

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

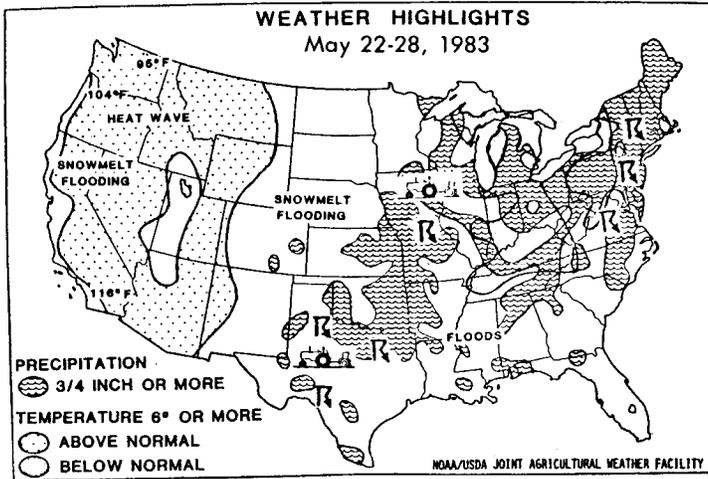
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June 1, 1983

National Weather Summary

May 22 to 28



HIGHLIGHTS: Cool air from Canada moved into the North Central States in several surges and spread over Eastern United States. Frost was reported in the upper Mississippi Valley, in upper Michigan, and in isolated parts of the central Appalachians. In the West, temperatures were much warmer than normal. Average temperatures were 12-15° above normal in California's San Joaquin Valley and the Sierra Mountains through the Cascades. Heavy snowmelt caused serious local flooding and mudslides. The West remained dry, but showers and thunderstorms covered the central and southern Plains and Rockies and most of the area east of the Mississippi River. Flooding on the lower Mississippi River and its tributaries was a problem.

SUNDAY...Showers and thunderstorms fell over most of the eastern third of the Nation except Georgia, Florida, and the coastal portions of the Carolinas. Occasional hail and a couple of tornadoes accompanied heavy thunderstorms from eastern Tennessee through the upper Ohio Valley, through Pennsylvania, and along the Northeast coast. Severe weather in northern Texas and Oklahoma produced large hail and tornadoes. Temperatures were cool over the northern Plains but quite warm over the West.

MONDAY...Showers and thunderstorms were generally light from the Mississippi Delta through the upper Ohio Valley and the Northeast to the Atlantic. A few isolated moderate storms hit the South, but they were more frequent and concentrated in New England. Flooding continued to be a problem in the Mississippi Delta. Because the Mississippi was at flood stage, tributary rivers were slow to recede.

TUESDAY...Rainshowers tapered off in the East with only a few remaining in New England, however a new

weather system spread showers and thunderstorms through the northern Plains and to a line from the Texas Panhandle to the western Great Lakes. Large hail peppered portions of the Texas Panhandle. Very warm temperatures in the West spread into the central Plains and caused rapid snowmelt in the mountains.

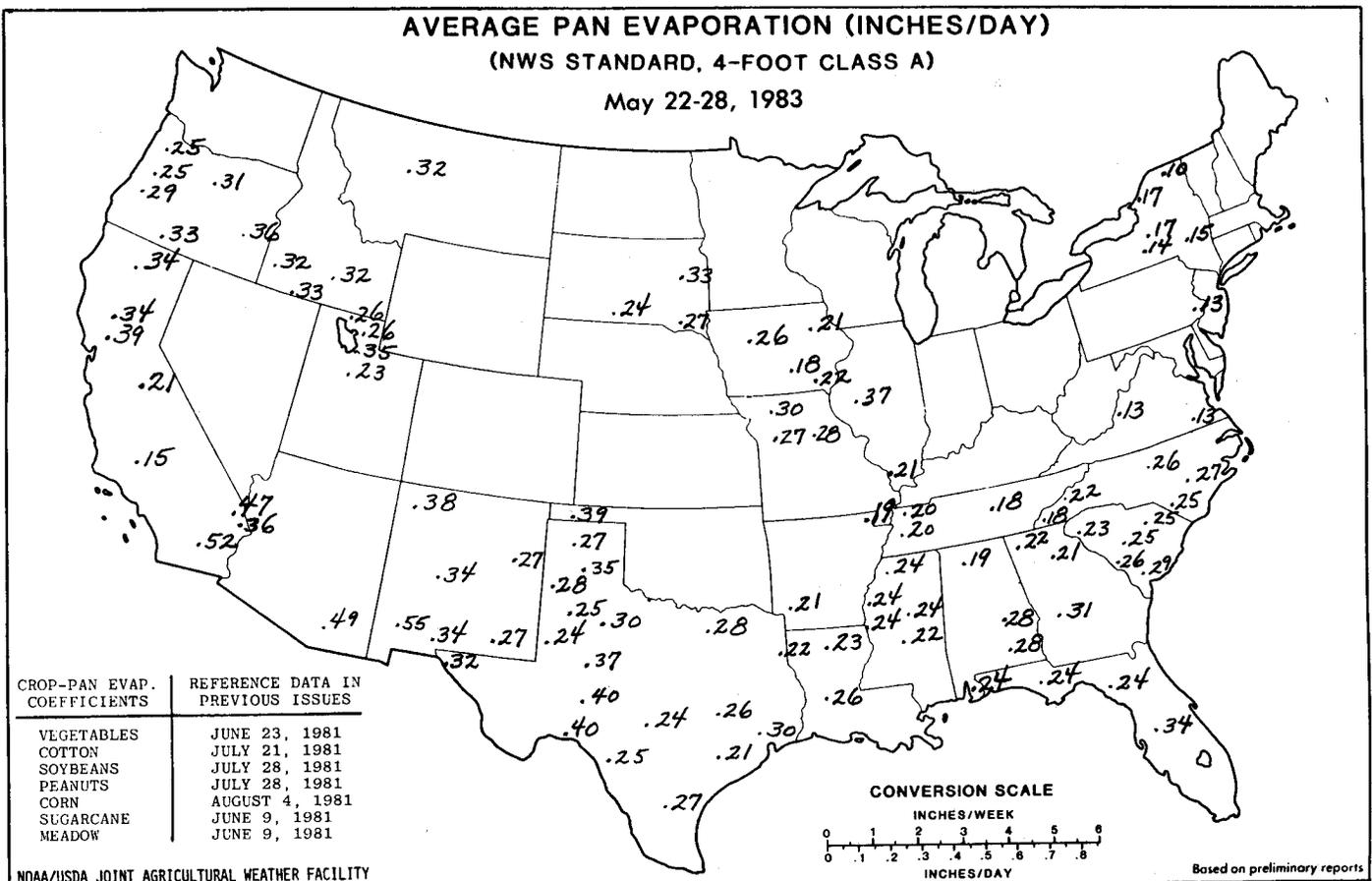
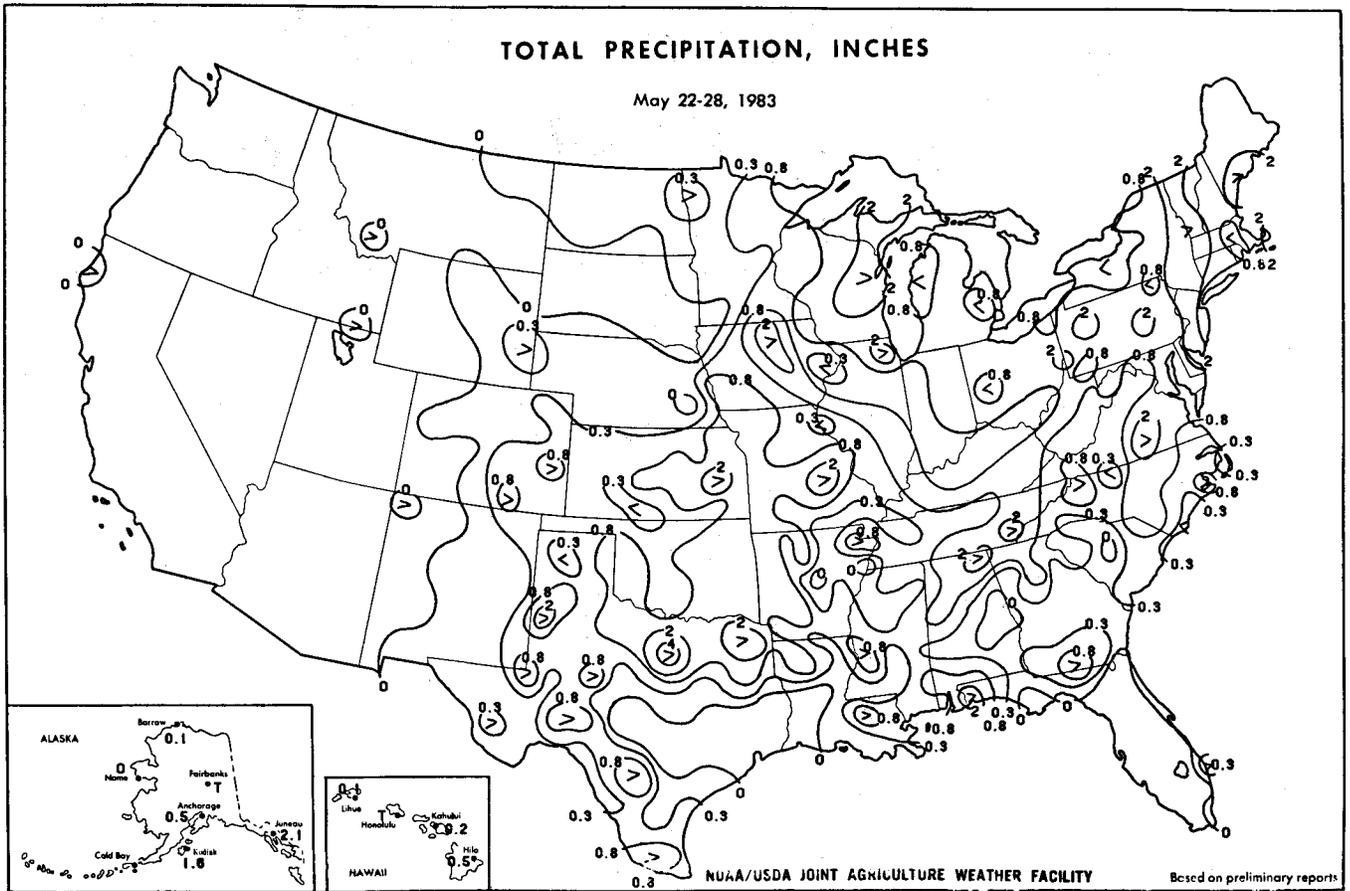
WEDNESDAY...Showers and thunderstorms continued along a cold front that reached to a line from Texas through the Ohio Valley to Pennsylvania and New York. Heavy thunderstorms contained large hail in western Texas and southwestern Oklahoma. Floodwater continued to spread over land in the lower Mississippi Valley. Cool Canadian air spilled into the northern Plains, but unusually warm air melted mountain snow in the West. Temperatures in the Southwest reached record-high readings.

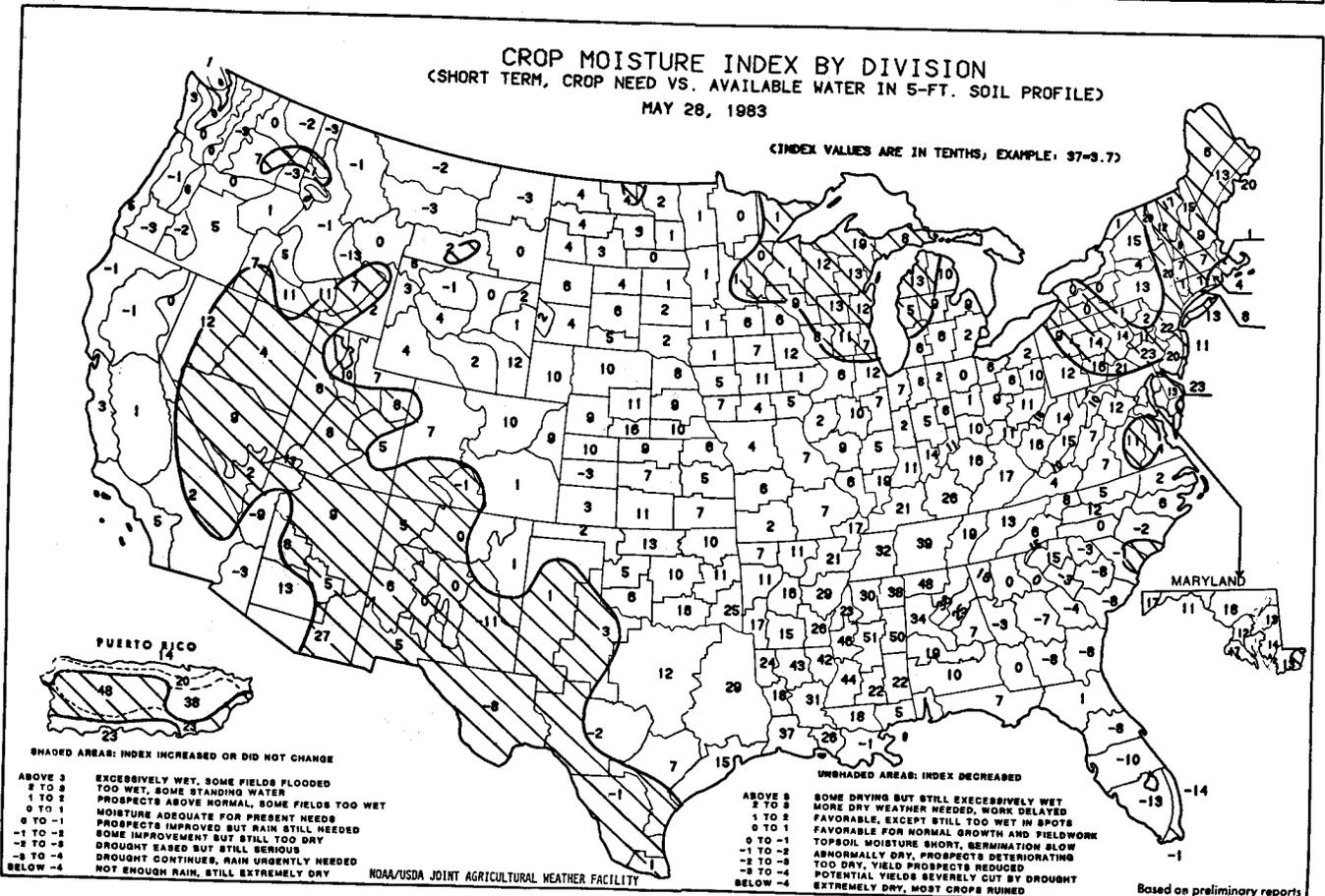
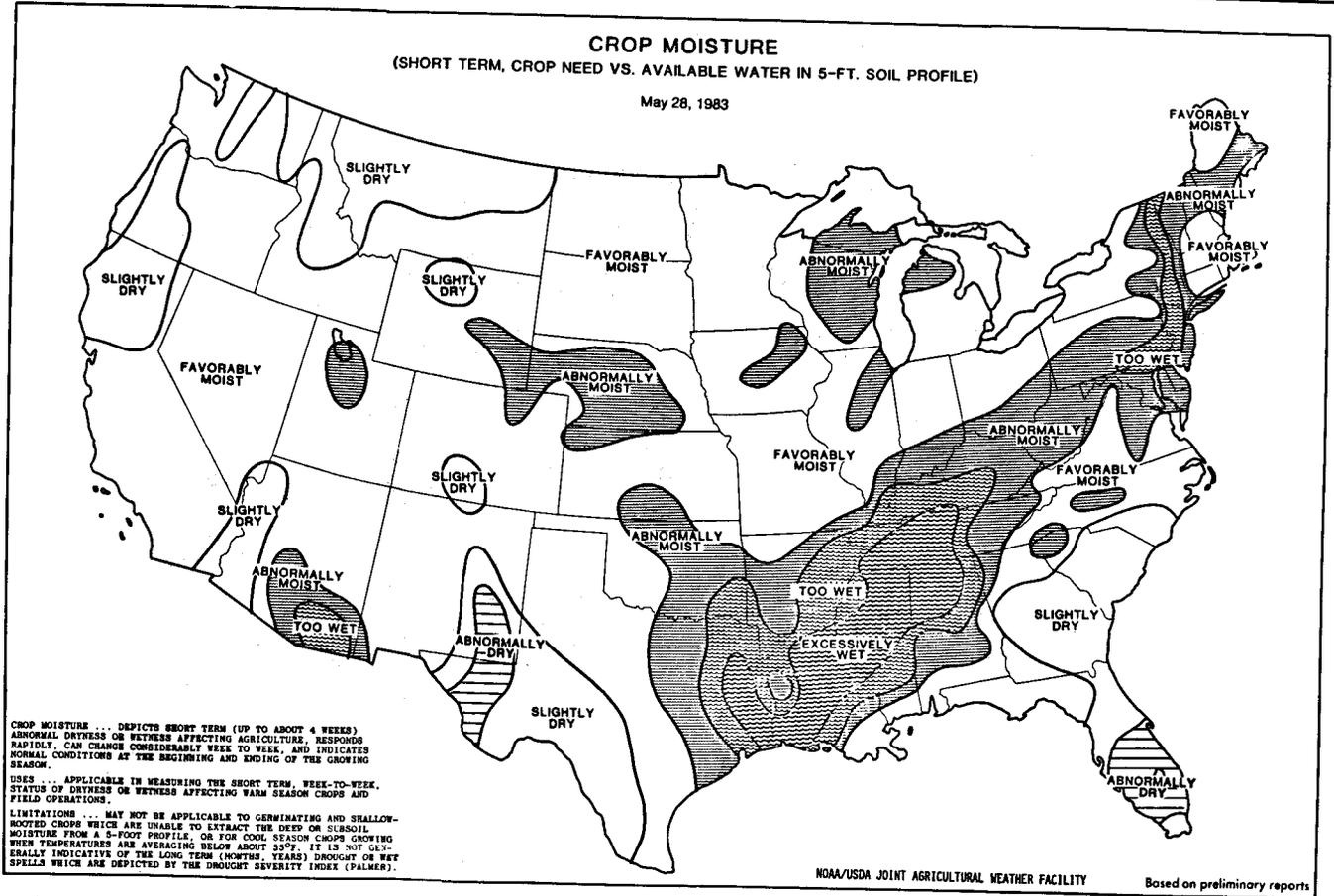
THURSDAY...Showers and thunderstorms were triggered along a cold front from New England to Georgia, and from northern Mississippi to Georgia. Southerly flow from the Gulf of Mexico spread moisture throughout the Plains, causing scattered light, occasionally moderate showers and thunderstorms from eastern New Mexico and Texas to Minnesota. Cool Canadian air brought frost to the northern Mississippi Valley, but unusually warm air continued over the West.

