,688	25	6,540	15	7,082
14	38	4,629	32	5,720	26	6,566	17	7,099
15	37	4,666	31	5,751	24	6,590	17	7,116
16	36	4,702	31	5,782	23	6,613	19	7,135
17	37	4,739	32	5,814	24	6,637	18	7,153
18	37	4,776	32	5,846	23	6,660	14	7,167
19	37	4,813	31	5,877	21	6,681	12	7,179
20	36	4,849	32	5,909	20	6,701	11	7,190
21	36	4,885	32	5,941	19	6,720	10	7,200
22	34	4,919	32	5,973	20	6,740	11	7,211
23	35	4,954	32	6,005	21	6,761	11	7,222
24	35	4,989	31	6,036	22	6,783	10	7,232
25	36	5,025	29	6,065	18	6,801	10	7,242
26	35	5,060	29	6,094	17	6,818	10	7,252
27	35	5,095	29	6,123	18	6,836	10	7,262
28	36	5,131	27	6,150	19	6,855	11	7,273
29	37	5,168	27	6,177	17	6,872	8	7,281
30	38	5,206	28	6,205	17	6,889	4	7,285
31	37	5,243			18	6,907		
Monthly total	1,131		962		702		378	

* Based on 17-year (1951-67) average as compiled by the National Weather Records Center.

TABLE 11. AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 45°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, GREENSBORO, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	8	8	17	413	25	1,032	32	1,918	36	4,098
2	10	18	18	431	25	1,057	32	1,950	36	3,001
3	11	29	17	448	25	1,082	32	1,982	36	3,037
4	11	40	18	466	25	1,107	30	2,012	36	3,073
5	12	52	18	484	25	1,132	31	2,043	36	3,109
6	11	63	18	502	26	1,158	33	2,076	36	3,145
7	10	73	19	521	26	1,184	34	2,110	37	3,182
8	8	81	19	540	26	1,210	35	2,145	36	3,218
9	8	89	18	558	26	1,236	36	2,181	36	3,254
10	11	100	18	576	27	1,263	36	2,217	36	3,290
11	14	114	20	596	27	1,290	35	2,252	36	3,326
12	14	128	18	614	27	1,317	35	2,287	35	3,361
13	14	142	17	631	26	1,343	36	2,323	36	3,397
14	13	155	18	649	27	1,370	35	2,358	36	3,433
15	12	167	19	668	28	1,398	34	2,392	37	3,470
16	14	181	19	687	28	1,426	35	2,427	37	3,507
17	12	193	18	705	29	1,455	35	2,462	37	3,544
18	12	205	20	725	30	1,485	35	2,497	37	3,581
19	13	218	21	746	30	1,515	36	2,533	37	3,618
20	13	231	21	767	30	1,545	36	2,569	37	3,655
21	13	244	22	789	31	1,576	35	2,604	37	3,692
22	11	255	23	812	31	1,607	36	2,640	37	3,729
23	13	268	24	836	31	1,638	36	2,676	37	3,766
24	18	286	24	860	31	1,669	36	2,712	37	3,803
25	17	303	24	884	31	1,700	36	2,748	37	3,840
26	17	320	24	908	31	1,731	36	2,784	37	3,877
27	15	335	24	932	31	1,762	36	2,820	37	3,914
28	14	349	25	957	31	1,793	37	2,857	37	3,951
29	15	364	25	982	31	1,824	36	2,893	37	3,988
30	16	380	25	1,007	31	1,855	36	2,929	37	4,025
31	16	396			31	1,886			37	4,062
Monthly total	396		611		879		1,043		1,133	

TABLE 11. (Con't.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 45°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, GREENSBORO, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	36	4,098	36	5,234	28	6,187	18	6,875
2	37	4,135	36	5,270	28	6,215	18	6,893
3	37	4,172	36	5,306	27	6,242	16	6,909
4	37	4,209	36	5,342	28	6,270	12	6,921
5	37	4,246	36	5,378	28	6,298	14	6,935
6	37	4,283	35	5,413	28	6,326	13	6,948
7	37	4,320	35	5,448	26	6,352	13	6,961
8	37	4,357	35	5,483	24	6,376	12	6,973
9	37	4,394	34	5,517	24	6,400	12	6,985
10	37	4,431	34	5,551	24	6,424	11	6,996
11	37	4,468	33	5,584	23	6,447	11	7,007
12	37	4,505	32	5,616	23	6,470	12	7,019
13	37	4,542	32	5,648	24	6,494	14	7,033
14	37	4,579	31	5,679	23	6,517	15	7,048
15	37	4,616	31	5,710	22	6,539	15	7,063
16	37	4,653	31	5,741	22	6,561	15	7,078
17	38	4,691	32	5,773	22	6,583	13	7,091
18	37	4,728	32	5,805	23	6,606	13	7,104
19	36	4,764	32	5,837	22	6,628	12	7,116
20	36	4,800	32	5,869	21	6,649	10	7,126
21	36	4,836	31	5,900	21	6,670	10	7,136
22	35	4,871	31	5,931	22	6,692	9	7,145
23	36	4,907	31	5,962	21	6,713	9	7,154
24	36	4,943	30	5,992	20	6,733	8	7,162
25	36	4,979	29	6,021	19	6,752	8	7,170
26	36	5,015	28	6,049	19	6,771	9	7,179
27	36	5,051	28	6,077	17	6,788	8	7,187
28	37	5,088	28	6,105	16	6,804	7	7,194
29	37	5,125	27	6,132	16	6,820	6	7,200
30	37	5,162	27	6,159	18	6,838	5	7,205
31	36	5,198			19	6,857		
Monthly total	1,136		961		698		348	

* Based on 30-year average (1938-67) as compiled by the National Weather Records Center.

TABLE 12. AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 45°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, MADISON, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	5	5	14	270	22	771	30	1,558	34	2,531
2	6	11	13	283	22	793	29	1,587	33	2,564
3	8	19	13	296	22	815	29	1,616	33	2,597
4	7	26	14	310	21	836	29	1,645	34	2,631
5	7	33	13	323	22	858	30	1,675	34	2,665
6	7	40	13	336	23	881	30	1,705	34	2,699
7	5	45	15	351	22	903	31	1,736	34	2,733
8	6	51	14	365	22	925	32	1,768	35	2,768
9	5	56	14	379	22	947	33	1,801	35	2,803
10	5	61	14	393	23	970	33	1,834	34	2,837
11	8	69	14	407	23	993	33	1,867	34	2,871
12	9	78	14	421	24	1,017	33	1,900	33	2,904
13	9	87	13	434	23	1,040	33	1,933	34	2,938
14	9	96	13	447	24	1,064	33	1,966	35	2,973
15	8	104	16	463	25	1,089	31	1,997	35	3,008
16	9	113	16	479	25	1,114	32	2,029	35	3,043
17	7	120	15	494	26	1,140	32	2,061	35	3,078
18	8	128	16	510	28	1,168	32	2,093	36	3,114
19	9	137	17	527	28	1,196	34	2,127	35	3,149
20	9	146	17	544	27	1,223	33	2,160	35	3,184
21	8	154	19	563	27	1,250	33	2,193	35	3,219
22	7	161	20	583	27	1,277	34	2,227	35	3,254
23	8	169	20	603	27	1,304	34	2,261	35	3,289
24	11	180	21	624	27	1,331	33	2,294	35	3,324
25	12	192	21	645	28	1,359	33	2,327	34	3,358
26	12	204	20	665	28	1,387	34	2,361	35	3,393
27	10	214	20	685	28	1,415	34	2,395	35	3,428
28	9	223	21	706	29	1,444	34	2,429	35	3,463
29	11	234	22	728	28	1,472	34	2,463	36	3,499
30	11	245	21	749	28	1,500	34	2,497	36	3,535
31	11	256			28	1,528			35	3,570
Monthly total	256		493		779		969		1,073	

TABLE 12. (Cont.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 45°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, MADISON, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	35	3,605	33	4,669	24	5,515	14	6,063
2	35	3,640	33	4,702	23	5,538	13	6,076
3	36	3,676	33	4,735	24	5,562	12	6,088
4	36	3,712	34	4,769	23	5,585	9	6,097
5	35	3,747	33	4,802	23	5,608	9	6,106
6	35	3,782	32	4,834	24	5,632	9	6,115
7	35	3,817	32	4,866	22	5,654	9	6,124
8	35	3,852	31	4,897	20	5,674	8	6,132
9	35	3,887	30	4,927	18	5,692	7	6,139
10	34	3,921	31	4,958	19	5,711	8	6,147
11	35	3,956	29	4,987	19	5,730	7	6,154
12	35	3,991	29	5,016	18	5,748	8	6,162
13	35	4,026	29	5,045	19	5,767	9	6,171
14	35	4,061	28	5,073	19	5,786	9	6,180
15	35	4,096	28	5,101	19	5,805	10	6,190
16	35	4,131	28	5,129	18	5,823	11	6,201
17	35	4,166	28	5,157	18	5,841	9	6,210
18	34	4,200	28	5,185	18	5,859	9	6,219
19	34	4,234	29	5,214	18	5,877	9	6,228
20	33	4,267	28	5,242	17	5,894	7	6,235
21	33	4,300	27	5,269	17	5,911	7	6,242
22	33	4,333	27	5,296	16	5,927	6	6,248
23	34	4,367	27	5,323	16	5,943	5	6,253
24	33	4,400	25	5,348	15	5,958	4	6,257
25	34	4,434	24	5,372	13	5,971	4	6,261
26	33	4,467	24	5,396	13	5,984	5	6,266
27	33	4,500	24	5,420	13	5,997	4	6,270
28	34	4,534	24	5,444	13	6,010	4	6,274
29	34	4,568	23	5,467	11	6,021	3	6,277
30	34	4,602	24	5,491	14	6,035	2	6,279
31	34	4,636			14	6,049		
Monthly total	1,066		855		558		230	

* Based on 30-year average (1938-67) as compiled by the National Weather Records Center.

