

# WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration,  
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE  
Statistical Reporting Service and World Agricultural Outlook Board

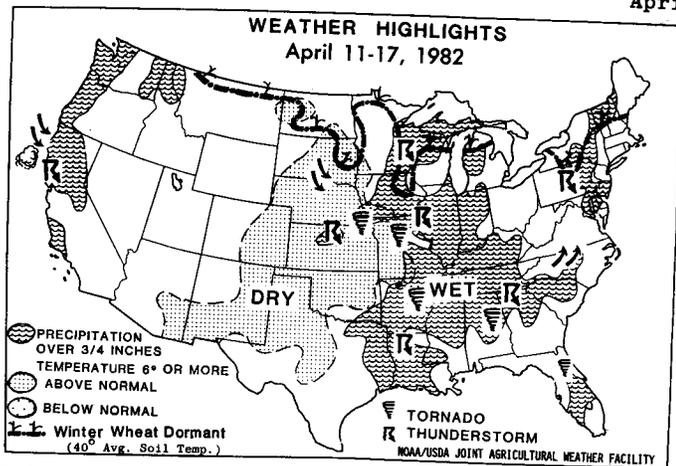
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## National Weather Summary

April 11-17



east along and ahead of the cold front and from Maryland to northern Alabama and Georgia. Thunderstorms were occasionally heavy in Alabama and Georgia.

**WEDNESDAY...** Showers in the Northwest reached to central California, while snow and gusty winds were over the higher elevations of the northern Plateau and Rockies. A cold front trailed through the Carolinas and the South to Texas. Showers and thunderstorms were reported from Alabama through the Carolinas and eastern Texas. A new cold front triggered light showers of rain and snow in North Dakota, Minnesota, and Iowa. Thunderstorms developed from north central Kansas through eastern Nebraska.

**THURSDAY...** Showers and thunderstorms developed from eastern Texas through the western Carolinas and Florida but were heaviest from Arkansas to western South Carolina. Showers and thunderstorms also covered the Mississippi Valley and eastward to the central Great Lakes and Indiana. Severe weather occurred in Missouri and Iowa. Rain, changing to snow late in the day, prompted stockmen's advisories in the western Dakotas and Nebraska.

**FRIDAY...** Temperatures dropped to below freezing through the northern high Plains, the northern Rockies, and the central and northern Plateau. Showers and thunderstorms covered most of the area of the Mississippi and Ohio Valley, the central Great Lakes, and across the northern part of the Gulf States. Hail, high wind, and tornadoes, more typical in summer than early spring, covered the area from Nebraska to Ohio and Kentucky. A few showers reached into the Appalachians in the East and the central Rockies in the West.

(Continued on page 12.)

**HIGHLIGHTS:** Warm, summerlike temperatures dominated the Plains during most of the week before turning sharply cooler at the end of the week. The warm weather promoted growth of winter wheat, but moisture shortage increased stress in the central and southern High Plains. Showers, thunderstorms, and severe weather were frequent through the Mississippi Valley and eastward. The west coast was wet and windy with some heavy precipitation in northern California and the northwest coast.

**SUNDAY...** The West was wild, wet, and windy. Heavy rains caused flooding in parts of northern California, and snow piled deep in higher mountain areas. The precipitation extended into most of southern California and across the central and northern Plateau to the Rockies. Springtime temperatures prevailed over most of the Nation. North Platte, Neb., had a morning low temperature of 24° and an afternoon high of 84°.

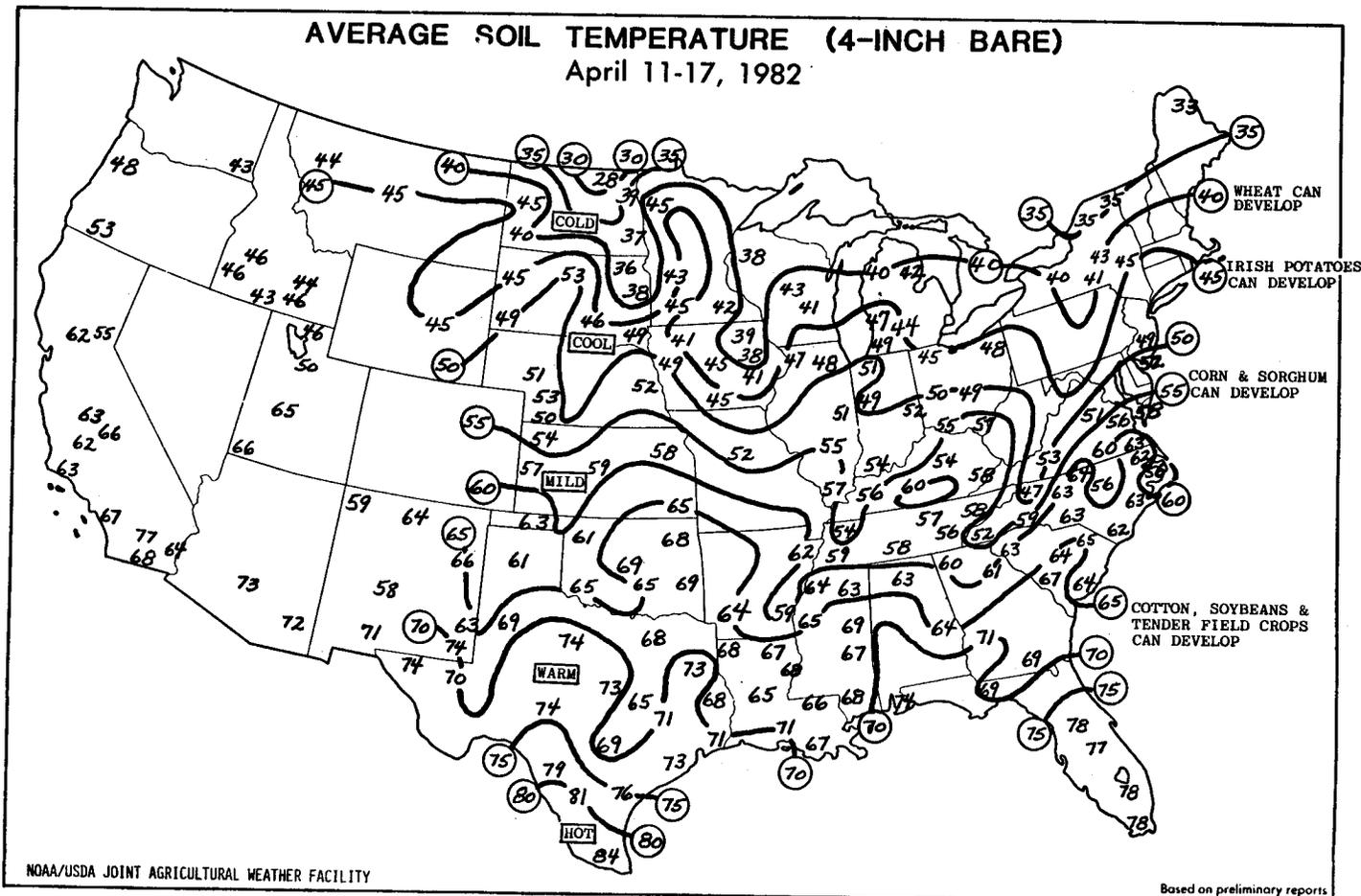
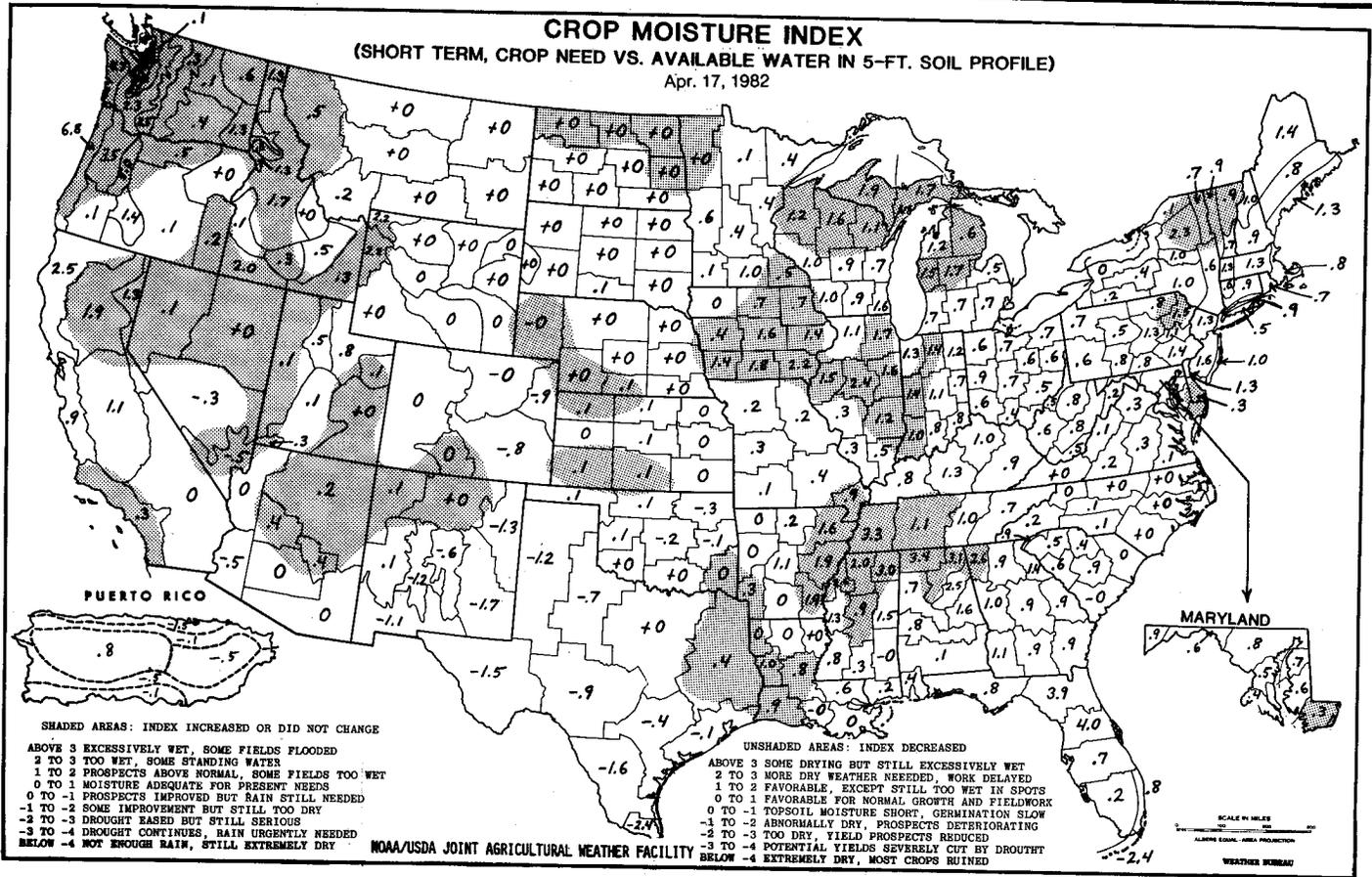
**MONDAY...** Light rainshowers fell over the Pacific Northwest and reached into the northern Plains. Snow changed to rain through the Great Lakes region and most of the Northeast. Warm weather covered most of the Nation. Only the Northeast was below freezing during the night.

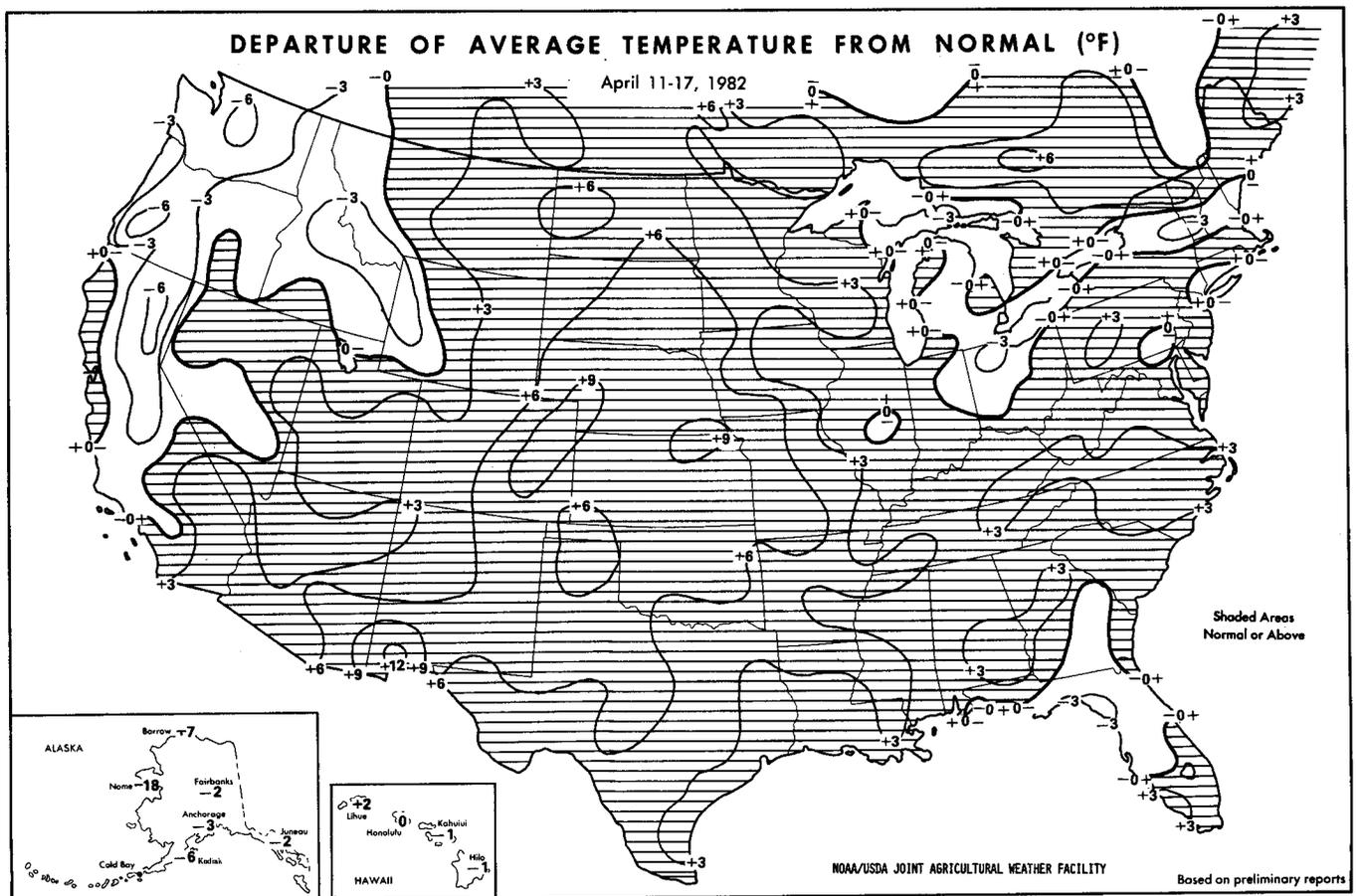
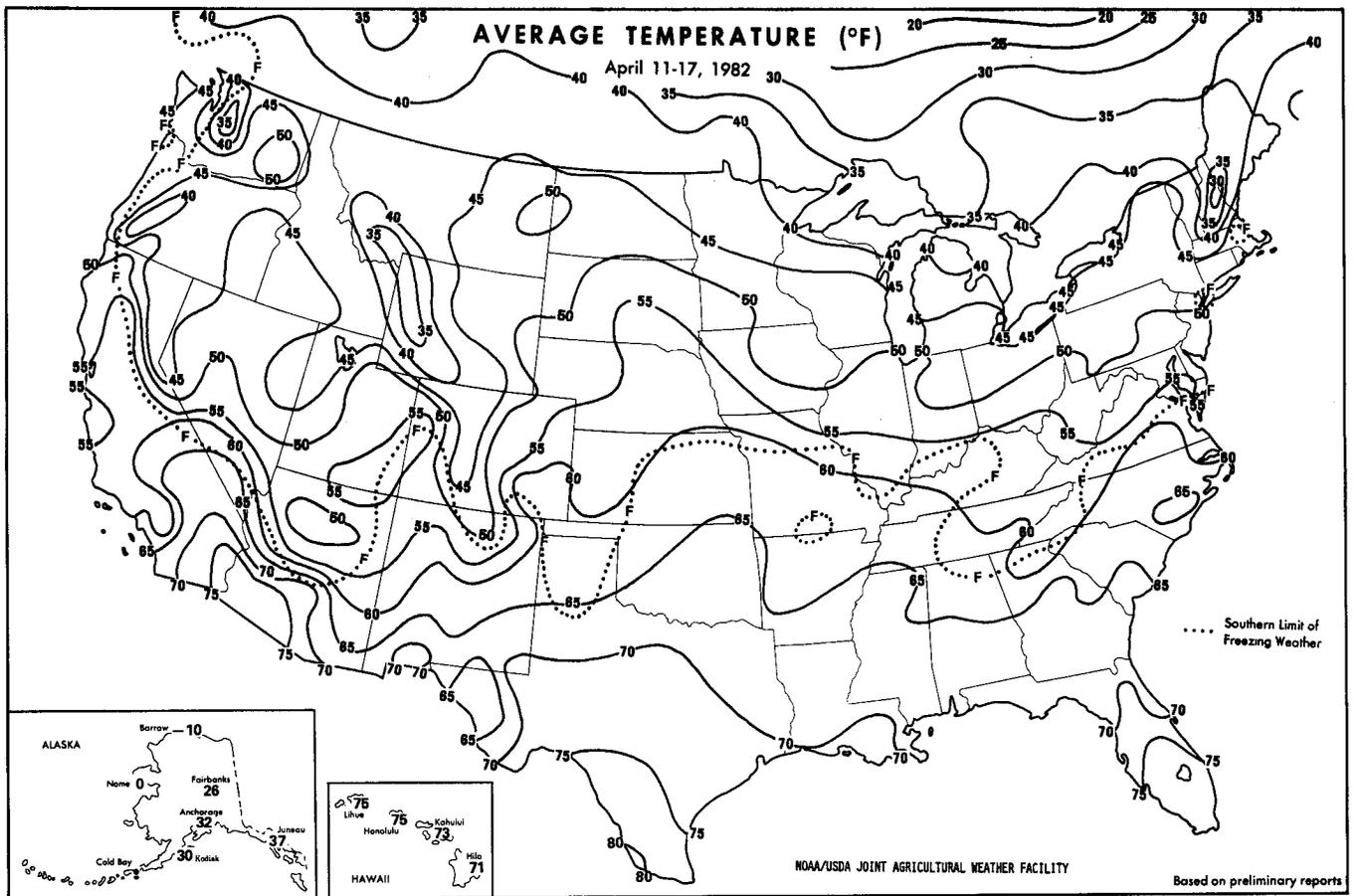
**TUESDAY...** A cold front moved through the Great Lakes and the Northeast and trailed from the Atlantic Ocean through Virginia to Tennessee into Texas by the end of the day. Freezing temperatures returned to the northern Plains and continued over New England, but most of the Nation enjoyed warm temperatures during the day. Wind and rain in the Northwest reached to northern California and across the northern Plateau. Showers fell in the North-

