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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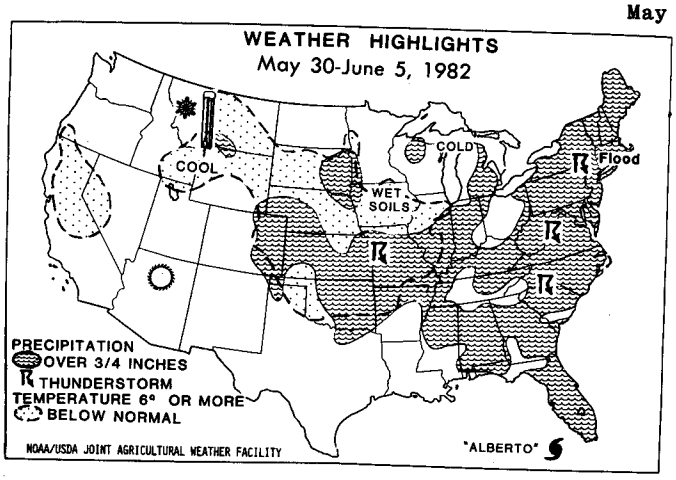
National Weather Summary

May 30-June 5



HIGHLIGHTS: Cooler-than-normal temperatures prevailed over most of the United States. The central Plains and northern High Plains were 9 to 12° cooler than normal. Only the east and southern coasts were near or warmer than average. Little or no rain fell from southern Mississippi through most of Texas and the Southwest. However, thunderstorms produced heavy rain in the central Plains, the Ohio and Tennessee Valleys, throughout the east coast States, and Alabama.

SUNDAY...Frequent, widespead showers and thunderstorms were over the central Plains and the middle and upper Mississippi Valley. Heavy downpours fell through most of Oklahoma, eastern Kansas, and Missouri. Showers and thunderstorms were not as frequent through the Ohio Valley, and from Alabama to New England to the the east coast. Severe weather continued to plague the central portion of the Nation with tornadoes, hail, and high wind. Snow over the northern Rockies tapered off, but light, cold rain continued over the northern High Plains.

MONDAY...A cold front moved slowly eastward and spread thunderstorms through the middle Mississippi Valley and throughout the Nation east of the Mississippi River. Only a few light showers were scattered over the northern Plains. No rain fell over Nebraska, most of Iowa, and Minnesota. Tornadoes, heavy rain, hail, and high wind were more frequent from southern Illinois into Michigan. A few showers developed over the northern and central Rockies.

TUESDAY...Showers and thunderstorms developed along and ahead of the cold front through the upper Ohio Valley and the east coast States. Cool weather spread over the Nation behind the front, but unusually warm weather continued from southwestern Texas to southern California. Skies were mostly sunny through the Mississippi Valley and northern Plains. However, a new storm produced showers over the northern Rockies, and thunderstorms developed over the central High Plains.

WEDNESDAY...Thunderstorms returned to the Central United States after a very short respite. Farther east, a cold front continued to trigger showers and thunderstorms through New England and in Florida. Most of the Nation was cool, but warm weather continued along the east coast and across the South.