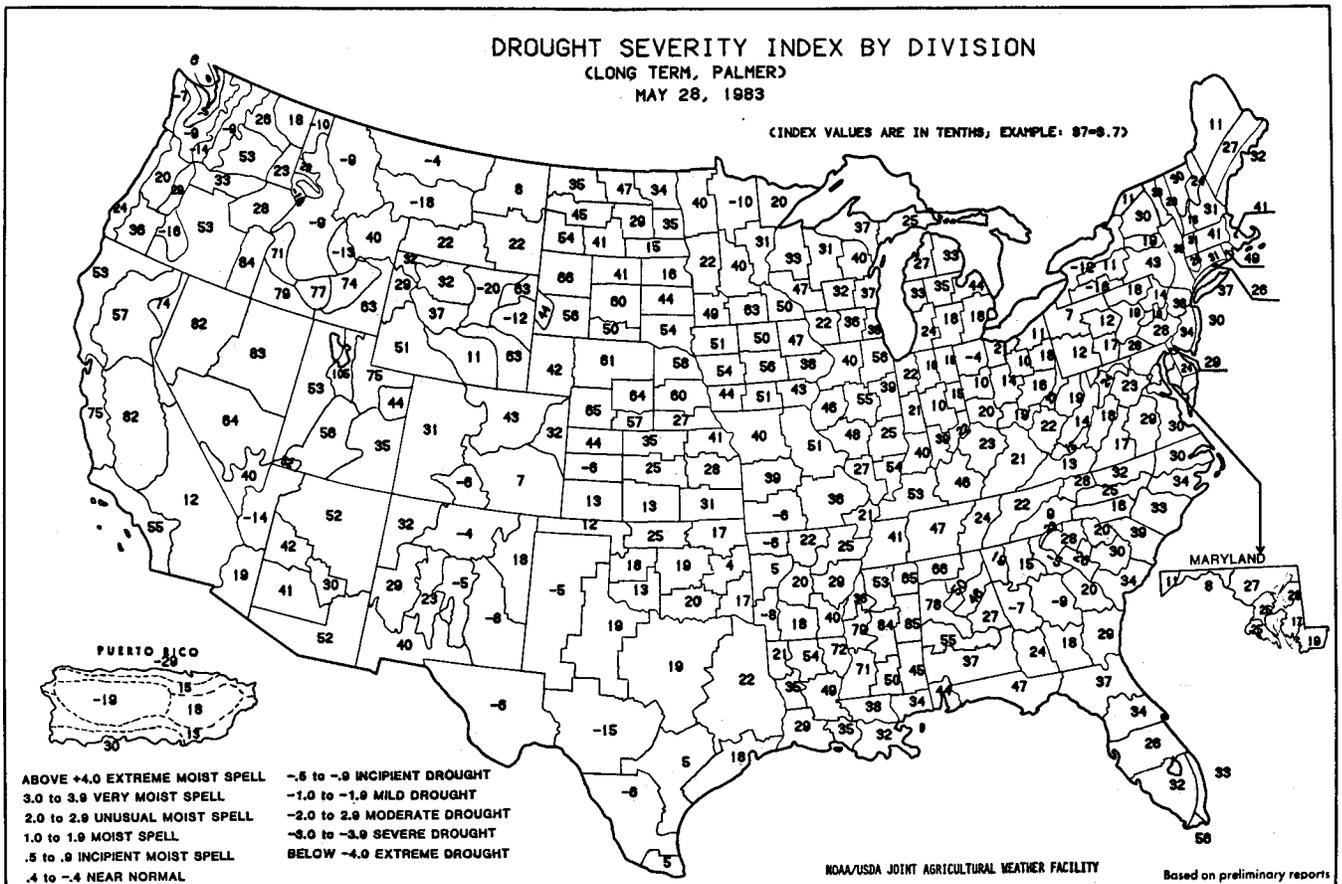
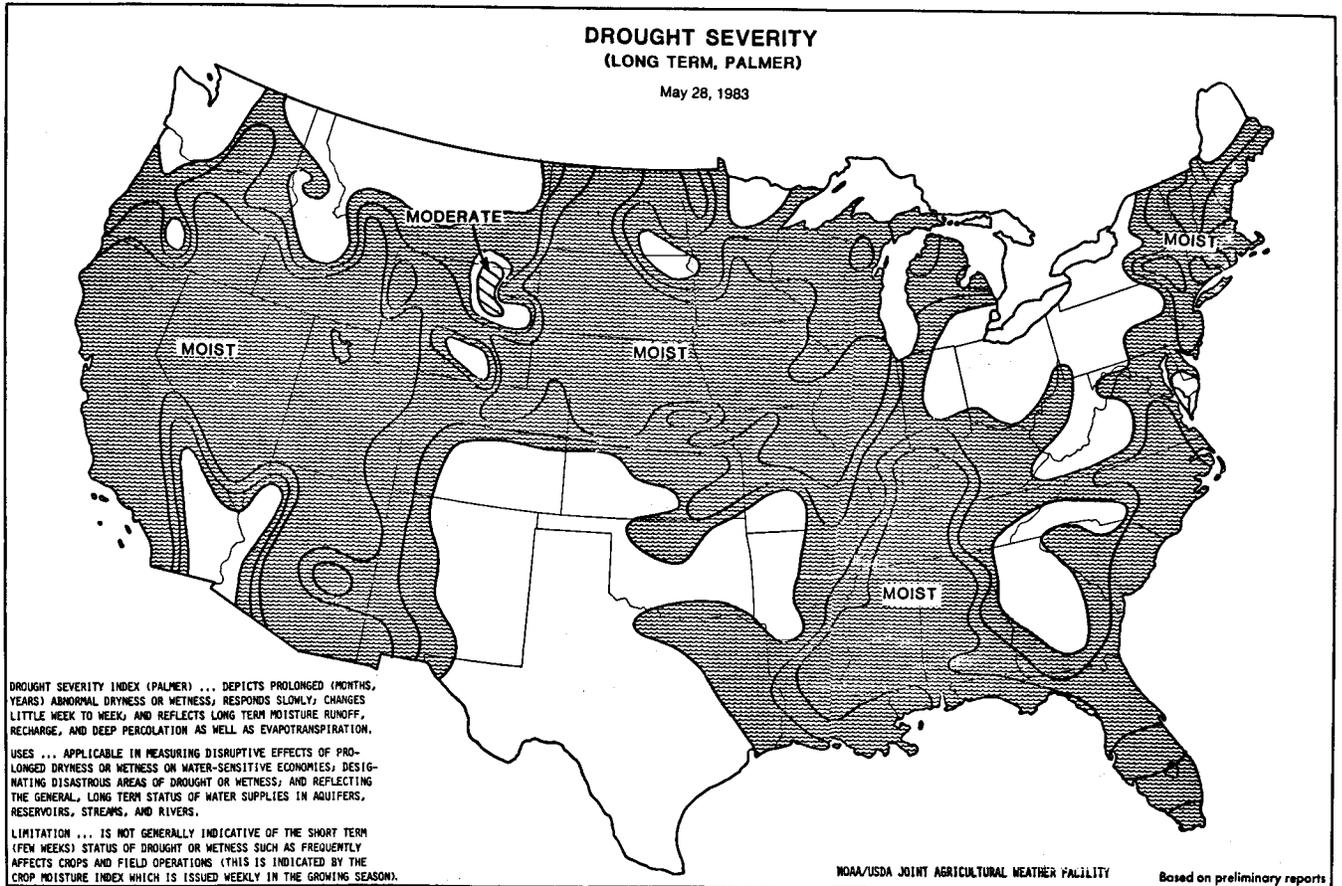
FRIDAY...Most of the East cleared, but showers continued in New England. Gulf moisture triggered frequent showers and thunderstorms over the central Plains and from northern Louisiana through western Arkansas to Missouri, northward through the upper Mississippi Valley and into Indiana. Cool temperatures pushed through the Lakes to the central Appalachians. Freezing temperatures were reported

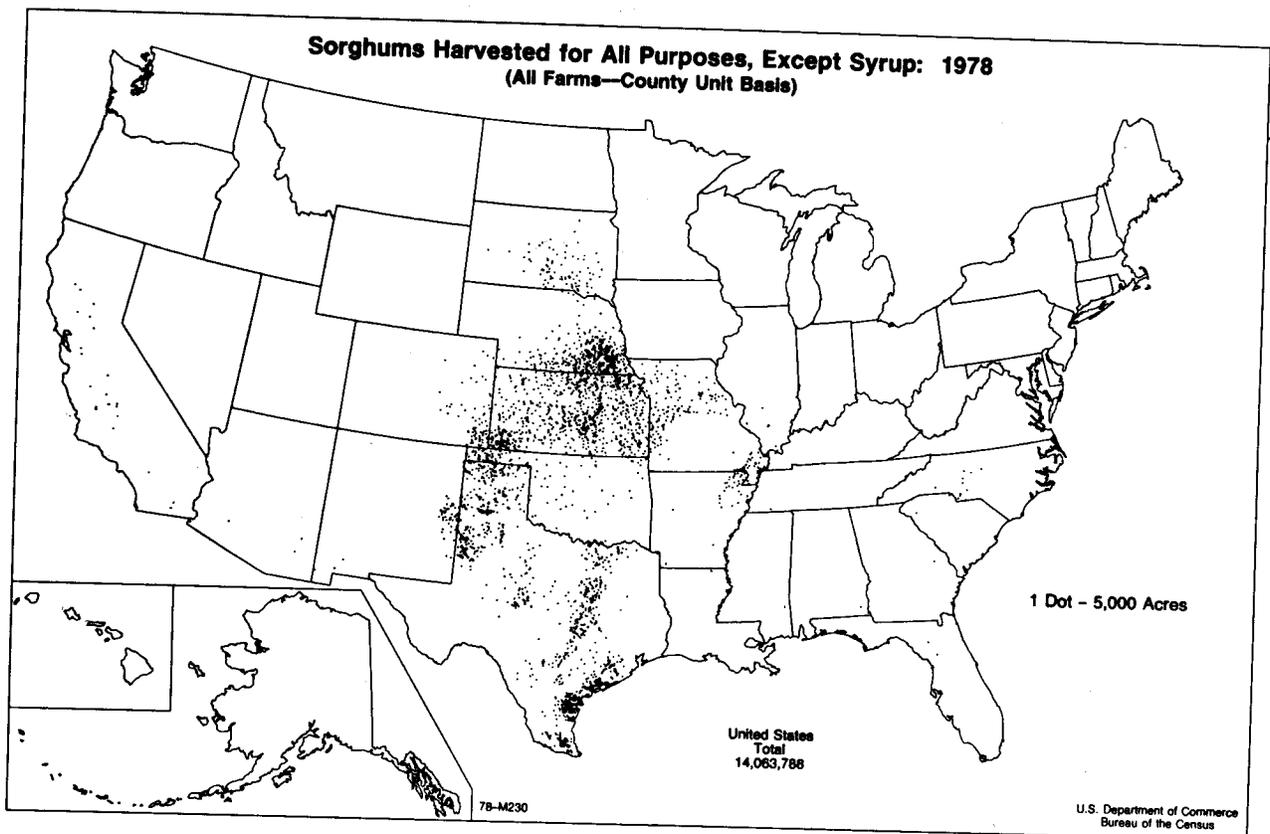
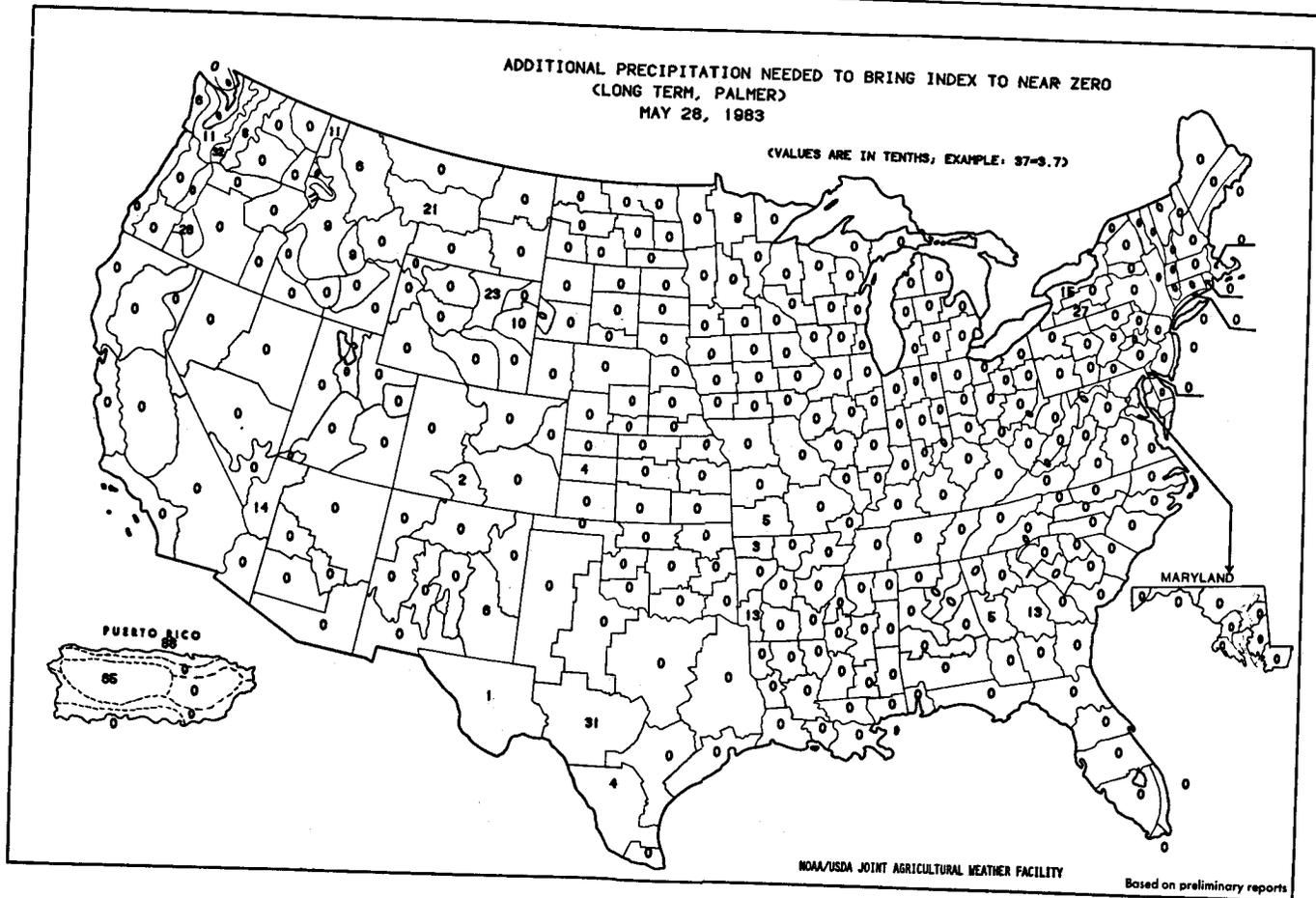
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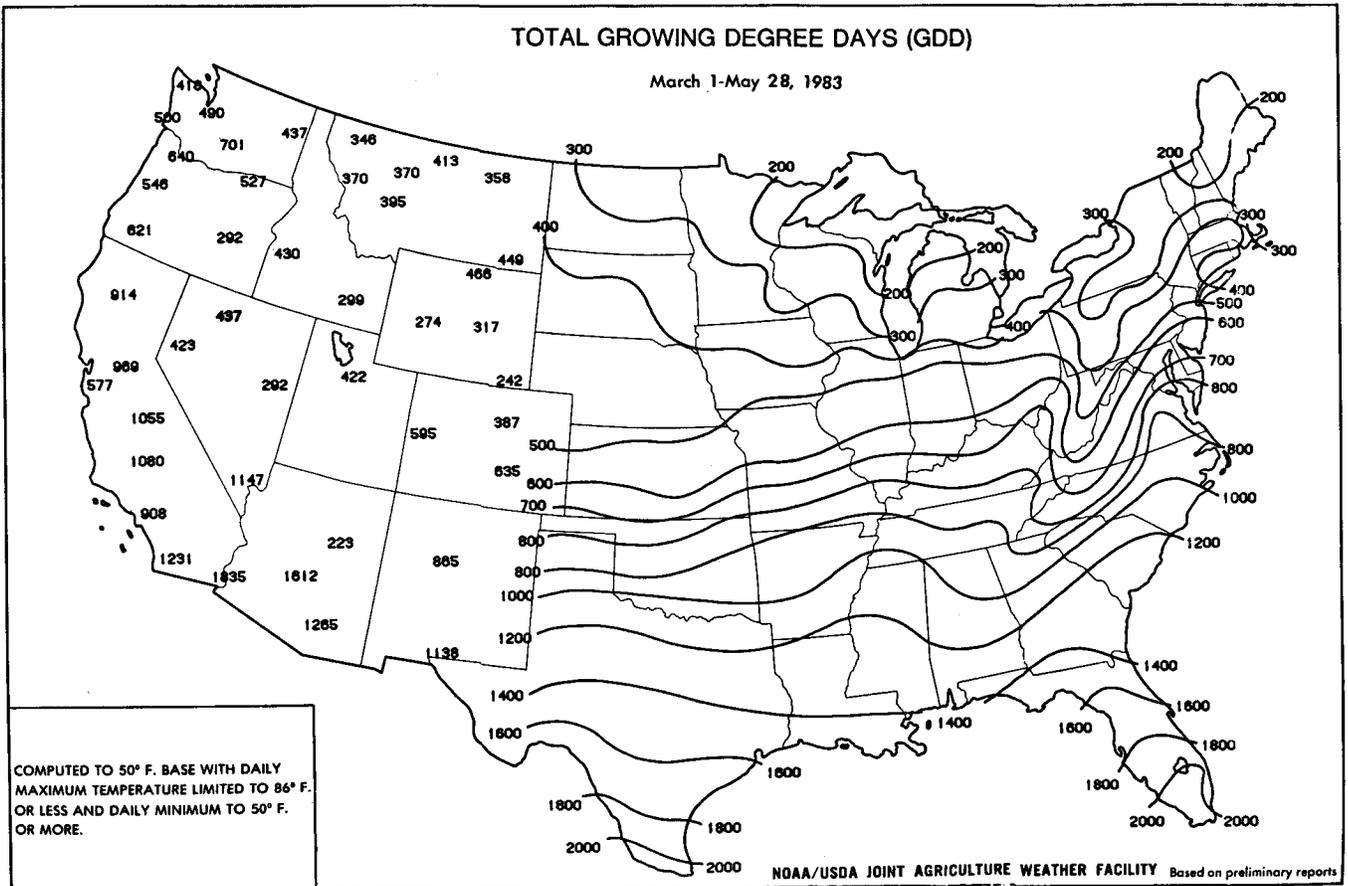
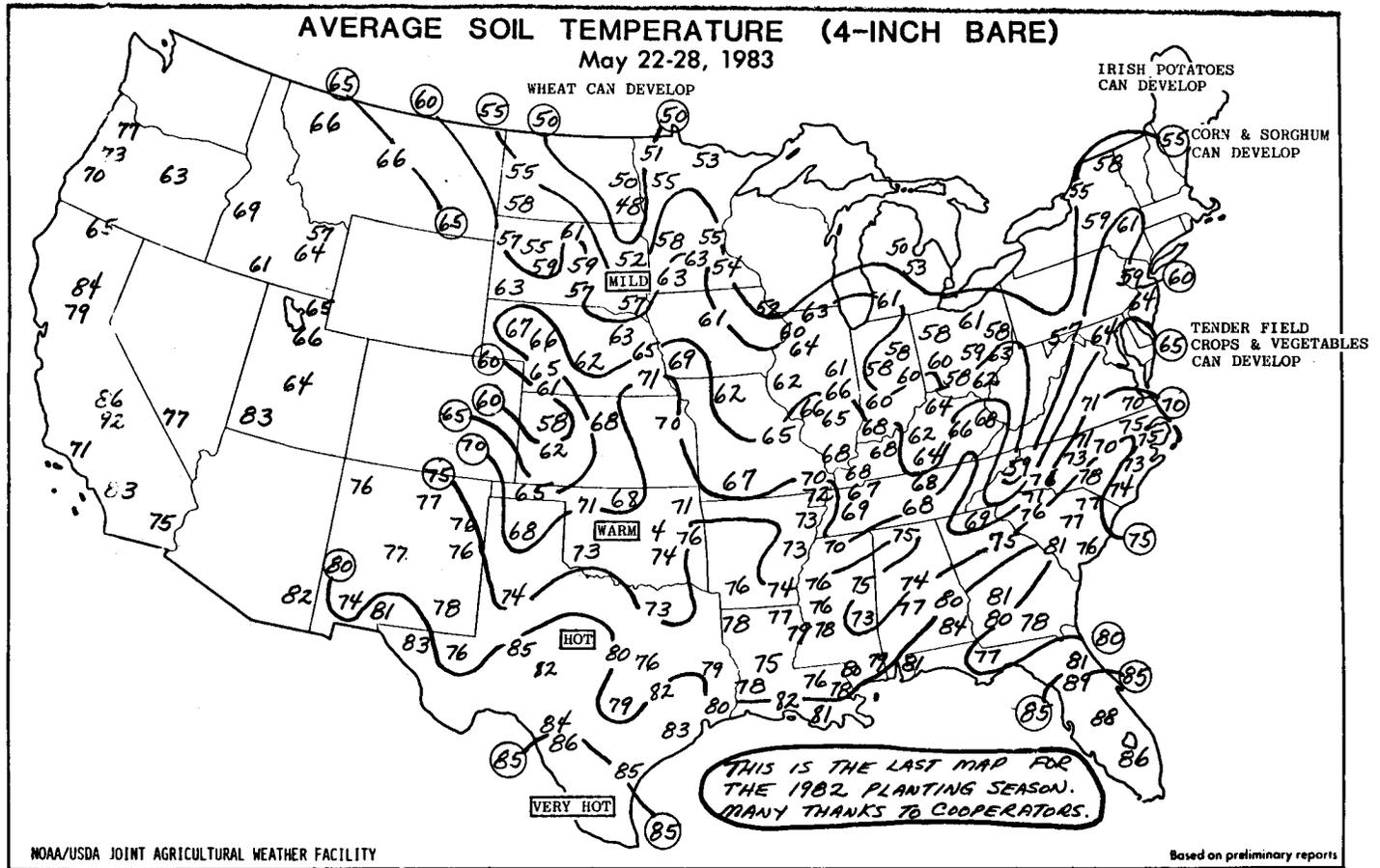
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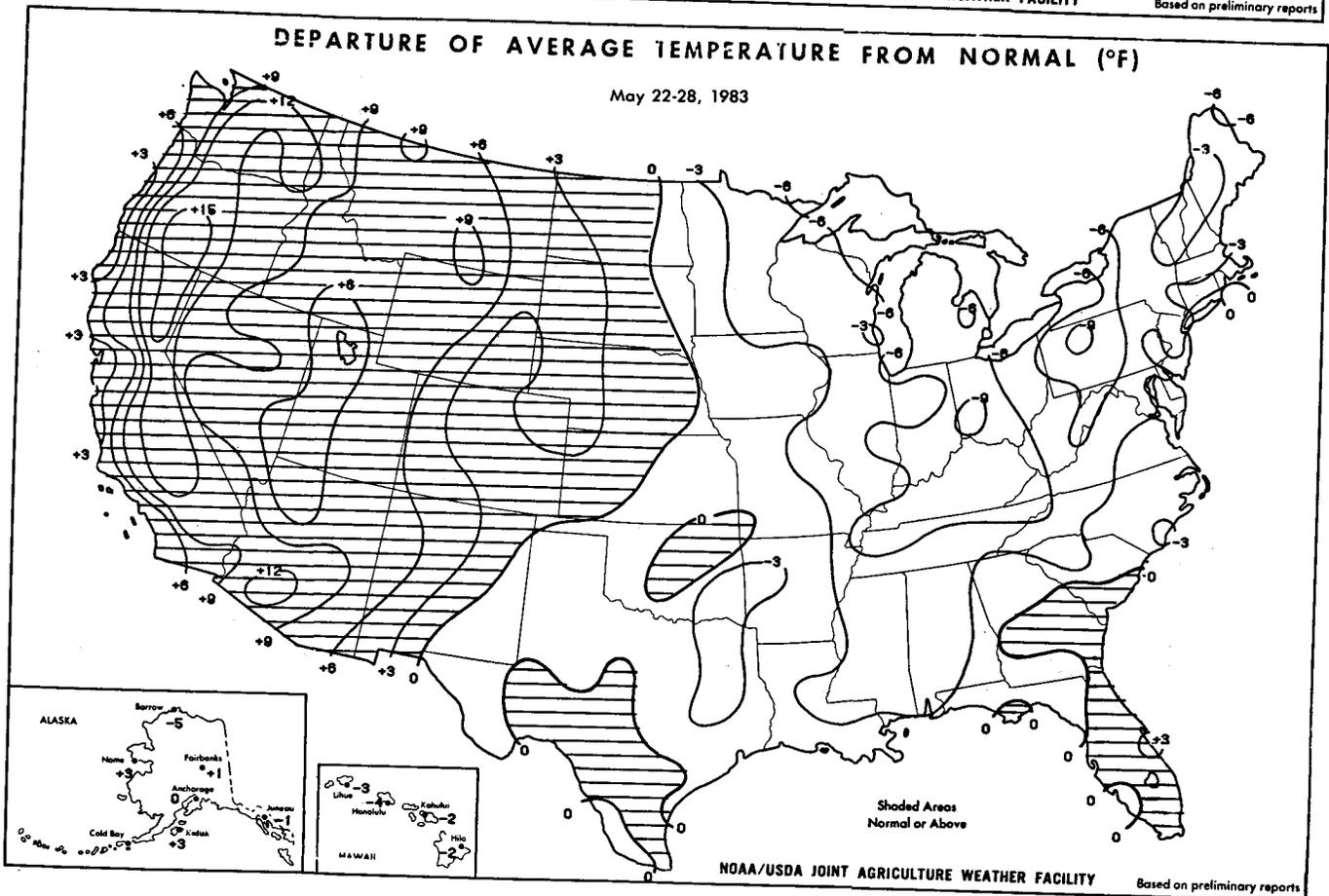
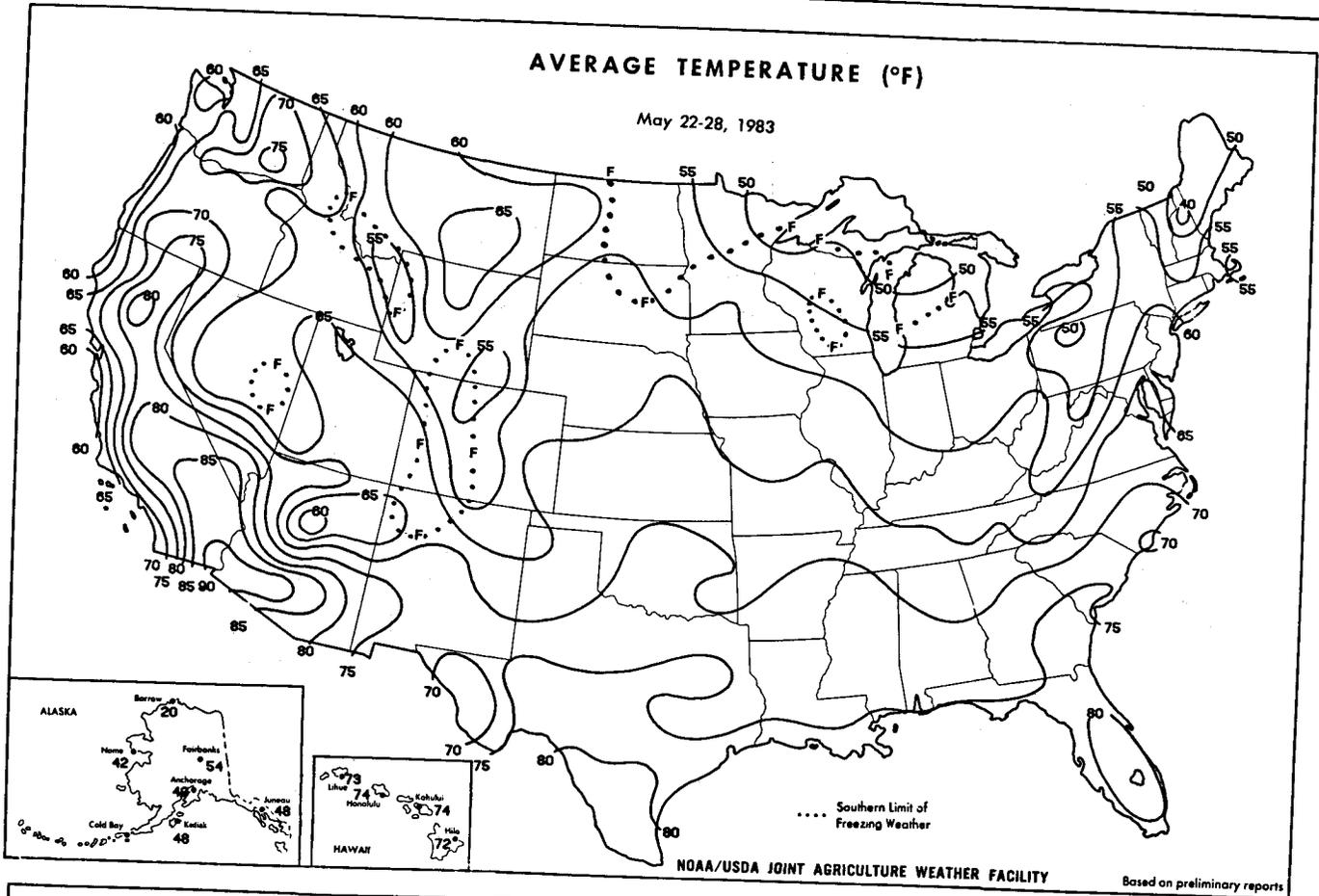