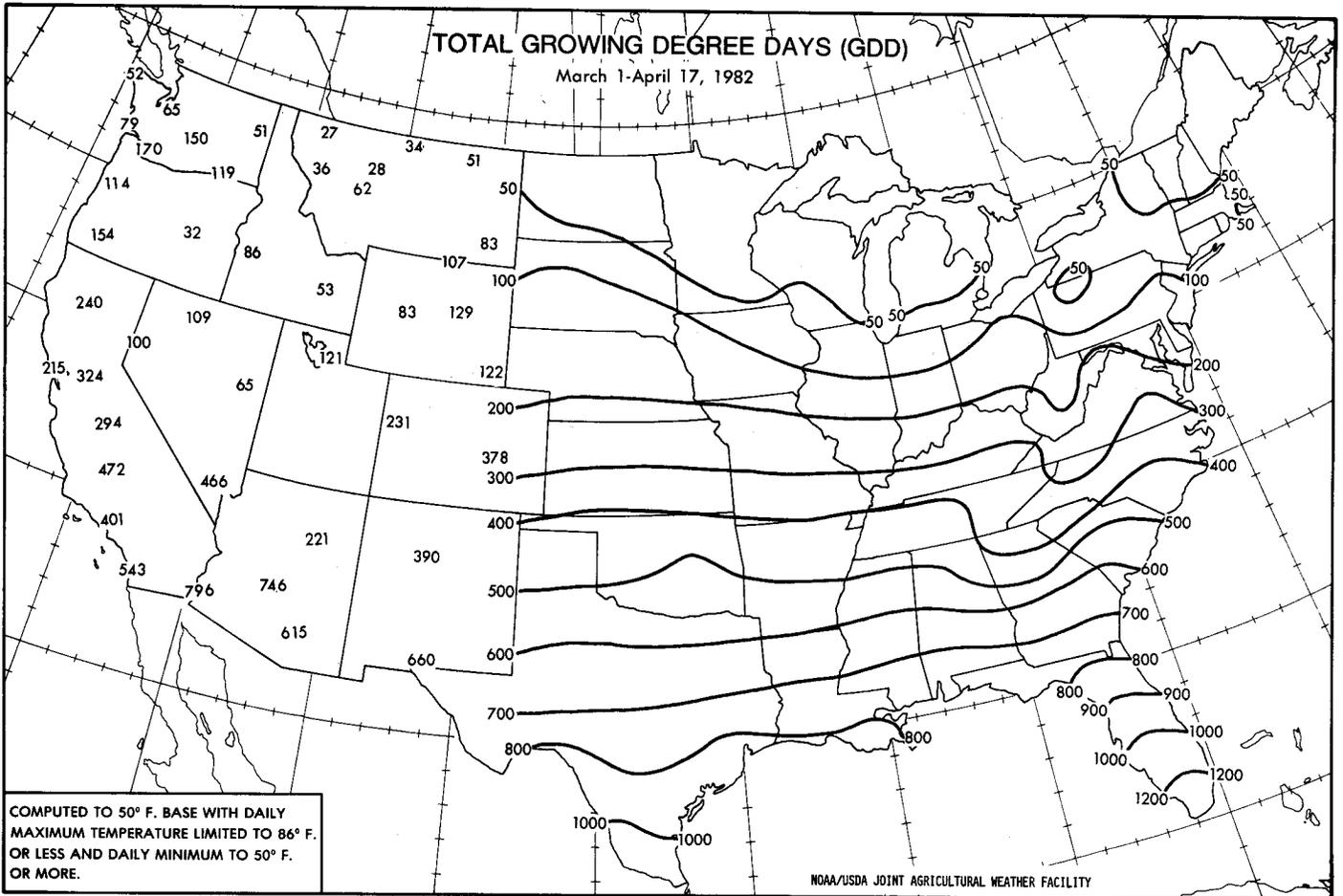
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### Use of Growing Degree Units in Corn Production

For years, the practice has been to label corn maturity in days. A 135 day variety would presumably reach maturity 135 days after it was planted. This system does not take into account the complicated physiological processes that control the growth and development of corn. The number of days required to reach maturity depends on the location of the planting, and the weather that the plant is subjected to in a particular growing season. In most years, the period will be more or less than 135 days. It is hard to decide which maturity to plant to achieve maximum production. A delayed planting might not provide the required number of days for your variety to mature.

Each day does not contribute equally to the growth of plants. Growth is faster during the warm season than it is in cold weather. On the other hand, summer temperature can be too high for optimum growth. Although other factors than temperature enter into determining the rate of growth,

there is a growing acceptance among seed producers to use the temperature based Growing Degree Units (GDU) concept to express maturity. There have been many of these "heat-unit" systems devised over the years. The one currently in use for corn is that proposed by the Environmental Data Service of the National Oceanic and Atmospheric Administration (Formerly U.S. Weather Bureau).<sup>1</sup>

<sup>1</sup> In this system, Growing Degree Units are calculated by subtracting a base temperature of 50° (F) from the average of the maximum and minimum temperatures for the day. Corn doesn't grow much at temperatures below 50°. As the temperature rises, corn grows faster if moisture is plentiful. However, at a temperature higher than 86° the roots have increasing difficulty taking in water fast enough to keep the plant growing at full speed. GDU are calculated by the following equation.

$$GDU = \frac{Max\ Temp. + Min\ Temp. - 50^\circ}{2}$$

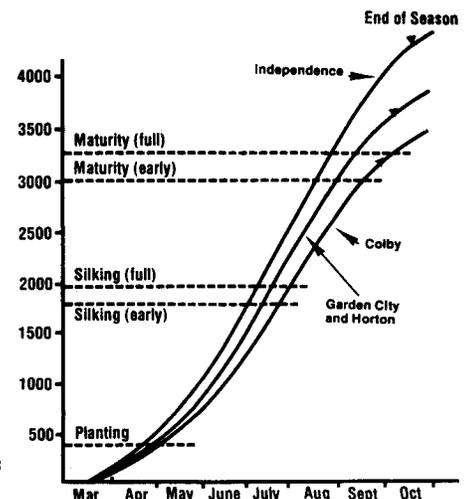
NOTE: Minimum temperatures below 50° are counted as 50° and temperatures above 86° are counted as 86°.

For example a day with temperature extremes of 82° and 60° would have contributed 21 GDU. A day with a high temperature of 90° and a low of 48°, will be considered as one with temperatures of 86° and 50° for purposes of calculation. That day would have had 18 GDU.

Reproduced from "Corn Production Handbook," C-560, Oct 1976, Kansas State Univ., Manhattan, KS

**GDU's Required to Reach:**

	Silking Maturity	
Early Season Variety	1390	2610
Full Season Variety	1560	2830



LONG-TERM MEAN GROWING DEGREE DAYS (ADJUSTED 50° BASE):  
ACCUMULATED WEEKLY MARCH 1 TO INDICATED DATES

Station	Mar. 8	Mar. 15	Mar. 22	Mar. 29	Apr. 5	Apr. 12	Apr. 19	Apr. 26	May 3	May 10	May 17	May 24	May 31	June 7	June 14	June 21	June 28	July 5	July 12	July 19	
<b>West:</b>																					
Phoenix, Ariz.	76	160	252	352	458	579	710	839	974	1123	1274	1423	1614	1794	1976	2172	2376	2583	2817	3045	
Fresno, Calif.	50	102	164	232	309	391	481	570	663	767	877	1008	1139	1276	1411	1569	1732	1895	2066	2243	
Denver, Colo.	13	30	52	83	117	152	199	255	311	378	447	524	613	709	819	937	1068	1212	1360	1510	
Pocatello, Idaho	4	7	15	20	31	44	61	82	108	148	205	278	368	466	574	692	821	965	1101	1244	
Glasgow, Mont.	1	2	7	10	18	28	45	74	117	159	209	274	359	457	561	671	786	916	1033	1217	
-pendleton, Ore.	8	20	41	66	99	142	187	231	281	345	418	504	592	698	795	913	1033	1159	1303	1460	
<b>North Central:</b>																					
Des Moines, Iowa	5	14	23	41	67	94	138	194	259	340	428	525	639	753	897	1046	1201	1369	1535	1705	
Minneapolis, Minn.	0	1	4	11	25	40	71	109	162	224	295	374	458	565	691	822	954	1103	1252	1409	
North Platte, Nebr.	10	24	39	67	100	133	180	236	296	366	440	523	617	722	846	977	1115	1271	1424	1580	
Omaha, Nebr.	8	20	33	58	91	127	178	244	316	405	502	607	722	854	1007	1165	1327	1504	1677	1853	
Fargo, N. Dak.	0	0	2	8	17	30	54	85	134	186	250	325	404	503	613	734	859	988	1108	1253	
Huron, S. Dak.	2	5	12	26	46	70	108	154	210	272	345	425	514	621	743	870	1001	1150	1305	1462	
Green Bay, Wis.	0	1	3	7	17	28	55	85	125	176	234	302	374	466	573	683	797	925	1050	1185	
Madison, Wis.	1	3	8	17	33	53	89	132	186	255	325	406	491	597	719	845	977	1119	1258	1406	
<b>South Central:</b>																					
Fort Smith, Ark.	41	87	131	191	259	348	437	551	664	794	929	1091	1240	1406	1589	1774	1964	2159	2356	2553	
Dodge City, Kans.	20	46	76	121	172	222	286	365	442	537	634	741	865	997	1134	1281	1467	1667	1847	2026	
Topeka, Kans.	18	42	63	101	148	194	254	337	418	519	623	741	865	1006	1198	1333	1503	1685	1862	2042	
Wichita, Kans.	22	50	77	121	177	231	297	388	474	582	691	816	952	1100	1271	1447	1628	1819	2010	2196	
Shreveport, La.	61	132	203	282	384	488	593	728	866	1020	1178	1348	1535	1708	1902	2100	2300	2504	2712	2916	
<b>Columbia, Mo.</b>	18	39	58	93	137	184	245	330	417	519	622	741	864	1003	1168	1330	1501	1681	1857	2039	
St. Louis, Mo.	19	41	60	97	142	190	254	343	436	541	647	770	899	1047	1220	1398	1568	1752	1932	2119	
Oklahoma City, Okla.	35	76	119	174	246	318	400	505	628	728	849	988	1137	1294	1475	1658	1844	2032	2233	2428	
Amarillo, Tex.	33	78	123	180	244	308	385	474	560	667	770	889	1019	1156	1311	1478	1649	1830	2010	2187	
Corpus Christi, Tex.	95	210	324	445	587	728	878	1049	1229	1411	1600	1794	1998	2200	2412	2626	2840	3055	3270	3487	
<b>Fort Worth, Tex.</b>	57	122	191	271	369	470	578	710	838	988	1140	1308	1486	1670	1871	2072	2278	2488	2702	2916	
Midland, Tex.	57	128	200	282	378	473	573	700	822	964	1110	1263	1431	1603	1788	1978	2171	2364	2558	2754	
<b>Midwest:</b>																					
Chicago, Ill.	5	10	18	35	56	81	124	177	238	313	391	481	579	701	843	984	1142	1310	1470	1639	
Moline, Ill.	5	10	18	36	61	90	135	182	261	344	429	526	629	755	898	1045	1200	1365	1524	1691	
Peoria, Ill.	8	16	25	46	74	105	152	204	284	367	454	554	660	788	938	1085	1245	1415	1576	1746	
Indianapolis, Ind.	12	26	39	64	95	128	175	230	324	411	499	602	708	834	986	1132	1293	1462	1623	1792	
Louisville, Ky.	22	48	71	108	156	207	272	370	466	569	677	801	932	1073	1239	1399	1572	1752	1926	2110	
<b>Flint, Mich.</b>	2	5	9	19	35	53	87	127	175	239	302	375	455	555	676	795	924	1064	1197	1338	
Grand Rapids, Mich.	1	5	10	20	37	55	89	131	185	252	321	398	482	588	717	841	976	1121	1259	1408	
Columbus, Ohio	12	26	38	64	95	129	176	246	320	404	490	583	697	818	964	1104	1260	1424	1581	1749	
<b>Northeast:</b>																					
Portland, Maine	0	1	1	4	12	24	41	65	94	135	181	237	304	386	470	563	668	787	903	1032	
Albany, N.Y.	1	4	6	16	33	51	84	130	179	244	313	393	478	586	702	820	943	1110	1248	1402	
Binghamton, N.Y.	1	4	5	14	28	41	66	105	145	198	253	320	397	476	580	683	805	938	1058	1197	
Syracuse, N.Y.	2	5	8	19	36	51	83	128	174	236	300	376	457	559	677	794	930	1075	1212	1360	
Harrisburg, Pa.	8	17	28	52	83	116	163	228	295	377	463	563	667	792	936	1075	1239	1410	1573	1748	
<b>Philadelphia, Pa.</b>	8	20	31	57	91	125	175	238	302	384	475	576	681	811	955	1094	1262	1436	1604	1785	
Pittsburgh, Pa.	10	21	32	55	82	111	154	217	287	366	442	533	625	736	869	994	1140	1295	1438	1595	
Williamsport, Pa.	10	10	15	33	58	84	126	182	243	318	397	485	576	686	814	937	1083	1237	1380	1537	
Richmond, Va.	29	61	89	137	194	254	327	425	517	630	733	858	984	1120	1279	1430	1608	1786	1962	2147	
<b>Southeast:</b>																					
Savon, Ga.	58	127	195	278	375	471	580	715	858	999	1149	1314	1484	1656	1842	2029	2225	2421	2616	2814	
Raleigh, N.C.	39	82	118	174	240	311	389	497	604	718	839	976	1113	1255	1420	1579	1757	1936	2113	2298	
Memphis, Tenn.	39	85	127	183	258	337	422	539	659	793	935	1094	1257	1427	1618	1804	1999	2198	2398	2599	
Nashville, Tenn.	35	74	109	158	222	288	363	474	585	705	831	974	1120	1276	1454	1626	1810	1998	2198	2376	