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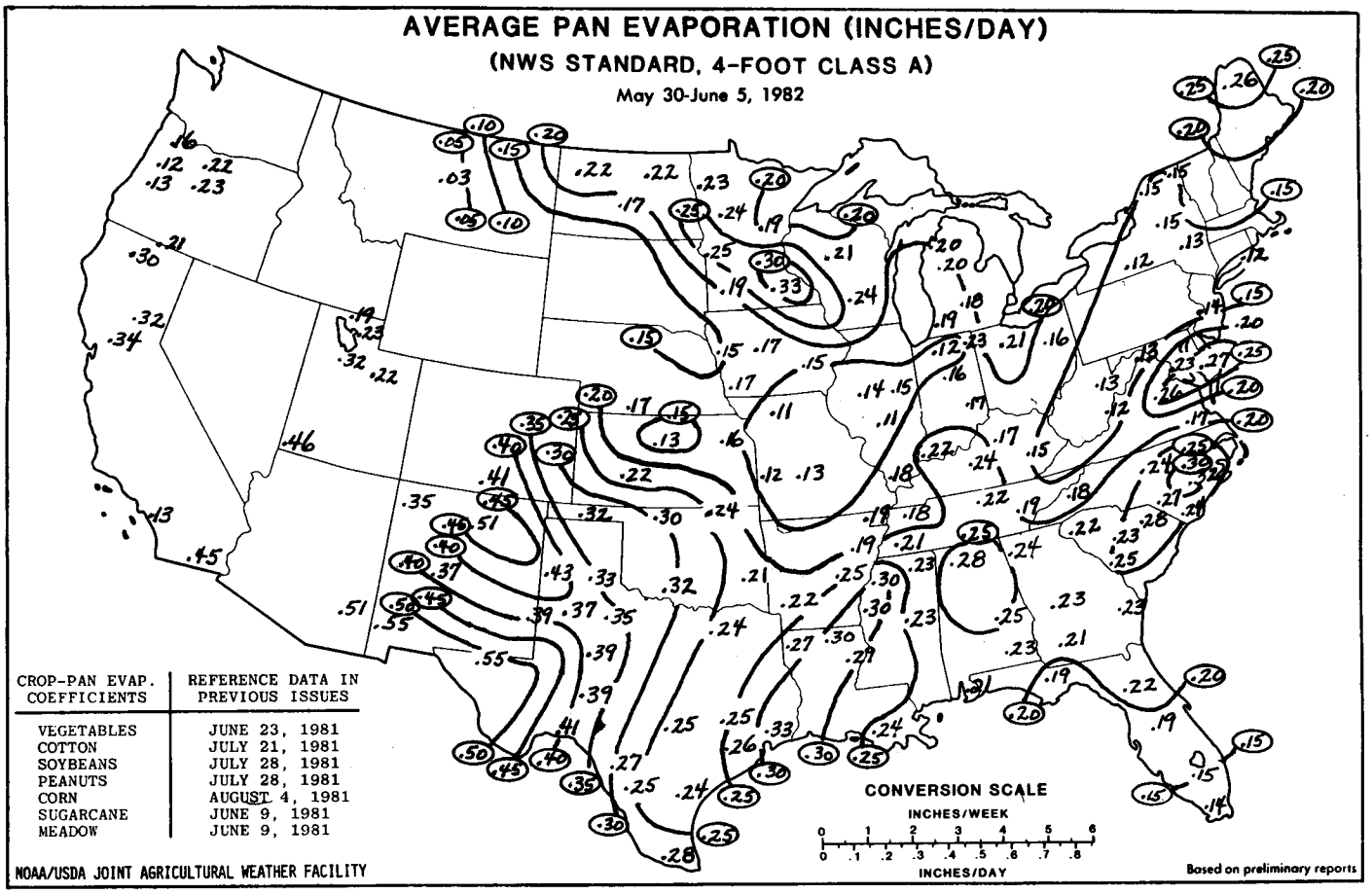