Weather Data for the Week Ending May 28, 1983

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. 27	PCT. NORMAL SINCE Feb. 27	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
AL BIRMINGHAM	81	55	84	50	68	-4	.6	.4	.3	22.7	128	33.9	129	92	37	0	0	5	0
MOBILE	85	62	89	56	73	-3	.5	.9	.3	23.8	126	38.7	144	89	42	0	0	2	0
MONTGOMERY	83	59	87	51	71	-4	.7	.9	.7	24.8	161	37.6	166	89	41	0	0	0	0
AK ANCHORAGE	56	43	61	39	49	0	.5	.4	.5	2.0	125	2.5	76	80	51	0	0	2	1
BARROW	25	14	35	10	20	-5	.1	.1	.2	.25	.3	.23	88	65	0	7	1	0	0
FAIRBANKS	65	42	71	35	54	1	.1	.1	.4	.33	.8	.36	59	23	0	0	2	0	0
JUNEAU	52	44	58	41	48	-1	2.1	1.3	.5	8.5	81	13.8	81	99	71	0	0	7	0
KODIAK	52	44	58	40	48	3	1.6	.1	.9	21.7	126	38.0	147	92	71	0	0	5	2
NOME	49	36	58	29	42	3	.1	.1	.1	1.6	73	1.8	49	84	47	0	2	0	0
AZ PHOENIX	108	76	113	70	92	12	0	0	0	3.3	236	5.2	193	30	6	7	0	0	0
PRESCOTT	84	53	87	48	68	9	.1	.1	.1	3.4	126	4.9	92	57	18	0	0	0	0
TUCSON	102	66	105	58	84	8	.1	0	.1	1.5	107	4.2	150	28	8	7	0	0	0
YUMA	104	80	111	71	92	11	0	0	.2	50	1.3	144	28	12	5	0	0	0	0
AR FORT SMITH	82	56	85	45	69	-3	.9	.2	.9	9.8	73	12.9	72	93	48	0	0	1	1
LITTLE ROCK	82	61	87	54	71	-1	.1	1.0	.1	18.4	112	22.3	95	80	45	0	0	0	0
CA BAKERSFIELD	98	67	102	65	83	9	0	0	0	3.1	148	6.9	192	65	22	7	0	0	0
EUREKA	59	49	64	48	54	1	.1	.3	.1	17.3	166	35.1	161	97	81	0	0	1	0
FRESNO	99	65	101	62	82	12	0	0	0	8.2	228	16.3	243	67	21	7	0	0	0
LOS ANGELES	68	59	71	58	64	1	.1	0	.1	9.8	297	20.6	261	88	71	0	0	0	0
RED BLUFF	97	63	102	60	80	10	0	0	0	15.7	308	29.1	243	82	23	7	0	0	0
SACRAMENTO	88	53	95	51	71	4	0	0	0	12.1	269	23.3	228	88	38	2	0	0	0
SAN DIEGO	72	64	74	62	68	4	.1	0	.1	8.9	297	14.2	233	85	66	0	0	0	0
SAN FRANCISCO	63	52	67	51	58	-1	.1	0	.1	13.1	252	25.9	219	84	60	0	0	0	0
CO DENVER	76	49	83	42	62	2	.1	.5	.1	9.7	164	9.9	152	76	26	0	0	1	0
GRAND JUNCTION	85	52	92	43	69	3	.1	.1	.1	4.5	188	5.7	163	70	20	2	0	0	0
PUEBLO	80	49	87	42	64	0	.7	.3	.6	4.9	140	5.5	141	87	27	0	0	2	1
CT BRIDGEPORT	65	53	71	48	59	-3	1.9	1.2	.7	19.0	164	29.7	184	93	65	0	0	4	2
HARTFORD	69	49	79	40	59	-3	2.0	1.2	.6	19.2	155	28.9	163	86	47	0	0	5	2
DC WASHINGTON	74	58	83	50	66	-3	.5	.3	.3	15.8	152	20.4	138	80	49	0	0	3	0
FL APALACHICOLA	87	67	90	60	77	1	0	.7	0	17.8	158	27.1	160	86	50	2	0	0	0
DAYTONA BEACH	88	65	93	62	77	0	.1	.9	.1	14.2	160	22.7	171	94	46	2	0	0	0
JACKSONVILLE	88	64	91	58	76	0	.1	1.2	.1	13.9	112	25.3	143	97	47	2	0	0	0
KEY WEST	85	74	88	69	79	-2	0	.9	0	8.7	138	29.6	315	79	60	0	0	0	0
MIAMI	89	71	91	66	80	0	.1	1.8	0	7.5	65	18.2	122	81	46	4	0	0	0
ORLANDO	91	68	93	63	80	1	0	1.1	0	9.8	101	19.2	134	94	37	7	0	0	0
TALLAHASSEE	87	60	88	51	74	-2	.3	1.0	.3	24.8	154	34.7	149	97	44	0	0	1	0
TAMPA	89	69	93	64	79	0	.1	.9	.1	11.0	117	19.1	138	94	47	2	0	0	0
WEST PALM BEACH	88	71	90	67	79	1	.4	1.2	.4	10.3	84	27.6	166	88	55	1	0	2	0
GA ATLANTA	80	57	82	50	69	-3	.1	.8	.1	13.0	86	20.7	92	86	38	0	0	2	0
AUGUSTA	86	60	91	52	73	0	.1	.8	.1	13.9	111	23.8	129	79	35	1	0	1	0
MACON	88	62	91	55	75	0	.1	.9	.1	12.0	88	25.0	121	88	33	3	0	1	0
SAVANNAH	86	66	89	60	76	1	.2	1.0	.2	15.7	125	26.4	152	91	45	0	0	1	0
HI HILO	78	67	79	63	72	-2	.5	1.3	.2	21.6	55	23.2	40	92	63	0	0	7	0
HONOLULU	82	66	84	64	74	-4	.1	.2	.1	1.2	19	1.5	12	85	46	0	0	2	0
KAHULUI	81	67	83	60	74	-2	.2	.1	.2	2.0	40	2.8	26	82	53	0	0	3	0
LIHUE	79	67	80	64	73	-3	.1	.5	.1	3.6	31	4.8	23	77	53	0	0	3	0
ID BOISE	87	51	94	42	69	9	0	.3	0	7.2	185	10.1	163	70	21	2	0	0	0
LEWISTON	90	53	98	48	72	11	0	.4	0	2.4	69	5.2	98	73	21	5	0	0	0
POCATELLO	81	44	87	41	63	6	0	.3	0	5.9	159	7.5	144	75	20	0	0	0	0
IL CHICAGO	65	44	76	34	55	-7	2.1	1.4	1.6	16.6	163	19.4	156	90	48	0	0	3	1
MOLINE	73	48	80	39	61	-4	.2	.8	.1	9.2	79	11.6	85	96	38	0	0	2	0
PEORIA	72	50	77	42	61	-4	.6	.2	.4	16.2	146	17.9	134	89	42	0	0	3	0
QUINCY	73	51	80	43	62	-4	.2	.8	.2	13.4	112	14.3	101	88	46	0	0	2	0
ROCKFORD	68	45	77	36	57	-6	1.5	.6	1.0	9.8	84	12.0	88	98	48	0	0	4	1
SPRINGFIELD	74	52	78	48	63	-4	.7	0	.4	12.5	115	14.5	108	89	44	0	0	3	0
IN EVANSVILLE	74	51	77	44	63	-6	.8	.1	.4	23.6	169	26.2	134	84	43	0	0	4	0
FORT WAYNE	68	47	75	38	58	-5	1.2	.4	1.0	10.4	97	12.3	86	87	43	0	0	3	1
INDIANAPOLIS	67	47	73	40	57	-8	1.0	.2	.7	12.1	103	14.1	89	96	49	0	0	3	1
SOUTH BEND	65	47	75	38	56	-6	.8	.2	.8	12.0	111	13.7	97	91	49	0	0	2	1
IA DES MOINES	76	50	83	43	63	-2	.6	.4	.3	11.2	113	14.5	127	82	39	0	0	5	0
SIoux CITY	76	49	88	42	63	-2	.1	.8	.1	11.8	153	12.9	150	74	32	0	0	0	0
WATERLOO	71	49	81	41	60	-2	.4	.6	.2	11.6	113	13.8	121	92	40	0	0	4	0
KS CONCORDIA	77	53	85	46	65	-1	.6	.4	.6	8.4	104	11.2	126	87	47	0	0	1	1
DODGE CITY	82	56	90	50	69	2	.1	.7	.1	8.2	130	10.1	142	87	44	1	0	1	0
GOODLAND	79	51	86	43	65	3	.4	.3	.4	6.3	126	7.4	132	83	31	0	0	1	0
TOPEKA	81	55	89	49	68	1	.8	.2	.6	15.7	164	17.0	157	85	39	0	0	2	1
WICHITA	79	53	88	46	66	-3	.8	.2	.7	12.8	158	14.9	160	94	51	0	0	4	0
KY BOWLING GREEN	71	51	76	44	61	-8	.8	.2	.4	23.7	159	28.1	121	98	55	0	0	3	1
LEXINGTON	71	49	76	38	60	-7	.4	.6	.3	17.1	124	20.1	102	86	42	0	0	3	0
LOUISVILLE	72	51	77	44	61	-7	.5	.4	.4	19.0	133	22.0	110	84	40	0	0	2	0
LA ALEXANDRIA	86	62	90	58	74	-3	0	1.3	0	17.5	99	28.4							