LONG-TERM MEAN GROWING DEGREE DAYS (ADJUSTED 50° BASE):  
ACCUMULATED WEEKLY MARCH 1 TO INDICATED DATES

Station	July 26	Aug. 2	Aug. 9	Aug. 16	Aug. 23	Aug. 30	Sept. 6	Sept. 13	Sept. 20	Sept. 27	Oct. 4	Oct. 11	Oct. 18	Oct. 25	Nov. 1	Nov. 8	Nov. 15	Nov. 22	Nov. 29	Dec. 6
<b>West:</b>																				
Phoenix, Ariz.	3274	3499	3721	3943	4161	4373	4582	4792	4986	5168	5347	5511	5664	5802	5930	6040	6141	6218	6287	6372
Fresno, Calif.	2432	2603	2773	2946	3115	3274	3436	3592	3734	3878	4016	4137	4250	4352	4448	4526	4596	4643	4683	4716
Denver, Colo.	1633	1818	1971	2118	2256	2394	2512	2630	2750	2853	2941	3011	3082	3111	3161	3228	3288	3316	3349	3360
Pocatello, Idaho	1389	1535	1677	1815	1943	2062	2172	2293	2392	2482	2552	2608	2652	2707	2759	2787	2771	2776	2780	2781
Glasgow, Mont.	1366	1511	1658	1794	1925	2037	2135	2228	2300	2362	2427	2479	2529	2583	2591	2606	2615	2620	2623	2634
Pendleton, Ore.	1611	1768	1919	2071	2214	2337	2465	2584	2685	2785	2863	2928	2986	3026	3057	3074	3087	3097	3109	3115
<b>North Central:</b>																				
Des Moines, Iowa	1880	2057	2228	2394	2555	2688	2822	2942	3044	3133	3218	3289	3371	3427	3487	3489	3512	3527	3534	3539
Minneapolis, Minn.	1572	1732	1889	2030	2167	2303	2418	2519	2600	2666	2725	2777	2837	2875	2901	2927	2921	2928	2928	2929
North Platte, Nebr.	1740	1906	2068	2216	2357	2503	2625	2740	2840	2923	3004	3081	3156	3213	3261	3288	3316	3334	3349	3360
Omaha, Nebr.	2039	2222	2401	2566	2724	2889	3031	3159	3268	3362	3450	3527	3614	3674	3721	3748	3775	3792	3802	3810
Fargo, N. Dak.	1405	1551	1696	1828	1957	2082	2186	2278	2353	2413	2468	2515	2565	2595	2616	2627	2632	2635	2635	2635
<b>South Central:</b>																				
Huron, S. Dak.	1623	1783	1942	2088	2229	2373	2491	2598	2687	2761	2830	2890	2955	2998	3030	3048	3063	3072	3076	3078
Green Bay, Wis.	1324	1463	1597	1714	1828	1948	2057	2151	2228	2291	2346	2388	2442	2474	2485	2506	2513	2520	2521	2522
Madison, Wis.	1557	1708	1853	1986	2117	2249	2368	2471	2560	2633	2703	2759	2823	2863	2890	2907	2920	2929	2931	2934
<b>South East:</b>																				
Fort Smith, Ark.	2754	2958	3157	3349	3540	3726	3905	4070	4229	4378	4508	4628	4747	4843	4925	4981	5045	5097	5138	5169
Joplin, Mo.	2211	2398	2587	2761	2929	3103	3257	3399	3531	3641	3749	3847	3941	4010	4069	4105	4144	4172	4195	4213
Topeka, Kans.	2231	2480	2608	2779	2949	3120	3274	3414	3542	3655	3756	3849	3941	4020	4077	4111	4150	4178	4197	4211
Wichita, Kans.	2392	2590	2788	2971	3148	3328	3493	3645	3784	3908	4019	4121	4224	4300	4359	4396	4437	4468	4488	4504
Shreveport, La.	3124	3333	3542	3747	3951	4150	4345	4529	4709	4881	5034	5171	5308	5422	5521	5595	5674	5751	5814	5864
<b>Midwest:</b>																				
Columbia, Mo.	2826	3014	3207	3396	3587	3777	3963	4144	4321	4494	4655	4811	4964	5114	5261	5403	5544	5681	5814	5951
St. Louis, Mo.	2313	2507	2696	2872	3046	3220	3381	3527	3661	3784	3892	3984	4081	4151	4205	4239	4278	4308	4326	4340
Oklahoma City, Okla.	2629	2831	3032	3226	3415	3603	3779	3941	4095	4241	4367	4482	4585	4685	4759	4808	4865	4908	4942	4971
Amario, Tex.	2368	2552	2736	2911	3080	3250	3407	3553	3690	3813	3926	4029	4127	4205	4273	4317	4362	4414	4451	4484
Corpus Christi, Tex.	3704	3922	4138	4356	4573	4784	4988	5206	5411	5614	5798	5978	6154	6312	6452	6573	6691	6811	6917	7012
<b>South East:</b>																				
Fort Worth, Tex.	3132	3350	3567	3781	3990	4186	4397	4584	4766	4940	5094	5234	5376	5493	5592	5665	5746	5817	5877	5926
Midland, Tex.	2950	3146	3347	3541	3734	3920	4101	4270	4436	4593	4733	4864	4990	5093	5182	5246	5319	5381	5437	5483
<b>Midwest:</b>																				
Chicago, Ill.	1814	1989	2158	2316	2473	2631	2776	2905	3023	3123	3211	3283	3363	3415	3459	3473	3494	3512	3519	3524
Moline, Ill.	1653	1834	2004	2168	2329	2489	2652	2787	2904	3014	3103	3183	3264	3345	3400	3461	3504	3501	3508	3515
Peoria, Ill.	1667	1847	2016	2182	2344	2506	2671	2796	2910	3019	3109	3188	3268	3348	3403	3464	3507	3507	3515	3521
Indianapolis, Ind.	1847	2026	2205	2384	2564	2740	2915	3041	3161	3269	3360	3437	3519	3578	3618	3644	3672	3695	3708	3714
Louisville, Ky.	2501	2689	2873	3058	3245	3436	3633	3835	4041	4251	4466	4686	4911	5141	5376	5616	5861	6111	6361	6611
<b>South East:</b>																				
Flint, Mich.	1483	1628	1765	1893	2016	2145	2263	2364	2452	2527	2595	2652	2710	2752	2778	2796	2808	2820	2825	2828
Grand Rapids, Mich.	1560	1712	1858	1993	2125	2260	2387	2494	2590	2668	2740	2799	2862	2903	2931	2946	2961	2974	2979	2983
Columbus, Ohio	1917	2085	2247	2399	2553	2703	2849	2973	3087	3193	3282	3357	3436	3495	3533	3561	3585	3608	3620	3627
<b>Northeast:</b>																				
Portland, Maine	1164	1293	1411	1532	1646	1755	1856	1945	2018	2087	2145	2192	2236	2271	2293	2308	2315	2324	2328	2330
Albany, N.Y.	1571	1710	1851	1990	2123	2252	2378	2481	2568	2648	2717	2776	2833	2877	2905	2923	2934	2943	2950	2953
Binghamton, N.Y.	1334	1473	1611	1724	1844	1960	2077	2169	2245	2313	2372	2428	2483	2503	2524	2529	2549	2556	2562	2564
Syracuse, N.Y.	1511	1652	1793	1924	2052	2179	2303	2418	2525	2606	2677	2733	2790	2835	2863	2882	2896	2910	2917	2921
Harrisburg, Pa.	1925	2105	2276	2433	2593	2747	2902	3031	3148	3247	3336	3412	3485	3540	3578	3609	3631	3650	3659	3667
<b>South East:</b>																				
Philadelphia, Pa.	1969	2154	2323	2483	2640	2797	2955	3120	3244	3349	3444	3530	3606	3669	3712	3749	3785	3800	3815	3825
Pittsburgh, Pa.	1756	1917	2068	2216	2356	2497	2635	2751	2856	2946	3027	3092	3160	3211	3243	3267	3288	3310	3320	3327
Williamsport, Pa.	1697	1853	2006	2152	2294	2432	2569	2683	2784	2869	2946	3011	3076	3126	3158	3179	3197	3209	3215	3219
Richmond, Va.	2335	2521	2701	2881	3056	3224	3394	3539	3675	3794	3901	3997	4087	4160	4219	4272	4318	4363	4393	4415
<b>South East:</b>																				
Macon, Ga.	3014	3214	3415	3612	3808	3997	4185	4363	4532	4682	4839	4972	5085	5203	5292	5370	5441	5517	5574	5617
Raleigh, N.C.	2489	2678	2863	3046	3227	3399	3572	3725	3868	3997	4114	4217	4314	4393	4460	4518	4568	4623	4683	4733
Memphis, Tenn.	2804	3011	3214	3411	3594	3792	3974	4143	4303	4452	4584	4701	4816	4907	4981	5035	5083	5148	5217	5277
Nashville, Tenn.	2573	2770	2962	3145	3330	3506	3683	3843	3990	4125	4248	4354	4458	4540	4604	4650	4700	4746	4776	4800

Weather Data for the Week Ending April 17, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST 24-HOUR, IN.	TOTAL, IN., SINCE Feb. 28	PCT. NORMAL SINCE Feb. 28	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	52 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	77	52	85	35	64	1	1.3	.2	1.0	6.9	73	21.0	119	94	48	0	0	5	1
MOBILE	78	59	82	44	49	1	T	-1.3	T	5.5	52	16.5	92	86	50	0	0	2	0
MONTGOMERY	79	59	85	44	69	4	.9	.1	.8	7.2	80	21.8	141	78	45	0	0	3	1
AK ANCHORAGE	39	26	46	20	32	-3	T	.1	T	.5	56	1.2	52	78	46	0	0	7	0
BARROW	-5	-14	0	-18	-10	-7	T	.1	T	.5	125	1.1	122	76	62	0	0	7	0
FAIRBANKS	34	18	40	11	26	-2	T	.1	T	.8	114	1.5	100	63	39	0	0	1	0
JUNEAU	43	32	48	25	37	-2	.5	.2	.3	6.9	130	11.2	97	91	60	0	2	6	0
KODIAK	36	24	37	20	30	-6	.8	.1	.6	2.6	43	13.9	94	79	50	0	7	4	0
OME	11	-11	16	-15	0	-18	T	.2	T	1.5	107	4.6	164	63	45	0	7	0	0
AZ PHOENIX	88	61	92	57	75	7	0	.1	0	1.3	130	2.8	133	40	11	2	0	0	0
PRESCOTT	66	38	69	32	52	0	0	.2	0	2.1	95	5.1	102	70	21	0	1	0	0
TUCSON	85	53	88	46	69	5	T	.1	T	1.3	130	2.9	116	39	10	0	0	0	0
YUMA	87	63	92	58	75	4	0	0	0	.9	180	1.3	130	40	15	1	0	0	0
AR FORT SMITH	80	50	88	35	65	3	.2	-1.0	.1	2.6	40	8.1	74	89	37	0	0	2	0
LITTLE ROCK	76	54	81	41	65	2	1.3	.1	.8	6.7	83	16.4	109	90	50	0	0	3	2
CA BAKERSFIELD	71	54	76	47	63	0	.1	-1.1	.1	2.4	171	3.5	113	74	38	0	0	1	0
EUREKA	57	42	61	38	49	0	2.4	1.7	1.0	12.8	180	23.0	126	87	64	0	0	3	3
FRESNO	68	46	72	41	57	-3	.1	-2	.1	5.7	219	8.4	156	95	44	0	0	1	0
LOS ANGELES	65	52	69	50	59	0	.6	.3	.6	5.2	173	8.6	121	85	56	0	0	1	1
RED BLUFF	65	46	72	36	56	-3	.2	.3	.1	4.8	120	10.7	100	83	39	0	0	3	0
SACRAMENTO	63	46	71	39	55	-4	1.1	.7	1.0	9.1	228	17.0	167	93	49	0	0	3	1
SAN DIEGO	68	59	75	56	63	2	0	.2	0	4.9	245	8.5	163	79	54	0	0	0	0
SAN FRANCISCO	60	49	62	43	55	-1	.6	.2	.5	9.6	259	21.2	208	84	59	0	0	3	0
CO DENVER	69	37	80	24	53	6	T	.4	T	.3	14	.7	25	53	14	0	2	1	0
GRAND JUNCTION	70	42	74	32	56	5	T	.2	T	1.0	77	1.7	71	57	16	0	1	0	0
PUEBLO	77	42	85	33	60	8	T	.3	T	.1	7	.9	50	42	15	0	0	0	0
CT BRIDGEPORT	56	39	62	33	47	-1	.1	.7	T	3.1	55	11.1	110	79	46	0	0	2	0
HARTFORD	60	34	73	26	47	0	.3	.6	.2	5.4	90	13.0	117	78	38	0	4	3	0
DC WASHINGTON	69	45	82	36	57	1	.5	.1	.5	4.3	84	9.9	106	81	35	0	0	1	1
FL APALACHICOLA	76	57	82	48	67	-2	T	.8	T	10.9	156	19.8	156	98	59	0	0	1	0
DAYTONA BEACH	78	57	84	47	68	-2	.6	.1	.5	11.5	230	16.0	174	95	58	0	0	2	0
JACKSONVILLE	81	57	89	45	69	1	.6	.1	.5	7.5	136	12.2	110	99	52	0	0	3	1
KEY WEST	86	77	88	72	81	3	T	.5	T	3.6	124	5.7	98	79	61	0	0	0	0
MIAMI	84	70	87	61	77	2	.1	.7	.1	4.9	120	6.2	84	84	55	0	0	1	0
ORLANDO	83	60	88	50	72	0	1.7	1.1	1.0	9.5	179	12.6	133	93	49	0	0	2	2
TALLAHASSEE	80	52	85	37	66	-1	0	.9	0	7.4	86	16.6	106	98	43	0	0	0	0
TAMPA	80	60	86	50	70	-2	.2	.3	.2	4.1	76	8.0	81	99	59	0	0	0	0
WEST PALM BEACH	81	70	84	64	76	2	.1	.7	.1	17.1	317	20.7	216	85	60	0	0	1	0
GA ATLANTA	73	52	78	40	62	2	.6	.5	.3	7.0	77	18.7	115	83	50	0	0	4	0
AUGUSTA	77	48	84	34	63	-1	.4	.4	.4	3.5	49	11.1	85	97	41	0	0	2	0
MACON	79	53	85	39	66	1	.8	0	.8	6.1	81	16.2	115	94	45	0	0	1	0
SAVANNAH	79	56	84	45	67	1	1.0	.3	.8	4.3	68	10.7	96	92	44	0	0	2	1
HI HILO	77	66	80	64	71	-1	3.4	.3	1.9	49.5	225	64.1	162	91	69	0	0	6	3
HONOLULU	82	69	85	64	75	0	.1	.2	.1	4.6	110	19.6	192	75	55	0	0	1	0
KAHULUI	80	65	85	58	73	-1	.3	0	.3	6.4	164	18.3	195	85	64	0	0	2	0
LIHUE	80	69	83	66	75	2	.1	.6	1.1	13.9	207	33.0	209	88	68	0	0	4	0
ID BOISE	57	36	68	22	47	-2	.2	.1	.1	2.0	105	5.0	116	74	33	0	2	3	0
LEWISTON	56	41	65	33	49	-1	.4	.2	.2	1.4	93	3.7	112	80	45	0	0	3	0
POCATELLO	54	32	61	21	43	-2	.6	.3	.6	2.9	171	5.3	151	82	36	0	3	2	1
IL CHICAGO	61	39	73	28	50	1	1.3	.5	.8	6.8	151	10.1	149	93	49	0	1	3	1
MOLINE	62	38	75	20	50	-1	1.6	.7	1.6	7.3	159	9.8	158	86	46	0	2	2	1
PEORIA	63	40	80	21	52	0	3.5	2.5	3.1	10.4	196	14.4	189	87	49	0	1	3	1
QUINCY	66	42	75	31	54	0	1.4	.5	1.3	6.4	131	10.9	93	51	0	1	2	1	
ROCKFORD	61	39	72	26	50	2	.8	.2	.5	6.9	135	8.7	123	91	47	0	1	2	0
SPRINGFIELD	67	41	80	30	54	1	1.0	0	.7	6.2	127	12.5	174	91	50	0	1	3	0
IN EVANSVILLE	71	44	84	33	58	1	1.8	.9	1.6	7.7	108	18.5	147	87	39	0	0	2	1
FORT WAYNE	59	36	73	26	47	-1	1.1	.2	.8	7.4	140	14.3	163	88	53	0	4	2	1
INDIANAPOLIS	66	41	80	30	54	2	1.0	.1	.6	7.1	120	14.4	144	82	43	0	1	2	1
SOUTH BEND	61	38	76	25	50	2	.6	.4	.5	5.7	116	9.8	124	82	42	0	2	3	1
IA DES MOINES	66	44	72	28	55	6	2.8	2.1	1.8	8.3	213	11.7	217	82	47	0	1	2	2
SIOUX CITY	69	40	80	26	55	6	.3	.2	.2	2.2	81	4.2	105	80	37	0	1	3	0
JATRILLO	59	37	69	19	48	0	1.3	.5	1.0	5.5	141	7.4	151	92	54	0	2	3	1
KS CONCORDIA	75	46	85	35	61	8	.7	.2	.5	3.9	139	5.2	141	77	38	0	0	2	1
DODGE CITY	76	45	85	30	60	7	0	.4	0	.8	42	2.3	92	85	29	0	1	0	0
GOODLAND	72	39	82	24	56	7	.2	.1	.2	.6	40	1.4	74	70	15	0	2	1	0
TOPEKA	77	47	84	37	62	8	T	.9	T	1.6	38	3.9	72	87	34	0	0	1	0
WICHITA	77	48	89	38	62	6	0	.7	0	2.0	63	4.5	107	88	34	0	0	0	0
KY BOWLING GREEN	73	48	81	36	60	3	1.7	.7	1.2	6.4	81	15.1	92	90	42	0	0	2	1
LEXINGTON	71	43	80	34	57	2	.8	.2	.7	6.1	84	13.7	103	87	41	0	0	2	1
LOUISVILLE	71	44	81	33	57	2	1.0	.1	.9	8.5	112	15.3	113	85	39	0	0	2	1
LA ALEXANDRIA	78	59	84	38	69	2	1.3	.1	1.3	5.6	70	14.9	74	54	0	0	1	1	
BATON ROUGE	80	60	86																