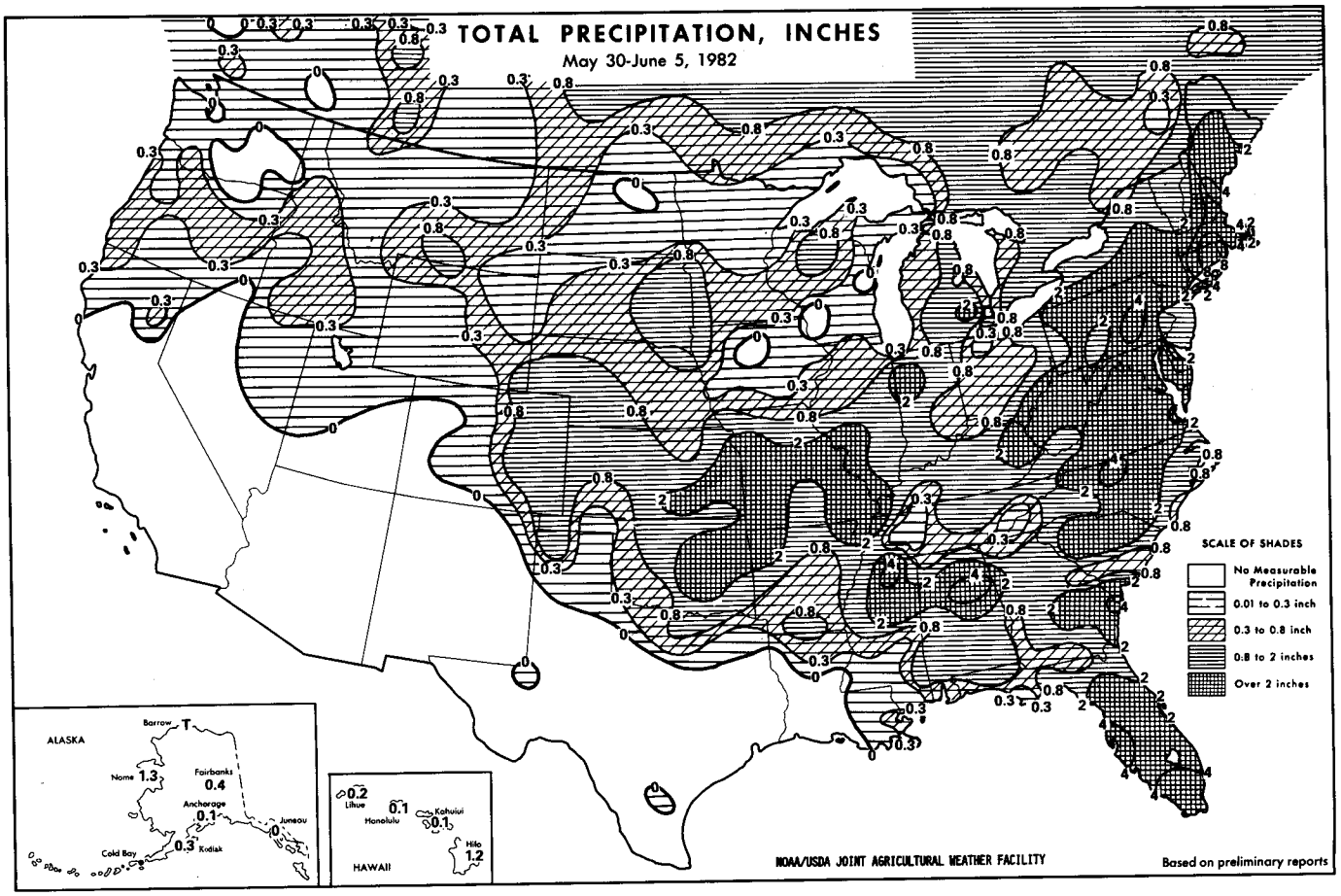
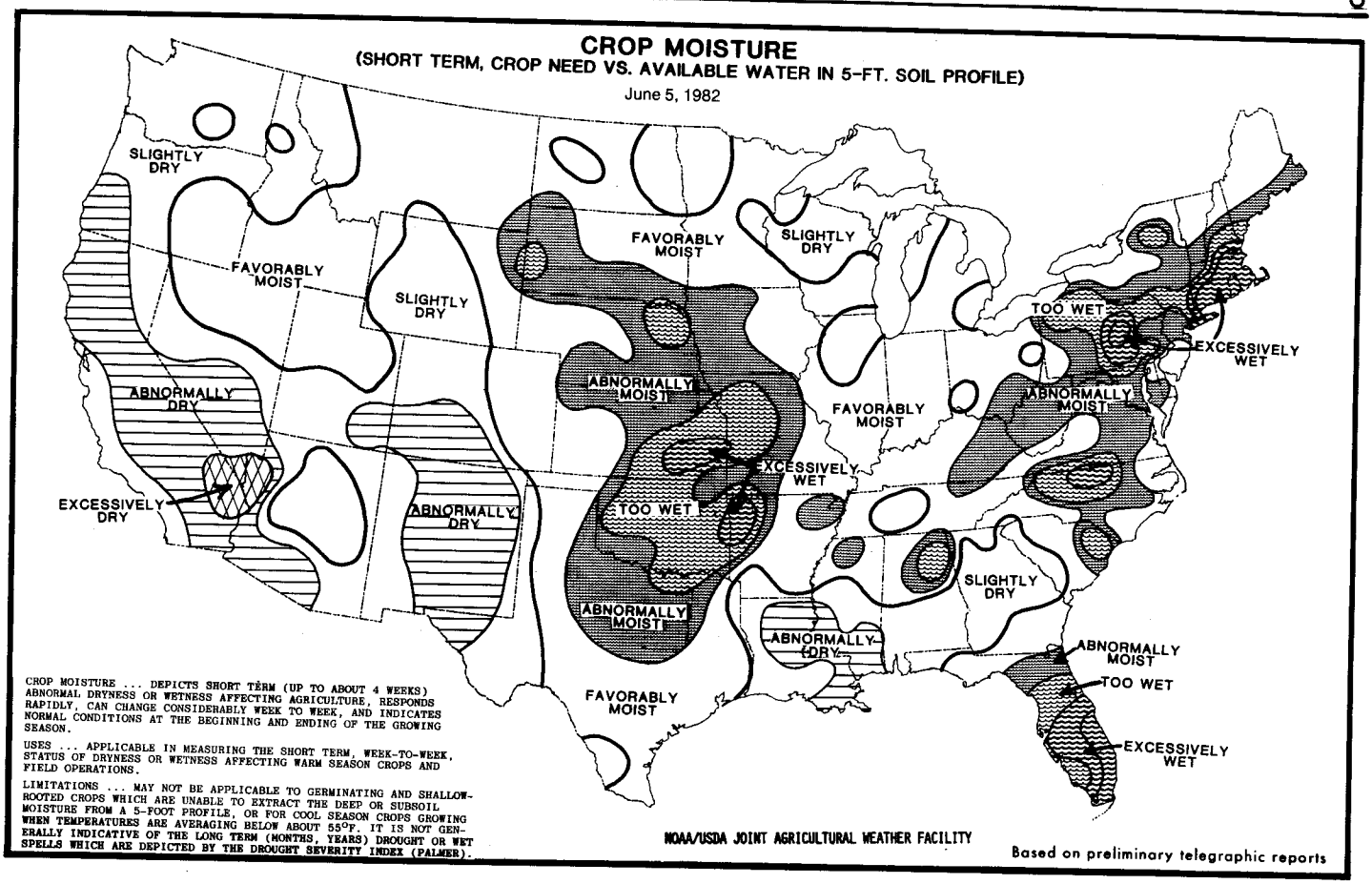