TABLE 13. AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 45°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, ONEONTA, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	6	6	11	236	22	715	27	1,481	33	2,417
2	4	10	12	248	22	737	27	1,508	33	2,450
3	7	17	14	262	21	758	27	1,535	33	2,483
4	6	23	14	276	21	779	28	1,563	34	2,517
5	7	30	13	289	22	801	29	1,592	35	2,552
6	7	37	12	301	22	823	29	1,621	35	2,587
7	6	43	14	315	21	844	29	1,650	35	2,622
8	6	49	12	327	22	866	31	1,681	34	2,656
9	6	55	13	340	22	888	32	1,713	34	2,690
10	5	60	14	354	23	911	32	1,745	31	2,721
11	7	67	14	368	24	935	31	1,776	31	2,752
12	9	76	15	383	24	959	32	1,808	32	2,784
13	10	86	13	396	23	982	32	1,840	33	2,817
14	8	94	9	405	23	1,005	33	1,873	34	2,851
15	6	100	13	418	24	1,029	31	1,904	34	2,885
16	4	104	11	429	25	1,054	31	1,935	34	2,919
17	4	108	10	439	24	1,078	31	1,966	34	2,953
18	7	115	13	452	27	1,105	30	1,996	34	2,987
19	7	122	17	469	27	1,132	31	2,027	34	3,021
20	7	129	18	487	27	1,159	32	2,059	35	3,056
21	8	137	19	506	26	1,185	32	2,091	36	3,092
22	6	143	19	525	27	1,212	32	2,123	35	3,127
23	4	147	21	546	28	1,240	33	2,156	35	3,162
24	9	156	22	568	26	1,266	33	2,189	35	3,197
25	11	167	22	590	28	1,294	33	2,222	34	3,231
26	11	178	20	610	27	1,321	33	2,255	34	3,265
27	10	188	21	631	27	1,348	32	2,287	35	3,300
28	8	196	21	652	27	1,375	32	2,319	35	3,335
29	9	205	21	673	27	1,402	32	2,351	35	3,370
30	10	215	20	693	26	1,428	33	2,384	36	3,406
31	10	225			26	1,454			35	3,441
Monthly total	225		468		761		930		1,057	

TABLE 13. (Cont.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 45°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, ONEONTA, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	34	3,475	32	4,506	24	5,318	11	5,818
2	35	3,510	32	4,538	24	5,342	10	5,828
3	35	3,545	31	4,569	23	5,365	10	5,838
4	34	3,579	32	4,601	23	5,388	8	5,846
5	34	3,613	31	4,632	21	5,409	8	5,854
6	34	3,647	30	4,662	22	5,431	7	5,861
7	34	3,681	30	4,692	21	5,452	5	5,866
8	34	3,715	29	4,721	18	5,470	5	5,871
9	33	3,748	29	4,750	17	5,487	6	5,877
10	33	3,781	29	4,779	17	5,504	6	5,883
11	33	3,814	28	4,807	18	5,522	4	5,887
12	35	3,849	29	4,836	18	5,540	6	5,893
13	35	3,884	29	4,865	18	5,558	8	5,901
14	34	3,918	27	4,892	19	5,577	10	5,911
15	34	3,952	26	4,918	18	5,595	11	5,922
16	33	3,985	27	4,945	17	5,612	12	5,934
17	34	4,019	28	4,973	18	5,630	10	5,944
18	34	4,053	28	5,001	17	5,647	8	5,952
19	34	4,087	27	5,028	16	5,663	8	5,960
20	33	4,120	27	5,055	14	5,677	6	5,966
21	33	4,153	26	5,081	13	5,690	6	5,972
22	31	4,184	26	5,107	14	5,704	6	5,978
23	31	4,215	26	5,133	15	5,719	6	5,984
24	31	4,246	25	5,158	14	5,733	5	5,989
25	32	4,278	23	5,181	10	5,743	4	5,993
26	32	4,310	23	5,204	10	5,753	5	5,998
27	32	4,342	23	5,227	11	5,764	4	6,002
28	33	4,375	23	5,250	12	5,776	4	6,006
29	33	4,408	22	5,272	10	5,786	4	6,010
30	33	4,441	22	5,294	10	5,796	1	6,011
31	33	4,474			11	5,807		
Monthly total	1,033		820		513		204	

* Based on 17-year average (1951-67) as compiled by the National Weather Records Center.

TABLE 14. AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 45°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, ROBERTSDALE, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	11	11	19	499	27	1,171	32	2,077	36	3,114
2	11	22	20	519	27	1,198	32	2,109	36	3,150
3	13	35	19	538	27	1,225	32	2,141	35	3,185
4	14	49	20	558	26	1,251	32	2,173	36	3,221
5	15	64	21	579	26	1,277	32	2,205	36	3,257
6	15	79	21	600	26	1,303	32	2,238	36	3,293
7	13	92	21	621	26	1,329	33	2,271	36	3,329
8	11	103	21	642	27	1,356	34	2,305	35	3,364
9	11	114	20	662	27	1,383	34	2,339	36	3,400
10	13	127	21	683	27	1,410	35	2,374	35	3,435
11	16	143	21	704	27	1,437	34	2,408	35	3,470
12	16	159	21	725	27	1,464	35	2,443	35	3,505
13	17	176	19	744	27	1,491	35	2,478	36	3,541
14	16	192	19	763	28	1,519	35	2,513	35	3,576
15	17	209	20	783	28	1,547	35	2,548	36	3,612
16	16	225	21	804	28	1,575	35	2,583	36	3,648
17	15	240	20	824	29	1,604	35	2,618	36	3,684
18	16	256	21	845	30	1,634	35	2,653	36	3,720
19	17	273	22	867	30	1,664	34	2,687	36	3,756
20	15	288	23	890	31	1,695	35	2,722	36	3,792
21	15	303	23	913	32	1,727	35	2,757	36	3,828
22	15	318	24	937	32	1,759	35	2,792	36	3,864
23	15	333	24	961	32	1,791	36	2,828	35	3,899
24	19	352	26	987	32	1,823	36	2,864	36	3,935
25	18	370	25	1,012	31	1,854	35	2,899	36	3,971
26	20	390	25	1,037	31	1,885	36	2,935	36	4,007
27	18	408	26	1,063	32	1,917	36	2,971	36	4,043
28	17	425	27	1,090	32	1,949	36	3,007	36	4,079
29	18	443	27	1,117	32	1,981	36	3,043	36	4,115
30	18	461	27	1,144	32	2,013	35	3,078	36	4,151
31	19	480			32	2,045			36	4,187
Monthly total	480		664		901		1,033		1,109	

TABLE 14. (Cont.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 45°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, ROBERTSDALE, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	36	4,223	35	5,334	28	6,299	19	7,025
2	36	4,259	36	5,370	28	6,327	19	7,044
3	36	4,295	35	5,405	29	6,356	18	7,062
4	37	4,332	35	5,440	29	6,385	16	7,078
5	36	4,368	35	5,475	28	6,413	16	7,094
6	36	4,404	35	5,510	28	6,441	16	7,110
7	36	4,440	34	5,544	27	6,468	15	7,125
8	36	4,476	34	5,578	26	6,494	14	7,139
9	36	4,512	34	5,612	25	6,519	14	7,153
10	36	4,548	34	5,646	25	6,544	14	7,167
11	36	4,584	34	5,680	24	6,568	14	7,181
12	37	4,621	33	5,713	24	6,592	14	7,195
13	36	4,657	32	5,745	25	6,617	16	7,211
14	36	4,693	32	5,777	25	6,642	18	7,229
15	36	4,729	32	5,809	24	6,666	17	7,246
16	37	4,766	32	5,841	23	6,689	18	7,264
17	36	4,802	32	5,873	23	6,712	17	7,281
18	37	4,839	32	5,905	23	6,735	15	7,296
19	36	4,875	32	5,937	23	6,758	15	7,311
20	35	4,910	33	5,970	22	6,780	13	7,324
21	35	4,945	32	6,002	22	6,802	13	7,337
22	35	4,980	31	6,033	23	6,825	13	7,350
23	35	5,015	31	6,064	23	6,848	12	7,362
24	35	5,050	31	6,095	22	6,870	11	7,373
25	35	5,085	30	6,125	20	6,890	11	7,384
26	36	5,121	30	6,155	20	6,910	12	7,396
27	35	5,156	30	6,185	20	6,930	11	7,407
28	35	5,191	29	6,214	19	6,949	11	7,418
29	36	5,227	28	6,242	18	6,967	9	7,427
30	36	5,263	29	6,271	19	6,986	7	7,434
31	36	5,299			20	7,006		
Monthly total	1,112		972		735		428	

* Based on 30-year average (1938-67) as compiled by the National Weather Records Center.