Weather Data for the Week Ending April 17, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Feb. 28	PCT. NORMAL SINCE Feb. 28	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	79	58	85	35	69	3	.1	-1.2	.1	3.2	44	10.0	74	91	50	0	0	1	0
ME CARIBOU	48	28	61	21	38	2	.1	-1.5	.1	5.0	143	9.6	137	75	40	0	5	1	0
ME PORTLAND	53	31	67	25	42	0	.1	-.6	.1	6.8	115	14.5	125	82	45	0	6	2	0
MD BALTIMORE	68	39	81	28	53	0	.9	-.2	.8	5.2	30	12.6	121	81	32	0	2	2	1
MD SALISBURY	69	41	81	29	55	0	.2	-.6	.2	4.9	30	13.4	115	91	37	0	2	2	1
MA BOSTON	61	41	75	36	51	3	.7	-.8	.7	4.7	73	12.1	96	71	38	0	0	1	0
MA CHATHAM	53	38	58	34	45	1	.1	-.1	.1	5.4	77	13.5	77	85	69	0	0	1	0
MI ALPENA	49	29	60	22	39	-1	.7	-.2	.4	3.5	106	5.7	106	90	69	0	0	1	0
MI DETROIT	58	34	77	26	46	-2	.4	-.4	.2	4.7	104	9.2	128	87	52	0	6	5	0
MI FLINT	58	35	75	29	47	1	.4	-.3	.3	3.7	104	9.2	128	87	52	0	4	3	0
MI GRAND RAPIDS	58	33	76	26	45	-1	.5	-.3	.3	3.3	39	5.5	90	91	55	0	3	3	0
MI HOUGHTON LAKE	49	31	62	23	40	-1	.9	-.3	.3	5.1	116	8.5	125	86	50	0	5	5	0
MI LANSING	57	34	75	26	45	-1	.2	-.5	.1	4.6	153	7.3	143	92	55	0	4	5	1
MI MARQUETTE	42	27	51	14	35	-2	1.9	1.3	1.2	3.5	85	5.6	82	96	57	0	4	5	0
MI MUSKEGON	56	33	69	25	44	-1	.5	-.3	.4	4.5	160	9.9	162	96	59	0	5	4	1
MI SAULT ST. MARIE	41	26	46	16	33	-4	1.1	-.6	.7	6.4	213	11.4	129	88	51	0	4	3	0
MN ALEXANDRIA	55	35	71	24	45	4	.4	-.2	.3	4.5	188	6.9	197	95	65	0	6	5	1
MN DULUTH	47	33	60	20	40	2	.9	-.3	.5	2.6	113	6.1	139	87	49	0	3	2	0
MN INT'L FALLS	49	32	66	12	40	3	.1	-.3	.1	2.4	125	4.1	128	91	52	0	2	3	1
MN MINNEAPOLIS	59	38	66	22	49	4	.8	-.4	.7	2.8	112	5.7	158	89	49	0	2	2	0
MN ROCHESTER	55	36	65	21	45	1	1.5	-.9	1.0	3.9	130	5.7	154	92	64	0	1	5	1
MS GREENWOOD	77	55	87	35	66	1	2.4	1.1	1.5	5.9	63	15.2	94	51	0	0	2	2	1
MS JACKSON	80	55	87	33	68	2	.5	-.5	.5	5.8	67	15.5	98	94	49	0	0	1	1
MS MERIDIAN	81	52	86	35	67	2	1.6	-.4	1.2	6.1	64	16.0	95	89	46	0	0	1	1
MO CAPE GIRARDEAU	74	49	82	35	61	2	1.7	-.7	1.6	6.0	95	19.4	166	93	46	0	0	3	1
MO COLUMBIA	74	46	83	35	60	5	.8	-.1	.8	5.4	120	9.8	144	82	39	0	0	2	1
MO KANSAS CITY	75	47	81	30	61	7	.7	-.8	.7	3.6	80	7.4	123	83	35	0	1	1	0
MO SAINT LOUIS	72	45	83	32	59	3	.7	-.2	.5	4.5	85	10.8	132	88	40	0	1	2	0
MO SPRINGFIELD	76	47	86	39	62	5	.1	-.9	.1	3.1	53	8.0	100	83	37	0	1	2	0
MT BILLINGS	61	37	74	28	49	5	.2	-.2	.2	3.1	141	4.2	140	77	25	0	3	1	0
MT GLASGOW	60	33	68	28	47	4	.1	-.1	.1	.9	129	2.1	191	81	29	0	2	2	0
MT GREAT FALLS	52	34	63	26	43	0	.1	-.2	.1	3.0	200	5.1	170	70	33	0	2	1	0
MT HAVRE	55	34	65	29	45	1	.7	-.2	.7	.9	32	2.7	150	69	27	0	3	0	0
MT HELENA	55	33	65	26	44	2	.3	-.1	.2	1.9	173	3.3	194	77	29	0	3	2	0
MT KALISPELL	51	31	58	27	41	-1	.7	-.5	.4	2.4	171	6.7	191	95	49	0	5	5	0
MT MILES CITY	62	37	70	29	50	5	.1	-.2	.1	1.0	77	2.2	116	83	32	0	1	1	0
MT MISSOULA	51	35	63	27	43	-1	.7	-.5	.3	2.7	225	6.1	226	91	46	0	4	6	0
NE GRAND ISLAND	74	40	82	26	57	7	.1	-.5	.1	2.5	104	3.7	112	82	25	0	2	1	0
NE LINCOLN	74	44	86	29	59	8	.6	-.0	.6	3.9	134	5.1	124	83	36	0	1	2	1
NE NORFOLK	72	41	81	27	56	8	.4	-.1	.2	2.6	113	4.6	139	82	31	0	1	3	0
NE NORTH PLATTE	74	36	84	23	55	7	.5	-.1	.3	1.7	89	2.1	91	88	18	0	3	2	0
NE OMAHA	70	43	80	30	56	7	.6	-.1	.5	3.9	126	5.5	131	80	44	0	1	2	1
NE SCOTTSBLUFF	69	34	80	17	52	6	.7	-.4	.7	.9	56	1.4	67	57	14	0	2	0	0
NE VALENTINE	67	37	78	29	52	7	.2	-.3	.2	1.6	94	2.2	105	74	29	0	3	1	0
NV ELY	59	30	64	18	45	4	.1	-.2	.1	3.0	188	4.4	183	75	27	0	4	1	0
NV LAS VEGAS	78	53	82	49	66	2	.7	-.1	.7	.3	43	1.5	107	45	17	0	0	0	0
NV RENO	57	34	66	23	46	-1	.3	-.2	.3	1.5	136	3.1	103	73	34	0	3	1	0
NV WINNEMUCA	59	33	65	18	46	1	.2	-.1	.2	1.5	150	1.9	70	68	25	0	2	1	0
NH CONCORD	58	29	73	20	43	0	.3	-.4	.1	3.9	89	10.2	124	81	35	0	6	4	0
NJ ATLANTIC CITY	64	38	73	31	51	0	.6	-.2	.6	4.7	72	10.9	89	95	44	0	2	2	1
NM ALBUQUERQUE	78	43	83	34	60	5	.7	-.1	.7	.8	89	1.3	93	40	10	0	0	0	0
NM CLOVIS	79	48	88	39	63	7	.0	-.2	.0	0	0	.7	43	16	0	0	0	0	0
NM ROSWELL	82	51	90	40	67	8	.0	-.2	.0	.2	17	1.1	58	38	15	1	0	0	0
NY ALBANY	60	34	73	24	47	1	.6	-.0	.6	5.1	124	10.4	141	75	36	0	3	3	1
NY BINGHAMTON	57	35	73	27	46	1	1.9	1.2	1.7	4.7	102	10.4	125	76	38	0	3	4	0
NY BUFFALO	59	35	81	27	47	2	.6	-.2	.3	4.6	34	12.8	138	88	46	0	4	4	1
NY NEW YORK	60	42	69	36	51	0	.5	-.4	.4	4.8	76	11.9	108	74	41	0	0	2	0
NY ROCHESTER	61	36	82	29	49	3	.2	-.4	.1	3.0	73	8.2	100	86	47	0	3	3	0
NY SYRACUSE	60	36	78	27	48	2	.8	-.0	.5	4.5	90	9.4	98	89	46	0	3	4	0
NC ASHEVILLE	70	46	75	31	58	2	.5	-.3	.3	3.1	45	15.5	122	98	52	0	2	4	0
NC CHARLOTTE	75	53	78	40	64	3	.7	-.1	.6	3.4	51	12.6	98	89	43	0	0	2	1
NC GREENSBORO	73	49	78	37	61	3	.5	-.3	.4	3.8	68	11.4	101	87	41	0	0	2	1
NC HATTERAS	69	54	78	39	62	3	.2	-.5	.2	7.0	123	19.9	153	89	57	0	0	2	0
NC NEW BERN	77	53	83	40	65	4	.7	-.8	.7	4.0	66	15.4	121	80	42	0	0	1	0
NC RALEIGH	77	50	84	39	63	4	.9	-.2	.8	5.0	94	13.4	122	85	31	0	0	4	1
NC WILMINGTON	74	52	80	41	63	0	.1	-.5	.1	2.6	43	14.8	129	86	46	0	0	2	0
ND BISMARCK	61	34	74	26	48	5	.3	-.1	.2	1.3	93	2.5	125	81	29	0	3	3	0
ND FARGO	56	35	71	28	45	3	.2	-.3	.1	1.6	84	3.5	152	88	54	0	3	3	0
ND GRAND FORKS	56	34	69	31	45	4	.7	-.3	.7	1.1	69	3.0	143	98	64	0	3	3	0
ND WILLISTON	65	35	77	30	50	8	.7	-.3	.7	1.7	121	3.4	142	91	34	0	2	2	0
OH AKRON-CANTON	62	37	80	26	50	2	.1	-.7	.1	4.9	96	11.4	130	81	38	0	3	2	0
OH CINCINNATI	69	41	81	29	55	1	.3	-.6	.2	6.9	106	14.9	126	74	33	0	1	2	0
OH CLEVELAND	61	36	81	26	49	1	.2	-.7	.1	5.2	100	10.6	118	82	43	0	4	2	0
OH COLUMBUS	65	38	80	25	52	1	.4	-.5	.3	5.9	104	12.2	126	86	41	0	2	2	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending April 17, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE FEB. 26	PCT. NORMAL SINCE FEB. 26	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	63	37	76	28	50	-1	.3	-.5	.2	7.5	142	15.4	162	83	45	0	2	2	0
TOLEDO	59	32	76	25	45	-3	.6	-.1	.4	5.4	132	10.2	146	92	53	0	5	2	0
YOUNGSTOWN	60	36	79	26	48	1	.1	-.8	T	4.0	75	9.8	102	86	44	0	4	3	0
OK OKLAHOMA CITY	81	51	93	40	66	6	0	0	0	1.7	46	6.4	121	79	30	1	0	0	0
TULSA	83	54	93	46	69	8	0	1.0	0	1.2	25	5.5	80	78	31	1	0	0	0
OR ASTORIA	52	40	57	32	46	-1	3.3	2.2	.9	13.6	137	38.1	151	88	59	0	1	6	3
BURNS	53	38	66	17	46	2	.1	.1	T	1.5	107	4.4	107	57	29	0	2	3	0
MEDFORD	59	39	68	29	49	-1	.3	0	.2	2.9	121	8.0	105	87	43	0	1	3	0
PENDLETON	58	39	73	30	49	-2	.6	.4	.4	2.0	125	4.3	113	85	47	0	1	4	0
PORTLAND	52	41	58	35	46	-.4	2.5	2.0	.8	6.1	117	18.3	132	97	68	0	0	6	2
SALEM	53	38	60	28	46	-.4	2.2	1.6	.8	6.7	110	18.7	113	91	59	0	1	6	2
PA ALLENTOWN	63	38	75	30	51	1	.6	-.3	.6	4.8	83	10.9	104	83	39	0	3	2	1
ERIE	59	37	81	28	48	4	.5	-.3	.3	4.7	102	9.8	120	77	43	0	3	4	0
HARRISBURG	63	38	78	28	50	-1	.5	-.2	.4	5.3	102	10.9	118	87	39	0	2	2	0
PHILADELPHIA	66	40	78	32	53	0	.9	-.2	.9	5.9	105	13.5	139	72	36	0	1	2	1
PITTSBURGH	64	36	79	22	50	0	.2	-.6	.2	4.1	75	10.5	111	64	34	0	3	2	0
SCRANTON	61	38	75	29	49	1	1.1	-.4	1.1	4.8	117	9.8	138	68	39	0	4	2	1
RI PROVIDENCE	60	36	73	30	48	1	T	-.8	T	5.3	85	14.5	123	76	34	0	3	2	0
SC CHARLESTON	77	53	83	44	65	1	.4	-.2	.3	3.3	51	9.1	80	95	45	0	0	3	0
COLUMBIA	78	52	84	35	65	1	.7	-.1	.6	4.4	63	12.5	97	96	42	0	0	2	1
FLORENCE	77	51	84	37	64	1	.9	0	.5	2.9	46	12.1	107	87	40	0	0	3	1
GREENVILLE	71	52	75	38	61	1	1.1	0	.7	5.1	61	16.6	107	83	50	0	0	3	1
SD ABERDEEN	64	39	77	32	51	8	-.1	-.1	-.1	-.1	-.1	-.1	-.1	86	43	0	1	-	-
HURON	68	38	82	30	53	7	.1	-.4	.1	2.3	110	3.8	136	97	42	0	1	1	0
RAPID CITY	66	33	78	24	50	5	T	-.5	T	1.9	86	2.7	100	78	26	0	3	1	0
SIoux FALLS	67	38	83	25	52	7	.5	0	.5	2.6	100	3.5	95	88	39	0	3	3	0
TN CHATTANOOGA	73	50	80	31	61	1	1.3	.3	1.2	7.5	88	21.7	123	89	43	0	1	3	0
KNOXVILLE	74	48	82	32	61	1	.9	0	.9	7.8	105	18.7	121	91	45	0	1	2	1
MEMPHIS	76	55	83	40	65	3	2.4	1.1	1.4	9.4	111	20.2	123	87	48	0	0	2	2
NASHVILLE	74	50	82	32	62	2	2.0	1.0	1.4	6.3	85	17.6	116	91	40	0	1	2	2
TX ABILENE	86	57	96	33	72	7	0	-.6	0	.4	18	2.6	70	80	20	3	0	0	0
AMARILLO	80	42	89	29	61	5	0	-.3	0	.4	33	.9	47	64	12	0	1	0	0
AUSTIN	83	61	98	45	72	4	T	-.8	T	1.7	45	3.4	44	90	46	1	0	1	0
BEAUMONT	78	63	83	43	70	2	2.4	1.5	2.4	6.3	115	11.8	94	91	66	0	0	1	1
BROWNSVILLE	88	69	93	55	78	4	T	-.3	T	.2	18	1.0	28	88	51	3	0	0	0
CORPUS CHRISTI	81	64	96	48	73	0	0	-.5	0	.6	27	8.8	166	99	64	1	0	0	0
DEL RIO	89	63	101	49	76	4	.1	-.3	.1	.3	19	2.9	97	61	27	4	0	1	0
EL PASO	84	53	90	42	69	5	0	0	0	0	0	.9	69	33	14	1	0	0	0
FORT WORTH	81	56	90	37	69	4	.8	-.2	.8	3.3	67	7.5	95	88	47	1	0	2	1
GALVESTON	74	64	78	45	69	0	.1	-.5	.1	1.9	44	7.7	88	94	72	0	0	1	0
HOUSTON	81	61	88	38	71	2	.1	-.7	.1	2.2	48	5.6	52	90	55	0	0	1	0
LUBBOCK	84	51	90	39	67	7	0	-.2	0	.5	33	.9	39	56	12	2	0	0	0
MIDLAND	87	52	96	35	70	6	0	-.2	0	0	0	.6	35	57	13	4	0	0	0
SAN ANGELO	88	54	96	32	71	4	T	-.4	T	.4	24	3.0	94	83	17	5	1	0	0
SAN ANTONIO	85	59	100	45	72	3	T	-.6	T	.7	24	2.7	46	96	44	1	0	0	0
VICTORIA	82	63	92	46	72	2	T	-.6	T	.2	6	6.0	91	92	55	1	0	0	0
WACO	81	58	90	38	70	3	T	-.9	T	4.2	91	7.5	96	91	52	1	0	1	0
WICHITA FALLS	84	53	96	36	69	4	T	-.7	T	2.6	81	5.3	118	84	32	2	0	0	0
UT BLANDING	67	36	69	33	52	5	0	-.2	0	1.6	114	3.1	100	63	26	0	0	0	0
CEDAR CITY	65	38	69	28	51	5	T	-.2	T	2.3	135	5.9	203	56	22	0	2	1	0
SALT LAKE CITY	61	39	68	29	50	1	.3	-.2	.2	3.6	133	5.2	111	71	29	0	2	2	0
VT BURLINGTON	57	39	71	30	48	5	1.3	.6	1.1	3.9	115	8.1	131	81	41	0	3	4	1
VA NORFOLK	68	46	83	37	57	0	T	-.6	T	3.8	78	12.8	121	84	38	0	0	1	0
RICHMOND	74	47	83	36	60	3	.6	-.1	.6	5.1	100	12.3	122	84	34	0	0	1	1
ROANOKE	68	44	73	33	56	0	.2	-.5	.2	3.1	61	11.6	116	83	42	0	0	1	0
WA COLVILLE	53	37	55	28	45	-1	.9	-.7	.7	3.0	176	7.1	145	84	58	0	2	2	1
QUILLAYUTE	48	34	51	31	41	-5	8.0	6.0	2.8	19.0	115	58.3	147	98	77	0	3	7	6
SEATTLE-TACOMA	52	38	57	35	45	-3	1.6	1.0	.8	5.8	107	18.4	128	85	57	0	0	6	2
SPOKANE	53	37	62	30	45	-1	1.4	1.1	1.0	3.5	157	6.7	116	85	50	0	2	6	1
YAKIMA	57	36	61	25	46	-3	.2	0	.1	.9	113	2.7	96	75	34	0	3	2	0
WV BECKLEY	67	44	75	32	56	4	.3	-.5	.3	3.7	58	9.5	77	85	41	0	1	1	0
CHARLESTON	73	42	84	29	57	2	T	-.7	T	5.7	95	12.7	110	82	31	0	2	1	0
HUNTINGTON	72	42	81	27	57	2	.3	-.4	.2	5.7	95	12.6	114	78	31	0	1	2	0
PARKERSBURG	68	39	80	26	54	1	T	-.7	T	6.8	115	10.4	87	65	29	0	2	2	0
WI GREEN BAY	54	36	68	29	45	2	.4	-.2	.2	4.0	138	5.5	122	91	54	0	3	4	0
LA CROSSE	59	38	67	22	49	2	.6	-.1	.3	2.5	71	4.0	85	98	49	0	2	4	0
MADISON	60	37	72	28	49	4	.2	-.4	.2	5.0	152	6.6	138	91	46	0	2	3	0
MILWAUKEE	55	37	66	29	46	1	1.0	.3	1.0	7.2	195	10.4	179	82	50	0	2	2	1
WAUSAU	54	35	67	27	45	2	1.4	.8	.9	5.3	177	7.2	150	96	47	0	2	4	1
WY CASPER	61	32	72	19	47	4	.1	-.3	.1	1.3	76	2.0	87	65	18	0	3	1	0
CHEYENNE	63	32	73	20	47	5	T	-.3	T	.1	6	.7	29	63	17	0	3	1	0
LANDER	58	30	68	20	44	2	.1	-.5	.1	1.2	50	1.8	58	55	19	0	3	1	0
SHERIDAN	62	31	73	20	46	3	.3	-.2	.3	1.6	73	2.6	81	73	25	0	3	1	0
PR SAN JUAN	88	74	91	72	81	4	.1	-.7	.1	2.5	69	11.7	131	86	53	1	0	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