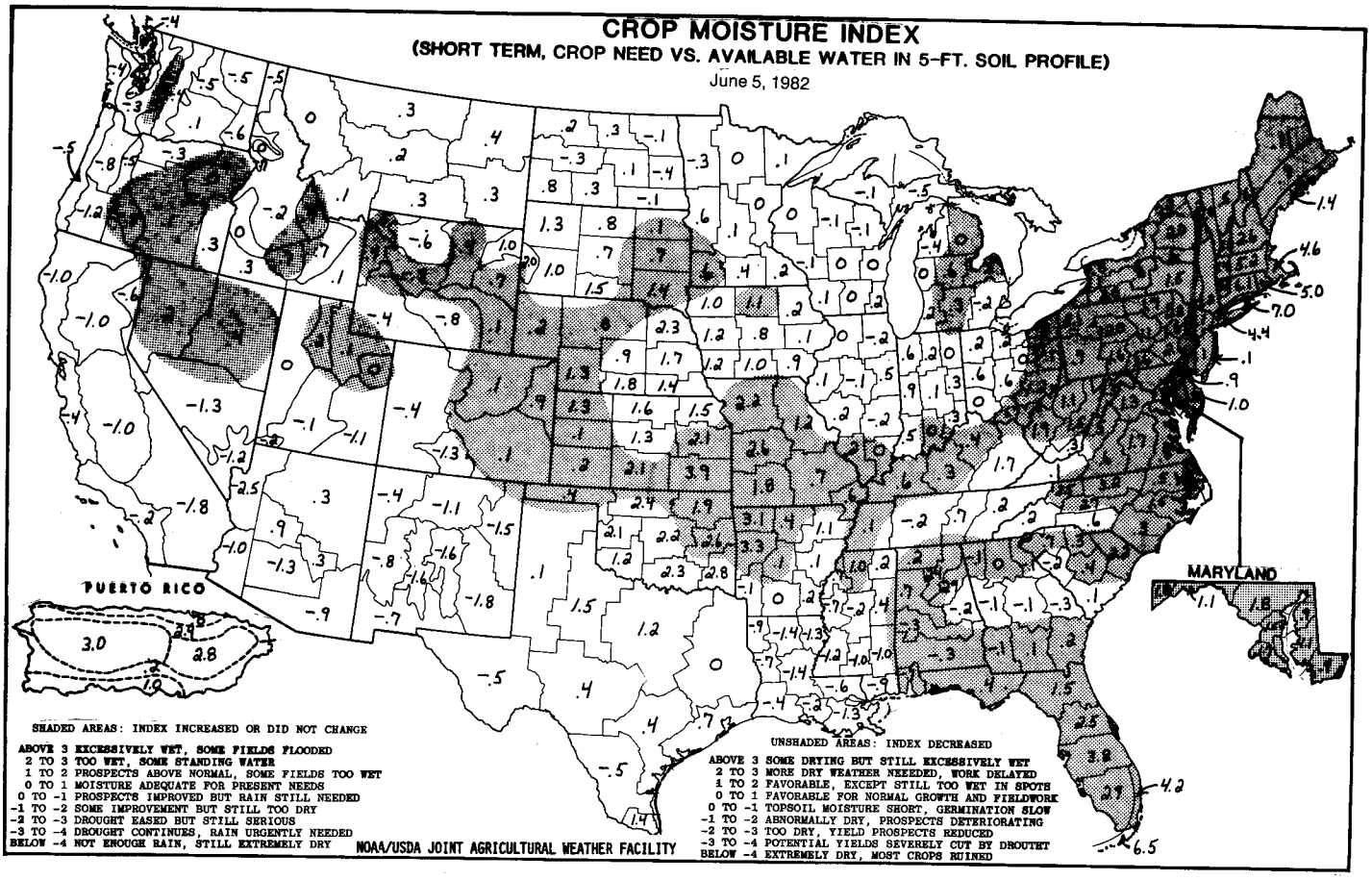
PRICE INCREASE

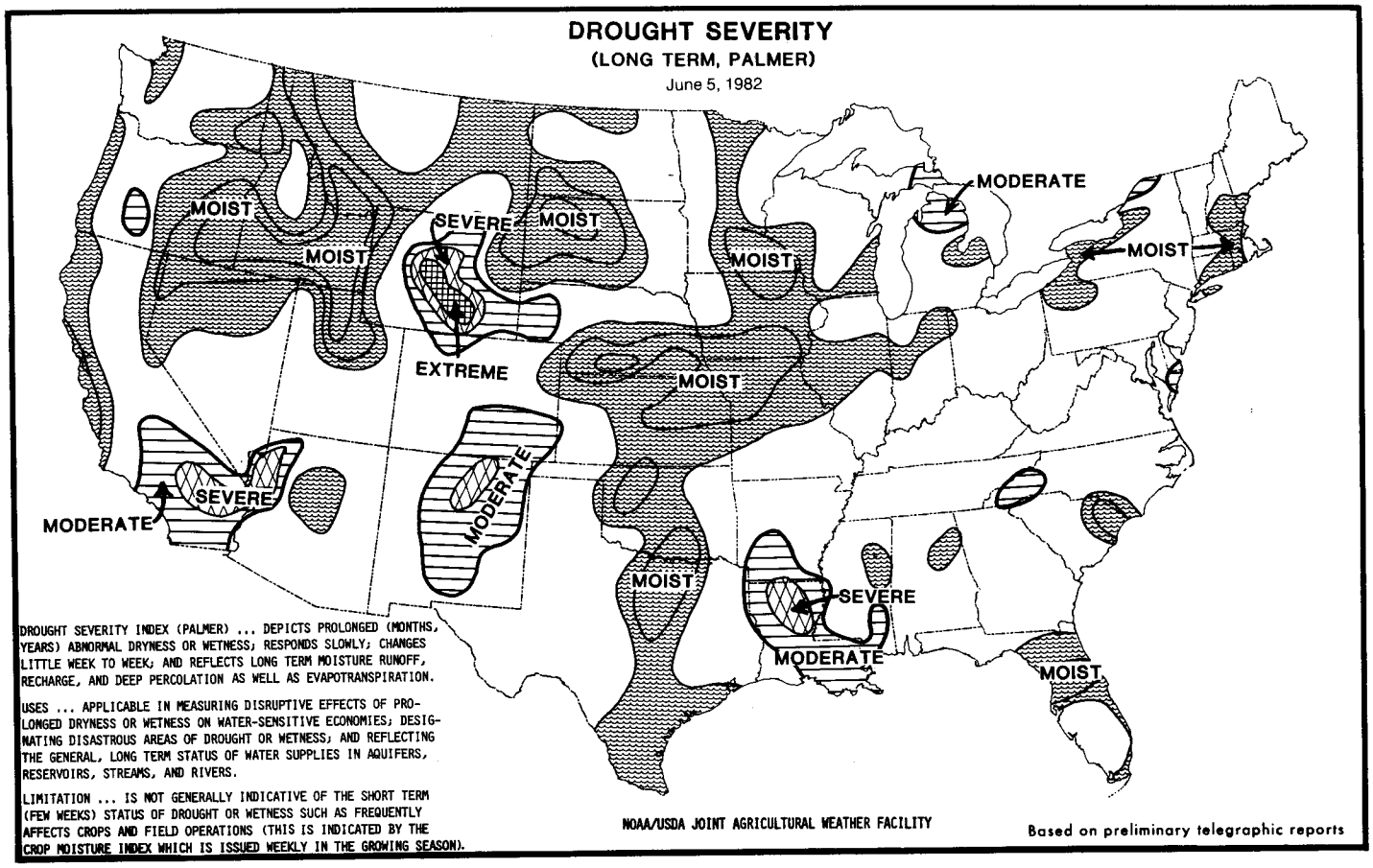
Due to increased printing costs and budgetary limitations, the price of the Weekly Weather and Crop Bulletin will be increased to $25 for domestic and $33 for foreign subscriptions on July 1, 1982.