TABLE 15. AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 40°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, CLANTON, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	10	10	20	485	29	1,190	36	2,185	40	3,342
2	10	20	20	505	29	1,219	36	2,221	40	3,382
3	13	33	20	525	28	1,247	35	2,256	40	3,422
4	13	46	21	546	28	1,275	36	2,292	40	3,462
5	14	60	21	567	29	1,304	36	2,328	40	3,502
6	14	74	20	587	28	1,332	37	2,365	40	3,542
7	12	86	21	608	29	1,361	38	2,403	40	3,582
8	10	96	21	629	29	1,390	38	2,441	40	3,622
9	10	106	22	651	29	1,419	39	2,480	40	3,662
10	12	118	22	673	30	1,449	39	2,519	39	3,701
11	14	132	23	696	30	1,479	39	2,558	39	3,740
12	17	149	22	718	30	1,509	39	2,597	39	3,779
13	17	166	20	738	31	1,540	39	2,636	40	3,819
14	16	182	20	758	31	1,571	40	2,676	41	3,860
15	15	197	22	780	31	1,602	38	2,714	41	3,901
16	16	213	23	803	31	1,633	38	2,752	41	3,942
17	14	227	21	824	32	1,665	38	2,790	41	3,983
18	15	242	22	846	34	1,699	38	2,828	41	4,024
19	16	258	23	869	35	1,734	39	2,867	41	4,065
20	16	274	24	893	34	1,768	40	2,907	41	4,106
21	14	288	24	917	34	1,802	38	2,945	41	4,147
22	14	302	25	942	34	1,836	39	2,984	40	4,187
23	15	317	27	969	35	1,871	39	3,023	40	4,227
24	19	336	28	997	34	1,905	40	3,063	41	4,268
25	19	355	28	1,025	35	1,940	40	3,103	40	4,308
26	21	376	27	1,052	35	1,975	40	3,143	41	4,349
27	18	394	27	1,079	35	2,010	40	3,183	41	4,390
28	17	411	27	1,106	35	2,045	40	3,223	41	4,431
29	18	429	28	1,134	35	2,080	40	3,263	41	4,472
30	18	447	27	1,161	34	2,114	39	3,302	41	4,513
31	18	465			35	2,149			41	4,554
Monthly total	465		696		988		1,153		1,252	

TABLE 15. (Con't.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 40°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, CLANTON, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	41	4,595	39	5,835	30	6,871	20	7,610
2	41	4,636	39	5,874	30	6,901	19	7,629
3	41	4,677	38	5,912	30	6,931	18	7,647
4	42	4,719	40	5,952	29	6,960	15	7,662
5	41	4,760	39	5,991	29	6,989	15	7,677
6	41	4,801	38	6,029	30	7,019	16	7,693
7	41	4,842	38	6,067	29	7,048	15	7,708
8	41	4,883	38	6,105	26	7,074	13	7,721
9	40	4,923	37	6,142	25	7,099	13	7,734
10	40	4,963	37	6,179	25	7,124	13	7,747
11	40	5,003	36	6,215	24	7,148	13	7,760
12	41	5,044	35	6,250	24	7,172	12	7,772
13	41	5,085	35	6,285	25	7,197	15	7,787
14	40	5,125	35	6,320	26	7,223	15	7,802
15	40	5,165	33	6,353	25	7,248	16	7,818
16	41	5,206	34	6,387	23	7,271	16	7,834
17	41	5,247	34	6,421	23	7,294	17	7,851
18	41	5,288	35	6,456	24	7,318	15	7,866
19	40	5,328	35	6,491	24	7,342	14	7,880
20	39	5,367	34	6,525	23	7,365	12	7,892
21	39	5,406	34	6,559	22	7,387	12	7,904
22	38	5,444	34	6,593	23	7,410	11	7,915
23	39	5,483	34	6,627	23	7,433	11	7,926
24	39	5,522	32	6,659	22	7,455	10	7,936
25	39	5,561	31	6,690	20	7,475	10	7,946
26	39	5,600	31	6,721	20	7,495	10	7,956
27	39	5,639	30	6,751	19	7,514	9	7,965
28	39	5,678	30	6,781	19	7,533	9	7,974
29	39	5,717	30	6,811	18	7,551	9	7,983
30	40	5,757	30	6,841	19	7,570	6	7,989
31	39	5,796			20	7,590		
Monthly total	1,242		1,045		749		399	

* Based on 30-year average (1938-67) as compiled by the National Weather Records Center.

TABLE 16. AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 40°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, DOTHAN, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	15	15	23	628	32	1,455	39	2,550	42	3,770
2	16	31	25	653	32	1,487	39	2,589	42	3,812
3	17	48	25	678	32	1,519	38	2,627	42	3,854
4	18	66	26	704	32	1,551	39	2,666	41	3,895
5	17	83	25	729	32	1,583	39	2,705	41	3,936
6	18	101	25	754	32	1,615	39	2,744	41	3,977
7	17	118	25	779	32	1,647	40	2,784	41	4,018
8	14	132	26	805	32	1,679	40	2,824	41	4,059
9	15	147	26	831	33	1,712	41	2,865	41	4,100
10	17	164	26	857	34	1,746	41	2,906	41	4,141
11	20	184	27	884	33	1,779	41	2,947	41	4,182
12	22	206	26	910	34	1,813	41	2,988	41	4,223
13	21	227	24	934	33	1,846	41	3,029	42	4,265
14	20	247	24	958	34	1,880	41	3,070	42	4,307
15	20	267	25	983	34	1,914	41	3,111	42	4,349
16	20	287	25	1,008	35	1,949	41	3,152	42	4,391
17	20	307	25	1,033	35	1,984	40	3,192	42	4,433
18	21	328	27	1,060	36	2,020	40	3,232	42	4,475
19	21	349	27	1,087	37	2,057	40	3,272	42	4,517
20	19	368	28	1,115	37	2,094	40	3,312	42	4,559
21	19	387	29	1,144	37	2,131	41	3,353	42	4,601
22	19	406	30	1,174	38	2,169	41	3,394	42	4,643
23	21	427	31	1,205	38	2,207	42	3,436	42	4,685
24	23	450	31	1,236	38	2,245	42	3,478	41	4,726
25	24	474	31	1,267	38	2,283	41	3,519	42	4,768
26	23	497	31	1,298	38	2,321	42	3,561	41	4,809
27	22	519	31	1,329	38	2,359	42	3,603	42	4,851
28	21	540	31	1,360	38	2,397	42	3,645	42	4,893
29	21	561	31	1,391	38	2,435	41	3,686	41	4,934
30	22	583	32	1,423	38	2,473	42	3,728	42	4,976
31	22	605			38	2,511			43	5,019
Monthly total	605		818		1,088		1,217		1,291	

TABLE 16. (Con't.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 40°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, DOTHAN, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	42	5,061	41	6,351	34	7,464	23	8,328
2	42	5,103	41	6,392	34	7,508	22	8,350
3	42	5,145	41	6,433	33	7,531	21	8,371
4	43	5,188	41	6,474	33	7,564	19	8,390
5	43	5,231	41	6,515	33	7,597	21	8,411
6	42	5,273	40	6,555	32	7,629	19	8,430
7	42	5,315	39	6,594	31	7,660	19	8,449
8	42	5,357	39	6,633	30	7,690	17	8,466
9	42	5,399	39	6,672	30	7,720	18	8,484
10	42	5,441	39	6,711	29	7,749	18	8,502
11	42	5,483	38	6,749	29	7,778	18	8,520
12	42	5,525	37	6,786	29	7,807	19	8,539
13	42	5,567	37	6,823	29	7,836	20	8,559
14	42	5,609	37	6,860	29	7,865	21	8,580
15	42	5,651	37	6,897	28	7,893	21	8,601
16	42	5,693	37	6,934	27	7,920	22	8,623
17	42	5,735	37	6,971	28	7,948	21	8,644
18	42	5,777	37	7,018	27	7,975	19	8,663
19	42	5,819	38	7,046	28	8,003	18	8,681
20	41	5,860	37	7,083	27	8,030	17	8,698
21	41	5,901	37	7,120	27	8,057	17	8,715
22	41	5,942	37	7,157	27	8,084	16	8,731
23	41	5,983	36	7,193	27	8,111	16	8,747
24	40	6,023	35	7,228	27	8,138	16	8,763
25	41	6,064	35	7,263	24	8,162	14	8,777
26	40	6,104	34	7,297	24	8,186	15	8,792
27	41	6,145	33	7,330	24	8,210	14	8,806
28	41	6,186	33	7,363	23	8,233	13	8,819
29	41	6,227	33	7,396	23	8,256	12	8,831
30	42	6,269	34	7,430	24	8,280	9	8,840
31	41	6,310			25	8,305		
Monthly total	1,291		1,120		875		535	

* Based on 28-year average (1940-67) as compiled by the National Weather Records Center.