## National Agricultural Summary

April 12-18

**HIGHLIGHTS:** Warm weather encouraged rapid growth and development of the winter wheat crop, but dry, windy weather on the Great Plains quickly depleted soil moisture. Rain is needed, especially in the southern Plains, to support growth and development. East of the Great Plains and in the extreme West, soil moisture was rated adequate to surplus. Wet fields in the North-Central States limited the number of days suitable for fieldwork to 1 to 4. In the Southeast and South-Central States, up to 6 days were available. Winter wheat was mostly in good condition. Greening moved to the northernmost growing regions. Corn planting progressed rapidly in the South and started on a limited basis in parts of Illinois, Indiana, and Ohio. Sorghum planting in Texas was 63% finished, 4 points ahead of average. Cotton planting in the 14 major producing States reached 11% completion, lagging last year's 25%. Rice planting reached 28% completion in the 5 major States, 10 points behind a year earlier. Peanut planting gained momentum in the South. Vegetable planting activities gradually crept northward. Deciduous fruit trees bloomed in northern areas. Pastures were in fair to good condition throughout the South as warm temperatures promoted growth of grasses.

**SMALL GRAINS:** Winter wheat continued in mostly good condition. Warm temperatures promoted rapid growth, but high winds on the central Plains depleted soil moisture. Rain is needed to sustain growth and development. The crop greened in the northernmost growing areas of the Nation.

Kansas winter wheat was in good to excellent condition except in parts of west-central, southwestern, east-central, and southeastern areas where the crop rated only fair to poor. Winterkill was confined to eastern regions where damage is generally light but severe in a few localities. Thirty-five percent of the acreage jointed, 10 points ahead of normal.

Oklahoma winter wheat was in good condition but needed rain. The crop was 80% jointed.

In Texas, the winter wheat crop was in fair to good condition. Dry, windy weather further depleted soil moisture and caused windburn in some fields on the northern High Plains. Rust and powdery mildew caused problems in the Blacklands.

The Pacific Northwest winter wheat crop was in good condition, although some disease was evident.

**OTHER CROPS:** Corn planting started in southern areas of Illinois, Indiana, and Ohio on a limited basis. Farther north, wet field conditions have stalled fieldwork. Across the South, planting progressed rapidly and was generally ahead of average for this date. Emerged plants were in fair to good condition.

Sorghum planting progressed across the Low Plains of Texas. Some producers were waiting for rain before seeding fields. Cutworms and rootworms destroyed some stands in the Coastal Bend area. Planting reached 63% completion, 4 points ahead of normal.

Cotton planting in the 14 major producing States was 11% finished, compared with 25% a year earlier. Planting was active in all States except Oklahoma and Missouri. Only North Carolina producers exceeded the average progress for this date. Additional moisture is needed in Texas for good germination and growth. Emerged plants in Arizona were in good condition.

In the 5 major States, rice seeding advanced to 28% completion, compared with 38% last year.

Seeding was underway in all States except California, where planting usually starts at a later date. Dry, open weather in Texas enabled farmers to make good planting progress. Fertilizer and herbicides were applied.

Seeding of tobacco beds neared completion in many areas. Transplanting was 99% finished in Georgia, and flue-cured tobacco in North Carolina was 6% planted. Plants were in fair to good condition.

Peanut planting gained momentum, reaching 6% completion in Alabama, 9% in Georgia, 10% in Mississippi, and 4% in Texas.

**FRUITS AND NUTS:** Peaches bloomed as far north as New Jersey. Most peach trees were past full bloom and leafing out in southern areas.

Florida's citrus trees were in excellent condition. Soil moisture was adequate, and new crop fruit developed well.

Arizona's citrus trees were in good condition. Trees were blooming. Harvesting of Valencia oranges continued active, but grapefruit picking was very slow. Thinning of nectarine groves was in progress.

Texas grapefruit harvest neared completion. Peach trees continued to set fruit. Pecans trees budded.

Warm, dry weather in California aided fruit and nut development, although many orchards and vineyards were still too wet to work. In late blooming orchards, cherries showed poor pollination. In the Fresno-Tulare area, plums showed significant hail damage. Lemon and Valencia orange picking continued in the San Joaquin Valley, but the Navel orange harvest was nearing completion. Warm dry weather encouraged rapid development of almonds in the San Joaquin Valley.

**VEGETABLES:** Warmer weather permitted rapid planting progress in northern areas. Some fields which were damaged by wind and cold temperatures were replanted.

Hot weather prevailed in Florida's vegetable growing areas. Irrigation was necessary in many areas because of light rainfall. Total vegetable shipments increased 6% from the previous week. Only carrots, celery, escarole, and radishes registered declines. The watermelon harvest increased rapidly. Potato harvests started in the Hastings area.

Arizona's Central Valley lettuce harvest passed the halfway point. Harvests of other vegetables made seasonal progress. Insecticides were applied to summer melons.

Texas growers used irrigation where available to combat dry conditions. Some fields in East Texas needed replanting due to damage from cool weather.

In the San Joaquin Valley of California, the lettuce harvest was at peak; light supplies were also available from the south coast. Strawberry picking was light but increasing.

**PASTURE AND LIVESTOCK:** Across the South, pastures were in fair to good condition but improving because of warm weather and ample soil moisture. Dry weather limited grazing in Texas. Rain is needed to sustain the growth of grasses. Livestock were in fair to good condition. Calving and lambing were well advanced in northern areas. Some losses were reported in newborn calves.

CROP PROGRESS FOR WEEK ENDING APR 18, 1982

	RICE % PLANTED				COTTON % PLANTED		
	1982	1981	AVG.		1982	1981	AVG.
ARK	11	24	19	ALA	6	21	14
CALIF	0	0	NA	ARIZ	50	60	57
LA	54	56	57	ARK	1	6	4
MISS	27	54	36	CALIF	10	80	NA
TEX	76	84	77	GA	13	30	28
				LA	3	22	9
5 STATES	28	38	NA	MISS	1	19	7
				MO	0	2	4
EXCL. STATES				N MEX	3	3	3
WITH NA	34	45	40	N C	5	10	1
				OKLA	0	0	0
				S C	9	47	32
THESE 5 STATES PRODUCED 98% OF THE 1981 RICE CROP.				TENN	2	7	6
				TEX	14	17	15

NA - NOT AVAILABLE

14 STATES 11 25 NA

EXCL. STATES  
WITH NA 12 18 14

THESE 14 STATES PRODUCED 99%  
OF THE 1981 COTTON CROP.

NA - NOT AVAILABLE

(Continued from page 1.)

SATURDAY...The cold front, triggering showers, thunderstorms, and severe weather, moved from the Mississippi Valley to the eastern seaboard. The showers and thunderstorms covered the area along and ahead of the front, but severe weather was less widespread. A tornado was reported in central Pennsylvania. Strong northwesterly winds prevailed from the upper Mississippi Valley to the southern high Plains, and brisk southerly winds blew from the western gulf coast to the northeastern States. Colder weather spread behind the front, and freezing temperatures reached to the Texas Panhandle.

## State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by SRS State Offices in cooperation with the National Weather Service.

**ALABAMA:** Temperatures averaged slightly above normal. Rainfall heavy north, light central and south. Heaviest Sand Mountain, 4.00 in.

Soil moisture surplus north to short south. Corn planted 65%, 1981 69%, average 44%. Cotton planted 6%, 1981 21%, average 14%. Peanuts planted 6%, 1981 7%. Wheat heading 7%, 1981 6%. Activities: Planting corn, peanuts and cotton; pest control on fruit, vegetables and some early crops; spreading fertilizer; seedbed preparation. Conditions: Livestock, pastures, fair to good; wheat fair to good. Plowing 65%.

**ARIZONA:** Sunny skies, mild temperatures. Average temperature 1 to 6° above normal.

Cotton planting 50% complete, still behind 60% planted last season, average of 57%. Stand emergence in earlier plantings good. Temperature trend upward, favorable for growth. Small grains continued good progress, most crop in head development stage. Alfalfa hay harvest normal most areas. Sugarbeet development good, harvest should start next week. Other field crops making good progress. Lettuce harvest, central valley, past halfway point, yields good. Mixed vegetable harvest continued. Summer melons good progress, Yuma area, thinning, weeding, turning vines, applying insecticides in progress. Onions for seed production in bloom. Harvest Valencia oranges continued, quality excellent, supply limited. Grapefruit picking very slow. Citrus trees blooming, good condition. Grapes developing well, all varieties good bunch counts. Thinning, girdling peach, nectarine groves in progress. Range conditions good northern half of State, mostly fair conditions southern half. Livestock fair to good. Supplemental feeding required northeastern part of State where livestock poor to fair. Water supplies adequate.

**ARKANSAS:** Temperatures above normal. Good rainfall except northwestern section. Highest temperature 88°, lowest 30°. All departures from normal

ranged from +7 to 0°. Most rainfall 4.80 in., least 0.01 in.

Rice planted 11%, 24% 1981, 19% average. Cotton planted 1%, 6% 1981, 4% average. Soybean land preparation underway. Corn planted 47%, 52% 1981, 31% average. Sorghum planted 22%, 23% 1981, 16% average. Wheat and oats in good condition. Livestock in good condition. Forage supplies on pastures were average. Five days available for fieldwork. Soil moisture adequate. Crop growth slow to moderate. Farmwork on schedule.