Weather Data for the Week Ending May 28, 1983

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. 27	PCT. NORMAL SINCE Feb. 27	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	65	46	72	37	56	-9	.5	-.3	.4	11.6	107	13.7	92	79	44	0	0	3	0
TOLEDO	67	45	74	35	56	-6	.9	-.2	.6	9.7	109	11.1	93	94	47	0	0	2	1
YOUNGSTOWN	63	42	67	33	53	-7	.4	-.3	.2	11.4	108	13.7	92	95	54	0	0	3	0
OK OKLAHOMA CITY	83	59	88	52	71	0	.6	-.7	.3	10.3	97	14.8	119	89	40	0	0	3	0
TULSA	85	61	90	55	73	1	1.2	-.0	.6	13.1	105	18.0	122	93	47	1	1	2	0
OR ASTORIA	71	50	78	41	60	7	0	-.6	0	16.2	101	38.4	121	92	62	0	0	2	2
BURNS	84	51	90	37	67	13	0	-.2	0	5.0	227	8.8	183	82	28	1	0	0	0
MEDFORD	94	53	99	44	74	14	0	-.3	0	5.1	121	11.7	123	88	24	7	0	0	0
PENDLETON	87	53	94	48	70	10	0	-.2	0	4.4	133	6.6	118	69	21	1	0	0	0
PORTLAND	86	54	100	49	70	12	0	-.4	0	10.0	115	24.0	135	87	28	1	0	0	0
SALEM	86	46	100	42	66	9	T	-.4	T	13.0	138	29.4	146	92	35	1	0	0	0
PA ALLENTOWN	71	51	81	43	61	-2	1.2	-.4	.7	16.5	135	22.6	134	91	47	0	0	4	1
ERIE	65	48	73	42	56	-1	.8	-.1	.5	9.4	94	12.5	91	80	48	0	0	4	1
HARRISBURG	70	49	80	41	60	-5	2.0	1.2	1.4	17.8	165	23.4	156	84	46	0	0	2	1
PHILADELPHIA	70	54	77	48	62	-4	2.4	1.7	1.0	21.3	192	28.9	185	94	52	0	0	4	2
PITTSBURGH	66	46	73	36	56	-6	1.7	-.9	1.4	12.5	113	15.4	100	83	39	0	0	3	1
SCRANTON	68	46	75	37	57	-4	.6	-.1	.4	15.0	163	18.2	146	85	49	0	0	3	0
RI PROVIDENCE	66	52	77	48	59	-2	.6	-.1	.4	22.8	177	33.1	178	85	54	0	0	3	0
SC CHARLESTON	83	66	88	62	75	0	.4	-.8	.3	16.5	136	26.8	154	95	51	0	0	4	0
COLUMBIA	85	57	91	47	71	-2	T	-.9	T	14.8	112	22.8	121	91	36	1	0	0	0
FLORENCE	83	61	89	54	72	-1	1.2	-.4	1.2	15.4	143	24.1	154	95	46	0	0	2	1
GREENVILLE	78	57	81	50	67	-3	.2	-.8	.2	16.5	110	24.7	112	93	46	0	0	2	0
SD ABERDEEN	74	44	85	32	59	-1	T	-.6	T	4.7	85	5.3	85	84	29	0	0	2	0
HURON	75	45	86	36	60	-1	0	-.7	0	4.9	83	5.0	78	91	36	0	0	0	0
RAPID CITY	76	49	84	41	63	4	T	-.6	T	4.0	71	4.5	75	78	34	0	0	0	0
SIoux FALLS	76	45	89	35	61	-1	T	-.8	T	9.1	123	9.9	116	85	36	0	0	0	0
TN CHATTANOOGA	79	54	82	48	67	-3	1.6	-.8	1.2	16.4	105	23.5	96	86	35	0	0	2	1
KNOXVILLE	76	53	80	48	65	-5	1.2	-.3	.8	13.4	96	17.9	81	94	45	0	0	3	1
MEMPHIS	81	59	82	54	70	-3	T	-1.0	T	22.0	127	27.0	106	92	49	0	0	0	0
NASHVILLE	77	54	80	48	66	-5	.6	-.4	.4	20.9	138	26.4	115	86	38	0	0	3	0
TX ABILENE	89	63	97	57	76	1	.1	-.6	.1	3.0	43	5.3	64	73	28	3	0	2	0
AMARILLO	82	52	88	46	67	-2	.1	-.7	.1	4.3	93	7.3	138	89	37	0	0	1	0
AUSTIN	87	66	88	60	76	-1	0	-.9	0	11.4	120	16.3	118	89	43	0	0	0	0
BEAUMONT	85	66	86	64	76	-2	T	-1.0	T	15.8	127	25.3	130	100	53	0	0	0	0
BROWNSVILLE	89	73	92	71	81	1	.4	-.1	.4	1.2	27	4.9	71	91	53	4	0	2	0
CORPUS CHRISTI	85	71	87	68	78	-2	.5	-.3	.5	5.8	92	9.9	105	99	66	0	0	2	0
DEL RIO	91	69	96	64	80	1	.4	-.4	T	2.3	48	4.0	67	86	43	6	0	2	0
EL PASO	92	56	96	52	74	-1	.2	-.2	.2	2.0	286	2.9	207	70	18	7	0	2	0
FORT WORTH	85	62	89	55	73	-2	1.0	-.1	.7	9.7	88	13.5	94	82	38	0	0	2	1
GALVESTON	84	70	86	64	77	0	0	-.8	0	4.7	53	12.4	91	91	66	0	0	0	0
HOUSTON	87	64	88	60	75	-1	0	-1.1	0	11.2	90	17.2	93	96	45	0	0	0	0
LUBBOCK	85	56	88	49	70	-2	.4	-.3	.3	2.6	55	5.6	104	86	31	0	0	2	0
MIDLAND	90	60	96	58	75	0	.3	-.2	.3	.6	17	2.1	48	80	26	3	0	1	0
SAN ANGELO	90	62	96	57	76	0	T	-.5	T	2.2	41	4.7	70	92	31	5	0	1	0
SAN ANTONIO	87	67	89	64	77	0	0	-.8	0	8.1	103	11.1	103	88	43	0	0	0	0
VICTORIA	87	69	89	62	78	0	.1	-1.0	.1	6.2	69	11.7	95	94	50	0	0	1	0
WACO	89	61	92	55	75	-1	.2	-.8	.2	5.9	52	10.1	68	93	37	4	0	2	0
WICHITA FALLS	86	59	91	52	72	-2	.7	-.2	.5	6.3	66	9.9	89	90	43	2	0	2	0
UT BLANDING	84	51	87	38	67	7	0	-.1	0	2.7	129	5.8	153	49	17	0	0	0	0
CEDAR CITY	84	45	88	40	65	5	T	-.1	T	5.0	156	6.9	164	57	15	0	0	0	0
SALT LAKE CITY	82	52	87	46	67	6	0	-.3	0	8.1	137	10.6	139	72	28	0	0	0	0
VT DURLINGTON	65	46	74	42	55	-3	2.7	2.0	1.4	14.9	182	19.7	179	92	51	0	0	6	1
VA NORFOLK	76	58	83	50	67	-2	.5	-.4	.3	14.6	134	22.5	135	88	46	0	0	2	0
RICHMOND	78	58	86	51	68	-1	1.1	-.3	.8	13.8	131	19.3	125	92	50	0	0	2	1
ROANOKE	74	51	79	43	62	-5	.7	-.2	.4	17.5	159	22.9	145	93	45	0	0	3	0
WA COLVILLE	85	47	91	42	66	9	0	-.4	0	7.0	163	12.0	158	69	28	1	0	0	0
QUILLAYUTE	74	46	83	40	60	8	0	-.9	0	20.5	82	54.3	111	94	42	0	0	0	0
SEATTLE-TACOMA	78	53	92	50	66	9	0	-.4	0	7.1	85	18.6	107	85	39	1	0	0	0
SPOKANE	85	51	92	46	68	12	0	-.4	0	3.9	89	8.0	98	69	19	1	0	0	0
YAKIMA	90	48	97	45	69	9	0	-.1	0	2.8	233	6.4	194	71	19	4	0	0	0
WV BECKLEY	68	46	72	33	57	-5	.3	-.6	.1	8.7	71	10.9	61	95	43	0	0	3	0
CHARLESTON	73	49	78	38	61	-5	.9	-.1	.7	12.6	107	16.7	97	89	40	0	0	4	1
MOUNTINGTON	72	50	77	38	61	-6	.4	-.5	.3	12.4	102	16.0	93	85	39	0	0	2	0
PARKERSBURG	71	50	77	38	61	-5	.7	-.3	.6	14.8	121	18.6	104	92	42	0	0	2	0
WI GREEN BAY	63	42	68	35	53	-6	2.1	1.4	1.5	7.6	96	9.8	104	90	47	0	0	3	1
LA CROSSE	67	48	72	36	57	-5	1.3	-.4	.8	8.0	87	9.6	93	90	46	0	0	4	1
HADISON	68	44	77	30	56	-4	1.7	1.0	.9	8.7	97	11.4	110	95	44	0	1	4	2
MILWAUKEE	66	46	77	37	56	-2	1.2	-.6	.8	14.1	160	17.1	158	86	46	0	0	4	1
WAUSAU	65	43	72	34	54	-5	1.9	1.0	1.2	6.8	77	8.9	85	90	38	0	0	3	1
WY CASPER	78	41	84	34	59	4	T	-.5	T	5.6	117	6.5	120	86	23	0	0	2	0
CHEYENNE	72	45	79	39	59	4	T	-.5	T	8.5	193	9.1	182	84	28	0	0	1	0
LANDER	79	47	83	37	63	7	0	-.6	0	8.2	132	8.8	128	58	20	0	0	2	0
SHERIDAN	80	45	85	36	63	7	T	-.5	T	2.1	36	2.8	42	69	25	0	0	2	0
PR SAN JUAN	90	77	95	75	84	3	.7	-.6	.5	9.9	85	14.5	85	88	61	3	0	5	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Weather Data for the Week Ending May 28, 1983

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. 27	PCT. NORMAL SINCE Feb. 27	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERA- TURE		PRECIPI- TATION		
																90 AND ABOVE	72 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
ME SHREVEPORT	85	60	89	56	72	-3	.6	.4	.6	13.0	91	24.0	117	94	41	0	0	1	1	
ME CARIBOU	53	43	69	39	48	-6	1.2	.5	.7	10.9	131	16.0	134	89	62	0	0	4	1	
ME PORTLAND	57	46	70	43	52	-4	2.2	1.5	1.2	21.1	177	29.8	171	94	71	0	0	4	2	
MD BALTIMORE	74	55	86	48	65	-1	1.1	.4	.9	18.1	166	25.2	161	86	42	0	0	4	1	
MD SALISBURY	73	55	81	47	64	-2	2.0	1.2	1.0	16.9	148	22.0	128	100	64	0	0	4	2	
MA BOSTON	65	51	71	47	58	-3	.7	0	.4	18.5	155	28.5	158	91	61	0	0	2	0	
MA CHATHAM	58	48	65	46	53	-2	2.1	1.4	1.4	21.5	187	30.8	157	97	78	0	0	4	1	
MI ALPENA	57	36	65	28	47	-8	1.0	.3	.4	12.2	163	15.5	153	97	59	0	3	5	0	
MI DETROIT	67	43	75	36	55	-6	1.1	.4	.8	11.2	122	12.8	107	86	44	0	0	2	1	
MI FLINT	65	43	73	36	54	-5	.7	.1	.4	9.6	112	11.6	102	90	53	0	0	2	0	
MI GRAND RAPIDS	65	42	75	34	53	-7	.9	.2	.6	12.7	130	15.3	124	97	49	0	0	2	1	
MI HOUGHTON LAKE	59	40	73	28	50	-7	.9	.3	.5	9.0	129	11.4	123	95	55	0	1	3	0	
MI LANSING	66	42	74	34	54	-7	.9	.3	.6	10.9	130	12.7	111	94	51	0	0	2	1	
MI MARQUETTE	56	35	66	26	46	-8	2.4	1.5	1.2	11.0	102	16.6	123	95	53	0	3	4	2	
MI MUSKOGON	62	41	69	33	51	-8	.6	.1	.3	8.5	93	10.8	89	91	46	0	0	4	0	
MI SAULT STE. MARIE	56	33	65	27	45	-8	.9	.2	.4	8.3	111	11.6	110	98	58	0	5	4	0	
MN ALEXANDRIA	68	45	76	37	57	-2	T	T	T	2.9	44	4.0	54	77	32	0	0	1	0	
MN DULUTH	62	39	70	35	50	-3	.4	-.7	.3	6.2	86	8.0	92	80	39	0	0	3	0	
MN INT'L FALLS	63	37	72	27	50	-5	.3	-.4	.2	2.9	52	3.8	58	92	34	0	2	4	0	
MN MINNEAPOLIS	69	47	74	39	58	-4	.3	-.5	.2	12.8	186	14.8	190	89	40	0	0	2	0	
MN ROCHESTER	66	44	78	34	55	-5	.6	-.2	.5	8.2	103	10.2	119	86	49	0	0	5	0	
MS GREENWOOD	82	61	86	55	72	-3	.2	-.8	.2	23.5	132	34.8	135	93	50	0	0	1	0	
MS JACKSON	83	59	87	54	71	-4	.1	-.8	.1	30.8	171	45.4	179	97	44	0	0	1	0	
MS MERIDIAN	84	56	86	51	70	-4	.1	-.7	.1	26.1	150	38.4	154	98	46	0	0	3	0	
MO CAPE GIRARDEAU	77	57	82	50	67	-4	.4	-.7	.2	22.2	154	23.6	120	91	47	0	0	3	0	
MO COLUMBIA	74	54	78	48	64	-3	.8	-.2	.3	16.9	143	17.7	126	95	43	0	0	5	0	
MO KANSAS CITY	76	52	83	43	64	-3	1.8	.7	.9	14.7	139	15.9	129	94	44	0	0	2	2	
MO SAINT LOUIS	75	56	83	50	65	-3	.9	-.1	.7	17.0	156	18.7	136	93	42	0	0	3	1	
MO SPRINGFIELD	78	54	83	45	66	-2	.6	-.5	.3	16.7	136	18.0	118	92	48	0	0	4	0	
MT BILLINGS	82	53	88	47	67	10	T	-.6	T	3.6	64	4.0	62	64	21	0	0	0	0	
MT GLASGOW	78	47	85	37	62	5	T	-.5	T	2.3	79	2.5	68	69	25	0	0	1	0	
MT GREAT FALLS	78	46	84	42	62	6	0	-.6	0	3.2	65	3.6	58	67	24	0	0	0	0	
MT HAVRE	78	48	86	44	63	6	0	-.4	0	3.5	97	4.5	105	73	24	0	0	0	0	
MT HELENA	82	44	85	39	63	8	0	-.4	0	2.6	79	2.7	69	69	17	0	0	0	0	
MT KALISPELL	81	40	86	33	60	7	0	-.5	0	4.5	118	6.6	110	89	22	0	0	0	0	
MT MILES CITY	80	50	87	40	65	5	T	-.6	T	2.2	49	2.5	50	73	22	0	0	0	0	
MT MISSOULA	81	43	85	40	62	8	0	-.4	0	4.6	135	6.1	122	83	22	0	0	0	0	
NE GRAND ISLAND	80	51	89	40	66	1	.1	-.8	.1	9.3	116	10.3	121	80	31	0	0	1	0	
NE LINCOLN	81	49	93	40	65	0	T	-.9	T	9.8	115	11.5	125	88	31	1	0	0	0	
NE NORFOLK	80	51	90	43	65	1	.2	-.8	.2	9.1	123	10.5	125	83	30	1	0	1	0	
NE NORTH PLATTE	79	46	86	36	63	2	.2	-.6	.2	6.7	108	7.3	107	88	32	0	0	3	0	
NE OMAHA	77	52	88	44	64	0	.9	-.2	.8	12.6	140	14.4	143	76	41	0	0	2	1	
NE SCOTTSBLUFF	78	45	88	38	62	1	.3	-.4	.3	8.1	159	8.5	160	85	28	0	0	1	0	
NE VALENTINE	79	45	92	37	62	1	T	-.7	T	7.6	133	7.7	124	78	23	1	0	1	0	
NV FLY	82	38	86	28	60	7	T	-.2	T	3.9	122	6.3	154	76	19	0	2	0	0	
NV LAS VEGAS	101	69	105	66	85	9	0	0	0	1.6	145	2.4	133	24	8	7	0	0	0	
NV RENO	89	44	91	42	66	9	T	-.1	T	3.2	178	6.2	172	77	15	4	0	0	0	
NV WINNEMUCCA	90	41	95	35	65	8	T	-.2	T	2.9	116	4.8	120	62	10	4	0	0	0	
NH CONCORD	63	46	75	39	54	-4	1.2	-.6	.9	16.8	179	22.9	167	96	59	0	0	4	1	
NJ ATLANTIC CITY	72	54	82	49	63	0	1.4	-.7	1.0	17.5	154	23.3	134	94	59	0	0	5	1	
NM ALBUQUERQUE	88	56	92	52	72	5	.2	.1	.2	.9	60	2.7	129	53	13	4	0	1	0	
NM CLOVIS	81	53	88	46	67	-1	.3	-.3	.2	1.7	46	3.1	72	83	28	0	0	2	0	
NM ROSWELL	86	56	88	49	71	-2	.2	0	.2	1.4	93	2.0	100	59	25	0	0	1	0	
NY ALBANY	67	48	75	41	57	-3	2.7	2.0	1.4	18.8	196	24.7	190	96	51	0	0	2	1	
NY BINGHAMTON	65	44	75	37	55	-3	.8	0	.6	14.7	153	18.7	140	88	46	0	0	2	0	
NY BUFFALO	63	46	72	37	54	-5	.4	-.3	.2	8.6	90	11.3	79	83	48	0	0	2	0	
NY NEW YORK	69	54	79	50	62	-3	1.0	-.2	.6	22.3	184	29.4	174	94	59	0	0	3	1	
NY ROCHESTER	65	46	72	41	56	-5	.5	-.1	.3	9.0	105	11.6	96	90	45	0	0	2	0	
NY SYRACUSE	66	42	76	35	54	-6	.5	-.2	.4	11.2	110	14.2	97	94	49	0	0	3	0	
NC ASHEVILLE	75	50	78	42	62	-3	.2	-.8	.2	15.2	111	24.1	125	97	47	0	0	1	0	
NC CHARLOTTE	79	58	83	51	69	-2	.3	-.5	.3	10.9	92	20.2	110	81	36	0	0	1	0	
NC GREENSBORO	77	56	82	50	66	-2	T	-.8	T	14.7	132	18.9	113	85	40	0	0	1	0	
NC HATTERAS	76	59	81	48	68	-2	T	-.9	T	15.2	130	32.7	171	90	59	0	0	1	0	
NC NEW BERN	81	61	90	54	71	-1	.2	-.9	.1	14.0	123	26.0	143	95	44	1	0	2	0	
NC RALEIGH	78	56	83	49	67	-3	1.9	1.0	.8	17.2	159	22.0	133	93	50	0	0	3	3	
NC WILMINGTON	80	59	87	53	70	-3	.2	-.9	.2	12.5	105	24.7	140	99	51	0	0	1	0	
ND BISMARCK	73	45	84	34	59	1	T	-.6	T	3.8	83	4.3	80	74	30	0	0	2	0	
ND FARGO	71	42	78	30	57	-2	.3	-.2	.3	4.4	86	5.1	91	78	26	0	1	2	0	
ND GRAND FORKS	72	43	79	32	57	0	.3	-.2	.3	3.8	90	4.4	88	75	23	0	1	1	0	
ND WILLISTON	77	42	89	37	60	2	T	-.5	T	2.9	78	3.3	77	85	29	0	0	3	1	
OH AKRON-CANTON	67	47	72	39	57	-5	1.0	.2	.7	12.2	113	16.2	109	85	47	0	0	3	1	
OH CINCINNATI	69	48	75	37	58	-7	1.3	.4	.8	15.7	129	18.4	105	88	43	0	0	3	1	
OH CLEVELAND	67	47	74	37	57	-4	1.2	.4	.8	10.3	98	13.4	94	87	46	0	0	3	1	
OH COLUMBUS	67	48	74	36	57	-7	1.0	.1	.8	11.8	104	13.7	89	90	44	0	0	3	1	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

National Agricultural Summary

May 23, to 29

HIGHLIGHTS: Persistent showers slowed fieldwork across much of the eastern half of the Nation. Above-normal temperatures and minimal precipitation in the West provided ideal conditions for fieldwork. However, a heavy snowmelt in the higher elevations caused flooding and erosion of farmland in valleys in Nevada and Utah. Farmers in the West had up to 7 days available for fieldwork, while in the East 3-5 days were suitable. Continued rainfall resulted in adequate to surplus soil moisture supplies in nearly all regions. Corn planting advanced rapidly to 80% completion, 6 points behind average. Soybean planting reached 33% completion, 17 points behind schedule. Sorghum producers planted 45% of the acreage compared with the average of 55%. Cotton planting reached the 69% mark, 11 points behind schedule. Rice seeding advanced to 75% completion compared with 93% for both last year and the average. Spring wheat seeding climbed to 96% completion, 7 points ahead of the normal pace; plants had emerged on 75% of the acreage. Winter wheat was in fair to mostly good condition; 57% was headed. Cool, wet weather delayed vegetable crop development in northern producing areas. Planting and harvesting continued active in all regions. Peach picking was limited to the extreme South. Pastures and livestock continued in fair to mostly good condition.