TABLE 17. AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 40°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, FRISCO CITY, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	15	15	22	576	32	1,369	38	2,442	42	3,637
2	14	29	23	599	32	1,401	38	2,480	41	3,678
3	17	46	23	622	31	1,432	37	2,517	42	3,720
4	16	62	24	646	32	1,464	37	2,554	41	3,761
5	16	78	24	670	32	1,496	38	2,592	41	3,802
6	15	93	25	695	31	1,527	38	2,630	42	3,844
7	15	108	24	719	32	1,559	39	2,669	42	3,886
8	14	122	25	744	32	1,591	39	2,708	41	3,927
9	14	136	25	769	33	1,624	40	2,748	40	3,967
10	16	152	25	794	33	1,657	41	2,789	40	4,007
11	18	170	24	818	32	1,689	39	2,828	39	4,046
12	21	191	25	843	31	1,720	40	2,868	40	4,086
13	21	212	22	865	33	1,753	40	2,908	40	4,126
14	20	232	21	886	33	1,786	40	2,948	41	4,167
15	17	249	23	909	33	1,819	40	2,988	41	4,208
16	16	265	22	931	33	1,852	40	3,028	41	4,249
17	16	281	21	952	34	1,886	40	3,068	41	4,290
18	19	300	24	976	36	1,922	39	3,107	41	4,331
19	20	320	27	1,003	37	1,959	39	3,146	42	4,373
20	17	337	28	1,031	36	1,995	40	3,186	42	4,415
21	17	354	29	1,060	37	2,032	40	3,226	42	4,457
22	16	370	29	1,089	37	2,069	40	3,266	41	4,498
23	17	387	30	1,119	38	2,107	41	3,307	41	4,539
24	21	408	32	1,151	37	2,144	42	3,349	42	4,581
25	23	431	31	1,182	37	2,181	41	3,390	41	4,622
26	22	453	30	1,212	38	2,219	41	3,431	42	4,664
27	20	473	31	1,243	37	2,256	41	3,472	41	4,705
28	19	492	31	1,274	37	2,293	40	3,512	41	4,746
29	20	512	31	1,305	38	2,331	41	3,553	41	4,787
30	21	533	32	1,337	36	2,367	42	3,595	41	4,828
31	21	554			37	2,404			42	4,870
Monthly total	554		783		1,067		1,191		1,275	

TABLE 17. (Con't.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 40°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, FRISCO CITY, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	42	4,912	41	6,197	34	7,302	23	8,148
2	41	4,953	41	6,238	34	7,336	21	8,169
3	42	4,995	41	6,279	34	7,370	21	8,190
4	42	5,037	40	6,319	32	7,402	19	8,209
5	41	5,078	40	6,359	31	7,433	18	8,227
6	42	5,120	40	6,399	32	7,465	19	8,246
7	42	5,162	39	6,438	31	7,496	17	8,263
8	43	5,205	39	6,477	28	7,524	16	8,279
9	41	5,246	38	6,515	28	7,552	16	8,295
10	41	5,287	38	6,553	29	7,581	16	8,311
11	41	5,328	38	6,591	28	7,609	15	8,326
12	43	5,371	37	6,628	29	7,638	18	8,344
13	43	5,414	38	6,666	30	7,668	20	8,364
14	43	5,457	37	6,703	31	7,699	22	8,386
15	42	5,499	36	6,739	29	7,728	22	8,408
16	41	5,540	36	6,775	28	7,756	24	8,432
17	42	5,582	37	6,812	29	7,785	23	8,455
18	42	5,624	37	6,849	28	7,813	18	8,473
19	42	5,666	36	6,885	26	7,839	17	8,490
20	41	5,707	37	6,922	25	7,864	16	8,506
21	41	5,748	37	6,959	24	7,888	15	8,521
22	39	5,787	37	6,996	25	7,913	15	8,536
23	40	5,827	37	7,033	26	7,939	15	8,551
24	40	5,867	36	7,069	27	7,966	15	8,566
25	41	5,908	34	7,103	23	7,989	15	8,581
26	40	5,948	34	7,137	22	8,011	14	8,595
27	40	5,988	34	7,171	23	8,034	15	8,610
28	41	6,029	32	7,203	24	8,058	15	8,625
29	42	6,071	32	7,235	22	8,080	13	8,638
30	43	6,114	33	7,268	22	8,102	7	8,645
31	42	6,156			23	8,125		
Monthly total	1,286		1,112		857		520	

* Based on 18-year average (1950-67) as compiled by the National Weather Records Center.

TABLE 18. AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 40°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, GREENSBORO, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	12	12	22	562	30	1,331	37	2,372	41	3,569
2	14	26	23	585	30	1,361	37	2,409	41	3,610
3	15	41	22	607	30	1,391	37	2,446	41	3,651
4	15	56	23	630	30	1,421	35	2,481	41	3,692
5	16	72	23	653	30	1,451	36	2,517	41	3,733
6	16	88	23	676	31	1,482	38	2,555	41	3,774
7	14	102	24	700	31	1,513	39	2,594	42	3,816
8	12	114	24	724	31	1,544	40	2,634	41	3,857
9	13	127	23	747	31	1,575	41	2,675	41	3,898
10	16	143	23	770	32	1,607	41	2,716	41	3,939
11	19	162	25	795	32	1,639	40	2,756	41	3,980
12	19	181	23	818	32	1,671	40	2,796	40	4,020
13	19	200	22	840	31	1,702	41	2,837	41	4,061
14	17	217	23	863	32	1,734	40	2,877	41	4,102
15	17	234	24	887	33	1,767	39	2,916	42	4,144
16	18	252	24	911	33	1,800	40	2,956	42	4,186
17	17	269	23	934	34	1,834	40	2,996	42	4,228
18	17	286	25	959	35	1,869	40	3,036	42	4,270
19	18	304	26	985	35	1,904	41	3,077	42	4,312
20	17	321	26	1,011	35	1,939	41	3,118	42	4,354
21	17	338	27	1,038	36	1,975	40	3,158	42	4,396
22	16	354	28	1,066	36	2,011	41	3,199	42	4,438
23	18	372	29	1,095	36	2,047	41	3,240	42	4,480
24	23	395	29	1,124	36	2,083	41	3,281	42	4,522
25	22	417	29	1,153	36	2,119	41	3,322	42	4,564
26	22	439	29	1,182	36	2,155	41	3,363	42	4,606
27	20	459	29	1,211	36	2,191	41	3,404	42	4,648
28	19	478	30	1,241	36	2,227	42	3,446	42	4,690
29	20	498	30	1,271	36	2,263	41	3,487	42	4,732
30	21	519	30	1,301	36	2,299	41	3,528	42	4,774
31	21	540			36	2,335			42	4,816
Monthly total	540		761		1,034		1,193		1,288	

TABLE 18. (Con't.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 40°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, GREENSBORO, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	41	4,857	41	6,148	33	7,251	23	8,094
2	42	4,899	41	6,189	33	7,284	23	8,117
3	42	4,941	41	6,230	32	7,316	21	8,138
4	42	4,983	41	6,271	33	7,349	17	8,155
5	42	5,025	41	6,312	33	7,382	19	8,174
6	42	5,067	40	6,352	33	7,415	18	8,192
7	42	5,109	40	6,392	31	7,446	18	8,210
8	42	5,151	40	6,432	29	7,475	17	8,227
9	42	5,193	39	6,471	29	7,504	17	8,244
10	42	5,235	39	6,510	29	7,533	16	8,260
11	42	5,277	38	6,548	28	7,561	16	8,276
12	42	5,319	37	6,585	28	7,589	17	8,293
13	42	5,361	37	6,622	29	7,618	19	8,312
14	42	5,403	36	6,658	28	7,646	20	8,332
15	42	5,445	36	6,694	27	7,673	20	8,352
16	42	5,487	36	6,730	27	7,700	20	8,372
17	43	5,530	37	6,767	27	7,727	18	8,390
18	42	5,572	37	6,804	28	7,755	17	8,407
19	41	5,613	37	6,841	27	7,782	17	8,424
20	41	5,654	37	6,878	26	7,808	15	8,439
21	41	5,695	36	6,914	26	7,834	14	8,453
22	40	5,735	36	6,950	27	7,861	14	8,467
23	41	5,776	36	6,986	26	7,887	13	8,480
24	41	5,817	35	7,021	25	7,912	12	8,492
25	41	5,858	34	7,055	24	7,936	12	8,504
26	41	5,899	33	7,088	24	7,960	14	8,518
27	41	5,940	33	7,121	22	7,982	12	8,530
28	42	5,982	33	7,154	21	8,003	11	8,541
29	42	6,024	32	7,186	21	8,024	10	8,551
30	42	6,066	32	7,218	23	8,047	8	8,559
31	41	6,107			24	8,071		
Monthly total	1,291		1,111		853		488	

* Based on 30-year average (1938-67) as compiled by the National Weather Records Center.

TABLE 19. AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 40°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, MADISON, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	8	8	18	396	27	1,045	35	1,987	39	3,110
2	9	17	18	414	27	1,072	34	2,021	38	3,148
3	12	29	18	432	27	1,099	34	2,055	38	3,186
4	11	40	19	451	26	1,125	34	2,089	39	3,225
5	11	51	18	469	27	1,152	35	2,124	39	3,264
6	11	62	18	487	28	1,180	35	2,159	39	3,303
7	9	71	19	506	27	1,207	36	2,195	39	3,342
8	9	80	19	525	27	1,234	37	2,232	40	3,382
9	8	88	19	544	27	1,261	38	2,270	40	3,422
10	9	97	19	563	28	1,289	38	2,308	39	3,461
11	12	109	19	582	28	1,317	38	2,346	39	3,500
12	13	122	19	601	29	1,346	38	2,384	38	3,538
13	13	135	18	619	28	1,374	38	2,422	39	3,577
14	13	148	18	637	29	1,403	38	2,460	40	3,617
15	12	160	21	658	30	1,433	36	2,496	40	3,657
16	12	172	21	679	30	1,463	37	2,533	40	3,697
17	10	182	20	699	31	1,494	37	2,570	40	3,737
18	12	194	21	720	33	1,527	37	2,607	41	3,778
19	13	207	22	742	33	1,560	39	2,646	40	3,818
20	13	220	22	764	32	1,592	38	2,684	40	3,858
21	12	232	23	787	32	1,624	38	2,722	40	3,898
22	11	243	25	812	32	1,656	39	2,761	40	3,938
23	12	255	25	837	32	1,688	39	2,800	40	3,978
24	16	271	26	863	32	1,720	38	2,838	40	4,018
25	16	287	26	889	33	1,753	38	2,876	39	4,057
26	16	303	25	914	33	1,786	39	2,915	40	4,097
27	14	317	25	939	33	1,819	39	2,954	40	4,137
28	14	331	26	965	34	1,853	39	2,993	40	4,177
29	15	346	27	992	33	1,886	39	3,032	41	4,218
30	16	362	26	1,018	33	1,919	39	3,071	41	4,259
31	16	378			33	1,952			40	4,299
Monthly total	378		640		934		1,119		1,228	