**CALIFORNIA:** A series of cold storms moved across the State. Average temperatures were generally below seasonal normals although a few stations in each division managed to stay at or a little above normal. Again precipitation totals were measured in whole inches rather than fractions, especially over the Sierra Nevada and other mountain areas.

Field activities resuming in most areas with improved weather conditions. Cotton planting now getting underway with 10% planted, 80% last year. Rice straw burning active. Small grains in Sacramento Valley showing effects of excessive amounts of rain. Grains in San Joaquin and Imperial Valleys showing excellent growth and heading out. Sugarbeet harvest and planting resuming. Dry bean planting will resume as conditions permit. Warm, dry weather aided fruit and nut development. Many orchards and vineyards too wet to work. Some apricot hail damage showing up, San Joaquin Valley. Cherries showing poor pollination in later blooming orchards. Grapes leafed out in North Coast. Fresno wine grapes missed hail and frost that damaged raisin grapes moderately to heavily. Significant hail damage to plums appearing Fresno-Tulare. Peaches showing leaf curl, Sacramento Valley, while prune orchards reaching jacket-split stage. Lemon and Valencia picking continues San Joaquin Valley, Navel orange harvest winding down. Almonds developing rapidly in San Joaquin Valley. Warm, drier weather beneficial. Artichoke volume moderate, fields wet. Broccoli, cauliflower harvest moderate Central Coast. Car-

rot harvest active Desert. Lettuce harvest at peak San Joaquin Valley, light supplies Central Coast. Grading dry onions starting Desert. Processing spinach harvest continues. Strawberry volume light but increasing. Planting, replanting processing tomatoes, lighter soils Sacramento Valley. Ranges central, southern areas making excellent progress. Hay supplies short northern mountain, high Desert areas due longer than normal supplemental feeding period. Sheep shearing continues increase northern districts.

**COLORADO:** Several weak Pacific cold fronts passed across State during the week, producing rain and snow over the mountain sections. Dry, gusty winds continued over the eastern plains. Temperatures were well above normal over most of the State.

Seeding of spring grains rapidly passing half-way mark, but germination being slowed by dry topsoils. Winter wheat and emerged spring grains under stress from continual winds and blowing topsoil across the eastern plains. Barley, 67% seeded; oats, 52% seeded; spring wheat 41% seeded; sugarbeet seeding progressing rapidly, some being irrigated to promote germination and emergence. Winter wheat fair to good condition, but needs moisture badly; 15% of the acreage being pastured. Subsoil and topsoil moisture rated very short to short as winds rapidly depleting topsoil moisture. Scattered infestations of greenbugs, grasshoppers, and red spider mites reported in east. Five and one-half days suitable for fieldwork. Livestock in good condition with minimum death losses reported.

**FLORIDA:** High pressure dominated, with sunny skies and dry, hot conditions. Another weakening cold front moved into the Panhandle slowly evening of 17th, down into central area by 18th. This time, very little cloudiness or rain came with the front. Temperatures changed very little.

Soil moisture mostly adequate central northern, western areas, excessive northeast, mostly short, south. Corn, tobacco good condition. Peanut planting underway all areas. Soybean land being prepared. Small grains heading. Sugarcane good progress. Pastures mostly good to excellent. Cattle condition mostly good. Citrus tree condition continues excellent. Soil moisture adequate. Lots of new growth, new crop fruit progressing very well. This year's Valencias improving in quality and holding well. Hot weather prevailed in vegetable areas. Rainfall variable. Little or no rain most areas but moderate, southwest area. Winds mostly light to moderate. Irrigation active. Total shipments increased 6% from previous week. Harvest gained snap beans, cucumbers, lettuce, okra, parsley, potatoes, southern peas, strawberries, watermelons. Volume about steady cabbage, cauliflower, Chinese cabbage, sweet corn, peppers, squash, tomatoes. Volume declined carrots, celery, escarole, radishes. Watermelon harvest continues to increase rapidly, Immokalee area but yields only fair. Crop progress continues mostly good other areas. Harvest of potatoes underway Hastings area. Most growers expected to begin digging this week.

**GEORGIA:** Quite cool early in week, but gradual warming. Overall, 2 to 4° below normal. Average rainfall near 0.50 in., but showery and quite variable. Little rain central. Rain and thunder-showers night of 16th and on 17th. Mild temperatures with highs in 70's and lows in the 50's.

Soil moisture 74% adequate, 21% surplus. Four days suitable for fieldwork. Land preparation and planting active as wet soils permitted. Corn 90% planted, 90% last year, average 75%. Condition 4% poor, 58% fair, 38% good. Cotton 13% planted, last year 30%, average 28%. Condition 38% poor, 62% fair. Grain sorghum 11% planted, 12% last

year, average 9%. Peanuts 9% planted, last year 15%, average 13%. Condition 71% fair, 29% good. Soybean planting begun but less than half percent, last year and average both 1%. Tobacco 99% transplanted, last year 91%, average 81%. Condition 5% poor, 49% fair, 46% good. Watermelons 87% planted, last year 86%, average 78%. Condition 2% very poor, 22% poor, 56% fair, 20% good. Wheat 11% poor, 44% fair, 43% good. Other small grains 3% poor, 43% fair, 52% good. Many fungus disease problems on wheat and other small grains. Vegetables recovering from wind and cold, condition mostly fair to good. Fruit crops hurt severely north and east central, assessment continues central. Pastures 29% fair, 65% good, 4% excellent. Cattle and hogs fair to mostly good.

**HAWAII:** Fair weather prevailed most of the week. Rainfall light and beneficial in some sections. Returning dry weather made easier access to fields for spraying. Crops were making improvements except for few spoilage losses to leafy crops. Vegetables: Supplies adequate. Chinese cabbage harvest very active. Shipping to U.S. mainland continues. Bananas: Supplies light. Papayas: Regular spray program maintained to control Phytophthora disease. Pineapples: Harvesting light. Sugar: Few mills not back to grinding. Pastures: Generally fair to good.

**IDAHO:** Generally cold temperatures were the rule. Low temperatures ranged from 11° at Ashton to 33° at Lewiston. Precipitation was far above normal; most stations ranging from 50 to 100% of normal and was generally in the form of snow in the higher elevations and rain in the elevations below 5,000 feet.

Cool, windy weather hampered fieldwork, but some headway was made in southwest and south central. North and east, farmers still waiting for snow to melt and fields to dry, as very little activity taking place. Spring wheat was 14% seeded compared to 50% last year and 32% average. Barley seeding was 10% complete, compared to 40% last year and 36% average. Sugarbeet planting stood at 24% versus 50% last year. Potato plantings only reached 3%. Onions were still ahead of last year with 76% planted. Ranges greening in the southwest and south central areas and should provide excellent forage after some warm weather. Livestock being moved to the ranges early as feed supplies dwindle.

**ILLINOIS:** Temperatures 2 to 5° above normal. Precipitation 0.75 to 2.00 in.

Winter wheat 4% excellent, 55% good, 35% fair, 6% poor. Oats planting 40% complete, 98% 1981, 57% average. Plowing corn and soybeans ground 72% complete, 97% 1981, 86% average. Corn planting less than 1%, 3% 1981, 2% average. Alfalfa 1% excellent, 65% good, 33% fair, 1% poor. Pastures 2% excellent, 54% good, 42% fair, 1% poor, 1% failure; supplying 25% roughage requirements livestock, 52% 1981, 39% average. Soil moisture 49% adequate, 51% surplus. Activities: Seeding oats, applying anhydrous fertilizer, and preparing machinery for spring fieldwork.

**INDIANA:** Warm week. Near normal temperatures but 10° warmer than previous week. Temperatures ranged from 24 to 84°. Rainfall in two-day period from 0.50 in. southeast to 1.10 in. west and north.

Soil temperatures jumped to 40's and 50's. Sunshine 65% of possible. Fieldwork averaged 2 days. Topsoil and subsoil moisture adequate to surplus. Spring planted cropland 55% plowed, 1981 90%, average 70%. Oats 15% seeded, 1981 95%, average 45%. Wheat fair condition. Wheat 4 in. tall, 1981 9 in., average 5 in. Wheat 10% jointed.

**IOWA:** A warm, wet week. Temperatures 24° higher than week earlier. Moderate to heavy rain on

15th, 16th all areas except northwest; 3.00, 4.00 in. in some southwest localities.

Topsoil moisture: 48% surplus, 50% adequate, 2% short. Subsoil moisture: 25% surplus, 70% adequate, 5% short. Plowing: 55% complete, last year 92%, normal 68%. Oat acreage planted: 31% complete, last year 98%, normal 61%. Fieldwork: 1.6 days suitable. Crop conditions: Pasture, fair to good; winter wheat, fair to good. Livestock in good condition.

KANSAS: Spotty precipitation averaging 0.75 in. north central, 0.25 in. northeast, generally less than 0.10 in. elsewhere. Temperatures averaged 58° northwest to 66° southeast, 6 to 10° above normal. Freezing temperatures 17th in west. Strong winds 12th, 14th, 16th and 18th, local blowing dust in west.

Wheat condition good to excellent except portions, west central, southwest, east central and southeast, fair to poor. Warm weather promotes rapid growth but high winds rapidly depleting surface moisture. Soil-borne mosaic present most areas, more extensive central, southwest. Winterkill confined mostly eastern areas, damage light to locally severe. Corn planting gaining momentum. Seedbed preparation, preplant irrigation continue where planting hasn't started. Wheat jointing: 35%, last year 70%, average 25%. Corn planting: 10%, last year 15%, average 5%.

KENTUCKY: Daytime temperatures mostly near or above normal. Night lows for most part were below normal. In fact, frost was reported over many areas on morning of the 18th. Precipitation averaged between 0.75 and 1.02 in.

Fieldwork: 4.6 days suitable, but about 3 days behind normal. Soil moisture 4% short, 74% adequate, 22% surplus. Corn 8% planted, 9% average and 14% last year. Tobacco beds 96% planted. Plants up in 46% beds, 77% last year and 50% average. Nearly 50% of alfalfa fields infested with weevils. Freeze damage 5th, 10th to tobacco, small grains, alfalfa and new legume seedlings still being assessed. Fruit crops heavily damaged.

LOUISIANA: Temperatures averaged 2° above normal. Rainfall averaged 0.30 to 1.80 in.

Soil moisture short to adequate. Days suitable 5.9. Spring plowing 77%, 84% 1981, 47% 1980. Corn planted 80%, 79% 1981, 66% average; emerged 68%, 62% 1981, 47% average; condition fair to good. Rice planted 54%, 56% 1981, 57% average; emerged 38%, 48% 1981, 44% average; condition fair to good. Wheat headed 63%, 74% 1981, 45% average; 9% turning color, 12% 1981; condition fair to good. Sorghum planted 24%, 42% 1981; emerged 10%, 30% 1981; condition fair to good. Cotton planted 3%, 22% 1981, 9% average. Sweetpotatoes planted 4%, 17% 1981, 4% 1980. Sugarcane rated fair to good, fertilization and weed control main activity. Vegetables rated fair to good. Strawberry harvest continuing. Pastures, livestock rated good.

MARYLAND AND DELAWARE: Temperatures averaged 4° below normal. Highs in the low to mid 60's; lows in the mid 50's. Precipitation sparse. Most stations received only a trace of rain. The 17th was mild with showers and thundershowers during the evening and night. The 18th was windy and a little cooler.

A cool, wet spring delayed planting of most crops. Maryland's progress data: Acres plowed 45% this year, 50% last. Potatoes 50%, last year 75%. Sweetpotatoes 80%, last year 95%. Green peas 70%, last year 85%. Snap beans just beginning, last year 7%. Tobacco beds planted 100% both years. Peaches in bloom 50%, 60% last year. Small grain condition good, little freeze damage reported from the early April freeze. Delaware

progress data: Acres plowed 80%, last year 85%. Potatoes 70%, last year 75%. Green peas 50%, last year 65%. Peaches not in bloom, 95% last year. Small grain in good condition with little freeze damage.

MICHIGAN: Temperatures averaged around normal. In the Upper Peninsula the temperatures ranged from 1 to 4° below normal and 4° above normal in the Lower Peninsula. Precipitation amounts for most areas were near normal. Heaviest amounts were reported in the Upper Peninsula, parts of the west central and central Lower Peninsula where amounts totaled nearly 1.50 in.

Field activity was held to a minimum as wet fields and cold temperatures have farmers at a standstill. Winter wheat condition fair to good, greening well in some areas but slow in others. Fruit trees coming out of dormancy with no apparent adverse affects.

MINNESOTA: Temperatures averaged 1 to 6° above normal. Extremes: 82° at Canby, 10° at Bemitt. Precipitation averaged normal to 0.40 in. below normal west central and northwest through northeast and 0.25 to 0.92 in. above normal elsewhere. Precipitation totals less than 0.50 in. west central, northwest through northeast and 0.50 to 1.50 in. elsewhere. Snowdepth at weeks end 1 to 5 in. extreme north central and northeast.

MISSISSIPPI: Temperatures near normal. Extremes: 30 and 87°. Low pressure area late in week resulted in rainfall Statewide. Greatest 24-hour rainfall 2.26 in.

Soil moisture surplus to excessive north and adequate to short south. Fieldwork: 4.0 days suitable. Land preparation and planting were main farm activities. Plowing 60% completed, 85% last year, 67% average. Corn 55% planted, 64% last year, 48% average; 34% to stand. Rice 27% planted, 54% last year, 36% average; 5% to stand. Cotton 1% planted, 19% last year, 7% average. Winter wheat 36% headed, 64% last year; condition good. Watermelons 73% planted, 80% last year. Peanuts 10% planted, 25% last year. Pasture condition good. Livestock condition good to fair.

MISSOURI: Temperatures averaged from 2 to 7° above normal. Precipitation in western areas averaged less than 0.50 in. Eastern areas averaged less than 0.75 in. Storms late in the week dumped over 3.00 in. of rain in extreme northeast.

Fieldwork: 3.7 days suitable. Plowing for spring-planted crops 63% completed, last year 89%, normal 64%. Oats 66% seeded. Corn 10% planted, last year 17%, normal 12%. Condition of winter wheat and pastures mostly fair to good. Supply of topsoil moisture mostly adequate.

MONTANA: Mild temperatures, warmest the first and last of the week. Maximum temperatures reached 70's over parts of south central, southeast and generally into the 60's elsewhere. Temperatures averaged 1° below normal over the southwest, normal in the west, 2° above normal through the central areas and 4° above in the east. Sub-zero temperatures were recorded over some of the southwest. Highest 76° at Broadus, lowest -16° at West Yellowstone. Precipitation was heavy over much of the west and southwest with from 1.50 to 2.00 in. common over much of the area. Elsewhere precipitation was mostly light to moderate.

Winter wheat condition fair to good and greening many areas. Cool weather retarding growth. Fieldwork start delayed by wet, cold soils most areas. Spring wheat seeding started in few southern areas. Calving and lambing near 75% completion. Livestock condition good.

NEBRASKA: Temperatures: 4 to 9° above normal. Precipitation: Widespread showers and thunder-

storms. Amounts ranged from trace amounts in the west to over 3.00 in. in parts of the southeast.

**NEVADA:** Wet beginning but dry ending. Multitude of spring storms moved across State early in period with precipitation all stations. Temperatures climbed closer to normal ranging from 2° below normal northwest to 3° above south. Sunny skies end of week gave first pleasant weekend this spring.

Ranges benefited by additional precipitation. Inclement weather early in period hampered beginning alfalfa hay harvest extreme southern valleys. Livestock continued to move to summer range south.

**NEW ENGLAND:** Temperatures near normal. Little day to day change except for a rather warm 17th, when highs were in low to mid 70's. Rainfall ranged from 0.25 in. on the coastal plain to between 1.00 and 1.50 in. near the Canadian border. Most of it occurred just ahead of a cold front that moved through during evening 17th and early morning 18th.

**NEW JERSEY:** Temperatures near normal. Extremes: 22° at Newton on 15th and 80° Hammonton on 17th. Rainfall averaged 0.67 in. north, 0.96 in. central and 1.06 in. south. Heaviest 24-hour total was 1.60 in. at Bridgeton on 17th to 18th. Estimated soil moisture, in percent of field capacity, averaged 98 north, 95 central and 94 south. Four in. soil temperature averaged 44° north, 48° central and 48° south.