SMALL GRAINS: Winter wheat was in fair to mostly good condition across the Great Plains. Near-normal temperatures and adequate soil moisture provided ideal conditions for rapid development. In the 15 major producing States, 57% of the acreage was headed, behind last year's 74%. Heading was underway in all States except Montana, where heading usually starts at a later date. Stands began turning color across southern areas, and harvesting was 3% complete in Texas and the same as the average.

Spring wheat seeding in the five major producing States advanced to 96% completion, surpassing last year's 85% and the 89% average. The crop had emerged on 75% of the total intended acreage. Stands were in fair to good condition with ample moisture supplies to promote good growth. However, some shortages of soil moisture were appearing in parts of Montana.

CORN: Corn planting was 80% completed in the 17 major producing States, trailing last year's 81% and the 86% average. Showers across the eastern half of the Nation added to already surplus soil moisture in some regions and kept farmers out of low lying fields. However, planting in most States made rapid progress. Planting was 40 percentage points behind average in Kentucky, 24 in Michigan, and 19 in Pennsylvania. Producers in Georgia and North Carolina had nearly completed planting. Emerged fields were in fair to mostly good condition. Early-planted fields began silking in Southern States.

SOYBEANS: Soybean planting in the 18 major producing States climbed slowly to 33% completion, lagging 1982's 49% and the 50% average. Progress was behind schedule in all States. Planting was slower than average in the following States by the indicated percentage points: Michigan--40, Louisiana--35, Tennessee--31, and Ohio--30. Emerged plants were in fair to good condition.

SORGHUM: Sorghum planting was 45% complete in the seven major producing States, ahead of last year's 41% but behind the normal pace of 55%. Wet weather delayed sorghum planting. Progress was 25 percentage points behind average in Nebraska, 17 points behind in Missouri, and 15 points behind in

Kansas and South Dakota. Colorado was the only State ahead of schedule in planting the crop.

COTTON: In the 14 major producing States, 69% of the cotton acreage was planted, compared with last year's 75%. Planting in Texas was only 54% finished, lagging the average of 68%. Growers in California and Arizona were finished planting, and producers in South Carolina were nearly finished. Early-planted fields began squaring in southern regions, reaching 5% in Texas and 6% in Georgia.

OTHER CROPS: Rice seeding in the five major producing States was 75% finished, compared with 93% for last year and the average. Texas producers finished seeding, while California growers had 35% seeded, 47 percentage points behind normal. Texas was the only State ahead of normal. Rice had emerged on 60% of the acreage, behind the average of 84% for this date. The crop was in fair to good condition.

Peanut planting neared completion in the Southeast. Early-planted fields began blooming, and pegging was just beginning in Georgia. Growers sprayed the crop.

Tobacco transplanting progressed rapidly in the Southeast except for Kentucky and Tennessee, where wet field conditions delayed transplanting. Supply of healthy plants was ample in most areas.

Hay harvesting crept northward. Showers caused rapid growth of hay but provided poor curing conditions. First cuttings lagged the normal pace in most producing areas.

FRUITS AND NUTS: Peach harvesting in Georgia reached the 5% mark, while picking of early varieties was just beginning in Texas. Northern apple orchards were mostly in the petal fall stage.

Florida's citrus groves were irrigated to maintain adequate moisture. Trees showed very little new growth due to the dryness. Grapefruit picking was virtually finished, but growers were active harvesting Valencia oranges in all areas.

Texas citrus producers were nearly finished harvesting in the Rio Grande Valley. Pecan trees were sprayed for casbearers. Most areas reported a good nut set.

Arizona growers picked grapefruit and Valencia oranges to fill increased orders. Lemon picking continued slow.

California producers harvested apricots, cherries, early peaches, nectarines, and plums. Grape vines developed rapidly. Growers continued to thin peaches and pears. Drying problems continued in Navel oranges. Producers packed Valencia oranges for export.

VEGETABLES: Cool, wet weather slowed the development of most vegetable crops in northern areas. Growers harvested early vegetables and planted later-season crops.

Florida's vegetable shipments rose 4% from the previous week. Only tomatoes and watermelons gained in volume. Watermelon harvesting was active in the South and gained momentum in central areas.

Heavy rainfall and hail damaged some vegetables in Texas, but most crops made good growth. Watermelon harvesting continued in the Rio Grande Valley. Trans-Pecos tomato growers began thinning heavy stands.

California producers enjoyed dry weather and continued to harvest a wide variety of vegetables. Sweetpotato transplanting and tomato and fall potato planting was active.

(continued on back cover)

CROP PROGRESS

FOR WEEK ENDING MAY 29

WINTER WHEAT % HEADED				SPRING WHEAT % PLANTED				COTTON % PLANTED				RICE % PLANTED			
	1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.
CALIF	99	98	100	IDAHO	98	100	100	ALA	88	94	94	ARK	75	94	90
COLO	10	51	27	MINN	97	91	93	ARIZ	100	97	98	CALIF	35	78	92
IDAHO	2	2	8	MONT	95	80	85	ARK	89	98	95	LA	87	96	96
ILL	75	88	78	N D	95	78	84	CALIF	100	100	100	MISS	87	98	97
IND	50	80	75	S DAK	98	99	100	GA	93	92	92	TEX	100	99	99
KANS	60	90	85					LA	77	97	92				
MO	59	87	77	5 STATES	96	85	89	MISS	92	99	98	5 STATES	75	93	93
MONT	0	0	0					MO	81	100	97				
NEBR	5	50	45					N MEX	81	88	93	% EMERGED			
OHIO	15	60	35	% EMERGED				N C	89	99	99	1983	1982	AVG.	
OKLA	95	100	100	1983	1982	AVG.	OKLA	20	30	35	ARK	55	80	83	
OREG	66	62	61	IDAHO	88	100	94	S C	99	100	98	CALIF	10	30	63
S DAK	7	6	25	MINN	78	81	81	TENN	72	98	95	LA	85	93	93
TEX	91	96	94	MONT	80	55	70	TEX	54	59	68	MISS	65	82	88
WASH	41	14	26	N D	65	51	59					TEX	94	93	95
				S DAK	93	95	98								
15 STATES	57	74	70	5 STATES	75	66	72	14 STATES	69	75	80	5 STATES	60	76	84

THESE 15 STATES PRODUCED 80% OF THE 1982 WINTER WHEAT CROP.

THESE 5 STATES PRODUCED 96% OF THE 1982 SPRING WHEAT CROP.

THESE 14 STATES PRODUCED 99% OF THE 1982 COTTON CROP.

THESE 5 STATES PRODUCED 98% OF THE 1982 RICE CROP.

SOYBEANS % PLANTED				CORN % PLANTED				SORGHUM % PLANTED			
	1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.
ALA	35	50	52	COLO	80	80	72	COLO	44	35	32
ARK	12	31	22	GA	99	100	100	KANS	10	10	25
GA	44	46	54	ILL	86	100	88	MO	28	57	45
ILL	45	79	58	IND	70	99	75	NEBR	35	4	60
IND	30	80	50	IOWA	92	71	90	OKLA	30	35	40
IOWA	55	16	63	KANS	85	75	85	S DAK	20	9	35
KANS	10	10	30	KY	40	95	80	TEX	78	73	80
KY	4	45	29	MICH	65	95	89				
LA	16	50	51	MINN	85	80	89	7 STATES	45	41	55
MICH	20	70	60	MO	73	86	74				
MINN	56	43	68	NEBR	94	45	92				
MISS	20	48	38	N C	98	100	99				
MO	18	43	37	OHIO	65	100	80				
NEBR	45	3	55	PA	56	84	75				
N C	45	50	49	S DAK	63	52	81				
OHIO	25	95	55	VA	85	93	90				
S C	33	46	52	WIS	63	77	81				
TENN	5	42	36								
18 STATES	33	49	50	17 STATES	80	81	86				

THESE 18 STATES PRODUCED 94% OF THE 1982 SOYBEAN CROP.

THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.

THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.

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: Rainfall over 1.00 in. north. Scattered rainfall elsewhere. Air and soil temperature below normal.

Soil moisture adequate to surplus. Field-work: 4.1 days. Soybeans planted 35%, 1982 50%, average 52%. Cotton planted 94%, 1982 100%, average 100%. Peanuts planted virtually complete. Wheat turning color 60%. Wheat harvest 5%, 1982 8%, average 13%. Sorghum planted 44%, 1982 47%, average 47%. Corn silked 4%, 1982 16%. Hay harvest 27%, 1982 48%.

Activities: Planting cotton, peanuts, soybeans, and sorghum; pest control on fruit, vegetables, and crops; spreading fertilizer; spring potato harvest in south; peach harvest in Chilton Co. Conditions: Corn and cotton mostly fair; wheat fair to good; pasture, livestock, and peanuts mostly good.

ALASKA: The week saw a gradual warming in most areas with maximum warming occurring over the Tanana Valley. Precipitation amounts were light with many stations reporting none for the entire week. The Matanuska Valley was especially dry. Only Kodiak Island reported an abundance of precipitation. Tanana Valley - Daytime highs were generally above normal. Considerable warming occurred at weekend with temperatures in the upper 70's. Precipitation was negligible; keeping this a dry season. Matanuska Valley - Temperatures were generally normal with maximum readings at weekend. Precipitation amounts for the season are below normal reflecting another dry week for the most part. Kenai Peninsula - Temperatures were generally above normal especially nighttime lows. Precipitation amounts of less than 0.25

in. helped to keep seasonal amounts below normal. Kodiak Island - Slightly warmer than normal temperatures were the rule. Heavy precipitation amounts greater than 2.00 in. contributed to a much above normal seasonal total.

Springlike weather enabled growers yet another good week of progress throughout Rail belt. Fieldwork in high gear. Progress on schedule. Small grain seeding varied 75% to complete. Barley seeding 95% complete. Compared to 80% a year ago. Early seeded fields emerging. Commercial potato planting ranged 50% to complete. Overall crop growth ranged moderate to rapid. Strong wind sapped topsoil moisture some areas reporting short to adequate supplies. Subsoil moisture mostly adequate. Livestock continue in good condition.

ARIZONA: High pressure system brought very hot, dry weather. Record breaking high temperatures recorded in 70's to low 80's mountains, from 105° to 115° in deserts. Isolated light showers eastern half State end of week. Temperatures ranged 4 to 12° above normal.

Planting cotton complete, compared to 97% planted last year, average 98%. Most growers finished replanting acreage where poor germination occurred. In western areas cotton squaring, remaining cotton producing areas stand being established. Cotton progress behind normal but expected to respond favorably to recent record breaking high temperatures. Below average development reported Pima, Graham, Cochise Counties. Heavy armyworm damage Graham, Cochise Counties. Plants more susceptible to damage because smaller than normal. Weed, insect controls applied as needed Statewide along with irrigation applications. Wheat, barley harvest increasing. Activity centered Yuma County although farmers Mohave, Maricopa, Pinal, Pima Counties started combining. Harvest southeastern counties to begin July 1. Crop development average Statewide. Alfalfa haying strong central, western areas. Graham, Cochise Counties underway with first cutting alfalfa. Sorghum, corn Yuma County made average progress. Stands established for sorghum limited amount corn tasseling. Sorghum planting continued southeastern counties, earlier planted fields corn, sorghum establishing stands. Safflower good progress, seed maturing. Vegetable harvest active central areas. Movement centered around dry onions, chipper, table potatoes, peak harvest expected June 10. Limited harvest mixed vegetables. Spring lettuce cutting increasing Willcox area, complete elsewhere. Cantaloups, watermelons, honeydew melons approached maturity, melons sizing satisfactorily. Limited picking cantaloups, watermelons underway Yuma. Grapefruit demand increased, growers increasing picking activity. Valencia oranges picked on increased scale as demand favorable. Lemon market slow. Peach harvest complete, apricot, nectarine harvest winding down. Limited picking plums getting underway.

ARKANSAS: Temperatures averaged slightly below normal. Highest was 91 and lowest 41°. Rainfall amounts varied widely from none to more than 2.50 in.

Land preparation and planting improved due to drier conditions. Fieldwork limited to 4.2 days. Soil moisture surplus northeast area, adequate elsewhere. Cotton planted 89%, 98% 1982, 95% average. Rice planted 75%, 94% 1982, 90% average; emerged 55%, 80% 1982, 83% average. Soybeans planted 12%, 31% 1982, 22% average. Corn planted 88%, 93% 1982, 80% average. Sorghum planted 40%, 89% 1982, 80% average. Wheat and oats in dough stage and fair to good condition. Pastures provided average forage. Livestock good condition.

CALIFORNIA: The upper level ridge of high pressure that brought above normal temperatures last week intensified, and, weekly mean temperatures soared. Many localities showed weekly means above normal as much as double digit. Even normally cool mountain stations were as much as 16° above normal. With all the warmth, 100 and plus temperatures were generally confined to the southeastern Desert, although a few century readings were noted in the Central Valley. Some fog drip produced a trace of precipitation at Oxnard, only spot with some this week.

Field crops showing improvement due to excellent weather conditions. Rice planting continues with 35% planted, 78% last year, and 92% average. Rice emerged, 10%, 30 last year and 63 average. Weed and pest control have been active. Cotton 100% planted, 100 last year and 100 average. Cultivating and irrigating active. Winter wheat 99% headed, 98% last year, and 100 average. Small grains turning color. Planting of sugarbeets, corn, and dry beans continues. Cutting of grain hay and alfalfa hay active. Main cultural practices: Irrigating, cultivating, spraying. Apricot harvest began. Cherry harvest continues. Bing quality good. Grape vines developing rapidly. Early peach, nectarine, and plum varieties being harvested in southern San Joaquin Valley. Peach size and quality fair. Some growers rethinning to increase sizes. Pears being thinned and treated for fire blight. Pomegranates in full bloom. Drying problems in Navels continue in larger sizes. Quality varies from grove to grove. Valencia packed for export, quality good. Applying pesticide on newly set fruit for thrips control. Continue to remove dead almond trees in northern Sacramento Valley. Artichoke harvest seasonally light Central Coast. Asparagus harvest decreasing. Broccoli good supply Central Coast. Cantaloup harvest starting Desert. Cauliflower good supply Central Coast. Celery harvest active South Coast, starting Central Coast. Sweet corn volume moderate Coachella Valley. Lettuce good supply Central Coast. Dry onion harvest active Desert, increasing San Joaquin Valley. Processing pea harvest decreasing. Digging spring potatoes increasing Kern District. Planting fall potatoes active. Strawberry harvest near peak. Transplanting sweet-potatoes active. Harvest market tomatoes underway Desert. Planting processing tomatoes late areas. Early crop processing tomatoes maturing Desert. Several days hot weather dried lower elevation range grasses. Accelerating the movement cattle, calves to feedlots, summer grass. Rangeland grasses higher elevations very good condition. Cattle continue good condition. Sheep producers completed shearing valley locations.

COLORADO: Scattered showers and thunderstorms daily over most of State, with little precipitation. Exceptions were the southeast and parts of the San Luis Valley where precipitation was 0.20 to 0.40 in. Temperatures in the east averaged 1° to 3° below normal. Other sections of the State averaged 1 to 2° above normal.

Winter wheat in good to excellent condition: 77% jointed, about normal; 10% headed, 51% last year, 27% average. Corn in good to fair condition: 80% planted, 80% last year, 72% average; 32% emerged, 68% last year, 58% average. Sorghum in fair to good condition: 44% planted, 35% last year, 32% average. Barley, oats, and spring wheat in good condition. Barley seeding nearly complete; 88% emerged, 86% last year, 80% average. Spring wheat 93% seeded, 97% in 1982. Oats 87% seeded, 91% last year, 89% average. Days suitable for fieldwork: 3.0. Topsoil moisture adequate, except in San Luis Valley. Subsoil moisture adequate

Statewide. Range and pasture condition good. Livestock in good condition.

FLORIDA: The dry spell continued with warm, mostly sunny days and fair, mild nights, isolated afternoon, evening showers, thundershowers produced generally light rainfall amounts Interior Peninsula. Scattered showers, thunderstorms east Coast on the 29th had rainfall ranging from less than 0.10 in. up to around 2.50 in. At Daytona Beach, temperatures averaged near normal.

Soil moisture mostly adequate west, upper north, short elsewhere, rains beginning late on 29th helpful to central areas. Corn fair progress, tobacco, sugarcane good condition. Peanut planting about complete. Soybean planting full swing. Wheat harvest underway and gaining. Hay cutting continues. Pastures fair to mostly good, Panhandle, northern Peninsula, good to excellent most of lower southern Peninsula, but only fair, central areas. Timely rains beginning on the 29th will improve forage growth, many central areas. Cattle, calves continue fair to good condition. Citrus grove areas hot and dry. Irrigation applied all localities, very little new growth due to dryness, some Valencia softening, very few grapefruit remain to be picked. Valencia harvest active all areas. Sunny skies, warm temperatures, little to no rainfall prevailed most of week in vegetable areas. Irrigation very active. Dry weather broken by widespread rains which began 29th. Total shipments increased 4% from previous week. Harvest gained tomatoes and watermelons. Volume about unchanged Chinese cabbage, sweet corn, peppers, radishes and strawberries. Shipments declined for all other vegetables, season nearing end for some crops. Watermelon harvest very active south, underway central areas. Quality, size mostly good.

GEORGIA: Near normal temperatures Statewide. Average rainfall near 1.50 in. northernmost sections, light and spotty elsewhere averaging 0.25 in. Weekend of 28th and 29th temperatures near normal. Rain from scattered showers northwest half averaged near 0.10 in. Light rain extreme southeast night of 29th.

Soil moisture variable: 7% very short, 42% short, 44% adequate and 7% surplus. Some 5.2 days suitable for fieldwork. Corn planting virtually complete, about equal to last year and average; silked 8%, 22% last year, 19% average; condition 51% fair and 45% good. Cotton 93% planted, last year and average 92%; condition 40% fair and 53% good; squaring 6%, last year 5% and 11% average. Peanut planting 97% complete, same as last year and average; condition 30% fair and 64% good; blooming 5%, 9% last year and 10% average; pegging just beginning, 1% last year and average; "cracking time" spraying continues active. Tobacco condition 7% poor, 58% fair, 35% good. Soybeans 44% planted, 46% last year and 54% average; condition 39% fair and 58% good. Grain sorghum planting 47% complete, 52% last year and 48% average; condition 48% fair and 48% good. Watermelons 99% planted, same as last year and average; condition 54% fair and 42% good. Peaches 5% harvested, 15% last year and 7% average; production condition rating 29% very poor, 20% poor, 18% fair, 31% good. Apple condition 22% very poor, 24% poor, 34% fair and 20% good. Wheat 9% harvested, 21% last year, 18% average; production condition rating 13% poor, 51% fair, 31% good. Rye condition about unchanged from last week. Condition rating of other small grains down slightly from previous week. Pastures 6% poor, 32% fair, 60% good.