TABLE 19. (Con't.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 40°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, MADISON, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	40	4,339	38	5,558	29	6,554	18	7,255
2	40	4,379	38	5,596	28	6,582	18	7,273
3	41	4,420	38	5,634	29	6,611	17	7,290
4	41	4,461	39	5,673	28	6,639	13	7,303
5	40	4,501	38	5,711	28	6,667	13	7,316
6	40	4,541	37	5,748	29	6,696	13	7,329
7	40	4,581	37	5,785	27	6,723	13	7,342
8	40	4,621	36	5,821	25	6,748	12	7,354
9	40	4,661	35	5,856	23	6,771	11	7,365
10	39	4,700	36	5,892	24	6,795	12	7,377
11	40	4,740	34	5,926	24	6,819	11	7,388
12	40	4,780	34	5,960	23	6,842	12	7,400
13	40	4,820	34	5,994	24	6,866	14	7,414
14	40	4,860	33	6,027	24	6,890	14	7,428
15	40	4,900	33	6,060	24	6,914	15	7,443
16	40	4,940	33	6,093	23	6,937	16	7,459
17	40	4,980	33	6,126	23	6,960	13	7,472
18	39	5,019	33	6,159	23	6,983	13	7,485
19	39	5,058	34	6,193	23	7,006	13	7,498
20	38	5,096	33	6,226	22	7,028	11	7,509
21	38	5,134	32	6,258	22	7,050	11	7,520
22	38	5,172	32	6,290	21	7,071	10	7,530
23	39	5,211	32	6,322	21	7,092	9	7,539
24	38	5,249	30	6,352	20	7,112	8	7,547
25	39	5,288	29	6,381	18	7,130	7	7,554
26	38	5,326	29	6,410	18	7,148	9	7,563
27	38	5,364	29	6,439	17	7,165	8	7,571
28	39	5,403	29	6,468	18	7,183	7	7,578
29	39	5,442	28	6,496	16	7,199	6	7,584
30	39	5,481	29	6,525	19	7,218	4	7,588
31	39	5,520			19	7,237		
Monthly total	1,221		1,005		712		351	

* Based on 30-year average (1938-67) as compiled by the National Weather Records Center.

TABLE 20. AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 40°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, ONEONTA, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	9	9	16	361	27	988	32	1,909	38	2,995
2	7	16	17	378	27	1,015	32	1,941	38	3,033
3	10	26	19	397	26	1,041	32	1,973	38	3,071
4	10	36	19	416	26	1,067	33	2,006	39	3,110
5	10	46	18	434	27	1,094	34	2,040	40	3,150
6	11	57	17	451	27	1,121	34	2,074	40	3,190
7	9	66	18	469	26	1,147	34	2,108	40	3,230
8	9	75	17	486	27	1,174	36	2,144	39	3,269
9	9	84	18	504	27	1,201	37	2,181	39	3,308
10	9	93	19	523	28	1,229	37	2,218	36	3,344
11	11	104	19	542	29	1,258	36	2,254	36	3,380
12	14	118	20	562	29	1,287	37	2,291	37	3,417
13	14	132	18	580	28	1,315	37	2,328	38	3,455
14	12	144	14	594	28	1,343	38	2,366	39	3,494
15	10	154	17	611	29	1,372	36	2,402	39	3,533
16	7	161	16	627	30	1,402	36	2,438	39	3,572
17	8	169	15	642	29	1,431	36	2,474	39	3,611
18	11	180	18	660	32	1,463	35	2,509	39	3,650
19	11	191	22	682	32	1,495	36	2,545	39	3,689
20	11	202	23	705	32	1,527	37	2,582	40	3,729
21	12	214	24	729	31	1,558	37	2,619	41	3,770
22	9	223	24	753	32	1,590	37	2,656	40	3,810
23	8	231	26	779	33	1,623	38	2,694	40	3,850
24	13	244	27	806	31	1,654	38	2,732	40	3,890
25	15	259	27	833	33	1,687	38	2,770	39	3,929
26	16	275	25	838	32	1,719	38	2,808	39	3,968
27	14	289	26	884	32	1,751	37	2,845	40	4,008
28	13	302	26	910	32	1,783	37	2,882	40	4,048
29	14	316	26	936	32	1,815	37	2,919	40	4,088
30	14	330	25	961	31	1,846	38	2,957	41	4,129
31	15	345			31	1,877			40	4,169
Monthly total	345		616		916		1,080		1,212	

TABLE 20. (Con't.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS°, BASE 40°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, ONEONTA, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	39	4,208	37	5,394	29	6,356	15	7,006
2	40	4,248	37	5,431	29	6,385	15	7,021
3	40	4,288	36	5,467	28	6,413	15	7,036
4	39	4,327	37	5,504	28	6,441	12	7,048
5	39	4,366	36	5,540	26	6,467	12	7,060
6	39	4,405	35	5,575	27	6,494	11	7,071
7	39	4,444	35	5,610	26	6,520	9	7,080
8	39	4,483	34	5,644	23	6,543	9	7,089
9	38	4,521	34	5,678	22	6,565	10	7,099
10	38	4,559	34	5,712	22	6,587	10	7,109
11	38	4,597	33	5,745	23	6,610	8	7,117
12	40	4,637	34	5,779	23	6,633	10	7,127
13	40	4,677	34	5,813	23	6,656	13	7,140
14	39	4,716	32	5,845	24	6,680	15	7,155
15	39	4,755	31	5,876	23	6,703	16	7,171
16	38	4,793	32	5,908	22	6,725	17	7,188
17	39	4,832	33	5,941	23	6,748	14	7,202
18	39	4,871	33	5,974	22	6,770	11	7,213
19	39	4,910	32	6,006	20	6,790	12	7,225
20	38	4,948	32	6,038	19	6,809	10	7,235
21	38	4,986	31	6,069	18	6,827	9	7,244
22	36	5,022	31	6,100	19	6,846	10	7,254
23	36	5,058	31	6,131	19	6,865	10	7,264
24	36	5,094	30	6,161	19	6,884	9	7,273
25	37	5,131	28	6,189	15	6,899	8	7,281
26	37	5,168	28	6,217	15	6,914	8	7,289
27	37	5,205	28	6,245	15	6,929	8	7,297
28	38	5,243	28	6,273	16	6,945	8	7,305
29	38	5,281	27	6,300	15	6,960	6	7,311
30	38	5,319	27	6,327	15	6,975	3	7,314
31	38	5,357			16	6,991		
Monthly total	1,188		970		664		323	

* Based on 17-year average (1951-67) as compiled by the National Weather Records Center.

TABLE 21. AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 40°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, ROBERTSDALE, ALABAMA

Day of month	March		April		May		June		July	
	Heat units									
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	16	16	24	659	32	1,481	37	2,542	41	3,729
2	16	32	25	684	32	1,513	37	2,579	41	3,770
3	18	50	24	708	32	1,545	37	2,616	40	3,810
4	19	69	25	733	31	1,576	37	2,653	41	3,851
5	20	89	26	759	31	1,607	37	2,690	41	3,892
6	20	109	26	785	31	1,638	38	2,728	41	3,933
7	18	127	26	811	31	1,669	38	2,766	41	3,974
8	16	143	26	837	32	1,701	39	2,805	40	4,014
9	16	159	25	862	32	1,733	39	2,844	41	4,055
10	18	177	26	888	32	1,765	40	2,884	40	4,095
11	21	198	26	914	32	1,797	39	2,923	40	4,135
12	21	219	26	940	32	1,829	40	2,963	40	4,175
13	22	241	24	964	32	1,861	40	3,003	41	4,216
14	21	262	24	988	33	1,894	40	3,043	40	4,256
15	22	284	25	1,013	33	1,927	40	3,083	41	4,297
16	21	305	26	1,039	33	1,960	40	3,123	41	4,338
17	20	325	25	1,064	34	1,994	40	3,163	41	4,379
18	21	346	26	1,090	35	2,029	40	3,203	41	4,420
19	22	368	27	1,117	35	2,064	39	3,242	41	4,461
20	20	388	28	1,145	36	2,100	40	3,282	41	4,502
21	20	408	28	1,173	37	2,137	40	3,322	41	4,543
22	20	428	29	1,202	37	2,174	40	3,362	41	4,584
23	20	448	29	1,231	37	2,211	41	3,403	40	4,624
24	24	472	31	1,262	37	2,248	41	3,444	41	4,665
25	23	495	30	1,292	36	2,284	40	3,484	41	4,706
26	25	520	30	1,322	36	2,320	41	3,525	41	4,747
27	23	543	31	1,353	37	2,357	41	3,566	41	4,788
28	22	565	32	1,385	37	2,394	41	3,607	41	4,829
29	23	588	32	1,417	37	2,431	41	3,648	41	4,870
30	23	611	32	1,449	37	2,468	40	3,688	41	4,911
31	24	635			37	2,505			41	4,952
Monthly total	635		814		1,056		1,183		1,264	

TABLE 21. (Con't.) AVERAGE GROWING DEGREE DAYS, HEAT UNITS*, BASE 40°F, AND ACCUMULATED TOTAL BEGINNING MARCH 1, ROBERTSDALE, ALABAMA