Improved weather conditions increasing field activities. Soil preparation and planting active where soil conditions permit. Some weather damaged vegetables to be replanted. Fruit spraying active. Peach bloom in progress. Pasture growth beginning.

**NEW MEXICO:** Average temperatures were about 5° above normal over most areas.

Soil moisture in the northwestern areas remains in adequate supply while most other areas continue in a short to very short supply. Wind damage was light to moderate. Planting of cotton underway in the far southern areas. Alfalfa fields continue in good condition and progressing well. Some fields having problems with weeds and some insect damage reported. Irrigated wheat and barley remain in good condition with about 50% jointing. Dryland wheat in poor to fair condition with about 40% jointing. Corn planting getting underway. Onions and chili in good condition and making good progress. Lettuce in good condition with harvest expected to begin this week. Ranges dry in most areas but have a good supply of old grass. Livestock in good condition with calving continuing. Shearing mostly complete with some lambing continuing.

**NEW YORK:** Temperatures generally below normal. Heavy showers from 1.00 to 1.50 in. in Adirondacks and Catskills on 17th. Most other areas near normal precipitation.

Not much early spring ground preparation due to weather.

**NORTH CAROLINA:** Temperatures: 2 to 4° above normal except in coastal areas where they were near normal. Precipitation: Rainfall averaged around 0.50 in. for the State but some areas in the east received only a trace.

Soil moisture: 36% short and 64% surplus. Fieldwork: 5.8 days suitable. Crop condition: Wheat, oats, barley, and rye fair to good; pasture fair to mostly good; tobacco plant beds fair to mostly good; Irish potatoes fair to mostly good; peaches mostly poor; truck crops mostly fair to good. Plantings: Corn 58%, 1981 66%, 55% average; cotton 5%, 1981 10%, 1% average; flue-cured tobacco 6%, 1981 18%, 7% average. Major farm activities: Land preparation and corn planting.

**NORTH DAKOTA:** Temperatures averaged 3 to 6° above normal. Averages ranged from 42° north central to 48° south central. Extremes: 77° northwest to 90° central. Precipitation averaged below normal, range from 0.02 in. west central to 0.38 in. southeast. Severe thunderstorm activity with hail and tornadoes occurred in the southeast on the 15th.

Wet conditions keeping farmers out of fields. One to two weeks of good drying weather needed. Average expected starting date for fieldwork is April 28. Additional snow received in western areas on 18th and 19th. Latest date for start of fieldwork since 1979. No crop planting to date. Last year 26% of hard red spring wheat seeded by 18th. Average 8%. About 50% of winter wheat and rye acreage still dormant. Most in good to excellent condition. Calving and lambing about 75% completed. Scours and other disease problems in newborn calves. Some heavy losses. Most pastures still dormant. Hay being purchased.

**OHIO:** Temperatures averaged 2 to 5° above seasonal levels. Some below freezing readings reported during early morning hours, but also some summer-like upper 70's and low 80's during the afternoon hours as the work week drew to a close. Growing degree day totals average under 50 north, southern sections averaged 75 to 100. Four inch bare soil temperatures warmed slightly, ranging from 50's north to 60's south. Soil temperature dropped somewhat as rainfall averaged less than the 0.75 in. evaporative loss totals. Showers widespread but averaged 0.50 to 0.75 in. below normal.

Farm activities: Seeding alfalfa and pastures, applying fertilizer, topdressing wheat, hauling manure, repairing tile, plowing and chiseling, buying seed and fertilizer, pruning and spraying fruit trees. Corn and cabbage planting underway in south. Potato planting began. Winter wheat damaged especially north due to freezing temperatures and water laying in low spots. Peach crop sustained heavy losses from mid-winter low temperatures. Oat seeding 5%, 15% 1981, 10% average. Tobacco beds sown 40%, 95% 1981. Days favorable: 3. Pasture condition fair. Soil moisture short, 41% adequate, 59% surplus.

**OKLAHOMA:** Precipitation averaged from none in the Panhandle and north central to 0.60 in the southeast. Temperatures averaged from 3° above normal in the southeast to 7° above normal in the northeast and north central.

Wheat still rated good. Topsoil moisture short 75% of counties. Subsoil levels generally adequate. Wheat jointing 80%, same as last year; 65% average. Days suitable for fieldwork: 6.3.

**OREGON:** Cold, wet weather continued. Temperatures 3° lower than normal. Precipitation 4.70 in. along coast; 3.10 in. throughout Willamette Valley; 0.80 in. in north central regions; 0.30 in. in far eastern areas.

Soil moisture supplies surplus in west and south central; mostly adequate to surplus elsewhere. Winter wheat condition good; some disease evident. Spring seeding, tilling, fertilizing and spraying continues. Most crops slowed by cool, wet weather. Fruit bloom moving slow; frost a major concern; some damage already. Poor pollination weather. Sweet cherries in full bloom. Early pears in bloom. Scab and mildew sprays going on. Caneberries leafing out. Potato planting continues; emergence slow. Onions mostly planted in east; just preparing to plant in west. Green peas being delayed; emergence slow. Rhubarb and spinach harvest underway. Livestock generally good; some respiratory disease resulting from weather. Range and pastures short; need warm weather.

**PENNSYLVANIA:** Warming trend and sunshine through week raised average temperatures 15 to 25° from previous week, averaging near to 5° above normal for mildest week since early November. Extremes: 17° 12th to 82° 17th. Light rain 13th and showers 17th provided less than 0.50 in. rainfall most western areas, up to 1.00 in. east and 1.50 in. over Poconos.

**PUERTO RICO:** Island average rainfall 0.28 in. or 0.65 in. below normal. Highest total 3.36 in. Temperatures averaged about 79 to 78° on Coasts and 73° Interior Divisions. Extremes: 92 and 57°.

**SOUTH CAROLINA:** Quite cool start, warming to average 1 to 3° above normal. Midweek showers and weekend scattered showers, thunderstorms with localized hail.

Soil moisture adequate. Days available for outdoor activity: 5. Plowing at 78%. Corn condition fair to good, 86% planted, 93 year ago, 76 average. Cotton rated poor to fair with 9% planted well behind 47 last year, 32 average. Tobacco condition fair, some resetting necessary due to freeze damage; 45% planted, 84 year ago, 55 average. Peanuts poor condition, 9% planted, 3 last year. Wheat condition fair due to widespread powdery mildew, 32% headed, 50 last year. Cold damage showing up in some barley fields. Piedmont includes virtually all peach orchards wiped out by recent freezes. Ridge peach losses put at half to three-quarters of crop. Many counties disaster loan status. One major region estimated 35% of grapes lost.

**SOUTH DAKOTA:** Mostly spring-like weather. Average temperatures 4 to 8° above normal. Extremes: 86 and 18°. Precipitation amounts mostly near 0.50 in. Up to 1.66 in. were reported. Most areas in west have received above normal precipitation. East near normal, except parts of southeast below normal.

**TENNESSEE:** High pressure began the week but during midweek a weak frontal system sagged slowly southward setting off scattered showers. The same front moved northward as a warm front 15th bringing warm temperatures. A cold front 16th and 17th moved eastward setting off rain and heavy thunderstorms. Temperatures averaged 2 to 5° above normal. Rainfall amounts were generally over 1.00 in. in west, middle, and southeast with the northeast under 1.00 in.

Fieldwork: 4.0 days suitable. Soil moisture 9% short, 76% adequate, 15% surplus. Land preparation 65% complete, 1981 79%, average 62%. Corn 15% planted, 1981 27%, average 14%. Cotton 2% planted, 1981 7%, average 6%. Tobacco seedbeds 98% planted, 1981 98%, average 93%. Small grains mostly fair. Pasture conditions improved, fair to good. Livestock in good condition. Activities: Replanting home gardens, preparing land for seeding, corn and cotton planting, feeding hay, spraying for alfalfa weevils, general spring chores.

**TEXAS:** Weather: Slow moving frontal system moved into State midweek then through State by late week. System triggered scattered thunderstorms through all but extreme Western Texas. Temperatures 3 to 5° above normal. Rainfall 0.25 to 0.50 in. below normal, except Northeast Texas where 0.10 in. above normal.

Crops: High winds, blowing dust problem across High, Low Plains. Some young plants damaged the Low Plains; scattered wheat fields wind burned Northern High Plains. Cloudy weather Central Texas slowed crop development. Dry, open weather along Coast allowed rice planting make rapid progress. Cotton good progress Lower Valley, although additional moisture be welcomed. Planting underway some areas Trans-Pecos. Cotton planting rapid progress across Blacklands. Sorghum planting progressing across Low Plains, some producers waiting rain

before seeding fields. Blacklands most stands good condition, sunshine be welcomed relief from cloudy weather. Aphids damaging fields Blacklands, South Central Texas. Some stands Coastal Bend destroyed by cutworms, rootworms. Corn planting underway High Plains; high winds, blowing dust delayed seeding. Most fields Blacklands good stands. Cool soil temperatures slowing growth East Texas; some early fields be replanted. Rootworms, cutworms problem South Central Texas, Coastal Bend. Chinch bugs increasing Upper Coast. Lack of moisture problem dryland wheat fields High, Low Plains. Dry, windy conditions deplete soil moisture. Some fields have burn damage from high winds. Rust, powdery mildew problem Blacklands. Reported condition across State 72% of normal with 9% excellent; 35% good; 49% fair; and 7% poor. This compares with 73% of normal last year; reflects continued dry conditions across High, Low Plains. Rice planting good progress along Coast with dry, open weather. Fields being fertilized; herbicide application underway some areas. Hay prospects remain good Blacklands, East Texas. Strong winds across High Plains hard on some sugarbeet stands; fields be replanted.

Range and livestock: Range, pasture conditions very. High winds, lack of rain further depleted soil moisture Plains, Trans-Pecos region causing grazing to be limited. Supplemental feeding in these areas continues. Central, East Texas conditions improving, however, more rain needed to sustain growth of grasses. South Texas, pastures providing some grazing, supplemental feeding tapering off. Livestock fair to good condition.

Commercial vegetables: Lower Rio Grande Valley, harvest of onions, carrots continued, carrots beginning to taper off. Seed stems, blight causing reduced yields, increased abandonment of onions. Citrus harvest continues, grapefruit nearing completion, Valencias progressing steadily. Coastal Bend, watermelons progressing well. Additional rain needed. San Antonio-Winter Garden area, tomatoes, onions, watermelons showing good growth. Irrigation necessary. Carrot harvest continued, volumes diminished. East Texas, tomatoes, watermelon planting virtually complete. Some fields being replanted due to damage from cool, wet temperatures. Sweetpotato beds ready, planting underway as soil temperature rises. North Texas, potatoes, tomatoes, peppers, onions progressing well. Trans-Pecos region, conditions dry, onions doing well with irrigation. Plains, potato, onion growth slow, high winds continue to deplete soil moisture. Peach trees continue to set fruit, outlook remains fair. Some leaf curl, not as serious as a year ago. Pecans budding, moving toward pollination. Catkins forming in some areas. Cotton planted 14%, 17% 1981, 15% average. Rice planted 76%, 84% 1981, 77% average. Rice emerged 39%, 54% 1981. Sorghum planted 63%, 65% 1981, 59% average. Wheat headed 34%, 24% 1981. Corn planted 62%, 57% 1981, 48% average. Peanuts planted 4%, 9% 1981, 10% average. Sugarbeets planted 94%, 68% 1981, 81% average. Sunflowers planted 2%, 0% 1981, 0% average.

**UTAH:** Scattered areas rain or snow forepart period, principally north and west portions. Accumulated amounts moisture generally light to moderate but locally heavy few localities. Temperatures variable but averaging between 5° below normal to 6° above.

Fieldwork only in scattered areas and running behind normal. Soil moisture rates adequate to surplus. Heavy snowpack should supply adequate irrigation water for the season. Spring planting delayed by wet fields and cool weather. Spring wheat 10% planted compared with 56% last year. Some frost damage to early fruits. Livestock wintered well, but death losses may be up due to storms during calving and lambing. Range feed slow in starting, but soil moisture in good supply.

**VIRGINIA:** Below normal temperatures and precipitation. Precipitation occurred 17th as a cold front passed through the State. Amounts ranged from 0.01 in. at Norfolk to 0.86 in. at Craigs-ville. Temperatures averaged 2 to 3° below normal, with extremes of 83 and 21°.

Warmer weather enabled farmers to increase fieldwork activity and stimulated growth of pastures, hay fields and small grains. Farmers were active spreading lime and fertilizer and preparing their land for planting. Days suitable for fieldwork: 5.2. Topsoil moisture was 27% short, 73% adequate. Corn planting 16% complete, 27% 1981, 20% average. Potato planting complete on the Eastern Shore and 75% elsewhere. Increasing soil temperatures should permit soybean and peanut seeding to begin. Pastures, wheat and hay rate good to excellent despite cool spring temperatures which reduced growth. Livestock remain in good condition and producers preparing to move cattle to pastures. Seeding of pasture, oats and alfalfa continued and topdressing small grains being completed. Some rye almost ready for cutting as silage and hay. Apple trees beginning to bloom and appear to be in normal condition. Most of the reported peach damage occurred in east. Late tobacco bed seeding reported as was some replanting of corn in fields eroded or covered by soil blown by high winds.

**WASHINGTON:** West: Vegetables being planted include lettuce, spinach, radishes, and green peas. Field rhubarb harvest underway. Red currants in bloom while canberries continue to look good. Pasture fertilization continued with many fields greening up nicely. Cattle in good condition and coming off winter rations.

East: Spring crops being planted include wheat, barley, potatoes, field corn, dry peas, green peas, sweet corn, tomatoes, melons, peppers, and radishes. Spring wheat and barley seeding well along while potatoes and other vegetables in early stages. Winter wheat and barley in average condition. Asparagus harvest has been delayed due to

cool weather but should begin soon. Walla Walla sweet onions in good condition. Fruit tree and grape development has been slowed by cold temperatures. Bloom dates now several days behind normal. Livestock in good condition. Range and pasture feed supplies adequate.

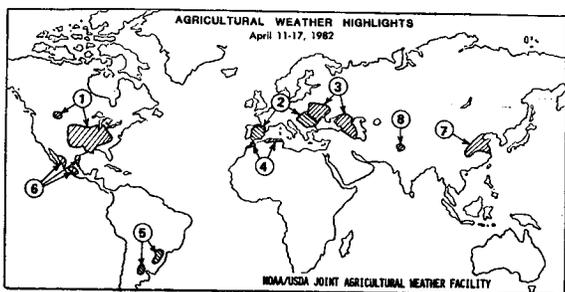
**WEST VIRGINIA:** Temperatures normal north central and northeast, above normal elsewhere. Extremes: 18 and 85°. Precipitation below normal; range: 0.40 to 0.72 in.

Soil moisture mostly adequate to short. Days worked: 4.3. Hay supplies short, other feed adequate. Activities: Plowing; fencing; liming; fertilizing. Tobacco 70% bedded. Some oats slow. Crop conditions mostly fair to good.

**WISCONSIN:** Cool temperatures prevailed. Showers moved into the State on the 12th and dumped 1.00 to 3.00 in. of rain. Temperatures gradually warmed through the week. Showers again fell on the 15th and 16th. Some light snow was reported in north. High temperature was 72° at various locations on the 19th, 16th and 18th. The low, 20°, was recorded in Lake Thompson on the 14th.

**WYOMING:** Central and eastern portions above normal temperatures while western sections readings slightly below normal. Highs 77°. Lowest -7°. Very dry spring. Most precipitation 1.25 in.