HAWAII: Weather favorable for crop development continued throughout the Island Chain. Most areas received light rainfall with periods

of sunshine allowing farmers to spray for insect and diseases. Supplies of head cabbage and head lettuce will continue moderate to heavy. Papaya production will be up seasonally. Watermelon production is expected to increase greatly in the coming weeks.

IDAHO: The weather was very warm and dry. Temperatures for most stations were 5 to 9° above normal. Departures ranged from 15° above normal at Moscow to 1° above normal at Malad. There was no measureable precipitation at any reporting station. A few stations received trace amounts.

Hot, dry weather provided 6.6 days suitable for fieldwork. Winter wheat stood at 68% jointed, 16% boot, 2% headed versus 45% joint, 16% boot, and 2% headed last year. Spring wheat emergence topped 88% compared to 100% last year and 94% average. Barley seeded climbed to 91% complete versus 100% last year and average. Emergence at 68% trailed last year's 98%. Potato planting continued with 85% complete compared to 93% last year and 82% average, emergence at 14% compared to last year's 22% and the average 26%. Sugarbeet thinning was 30% complete versus 28% last year. The first cutting of alfalfa hay was 2% complete. Range and pasture growth was good. Livestock were also in good condition.

ILLINOIS: Temperatures averaged 2 to 7° below normal. Precipitation was light to moderate ranging from 0.06 to 1.43 in.

Soil moisture 2% short, 60% adequate, 38% surplus. Days suitable for fieldwork: 4.0. Corn 86% planted, 1982 100%, average 98%. Soybeans 45% planted, 1982 79%, average 58%. Sorghum 15% planted, 1982 64%, average 34%. Winter wheat 75% headed, 1982 88%, average 78%; 20% filled, 1982 42%, average 33%; condition 8% excellent, 81% good, 11% fair. Oats condition 12% excellent, 66% good, 20% fair, 2% poor. Alfalfa hay first crop 13% cut, 1982 23%, average 26%; condition 17% excellent, 70% good, 13% fair. Pasture condition 22% excellent, 73% good, 5% fair. Livestock in good condition.

INDIANA: High temperatures ranged from 6 to 10° below normal and lows from 3 to 6° below normal over most of State. Rainfall averaged from 0.75 to 1.00 in. below normal generally with seven day totals from 0.09 in. at Kewanna to 0.83 in. at Kokomo. Rain fell on five of the seven days with no extended drying period. Average soil temperatures ranged from the upper 50's to the mid 60's.

Fieldwork averaged 2.9 days. Topsoil and subsoil moisture mostly adequate to surplus. Spring cropland 92% tilled, 1982 99%; corn 70% planted, 1982 99%, average 75%. Corn 50% emerged, 1982 95%, average 65%. Soybeans 30% planted, 1982 80%, average 50%. Soybeans 10% emerged, 1982 70%, average 30%. Wheat good condition. Wheat 50% headed, 1982 80%, average 75%. Wheat 10% in milk, 1982 15%, average 15%. Wheat 23 in. tall, 1982 24 in. Oats 8 in. tall, 1982 9 in., average 8 in. Alfalfa hay 15% cut first time, 1982 20%. Clover hay 7% cut, 1982 10%.

IOWA: A cool, cloudy week. Scattered showers over most of the State during mid and late week. Temperatures averaged 3° subnormal. Temperatures on the 26th at Elkader measured 30° and Anamosa 32°, 90° readings on the 27th at Logan and Glenwood while Shenandoah measured 93°. Evaporation from 0.20 to 0.30 in. per day from east to west.

Days suitable: 4.5. Plowing completed 97%, 100% last year; 100% normal. Fertilizer applied 96%; 97% last year; 100% normal. Oats emerged 95%; 100% last year; 100% normal. Corn planted

92%; 71% last year; 90% normal. Corn emerged 60%; 63% last year; 71% normal. Soybeans planted 55%; 16% last year, 63% normal. Soybeans emerged 10%; 10% last year; 26% normal. Topsoil moisture 1% short; 58% adequate; 41% surplus. Subsoil moisture 44% adequate; 56% surplus.

KANSAS: Precipitation averaged less than 0.10 in. west, 0.33 in. to 0.75 in. east and central. Temperatures averaged 66 to 69° or 1 to 3° below normal northeast and north central, normal to 4° above normal elsewhere.

Wheat 100% jointed, 100% last year, 99% average; 60% headed, 90% last year, 85% average. Wheat rates good to excellent Statewide. PIK wheat being cut for hay and silage, still being grazed some areas. Corn 85% planted, 75% last year, 85% average. Sorghum 10% planted, 10% last year, 25% average. Soybeans 10% planted, 10% last year, 30% average. Alfalfa hay first cutting 15% complete, 20% last year, 55% average. Some alfalfa weevil damage all districts, moderate to severe central and east; farmers spraying most areas. Pasture and range continue good to excellent. Surplus soil moisture 3 northeastern districts, adequate to surplus southeast, adequate elsewhere. Days suitable for fieldwork: 3.0.

KENTUCKY: Temperatures averaged 5 to 10° below normal. Rainfall variable. Average amount was 0.33 to 0.50 in.

Days favorable for fieldwork averaged 3.4. Over half cropland too wet to till. Soil moisture 67% surplus, 33% adequate. Corn 40% planted, 95% last year, 80% average. Corn planting latest on record many counties. Soybeans 4% planted, 45% in 1982 and 29% average. Burley 8% set, 1 last year 41%, average 24%. Tobacco plant supply adequate. Wheat mostly headed. Rust and too much water are problems in small grains. Hay crop good, but harvesting weather unfavorable. Pastures good to excellent.

LOUISIANA: Rainfall averaged none to 0.50 in. Temperatures averaged 1 to 3° below normal. High 92°, low 53°.

Soil moisture adequate to surplus. Days suitable 3.2. Spring plowing 92%, 96% 1982. Corn emerged 98%, silked 7%, 37% 1982, 22% average. Condition fair. Cotton planted 77%, 97% 1982, 92% average. Emerged 60%, 93% 1982, 84% average. Condition poor. Rice planted 87%, 96% 1982 and average. Emerged 85%, 93% 1982 and average. Condition fair. Sorghum planted 81%, 79% 1982, 65% average. Sorghum emerged 80%, 76% 1982, 57% average. Condition fair. Soybeans planted 16%, 50% 1982, 51% average. Soybeans emerged 11%, 39% 1982, 35% average. Condition fair. Sweetpotatoes planted 40%, 72% 1982, 70% average. Condition fair. Sugarcane condition good. Wheat turning color 83%, 99% 1982, harvested 6%, 25% 1982. Condition fair to good. Peach harvest just getting started, 9% 1982. Vegetables rated fair. Pasture rated fair to good. Livestock rated good. Hay 1st cutting 35%, 49% 1982.

MARYLAND AND DELAWARE: No report received.

MICHIGAN: Well below normal temperatures were again reported across the State. Average temperatures were 6 to 8° below normal. Moderate amounts of rain fell over the State with most areas reporting near 1.00 in. of precipitation. The western portion of the Upper Peninsula had the largest amount with 2.30 in.

Planting was active early in the week but was slowed by week end rains. Statewide 3.0 days suitable for fieldwork. Planting of most

crops behind last year. Corn planting 65% complete, 95% last year, 89% average. Soybeans 15% planted, 70% last year, 60% average. Oats 95% planted, 100% last year, 100% average. Sugarbeet planting is nearing completion. Winter wheat remains in good condition. Cold weather continues to hurt fruit and vegetable crops.

MINNESOTA: A dry, cool, mostly sunny week. Locally heavy hail in north central and west central. Temperatures averaged 1 to 5° below normal. High: 88°; low: 27°. Precipitation averaged 0.13 to 0.73 in. below normal. Totals range from none to 1.46 in.

Planting of row crops progressed rapidly, helped by sunny, dry weather. Average number of days suitable for fieldwork: 5.4. Air and soil temperatures still below normal, so emergence of row crops was slow. Alfalfa growth 1 or 2 weeks behind, so first cutting will be short. Subsoil moisture supplies were still good, but topsoil moisture short in west central through east central. Surplus moisture problems improved in southern portion, but still many wet spots in fields. Topsoil moisture rated 6% very short, 19% short, 61% adequate, and 14% surplus. Planted: Spring wheat 97%, 1982 91%, normal 93%; oats 97%, 1982 94%, normal 95%; barley 98%, 1982 86%, normal 90%; field corn 85%, 1982 80%, normal 89%; soybeans 56%, 1982 43%, normal 68%; sunflowers 55%, 1982 41%, normal 65%; potatoes 70%, 1982 58%, normal 72%. Emerged: spring wheat 78%, 1982 81%, normal 81%; oats 84%, 1982 88%, normal 87%; barley 75%, 1982 74%, normal 77%; field corn 31%, 1982 62%, normal 59%; soybeans 7%, 1982 16%, normal 26%.

MISSISSIPPI: Temperatures 5 to 8° below normal. Thunderstorms at first and end of week. Rainfall light western area, moderate eastern area. Greatest 24-hour rainfall 1.54 in.

Soil moisture adequate southeast, surplus to excessive elsewhere. Planting limited by wet fields. Fieldwork 3.2 days suitable, 3.8 last year, 3.4 average. Soybeans 20% planted, 48% last year, 38% average. Cotton 92% planted, 99% last year, 98% average; 65% to stand, 94% last year, 84% average; condition poor. Rice 87% planted, 98% last year, 97% average; 65% to stand, 82% last year, 88% average; condition fair. Sorghum 45% planted, 64% last year. Corn 91% planted, 77% to stand; fair condition. Peanuts 55% planted, sweetpotatoes 40%. Winter wheat 14% ripe, 1% harvested, condition fair to good. Hay 22% harvested. Peach condition fair. Pastures good to fair.

MISSOURI: Cool air remained over the State with temperatures averaging 4° below normal. Rain widespread but spotty with the average ranging from 0.30 to 1.10 in.

Days suitable for fieldwork: 2.6. Corn 73% planted, 86% last year and 74% normal. Grain sorghum 28% planted, 57% last year and 45% normal. Soybeans 18% planted, 43% last year and 37% normal. Alfalfa hay, 1st cutting, 21% harvested, 33% last year and 37% normal. Cotton 81% planted, 100% last year and 97% normal. Winter wheat 59% headed, 87% last year and 77% normal. Wheat rated 1% excellent, 25% good, 64% fair and 10% poor. Pasture condition 8% excellent, 73% good, 18% fair and 1% poor. Topsoil moisture supplies 71% surplus and 29% adequate.

MONTANA: Temperatures averaged 3 to 9° above normal. No precipitation.

Topsoil moisture barely adequate. Shortages developing. Subsoil moisture adequate. Field-

work: 6.1 days suitable. Growth and condition winter wheat and spring sown crops good. Ninety-three percent winter wheat still not yet in boot. None headed. Nearly all spring wheat, barley and sugarbeets seeded. About 85% oats, corn and potatoes planted, 65% dry beans seeded. Nearly 80% spring wheat and barley emerged. About 60% cattle and sheep moved to summer ranges. Range growth slow.

NEBRASKA: Temperatures near normal with warm days and cool nights. Precipitation light except extreme southeast where 2.00 in. or more recorded.

Good week for fieldwork. Corn planting 94%, 45% last year and 92% normal; emerged 40%, 30% a year ago and 70% normal. Sorghum 35% planted, 4% last year and 60% normal. Soybeans planted 45%, 3% last year and 55% normal. Winter wheat mostly good to fair; jointed 95%, 98% previous year and 92% normal; headed 5%, behind 50% last year and 45% normal. Alfalfa first cutting 5%, 2% last year and 20% normal. Topsoil moisture adequate. Subsoil moisture mostly adequate to surplus. Pasture and range feed supplies adequate. Muddy feedlot conditions improved. Days suitable for fieldwork 5.3.

NEVADA: Mostly sunny skies and temperatures well above normal all reporting stations. Only trace amounts precipitation reported during week, mostly in form of afternoon thunderstorms. High temperatures 10 to 15° above normal. Morning lows averaged 8 to 12° above normal.

Vegetative growth accelerated by higher night temperatures. Range grasses longer than usual. Summer grazing prospects mostly excellent. Most all cattle and sheep moved to spring and summer ranges.

NEW ENGLAND: Temperatures ranged from the mid 40°'s across northern Maine to 60° along the southern New England Coast. Precipitation ranged from 1.00 to 2.00 in. across the entire region.

Cool rainy weather has kept crop progress to 2 weeks behind schedule. An average of 4.0 days were suitable for fieldwork. Grazing availability was adequate. Maine potatoes 50% planted, 95% last year, 90% normal. Corn for silage 35% planted. Fruit crop was in full bloom north, petal fall and beyond in southern areas.

NEW JERSEY: Temperatures averaged 4° below normal. Extremes were 36° on the 28th and 83° on the 24th. Rainfall averaged 2.13 in. north, 1.35 in. central and 1.08 in. south. The heaviest 24-hour total 1.33 in. on the 26th to 27th. Estimated soil moisture in percent of field capacity, averaged 99% north, 94% central and 94% south. Four in. soil temperatures today averaged 60° north, 66° central and 64° south.

Fieldwork: 4.5 days suitable. Below normal temperatures continue to slow plant growth. Some harvesting of cool season crops. Plowing and planting still behind schedule.

NEW MEXICO: Average temperatures 2 to 5° above normal. Scattered thundershowers Statewide everyday. No significant accumulations. Minimum temperature 29° western mountains. Maximum temperature - 97° southwest. Minor hail damage, one eastern county.

Cotton 81% planted, good condition; last year 88%; average 93%. Alfalfa fair to good, 1st cutting complete, 2nd cutting begun south. Irrigated wheat, barley good condition, virtually all headed. Dry wheat fair to good; headed. Both dry, irrigated crop turning color on

south, east sides. Grain sorghum 65% planted. Corn 95% planted. Peanuts 65% planted. Cattle, sheep good condition. Ranges, fair condition. Needing moisture.

NEW YORK: Temperatures below normal across State. Rainfall mostly normal to light in central and western areas, mostly above normal in east.

Corn planting 38% complete, 62% 1982, 60% average some early fields up. Oat planting 60% done, 92% 1982, 87% average. Hay crops condition good. growth slow. Vegetable crop development, planting schedules mostly behind normal due to cool, wet weather. Pollination in orchards progressing well. Western apples at petal fall stage. Fruit has set on western pears. Eastern pears sizing well. Good set on tart and sweet cherries.

NORTH CAROLINA: Temperature: 3 to 5° below normal Statewide. Precipitation: spotty.

Soil moisture: 11% short, 75% adequate, 14% surplus. Days suitable for fieldwork: 5.0. Condition: Small grains fair to mostly good. Tobacco plant beds: 8% poor, 48% fair, 44% good. Irish potatoes 8% poor, 24% fair, 64% good and 4% excellent. Peaches: 59% poor, 26% fair, 15% good. Tobacco in fields: 41% fair, 57% good and 21% excellent. Pasture: 1% poor, 21% fair, 74% good and 4% excellent. Truck crops: 5% poor, 32% fair, 61% good and 2% excellent. Corn: 1% poor, 27% fair, 72% good. Cotton: 30% fair, 60% good, 10% excellent. Planting progress: Flue-cured tobacco 92%, 97% 1982, 95% average. Corn 98%, 100% 1982, 99% average. Sorghum 52%, 66% 1982, 53% average. Burley tobacco 24%, 57% 1982, 47% average. Peanuts 82%, 98% 1982, 89% average. Cotton 89%, 99% 1982, 99% average. Soybeans 45%, 50%, 1982, 49% average. Sweet-potatoes 19%, 34% 1982, 42% average. Major farm activities: Transplanting and resetting tobacco, planting soybeans, corn, sweetpotatoes, and sorghum, cultivating and fertilizing, tobacco and spraying vegetables.

NORTH DAKOTA: Temperatures averaged about 2° above normal. District averages from 56° north central to 60° southwest and south central. Extremes ranged from 26° northeast, southeast and south central to 90° central. Precipitation amounts were spotty and light with average amounts about 0.50 in. below normal. Averages ranged from trace west central to 0.31 in. east central, greatest amount was 0.45 in. east central.

Dry weather allowed farmers to nearly complete small grain seeding and make good progress on row crops. Planting of crops ahead of both last year and the average pace. Continued cool temperatures have limited crop development. Topsoil moisture supplies were mostly adequate with 14% short. Wild oats being a major problem. The percent seeded through 29th along with last year and the average was: Hard red spring wheat 95, 78, 84; durum 90, 76 78; barley 96, 81, 83; oats 93, 76, 82; sunflower 46, 28, 43; flax 59, 40, 41; corn 69, 46, 55; soybeans 85, 78, 62; potatoes 80, 77, 78 and dry edible beans 66, 44, 61.

OHIO: Temperatures 4 to 8° below normal. Highs in 60's; lows in 30's in most areas. Growing degree days accumulated below normal. Rainfall from 0.33 to 0.50 in. below normal. Rain fell on 5 days.

Corn planting 10 days behind normal. Emerged corn yellow, condition fair. Wheat condition good. Poor hay harvesting conditions. Corn planting 65%, emerged 40%. Soybeans 25%,

emerged 10%. Wheat heading 15%. Alfalfa 1st cutting 10%. Other hay 1st cutting 5%. Days suitable 2.5. Pasture good. Soil moisture 25% adequate, 75% surplus.

OKLAHOMA: Average temperatures ranged from 1° above normal to 3° below normal. Precipitation ranged from 0.40 in north central to 1.10 in southeast.

Wheat in good condition progressed at good rate. Little fieldwork in all sections except Panhandle. Wheat headed: 96%; 100% 1982, 100% average. Sorghum planted: 30%; 35% 1982; 40% average. Cotton planted: 20%; 30% 1982, 35% average.

OREGON: Hot and dry week. Record temperatures set with average temperatures 3° above normal at coast; 6 to 12° above normal elsewhere. Only precipitation was traces along coast.

Winter wheat 66% headed; 62% 1982; 61% average. Nitrogen deficiency in some eastern fields; septoria and rust in some western fields. Field crops growing rapidly with hot weather. Haying in full swing. Tree fruits look good; irrigation underway; spraying on schedule. Strawberry harvest underway. Potatoes being cultivated and side-dressed; planting in late areas well advanced. Asparagus harvest continues. Vegetables for fresh market and processing going in on schedule; early plantings emerged. Use of irrigation in full swing. Livestock, range and pasture good to excellent shape. Snow melting fast on high ranges; low ranges showing excellent forage growth.

PENNSYLVANIA: Days suitable: 3.0. Moisture surplus to adequate. Activities: Plowing, spraying; silo filling; cutting rye for silage and green chop; harvesting asparagus; and planting corn, soybeans, oats and potatoes. Spring plowing 83% complete, last year virtually complete, average 94%. Oats 94% planted, last year virtually complete. Soybeans 25% planted, last year 58%. Potatoes 72% planted compared with 92% last year. Corn 56% planted, last year 84%, average 75%. Barley 54% headed, last year 81%. Wheat 15% headed, last year 29%. Hay stands good to fair. Feed from pastures average.