Day of month	August		September		October		November	
	Heat units							
	GDD	ACC	GDD	ACC	GDD	ACC	GDD	ACC
1	41	4,993	40	6,259	33	7,374	24	8,255
2	41	5,034	41	6,300	33	7,407	24	8,279
3	41	5,075	40	6,340	34	7,441	23	8,302
4	42	5,117	40	6,380	34	7,475	21	8,323
5	41	5,158	40	6,420	33	7,508	21	8,344
6	41	5,199	40	6,460	33	7,541	21	8,365
7	41	5,240	39	6,499	32	7,573	20	8,385
8	41	5,281	39	6,538	31	7,604	19	8,404
9	41	5,322	39	6,577	30	7,634	19	8,423
10	41	5,363	39	6,616	30	7,664	19	8,442
11	41	5,404	39	6,655	29	7,693	19	8,461
12	42	5,446	38	6,693	29	7,722	19	8,480
13	41	5,487	37	6,730	30	7,752	21	8,501
14	41	5,528	37	6,767	30	7,782	23	8,524
15	41	5,569	37	6,804	29	7,811	22	8,546
16	42	5,611	37	6,841	28	7,839	23	8,569
17	41	5,652	37	6,878	28	7,867	22	8,591
18	42	5,694	37	6,915	28	7,895	20	8,611
19	41	5,735	37	6,952	28	7,923	20	8,631
20	40	5,775	38	6,990	27	7,950	17	8,648
21	40	5,815	37	7,027	27	7,977	18	8,666
22	40	5,855	36	7,063	28	8,005	18	8,684
23	40	5,895	36	7,099	28	8,033	17	8,701
24	40	5,935	36	7,135	27	8,060	16	8,717
25	40	5,975	35	7,170	25	8,085	16	8,733
26	41	6,016	35	7,205	25	8,110	17	8,750
27	40	6,056	35	7,240	25	8,135	16	8,766
28	40	6,096	34	7,274	24	8,159	15	8,781
29	41	6,137	33	7,307	23	8,182	13	8,794
30	41	6,178	34	7,341	24	8,206	11	8,805
31	41	6,219			25	8,231		
Monthly total	1,267		1,122		890		574	

* Based on 30-year average (1938-67) as compiled by the National Weather Records Center.

TABLE 22. AVERAGE DATES FOR LAST SPRING AND FIRST FALL OCCURRENCE OF COLD TEMPERATURES

Station	County	Elev.	Latitude		Longitude		Average dates of last occurrence in Spring of		Average dates of first occurrence in Fall of		Length of growing season Days
			Ft.	Deg.	Min.	Deg.	Min.	32°	28°	32°	
Clanton	Chilton	580	32	51	86	38	Mar. 30	Mar. 6	Nov. 7	Nov. 16	222
Dothan	Houston	321	31	14	85	26	Mar. 1	Feb. 10	Nov. 24	Dec. 4	265
(Brewton)* Frisco City	Escambia	85	31	04	87	03	Mar. 28	Mar. 1	Nov. 3	Nov. 13	220
Greensboro	Hale	220	32	42	87	36	Mar. 19	Mar. 2	Nov. 10	Nov. 26	236
Madison	Madison	573	34	42	86	45	Apr. 7	Mar. 24	Nov. 1	Nov. 11	208
(Gadsden)* Oneonta	Etowah	570	34	01	86	00	Apr. 6	Mar. 17	Oct. 31	Nov. 10	208
Robertsdale	Baldwin	155	30	32	87	40	Mar. 15	Feb. 21	Nov. 16	Dec. 2	246

* Footnote: These data not available for Frisco City and Oneonta. The indicated substitutions were made with the nearest available station.

TABLE 23. PROBABILITY DATES FOR LAST SPRING AND FIRST FALL OCCURRENCE OF 32° AND 28°

Station	Temp.	SPRING Dates on which chance of last occurrence of indicated temp. (or lower) decreases to:						FALL Dates on which chance of first occurrence of indicated temp. (or lower) increases to:					
		90% or 9 in 10	75% or 3 in 4	67% or 2 in 3	33% or 1 in 3	25% or 1 in 4	10% or 1 in 10	10% or 1 in 10	25% or 1 in 4	33% or 1 in 3	67% or 2 in 3	75% or 3 in 4	90% or 9 in 10
		Clanton	32°	Mar. 16	Mar. 20	Mar. 22	Apr. 6	Apr. 8	Apr. 15	Oct. 18	Oct. 29	Nov. 2	Nov. 11
	28°	Feb. 9	Feb. 19	Feb. 27	Mar. 15	Mar. 16	Mar. 30	Oct. 30	Nov. 6	Nov. 8	Nov. 23	Nov. 25	Dec. 1
(Ozark)* Dothan	32°	Feb. 14	Feb. 26	Mar. 4	Mar. 16	Mar. 17	Mar. 28	Nov. 7	Nov. 12	Nov. 14	Nov. 30	Dec. 2	Dec. 17
	28°	Jan. 16	Jan. 31	Feb. 10	Feb. 27	Mar. 4	Mar. 17	Nov. 19	Nov. 25	Nov. 29	Dec. 9	Dec. 16	Dec. 23
(Brewton)* Frisco City	32°	Mar. 12	Mar. 20	Mar. 22	Apr. 7	Apr. 9	Apr. 14	Oct. 21	Oct. 28	Oct. 29	Nov. 9	Nov. 10	Nov. 17
	28°	Feb. 9	Feb. 20	Feb. 22	Mar. 10	Mar. 15	Mar. 23	Nov. 1	Nov. 8	Nov. 9	Nov. 16	Nov. 18	Dec. 1
Greensboro	32°	Feb. 28	Mar. 8	Mar. 10	Mar. 22	Mar. 29	Apr. 13	Oct. 28	Nov. 2	Nov. 5	Nov. 14	Nov. 17	Nov. 24
	28°	Feb. 7	Feb. 16	Feb. 19	Mar. 14	Mar. 15	Mar. 22	Nov. 8	Nov. 13	Nov. 17	Dec. 2	Dec. 9	Dec. 19
Madison	32°	Mar. 27	Mar. 31	Apr. 1	Apr. 13	Apr. 14	Apr. 19	Oct. 23	Oct. 26	Oct. 27	Nov. 5	Nov. 7	Nov. 10
	28°	Mar. 6	Mar. 14	Mar. 17	Mar. 29	Apr. 7	Apr. 13	Oct. 28	Nov. 4	Nov. 7	Nov. 13	Nov. 17	Nov. 26
(Gadsden)* Oneonta	32°	Mar. 21	Mar. 28	Mar. 30	Apr. 15	Apr. 16	Apr. 20	Oct. 16	Oct. 23	Oct. 27	Nov. 6	Nov. 8	Nov. 14
	28°	Feb. 28	Mar. 6	Mar. 9	Mar. 21	Mar. 28	Apr. 10	Oct. 27	Nov. 2	Nov. 4	Nov. 12	Nov. 15	Nov. 27
Robertsdale	32°	Feb. 20	Mar. 6	Mar. 12	Mar. 23	Mar. 28	Apr. 6	Oct. 29	Nov. 4	Nov. 9	Nov. 19	Nov. 24	Dec. 8
	28°	Jan. 29	Feb. 8	Feb. 14	Feb. 26	Mar. 2	Mar. 15	Nov. 18	Nov. 25	Nov. 26	Dec. 5	Dec. 10	Dec. 14

* Footnote: These data not available for Dothan, Frisco City, and Oneonta. The indicated substitutions were made with the nearest available station.

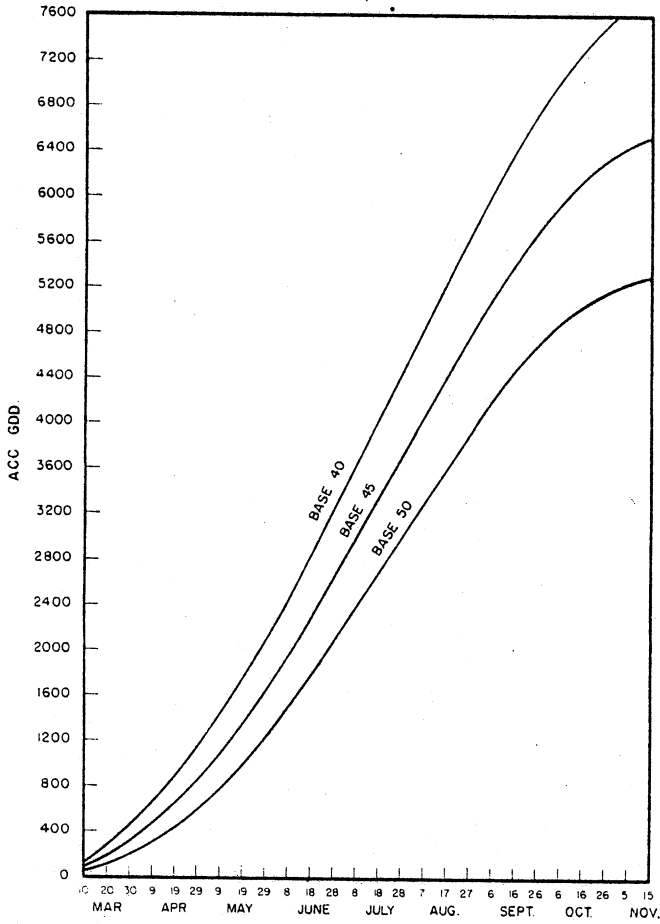
TABLE 24. AVERAGE MONTHLY AND ANNUAL RAINFALL*