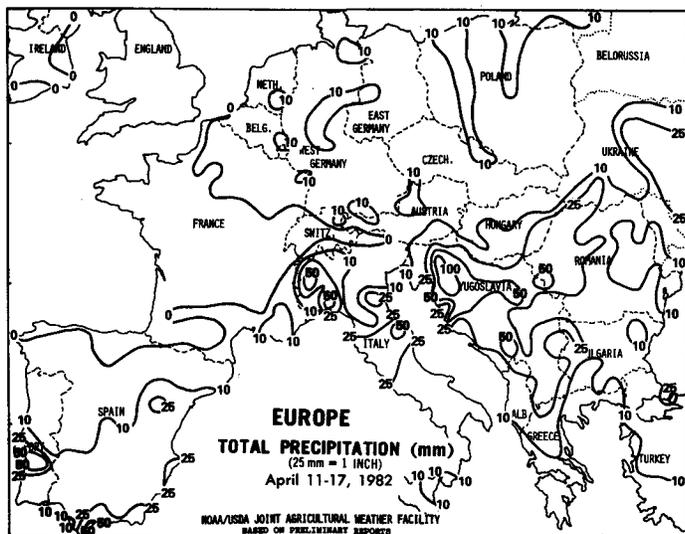
Topsoil moisture adequate 56% State. Five days suitable for fieldwork. Oats planted: 15%; last year 35%; normal 31%. Spring wheat planted: 15%; last year 40%; normal 31%. Barley emerged: 5%; last year 30%; normal 17%. Sugarbeets planted: 30%; last year 70%; normal 41%. Winter wheat mostly fair condition, additional moisture needed for good development. Spring calves born: 80%; last year 75%; normal 70%. Farm flock: Ewes lambled 80%; shorn 70%. Range sheep: Ewes lambled 40%; shorn 50%. Livestock movement to summer ranges will start around May 1. Spring wheat emerged 5%. Barley planted: 35%; last year 60%; normal 51%.



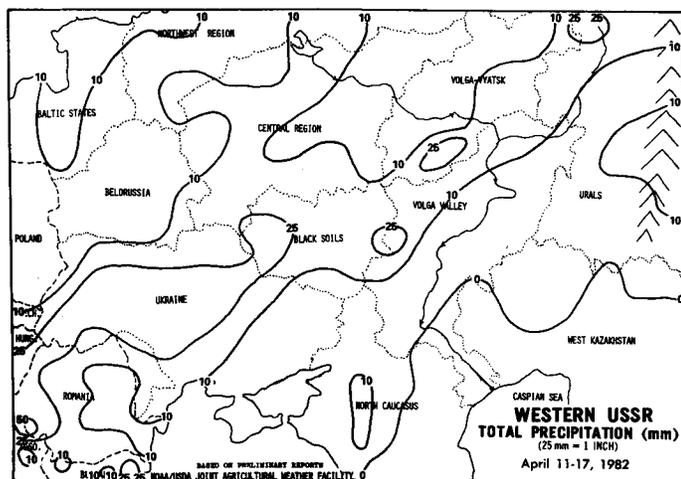
### International Weather and Crop Summary

April 11-17

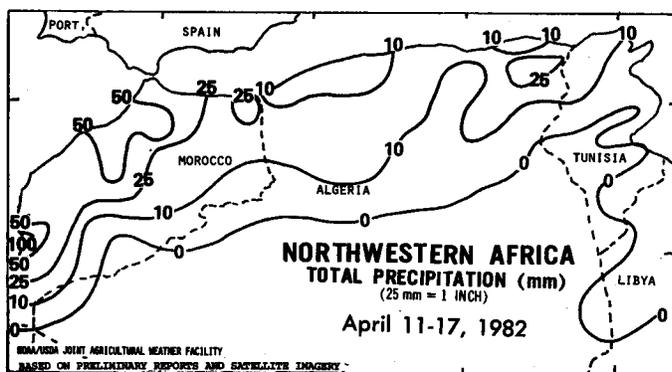
1. **UNITED STATES:** Unseasonable warmth throughout the Great Plains accelerates wheat greening in northern areas and growth in the central area. However, the warm temperature increases stress in the dry southern Plains where the crop is nearing peak moisture needs. Wetness continues to slow preplanting activities and planting in the eastern third of the Nation and the West Coast.
2. **EUROPE:** Wet weather improves conditions for winter grains in Spain and the southeast.
3. **WESTERN USSR:** Wet weather benefits winter grains in the western Ukraine; dry weather in the North Caucasus aids in planting.
4. **NORTHWESTERN AFRICA:** Soil moisture mostly adequate for winter grains.
5. **SOUTH AMERICA:** Wet weather slows harvest in Argentina and Brazil.
6. **MEXICO:** Hot, dry weather stresses rainfed crops and accelerates irrigation.
7. **EASTERN ASIA:** China's winter grain areas still too dry; becoming serious in some parts.
8. **SOUTH ASIA:** Heavy rains disrupt Pakistan's winter grain harvest.



**EUROPE:** Light showers in northern crop areas caused only minor delays in land preparation and planting of early spring crops. Soil moisture conditions for winter grains remain good in most northern areas, but moisture supplies are still somewhat low in southern Poland. Dry weather in France and England aided fieldwork, delayed by wet weather in past weeks. In contrast, wet weather occurred over Mediterranean areas and the southeast, improving soil moisture conditions for most winter grains in the vegetative stage. The precipitation in Spain was highly beneficial to the winter grain crop which is in the heading stage in the south.

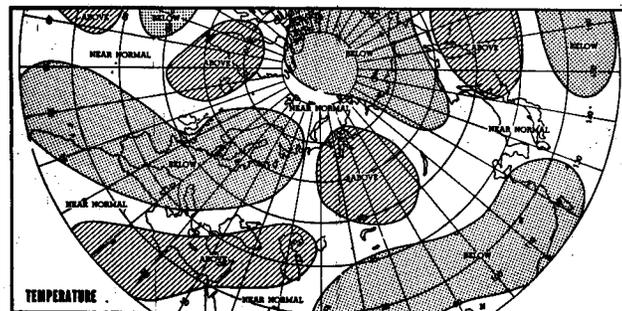
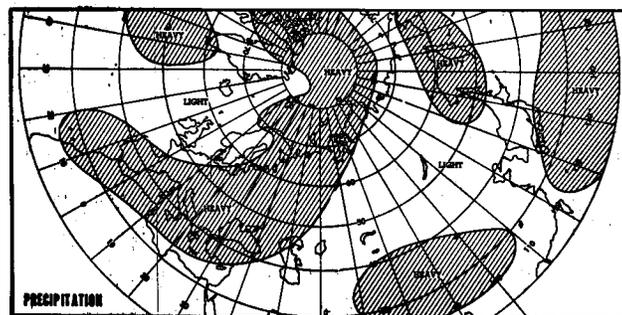


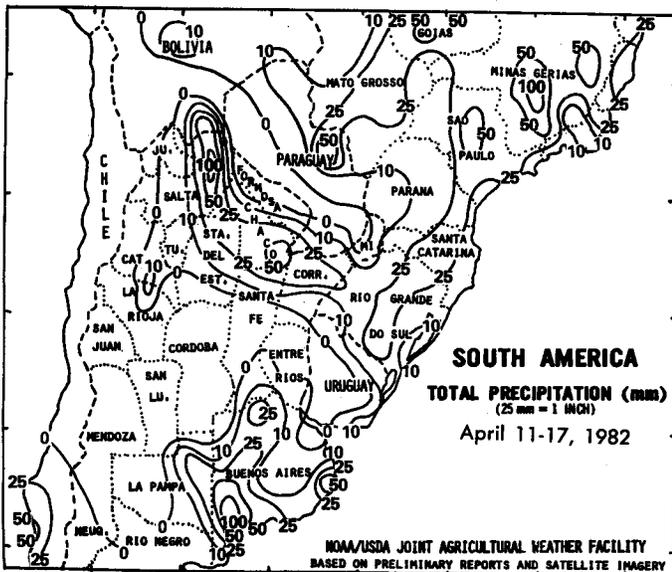
**WESTERN USSR:** Wet weather occurred west of a line from the central Ukraine extending northeastward through the central Volga Valley and northern Urals. The heaviest amounts of precipitation (greater than 25 mm) occurred in the western Ukraine, improving topsoil moisture for favorable early growth of the winter grain crop. Mostly dry weather occurred in the eastern Ukraine, North Caucasus, and eastern Volga Valley. Temperatures in these dry areas warmed rapidly with weekly averages around 15°C. In contrast, average temperatures in most wet areas were 5°C or less. Reports had indicated that soil preparation for sowing of early spring crops began earlier than normal in the Baltic States but lagged in the North Caucasus. However, dry weather during the past 2 weeks in the North Caucasus probably allowed increased planting progress. Corn planting also has begun in the southern Ukraine and North Caucasus.



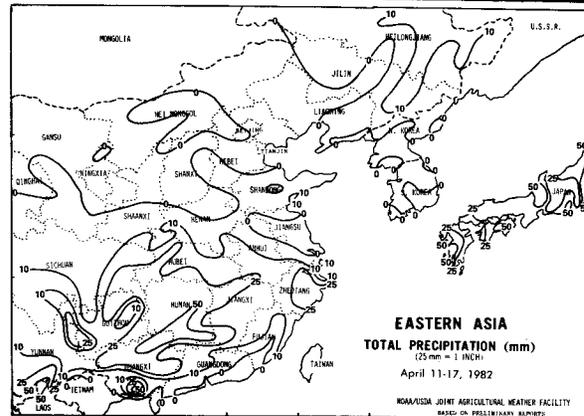
**NORTHWESTERN AFRICA:** Beneficial, above-normal rains fell across Moroccan winter grain areas as the crop continued in the late filling stage. Yield losses due to late sowing and dryness during the heading stage dropped crop prospects below normal but not as bad as the previous year. Light to moderate rainfall in Tunisia and Algeria was probably not needed for winter grains. The crop should be nearly mature now. Rainfall was mostly below normal, so the moisture was probably of little detriment to the crop. Temperatures held near normal across the entire region.

**Eurasia Outlook for Mid-April to Mid-May**





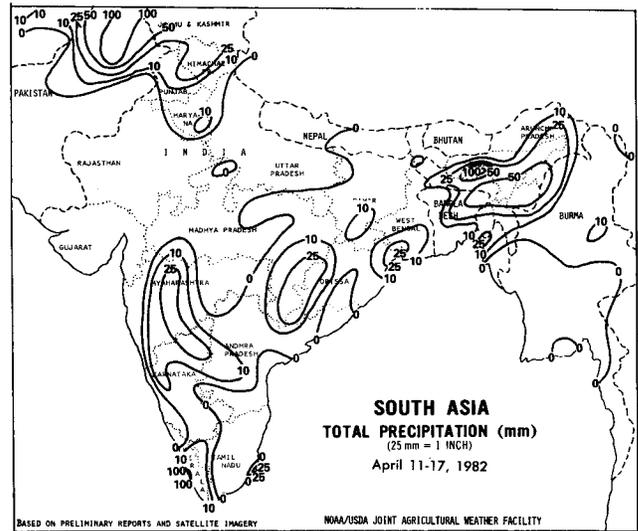
**SOUTH AMERICA:** A frontal system produced significant rainfall over Buenos Aires, Chaco, and most of Brazil's crop areas as the storm moved eastward across the region. The wet weather provided beneficial pre-season moisture for Argentina's southern wheat areas, but locally heavy showers interfered with the harvest of corn, sorghum, sunflowers, soybeans, and cotton elsewhere in Argentina and Brazil. Several days of dry weather early in the week allowed progress in Brazil's soybean harvest before showers caused temporary delays in fieldwork, especially in Rio Grande do Sul. Harvesting of early citrus varieties in Sao Paulo and coffee in Minas Gerais usually begins about this time of year. Dry weather is also needed for harvesting of these tropical crops. Heavy showers throughout Brazil's northern crop areas during the week likely delayed any substantial harvest activities.



**EASTERN ASIA:** Dry conditions persisted over much of China's winter grain area. Light rainfall benefited winter grains somewhat in parts of Sichuan, Anhui, southern Henan, and upland areas of Shandong, but many important areas had little or none. The dryness in Sichuan likely hurt the filling of grains. Conditions were the worst in Hebei, Shandong, and northern Henan. Temperatures there stayed above normal, but no extremely high readings were reported. Yield prospects continued to decline and will decline at an increasing rate if substantial rainfall does not occur in the next week or 2 as the crop enters the heading stage of development. In very few areas of China could unirrigated winter grain conditions be described as good. Planting of spring crops such as cotton, soybeans, and corn on the North China Plain has been delayed but not yet to a serious degree. Rainfall in the Yangtze Valley increased, benefiting rice in the vegetative growth stage, but extensive rice areas along the southern coast remained detrimentally dry. In South Korea, temperatures stayed near normal, but little or no rain fell in most winter grain areas. Soil moisture should be adequate for crop needs.



**MEXICO:** Hot, dry weather continued over most principal agricultural areas, stressing rainfed crops and accelerating irrigation. However, slowly increasing cloudiness over the mountain peaks, especially in the south, indicated that the tropical rainy season is approaching. Unseasonably hot afternoon temperatures, near 40°C in parts of the northeast and northwestern coasts, favored the maturation and harvesting of winter wheat but was excessive for some vegetables.



**SOUTH ASIA:** Fair weather prevailed for much of the week in winter grain harvest areas in the Punjab of India and Pakistan. However, heavy rainfall late in the week disrupted harvesting in Pakistan, while lighter amounts in India had a lesser impact. Temperatures stayed above normal. Grain quality likely will be down in both areas where very good yields have been reported. Premonsoon showers developed again in Bangladesh and southeastern India. Rainfall amounts at many locations were substantially above normal.

NOAA/USDA Joint Agricultural  
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Room 5844 USDA South Building  
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# IMMEDIATE - U. S. Weather Report

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## FIRST CLASS MAIL

The above poem was written by Mr. Walt Apple of Tonasket, Washington, and appeared in the April 29, 1966 issue of the Wenatchee World newspaper. Written while thermometer watching during the severe cold night of April 12-13, 1966.

'Twas the twelfth day of April  
Ah well I remember.  
The wind blew as cold  
As the twelfth of December.

The blooms on the peach trees  
Were lovely and cute.  
An I dreamed in my leisure  
Of ripe luscious fruit.

I pulled off my clothes  
And was going to bed.  
As the moon in its splendor  
Sailed over my head.

I turned idly the dial  
On my small radio.  
Just as my left shoe  
Was shedding its toe.

The voice that I heard  
Nearly froze me with fright.  
It said "There's no sleeping  
Mr. Farmer tonight."

"Go check your smudge pots  
And fill 'em with oil  
Put on some coffee  
And get it to boil.

I got back in my clothes  
And outside I went.  
While I thought of the money  
On the oil I had spent.

I hung my thermometer  
Just right in the tree.  
At the height of my eye,  
Real easy to see.

I looked at the sky  
And I looked at the ground.  
I cussed a bit softly  
And then turned around.

Went back to the house  
And started some strife.  
By saying a couple  
Mean things to my wife.

It's now a quarter to one,  
And the glass reads twenty-seven.  
It's dropped three degrees  
since a quarter past eleven.

I jump in my pickup  
And as I got her in high.  
I notice a red glow  
North, up in the sky.

There's smoke on the highway  
Coming out of the flares.  
It must be getting colder,  
Elston's lighting his pears.

A little ways farther  
And then I can see.  
Some lighters are lighting  
On Law's number three.

Then just up the highway  
I spin her around.  
And make a hundred and ten  
On my way back to town.

There's a hundred lost pickups  
Dashing now too and fro.  
Exploring the highway  
For someplace to go.

I see furtive figures  
Going out through the trees.  
I check the thermometer  
And pray for a breeze.

It's now twenty-six  
And colder than snow.  
I fire up my lighter  
And lighting I go.

There's millions of candles  
Now winking at me.  
Like a huge birthday cake,  
For the last century.

There's smoke on my glasses,  
And grease in my hair.  
There's oil in my whiskers  
And dirt everywhere.

I can't see a thing  
I'm blind as a bat.  
There's a million limbs waiting  
To knock off my hat.

My wife came to ask  
"Are you looney or lost?"  
I said "get the hell out,  
I don't need to be bossed."

The dawn now is breaking  
I'm nearly broke too.  
I've worked like a slave,  
But finally got through.

There's a pale sickly sun  
Coming over the hill.  
To light up the world  
And warm up its chill.

Oh now I can see  
By the dawn's early light.  
Where a thousand tired farmers  
Were working last night.

There were no bursting rockets  
But the smudge pots red glare.  
Gave hope through the night  
That our crops were still there.

What frightening truth  
Is now dawning on me.  
Move over, Judas.  
Make room in that tree.

Bor ghastly the sight  
In the light when I saw.  
That I'd been lighting pots  
For my neighbor, Walt Law!!!

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