PUERTO RICO: Island average rainfall 2.13 in. or 0.40 in. above normal. Highest weekly total 6.32 in. Highest 24-hour total 3.70 in. Temperature averaged about 81 to 79° on Coasts and 74 to 73° Interior Divisions. Mean station temperature ranged from 82.8 to 66.5°. Extremes 93 and 58°.

SOUTH CAROLINA: Above normal temperatures shifted lower by 23rd. Scattered showers or thunderstorms with occasional hail 26th, generally light or no precipitation.

Soil moisture short to adequate. Days available for field activity: 5.4. Corn being cultivated, fertilized; condition fair to good. Row crops growth slowed due to cool nights. Boll weevil traps included some high counts, spray program just getting underway on cotton, conditions fair to good; cotton 99% planted, 100% last year, 98% average. Some soybean growers waiting for needed rains; planted at 33%, 46% last year, 52% average; conditions fair to good. Cutworms troublesome to some tobacco, budworm control difficult where crop growing rapidly; condition fair. Wheat condition fair; 10% ripe, 43% last year, 55% average; harvesting at 1%, 4% last year and average. Peaches, apples poor to fair condition, although, diseases at low levels. Vegetables and melon conditions fair; coastal storm affected 700

acres tomatoes, 300 acres snap beans with other vegetables and melons; occasionally severe hail damage 26th still being assessed.

SOUTH DAKOTA: Average temperatures 3 to 8° above normal west; 3° above to 3° below normal east. Extremes; 29° and 92°. Rainfall spotty and light.

Days suitable for fieldwork: 6.0. Topsoil moisture supplies mostly adequate. Subsoil moisture supplies adequate surplus. Early-week frost damage minimal. Warmer and drier weather allowed good planting progress and provided much needed crop growth and maturation. Winter wheat in good to excellent condition throughout State. Pastures good to excellent. Spring wheat seeded 98%, 1982 99%, average 100%. Spring wheat emerged 93%, 1982 95%, average 98%. Corn planted 63%, 1982 52%, average 81%. Sorghum planted 20%, 1982 9%, average 35%. Winter wheat 51% boot, 1982 53%, average 62%. Winter wheat 7% headed, 1982 6%, average 25%.

TENNESSEE: Average temperatures were cooler than normal. Means ranged 70 to 60°. Normal means ranged 74 to 65°. Precipitation averaged about 2.00 in. in most areas. Rainfall during May far exceeds the average in most sections.

Days suitable for fieldwork: 2.3. Soil moisture 34% adequate, 66% surplus. Corn planted 57%, 1982 91%, average 86%. Cotton planted 72%, 1982 99%, average 95%. Soybeans planted 5%, 1982 42%, average 36%. Tobacco set 23%, 1982 63%, average 61%. Wheat headed 96%, 1982 99%, average 97%. Wheat turning yellow 5%. Alfalfa hay cut 39%, 1983 86%, average 80%.

TEXAS: Cold front early week triggered heavy thunderstorms. Temperatures near normal over most of State, exception of Edwards Plateau, southern zone. Lower Valley temperatures averaged 2° below normal.

Crops: Soil moisture continued to improve, South Texas, West Texas experiencing shortages. Hail, high winds plagued High Plains, Cross Timbers. Land preparation, planting, chemical application main activities. Cotton planting in full swing southern High Plains, some fields lost to hail. Cool nights continued to delay planting, cause emergence problems High Plains, Blacklands, Crop Timbers areas, stands making good growth. Central, South Texas development aided by additional moisture. Spraying for boll weevils, cotton fleahoppers continued. Sorghum planting active. Stands in generally good condition, some replanting occurring. Chemical applications for greenbugs, yellow aphids continued. Corn making good growth. Generally excellent conditions reported. Small grains being harvested, southern Low Plains, southward to Coast. Excellent wheat yields expected. Grazing, cutting, baling of PIK acres continues. Dryland wheat aided by rains, still short signs of stress. Reported wheat condition is 82% compared with 71% a year ago. By week's end, 17% excellent, 51% good, 28% fair, and 4% poor. Peanut planting progressing well. Some rice demand due to hail.

Cotton planted 54%, 1982 69%, 68% average; squaring 5%, 1982 10%, 12% average; setting bolls 0%, 1982 2%, 4% average. Rice planted 100%, 1982 99%, 99% average; emerged 94%, 1982 93%, 95% average. Sorghum planted all purposes 78%, 1982 73%, 80% average; headed 15%, 1982 23%, 23% average; turning color 2%, 1982 4%, 4% average. Wheat headed 91%, 1982 96%, 94% average; turning color 44%, 1982 49%, 49% average; harvested for grain 3%, 1982 2%, 3% average. Oats harvested for grain 19%, 1982 11%, 20% average. Corn planted for all purposes 100%, 1982 99%, 99% average. Peanuts planted 23%, 1982 16%, 27% average. Soybeans planted 20%, 1982 11%, 23%

average. Sunflowers planted 36%, 1982 19%, 24% average.

Commercial Vegetables: Rio Grande Valley, harvest of watermelons continues. Some citrus remains on trees as harvest nears competition. Coastal Bend, insect, fungal problems reported. Some cucumber moisture stressed, most tomatoes continuing to make good growth. San Antonio-Winter Garder area, warmer temperatures improved conditions, excessive moisture continues to be problem. Northeast Texas, good weather aided growth. Watermelon planting underway. Some areas received excessive rainfall, hail. Trans-Pecos region, onion harvest underway, tomato growers prepared to thin heavy stands. Plains, some hail damage reported, most onions, potatoes making good growth. Peaches making good growth. Fruit size expected to be below average. Some early varieties being harvested. Pecan trees being sprayed for casebearers. Nut set good in most areas.

Range and Livestock: Native grasses greening up, still behind normal in some areas. Poor conditions prevail southern High Plains, Coastal Bend. Livestock moving off PIK acres, going to market early under threat of Statewide quarantine.

UTAH: Recurring periods precipitation. Accumulations light except moderate isolated stations. Temperatures considerably above normal ranging 3 below to 7° above. Extensive flooding from rapid snow melting.

Flood waters covering thousands of farmland acres. Waters still rising in some areas as heavy snowpack melts. Losses also occurring from erosion and high water tables. Above normal temperatures and very little rain allowed 6.3 days of fieldwork. Spring planting made good progress, but still well behind normal. Spring wheat 84% seeded, normal 100%. Barley 85% in, normal 100%. Some oats, corn, and pasture grasses being seeded in place of wheat and barley. Concern continues on yields of late seeded crops. Corn planting also delayed. Seeding at 39% mark, normal 82%. Livestock finally making good gains as range feeds have begun to grow.

VIRGINIA: Clearing skies at the beginning of the period with scattered showers and thundershowers through the middle of the week. By 27th cloudy skies and more numerous showers and thundershowers were the rule. High relative humidities frequent although spotty precipitation and prolonged periods of cloud cover resulted in fair to poor drying conditions. Temperatures were 1 to 2° below normal and precipitation averaged around 1.00 in.

Cool temperatures, frosts in the west. Rain increased topsoil moisture to 5% short, 65% adequate, 30% surplus. Days suitable for fieldwork were 4.0. Germination and growth slow. Fieldwork limited to well drained areas. Corn condition reported good. Seeding 85% complete, 93% 1982, 90% average. Soybeans 26% seeded, 36% 1982, 32% average. Peanut seeding virtually complete, same last year, 94% average. Tobacco setting generally behind last year. Adequate supply of plants. Small grain in good to excellent condition. Harvest to begin in about two weeks.

WASHINGTON: Hot and dry. Weekly average temperatures were 5 to 10° above normals, and the only measurable precipitation was reported from the north coast.

Wheat and barley average or above condition. Some reports of aphids. Stripe rust and cheat grass infestation various areas of the State. In Adams and Lincoln Counties heavy cheat grass infestation. First cutting of alfalfa continued. Fruit thinning sprays taking effect. Cherry harvest expected June 13 earlier districts. Warm weather helped cherry sizing. Strawberry harvest beginning in most areas. Raspberries past full bloom. Blueberries sizing up. Harvest spinach, radishes, leaf lettuce and spring broccoli underway. In Skagit County blocking early cauliflower and broccoli continued. Green pea planting continued. Carrots and cucumbers up. Harvest asparagus continued excellent quality. Silage cutting continued westside. Green chopping continued. Range and pasture feeds adequate. Winter wheat headed 41%, 1982 14%, average 26%.

WEST VIRGINIA: Temperature averaged below normal. Scattered frost the 27th in higher elevations. High 82°, low 26°. Precipitation below normal. Range 0.13 to 1.61 in.

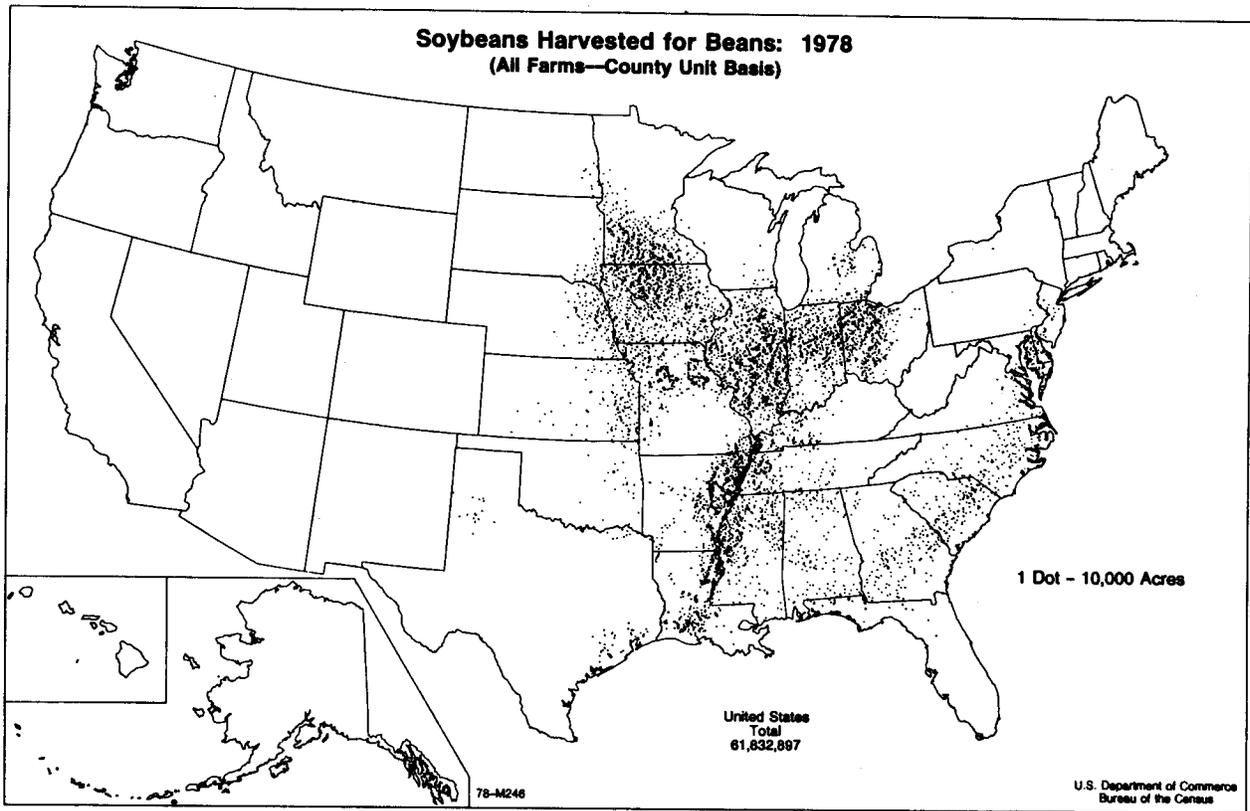
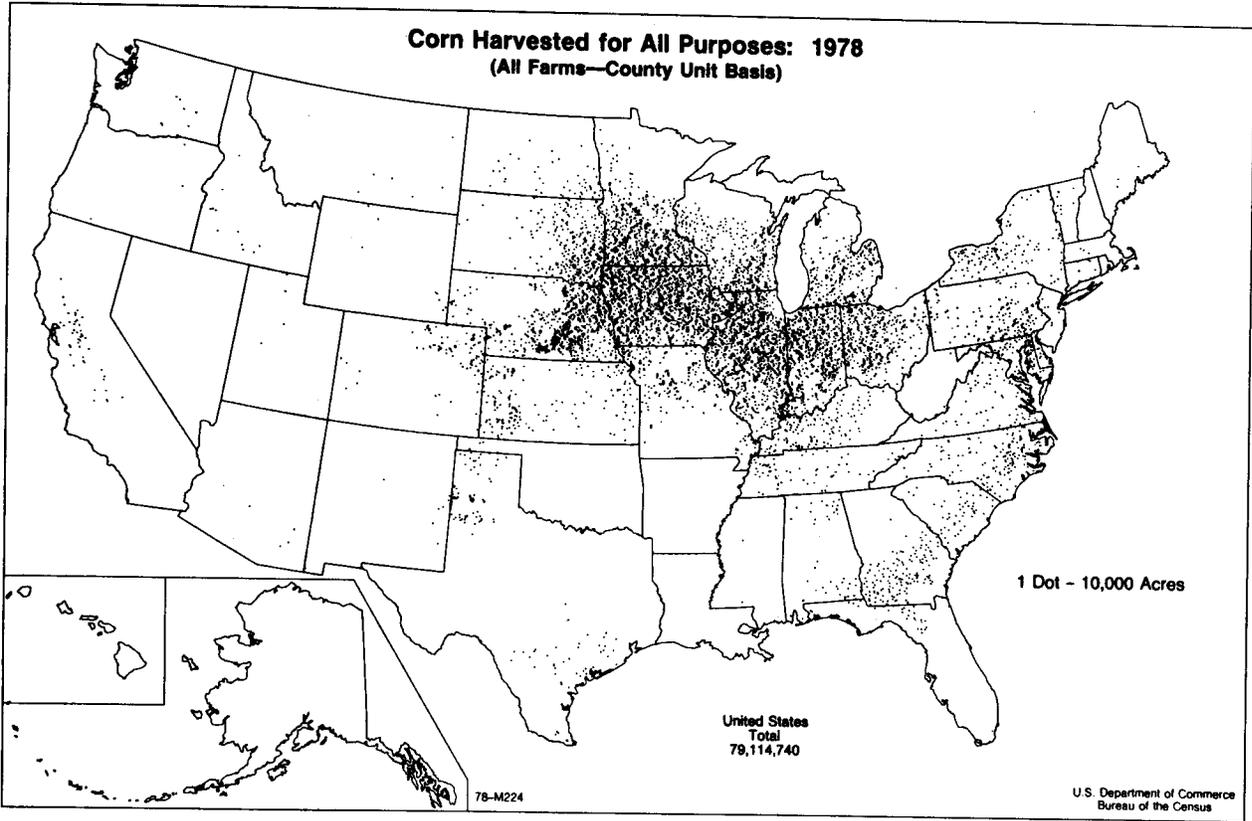
Soil moisture adequate to surplus. Days worked averaged 3.3. Main activities: Gardening, planting, general maintenance. Wheat: Good to fair condition; 38% pre-jointed, 53% jointed, 9% heading; 12%, 45% and 43% in 1982. Barley in good to fair condition; 16% pre-jointed, 42% jointed, 42% heading; 10% pre-jointed, 30% jointed, and 60% heading in 1982. Oats in fair to good condition; 91% planted, 81% emerged, 95% and 93% in 1982. Corn in fair condition; 54% planted and 35% emerged, 15% set; 100%, 87%, and 22% in 1982. Hay in fair to good condition; 1st cutting 5% complete; 8% in 1982. Pasture in good to fair condition. Apples in fair condition. Peaches in poor to fair condition. Gardens in fair condition.

WISCONSIN: Wide variations occurred in weather. Rather dry weather early in the week gave way to very wet weather on 27th through 29th. Temperatures oscillated from above normal on 23rd and 24th to well below normal on 25th and 26th to near normal on 27th and 28th and finally to below normal on 29th. Frost and freezing temperatures were wide spread morning of 26th in the north and scattered frost was reported in southern sections. The lowest temperature was 25° at Phillips on 26th. The highest was 82° on the 24th. Weekly rainfall totals in excess of 1.50 in. were common. The greatest rainfall was 3.57 in. registered at La Farge in the southwest district.

Days suitable for fieldwork: 5.0. Soil moisture 5% short, 47% adequate, and 48% surplus.

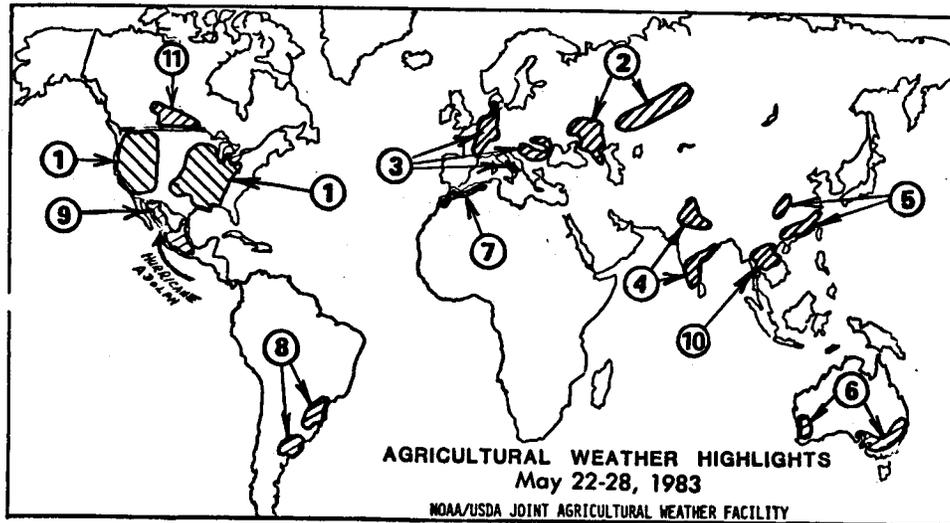
WYOMING: Summer-like temperatures. Every region above normal. Averages. Quite dry with only spotty significant precipitation.

Topsoil moisture adequate 93% State. Subsoil moisture adequate 97% State. Days suitable for fieldwork: 6.0. Spring wheat planted 90%, emerged 70%. Sugarbeets planted 75%, emerged 45%. Barley planted 80%, emerged 65%. Oats planted 70%, emerged 55%. Corn planted 55%, emerged 20%. Potatoes planted 30%. Dry beans planted 5%. Winter wheat mostly good condition, some freeze damage from earlier storms. Livestock mostly good condition. Calf, lamb losses mostly normal. Ranges, pastures most good condition.