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
Clanton	5.38	5.21	6.87	5.65	4.08	4.43	6.23	5.43	2.88	2.05	3.50	5.41	57.12
Dothan	4.09	4.56	6.05	4.75	3.51	4.18	6.75	6.03	4.25	1.75	2.54	4.23	52.69
Frisco City	4.81	4.52	7.43	5.66	4.34	4.85	6.73	5.63	4.67	2.06	4.21	5.71	60.62
Greensboro	5.06	5.26	6.88	5.02	4.45	3.25	5.09	4.46	3.48	2.14	3.34	5.26	53.69
Madison	5.68	5.39	6.44	4.34	3.26	3.73	5.05	3.85	3.28	3.04	4.02	5.11	53.19
Oneonta	6.10	5.87	7.02	4.78	2.99	4.14	4.90	4.35	2.94	2.14	4.03	4.89	54.15
Robertsdale	4.53	4.09	7.02	5.87	5.75	6.85	10.31	7.75	6.10	2.87	3.34	4.76	69.24

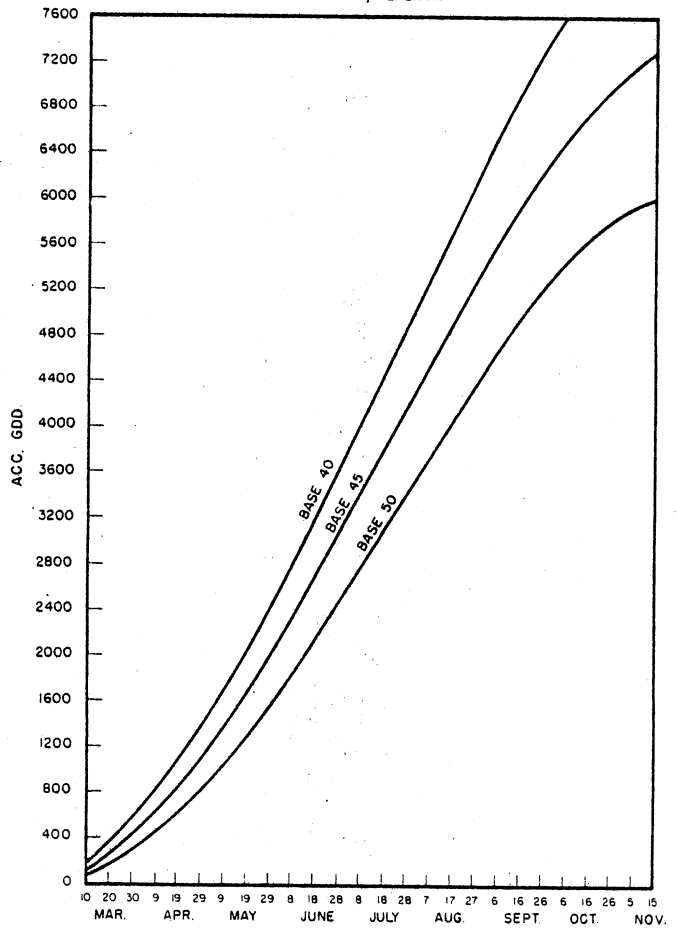
* Mean rainfall for above stations was obtained from 22 years of record (1931-52) except Oneonta computed from 16 years (1937-52).