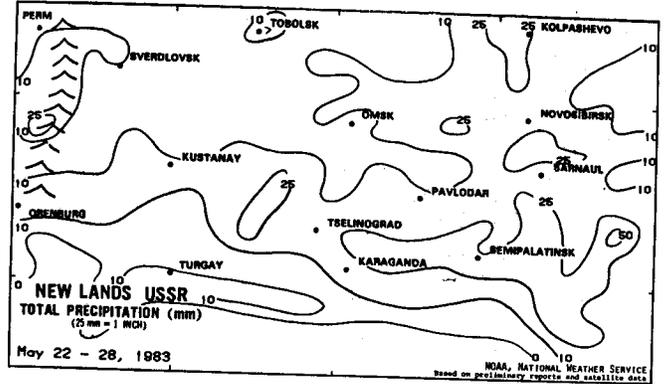
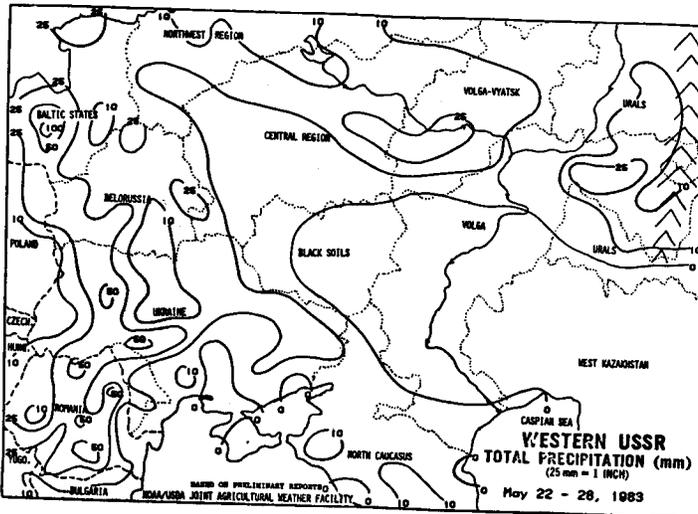


International Weather and Crop Summary

May 22 to 28

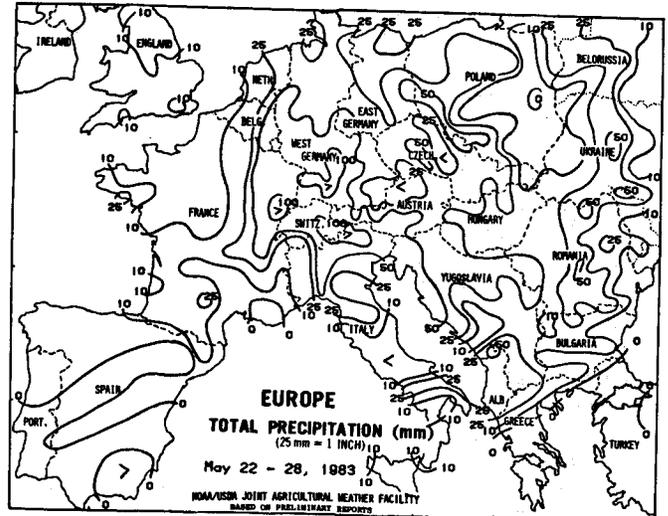
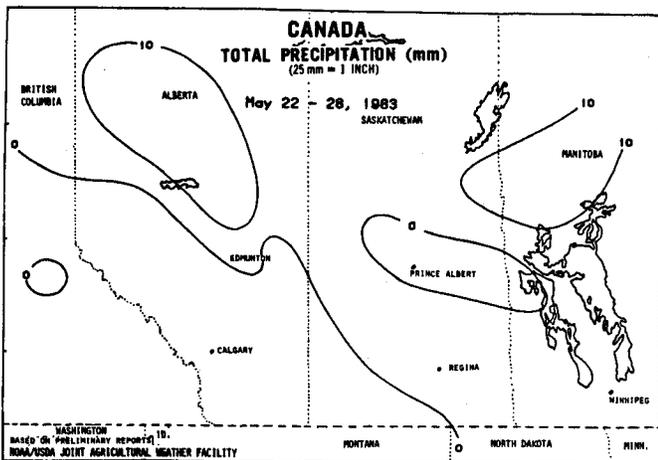


1. UNITED STATES ... Intermittent dry weather allows rapid planting of crops in the Corn Belt and the Texas High Plains. Prolonged wetness further delays fieldwork in the Delta States. The western heat wave melts some snowpack, causing local flooding of farmlands.
2. USSR ... Hot, dry weather stresses major grain producing areas in southeast European USSR. Cool, wet weather improves topsoil moisture in the New Lands, but possibly delays spring seeding.
3. EUROPE ... Heavy rains continue to aggravate flood conditions in France, Belgium, and West Germany. Wet weather relieves a dry period, benefiting winter grains in the filling period in the southeast.
4. SOUTH ASIA ... Persistent storms in the northern wheat area hamper harvesting. Premonsoon showers accumulations in the south are below normal, possibly indicating a delayed monsoon.
5. EAST ASIA ... Persistent heavy rains on the south coast delay rice planting. Significant rain benefits eastern wheat and cotton. Additional moisture in the northeast would aid spring wheat.
6. AUSTRALIA ... Persistent heavy rains in the east damage mature crops, severely stress livestock, and force replanting of early wheat. Conditions still too dry for wheat planting in the west.
7. NORTHWESTERN AFRICA ... Weather benefits maturing winter grains and early harvest activity.
8. SOUTH AMERICA ... In Brazil, the soybean harvest resumes after several dry days, but showers late in the week slow progress again. Moisture conditions generally favor planting in Argentina's wheat areas, while northern crop areas dry out.
9. MEXICO ... Beneficial rains finally arrive over southern, central, and northeastern areas as Hurricane Adolph weakens, moves inland around Mazatlan, and spreads showers northeastward.
10. SOUTHEAST ASIA ... Showers substantially increase over most of the area. Corn and rice planting should be under way.
11. CANADA ... Warm, dry weather aids spring crop planting in the Prairies. Alberta nearly finishes crop planting, but Saskatchewan catches up from 1-2 week plantings delays.



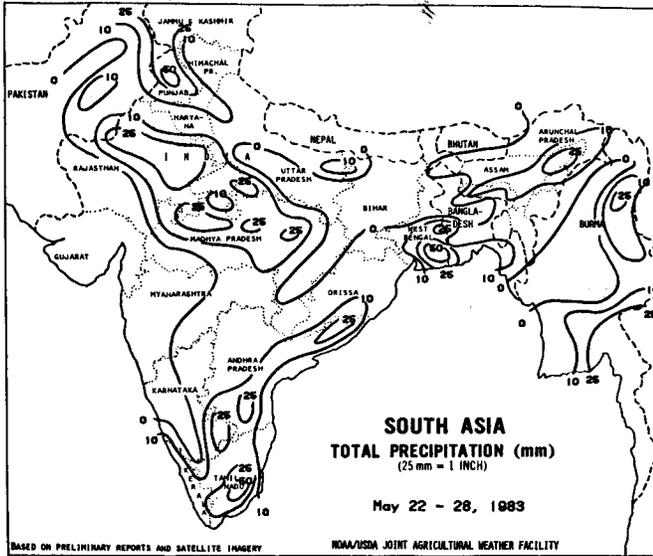
USSR...Wet weather covered crop areas in the Baltic States, Belorussia, and the western and northern Ukraine. The moisture benefited winter grains, in the heading stage in the Ukraine, as well as summer crops in the vegetative stage. In contrast, hot, dry weather covered crop areas in the eastern Ukraine, the southern half of the Volga Valley, the Black Soils, and the North Caucasus. Daily maximum temperatures, on most days around 32°C, increased evaporation from topsoils, stressing newly emerged summer crops such as corn, sunflowers, and sugarbeets. The adverse weather also stressed winter wheat, normally in the heading stage, particularly in the south. In general, weekly temperatures were above normal over the entire region.

In the New Lands, rain showers (10-25 mm) covered spring wheat areas of northern Kazakhstan, while both rain and snow fell on in the eastern half of Western Siberia. Elsewhere, light precipitation fell over spring wheat areas in the Urals with amounts less than 10 mm. Spring seeding is currently underway in most areas, but the cold, wet weather in the eastern New Lands likely delayed seeding. Overall, the precipitation increased soil moisture supplies needed for proper germination and early growth. Weekly temperatures remained several degrees below normal over most of the region.

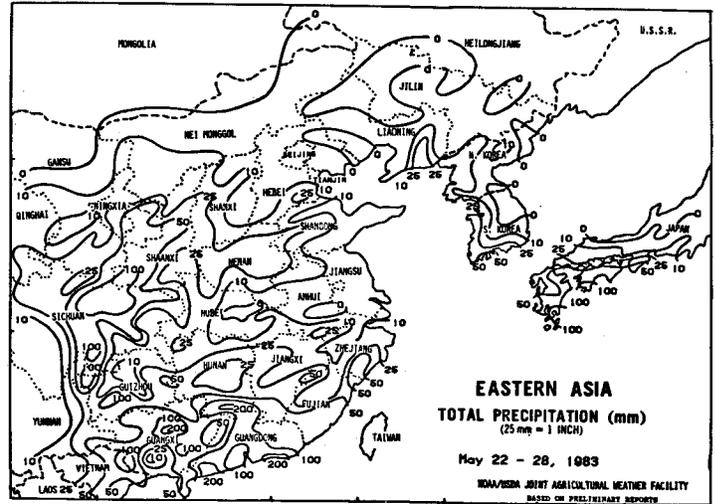


CANADA...Mostly dry weather covered the Prairie Provinces as scattered showers produced only minimal rainfall, except in extreme northwestern crop areas of Alberta. Warmer weather improved field conditions for spring crop planting and aided emergence of newly sown crops. The cool, wet spring has delayed planting and crop development, especially in the eastern two-thirds of the Canadian Prairies. In general, planting progress has been 1-2 weeks behind the normal pace in Saskatchewan and Manitoba, while crop seeding in Alberta has advanced toward near completion. In Saskatchewan, where about 60 percent of the total spring wheat crop is produced, more favorable weather during the week helped speed the sowing pace with 25-35 percent of the wheat still to be planted.

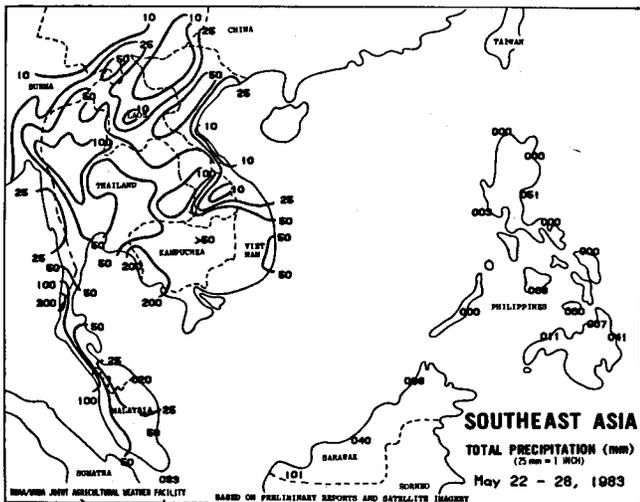
EUROPE...Drier weather covered England during the week, but the heavy precipitation pattern continued in eastern France, West Germany, and Belgium. Several locations reported precipitation amounts as high as 100 mm. The rain in these areas flooded fields, particularly those along rivers and tributaries. Fields in other areas are waterlogged, and planting delays continue in many areas. In southeastern Europe, wet weather relieved a dry period in Yugoslavia, Romainia, Bulgaria, and part of southern Italy, benefiting winter wheat in the filling period. Elsewhere, mostly dry weather covered crops in Spain and Greece. Weekly temperatures were generally below normal in most areas except the southeast, where they were above normal.



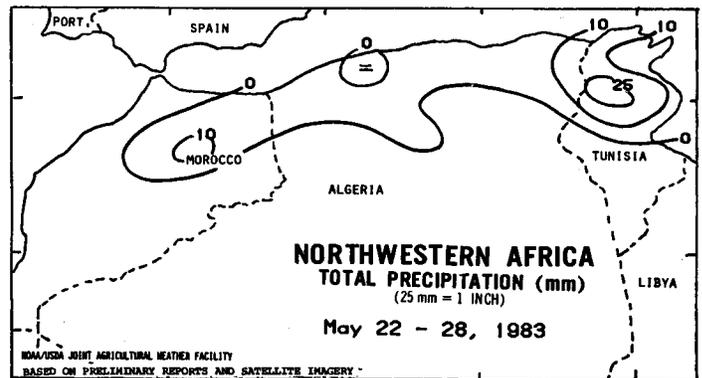
SOUTH ASIA... Unusually heavy rain and hail persists in localized northwestern wheat areas of India; however, the crop has been harvested and threshed. Generally light to moderate rainfall covered northeastern India, benefiting summer rice in the heading stage. Premonsoon showers continue in peninsular India; however, accumulations are below normal in the east and much below normal along the southwest coast. Monsoon rains usually arrive in southern India in early June, which coincides with summer crop planting. Seasonably warm temperatures continue to deplete topsoil moisture, thus, good summer crop emergence is dependent on the consistent monsoon rains.



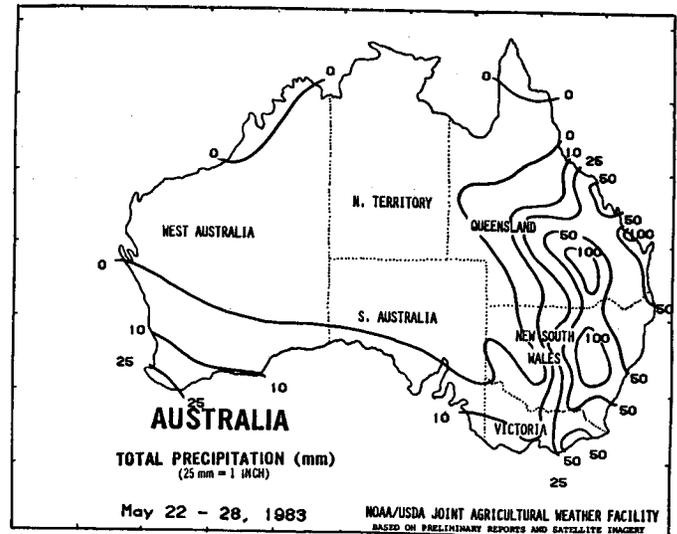
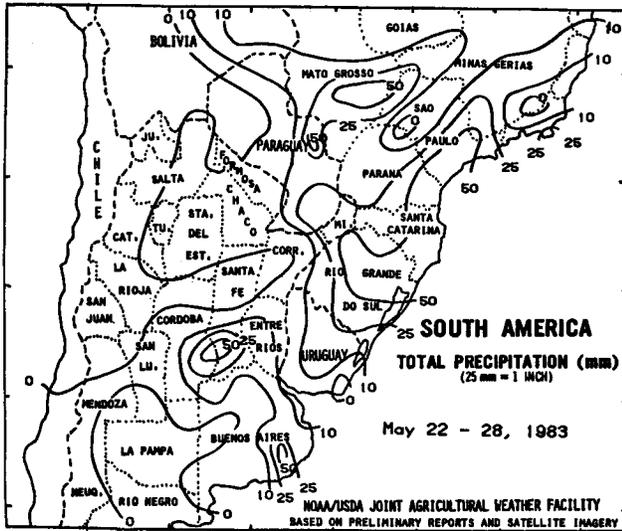
EAST ASIA... Heavy rain continues to fall on the southern coastal provinces of China, further delaying rice planting. Extremely heavy amounts (greater than 200 mm) fell in Guangdong but just outside of the main paddy area. The Yangtze Valley was relatively dry again this week, but irrigation moisture is available. A band of precipitation, falling from the Sichuan Basin through Shaanxi and into parts of Henan, benefited winter wheat in the late heading stage and cotton in the vegetation stage. The remainder of the North China Plain, as well as the Manchurian Plain, was relatively dry. Additional moisture in the Manchurian Plain would be favorable for spring wheat nearing the heading stage and emerging corn and soybeans.



SOUTHEAST ASIA... Shower activity showed a marked increase as widespread, soaking rains covered most of Indochina throughout the week. The late arrival of premonsoon showers possibly delayed corn and rice planting, which usually begins in early May. However, with the recent moisture, planting should be well under way. Heavy precipitation (greater than 100 mm) fell over northeastern Thailand, raising reservoir levels. Heavy rains also fell on southern Thailand and western Malaysia, where accumulations have been below normal. Substantial rains also benefited southern Laos, Vietnam, and Kampuchea. Light showers fell on much of the Philippines, with a few localized areas benefiting from heavier amounts (40-50 mm).

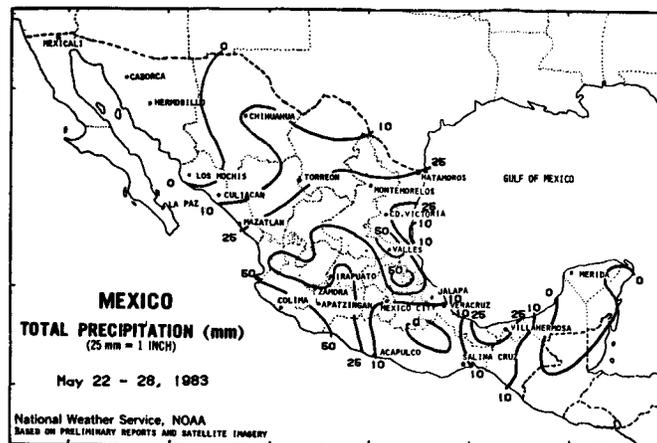


NORTHWESTERN AFRICA... Generally dry weather covered winter grains in western Morocco, northern Algeria, and northern Tunisia on most days during the week. The dry weather aided maturing grains as well as early harvest activity. Weekly temperatures were below normal in most areas.



SOUTH AMERICA...Mostly dry weather during the first several days of the week allowed harvesting of the rain-damaged soybean crop to resume in Rio Grande do Sul. However, rain moved into the area again late in the week, further interfering with the harvest. Heavy showers fell in eastern portions of Parana and Sao Paulo, but most of the coffee/citrus areas, where harvesting is now underway, should have escaped excessive rains. Favorable moisture earlier in the growing season aided coffee and citrus crop development. In Argentina, dry weather aided cleanup work in the flood-ravaged cotton, sorghum, and rice areas of the northeast. Showers covered most wheat areas, but rainfall was mostly light except for isolated heavy showers along the borders of Cordoba and Santa Fe. The long planting season for wheat is well underway as cool autumnlike weather moved into the area.

AUSTRALIA...Persistent heavy rains continued for the second consecutive week over eastern Australia, inundating crop areas of southeastern Queensland and New South Wales. The rains and floods have severely affected the mature cotton. Livestock have also suffered as flooding has stranded sheep and cattle which already had limited feed supplies due to the earlier drought. Early-planted wheat in Queensland, which usually produces less than 10 percent of the total wheat crop, was likely washed out, forcing replanting. Ample moisture will be available for wheat planting in the major producing state of New South Wales. Light showers fell during the week in southern and western crop areas. Substantial rains are needed for wheat planting in Western Australia.



MEXICO...The rainy season finally began over central and southern Mexico as Hurricane Adolph weakened and moved inland around Mazatlan. Rains from the system were heaviest along the southwest coast, averaging over 50 mm. Moisture from Adolph also supported a wide band of rainfall of over 25 mm which extended into the Northeast. The rains especially benefited central and northeastern areas where drought heavily stressed field crops, orchards, and rangeland vegetation.

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National Weather Summary (continued from front cover)

in West Virginia and in upper Michigan. Above-normal temperatures covered most of the Plains and all of the West. Record-high temperatures were reported over the central Plateau.

SATURDAY...It was unseasonably cool over most of the East, but the warm spell continued in the West. Temperatures rose above 90° from the Southwest northward through Washington and Oregon into Canada. Traces of rain fell in the West, but most of the East experienced light, occasionally moderate, showers and thunderstorms. High winds and hail accompanied thunderstorms in many areas from Texas and eastern Colorado to northern Alabama and Georgia, northward through the Great Lakes and through the Appalachians to Pennsylvania and Maryland.

National Agricultural Summary (continued from p. 11)

PASTURES AND LIVESTOCK: Pastures and ranges were in fair to mostly good condition. Ample soil moisture maintained heavy growth in most areas. Livestock continued returning to summer pastures. However, cool temperatures has limited grass growth in the higher elevations in the West. Herds remained in fair to good condition.

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