APPENDIX

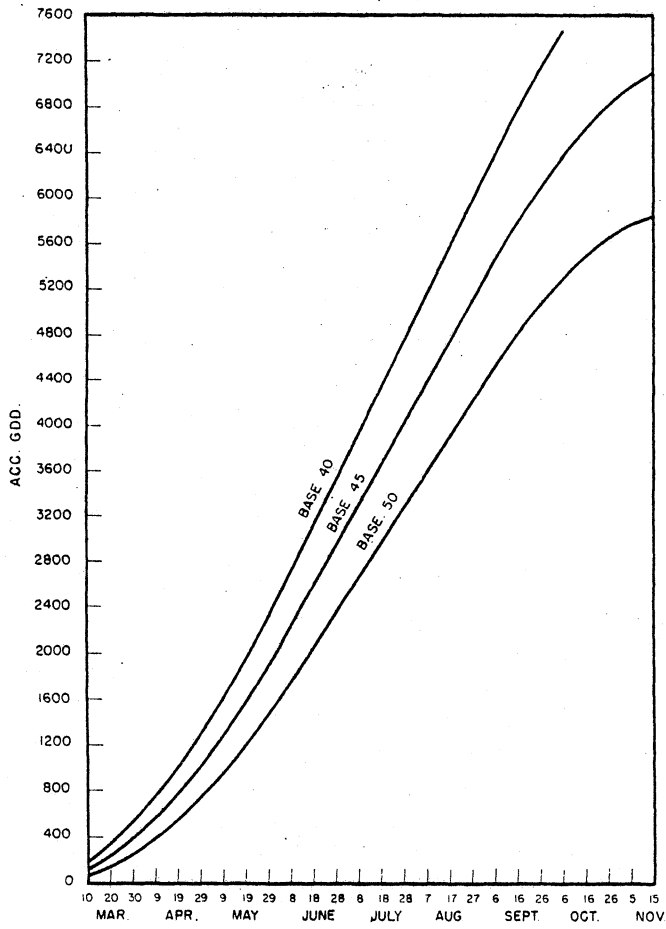
MEAN ACCUMULATED GROWING DEGREE DAYS
CLANTON, ALABAMA



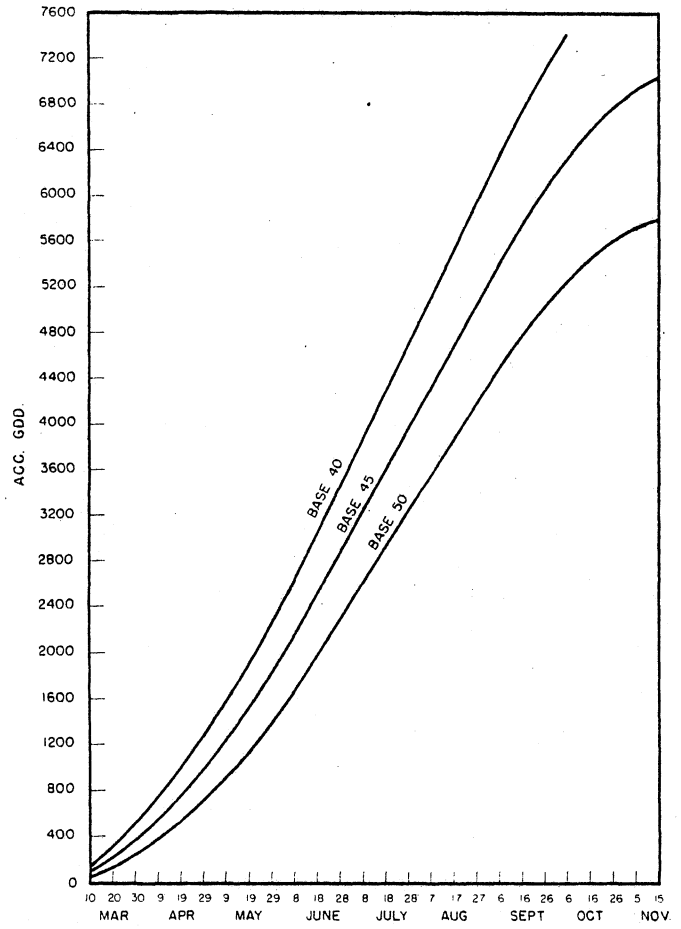
MEAN ACCUMULATED GROWING DEGREE DAYS
DOTHAN, ALABAMA



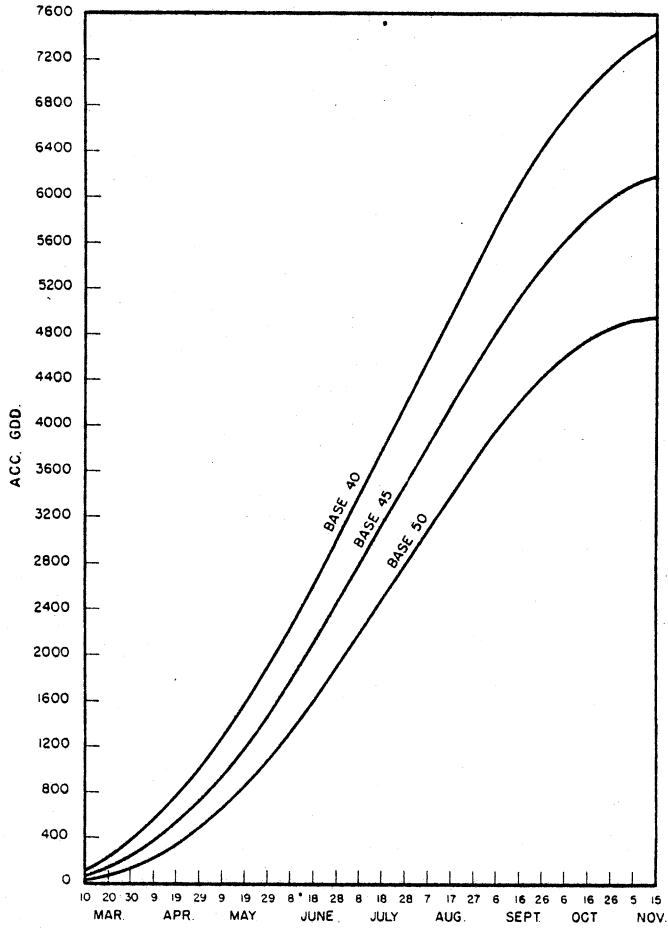
MEAN ACCUMULATED GROWING DEGREE DAYS
FRISCO CITY, ALABAMA



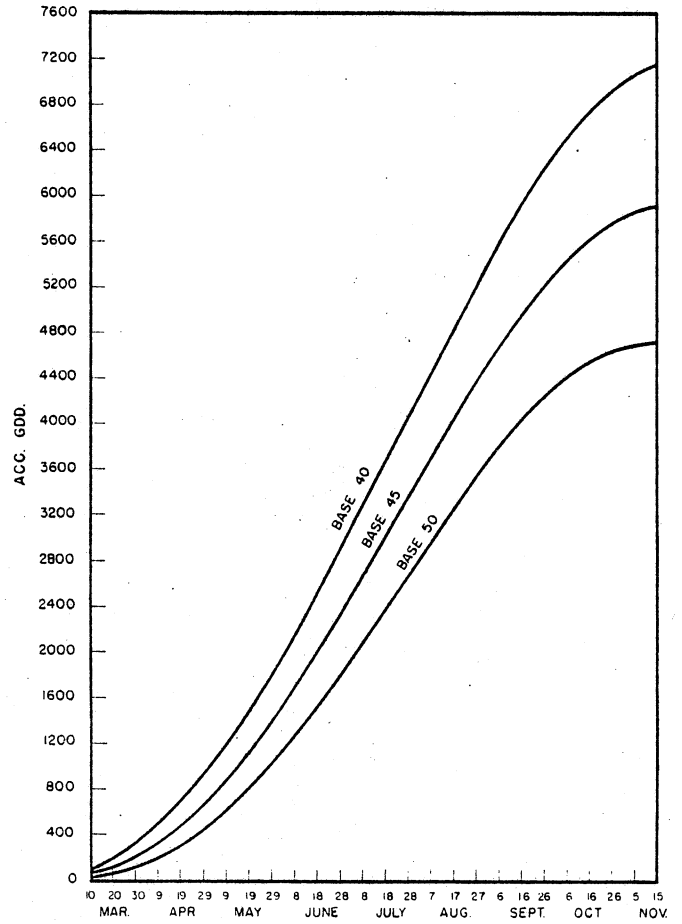
MEAN ACCUMULATED GROWING DEGREE DAYS
GREENSBORO, ALABAMA



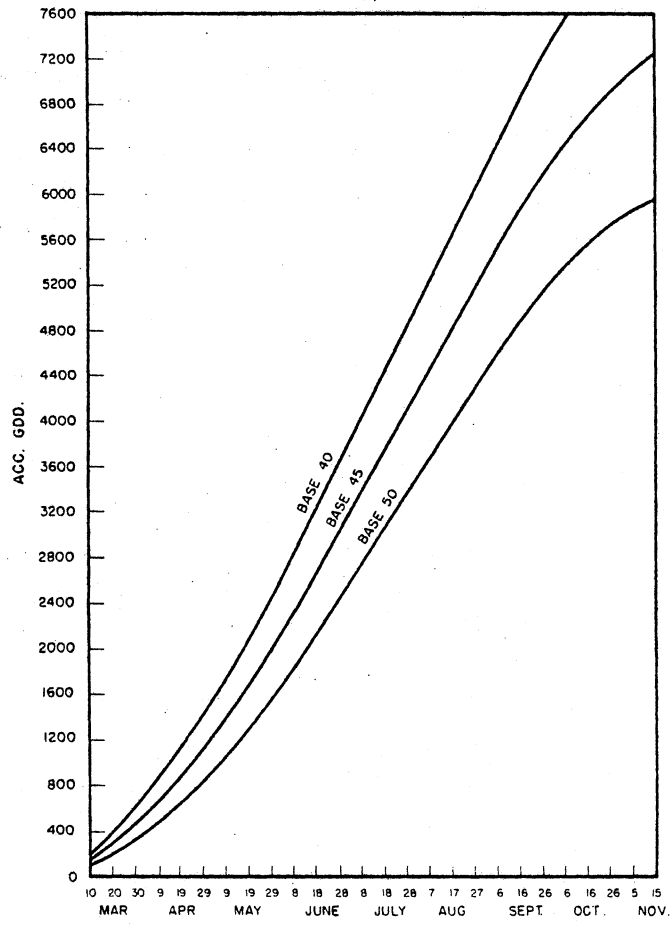
MEAN ACCUMULATED GROWING DEGREE DAYS
MADISON, ALABAMA



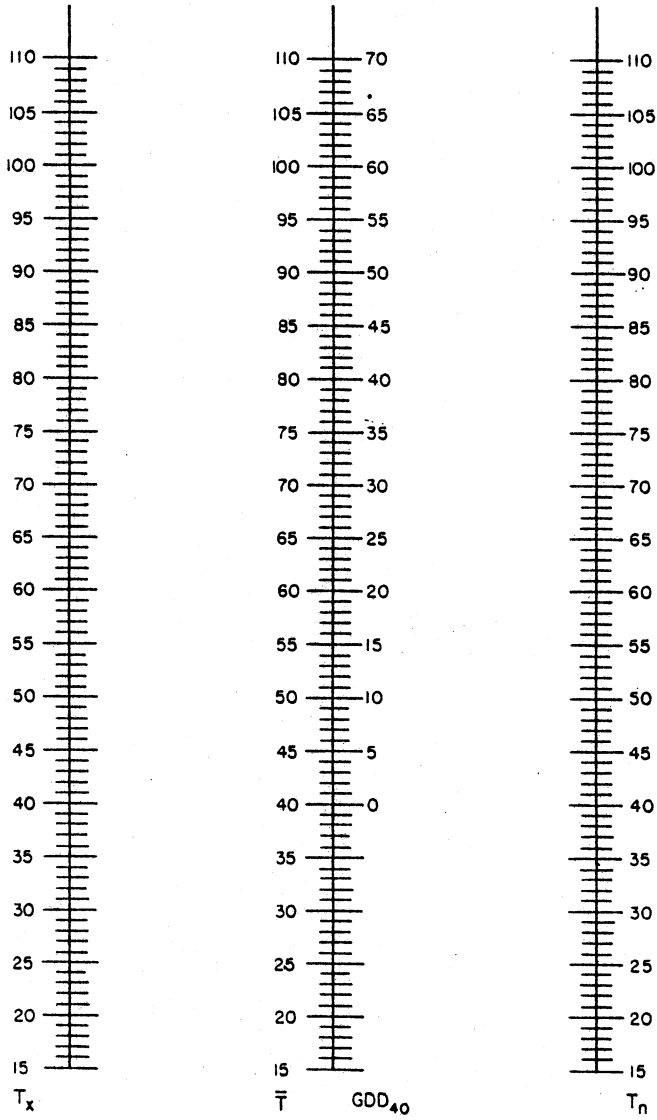
MEAN ACCUMULATED GROWING DEGREE DAYS
ONEONTA, ALABAMA



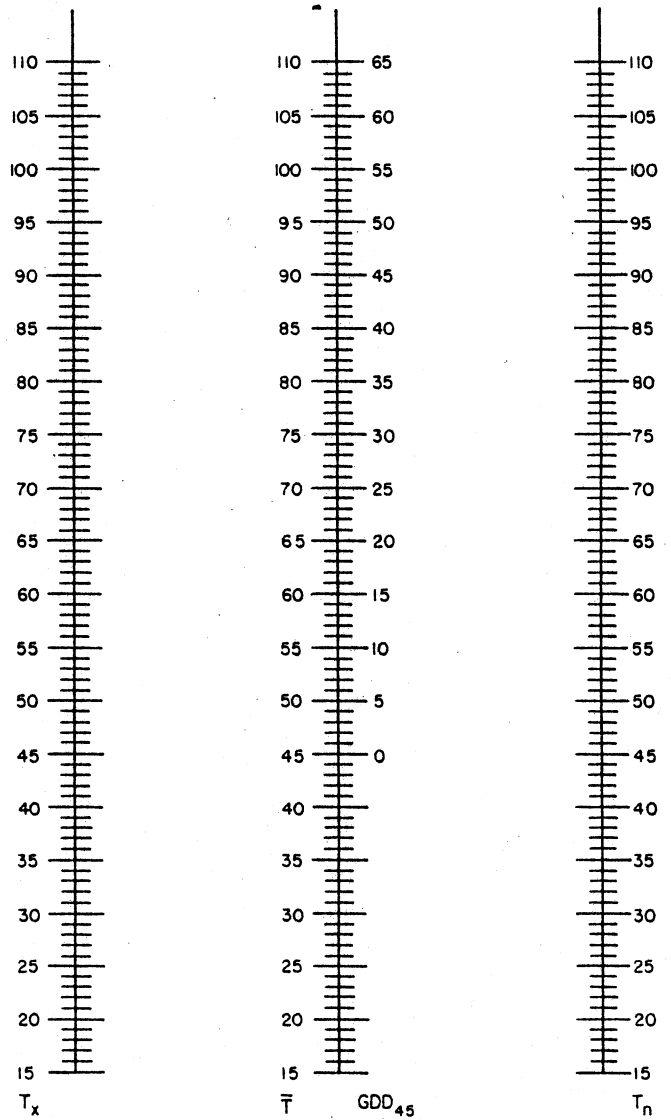
MEAN ACCUMULATED GROWING DEGREE DAYS
ROBERTSDALE, ALABAMA



NOMOGRAPH
DAILY AVERAGE TEMPERATURE AND GROWING DEGREE DAYS
BASE 40



NOMOGRAPH
DAILY AVERAGE TEMPERATURE AND GROWING DEGREE DAYS
BASE 45



NOMOGRAPH
DAILY AVERAGE TEMPERATURE AND GROWING DEGREE DAYS
BASE 50