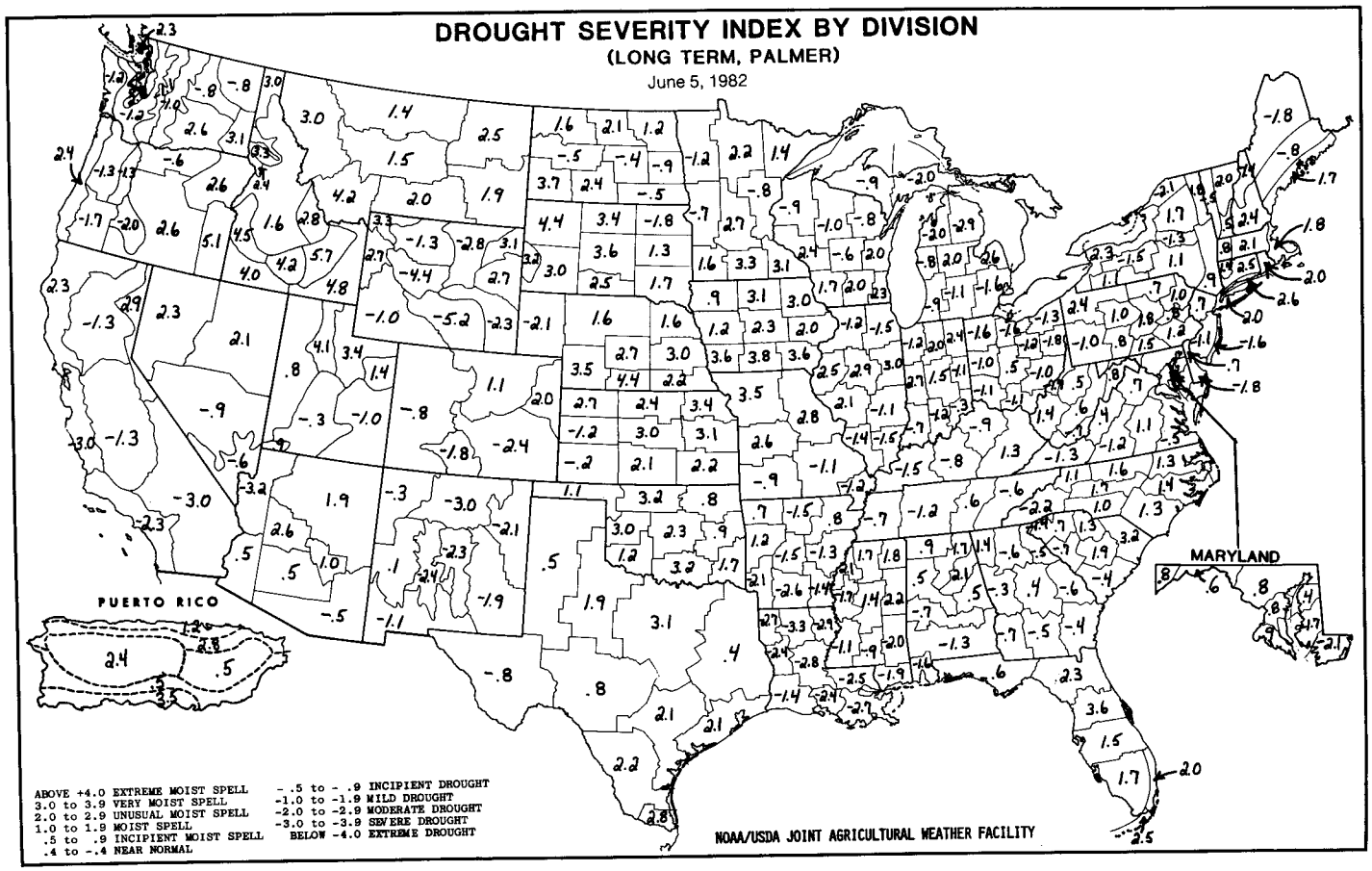

AVERAGE PAN EVAPORATION (INCHES/DAY)
(NWS STANDARD, 4-FOOT CLASS A)
May 30-June 5, 1982
CROP-PAN EVAP. COEFFICIENTS
REFERENCE DATA IN PREVIOUS ISSUES
VEGETABLES JUNE 23, 1981
COTTON JULY 21, 1981
SOYBEANS JULY 28, 1981
PEANUTS JULY 28, 1981
CORN AUGUST 4, 1981
SUGARCANE JUNE 9, 1981
MEADOW JUNE 9, 1981
CONVERSION SCALE
INCHES/WEEK
INCHES/DAY
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

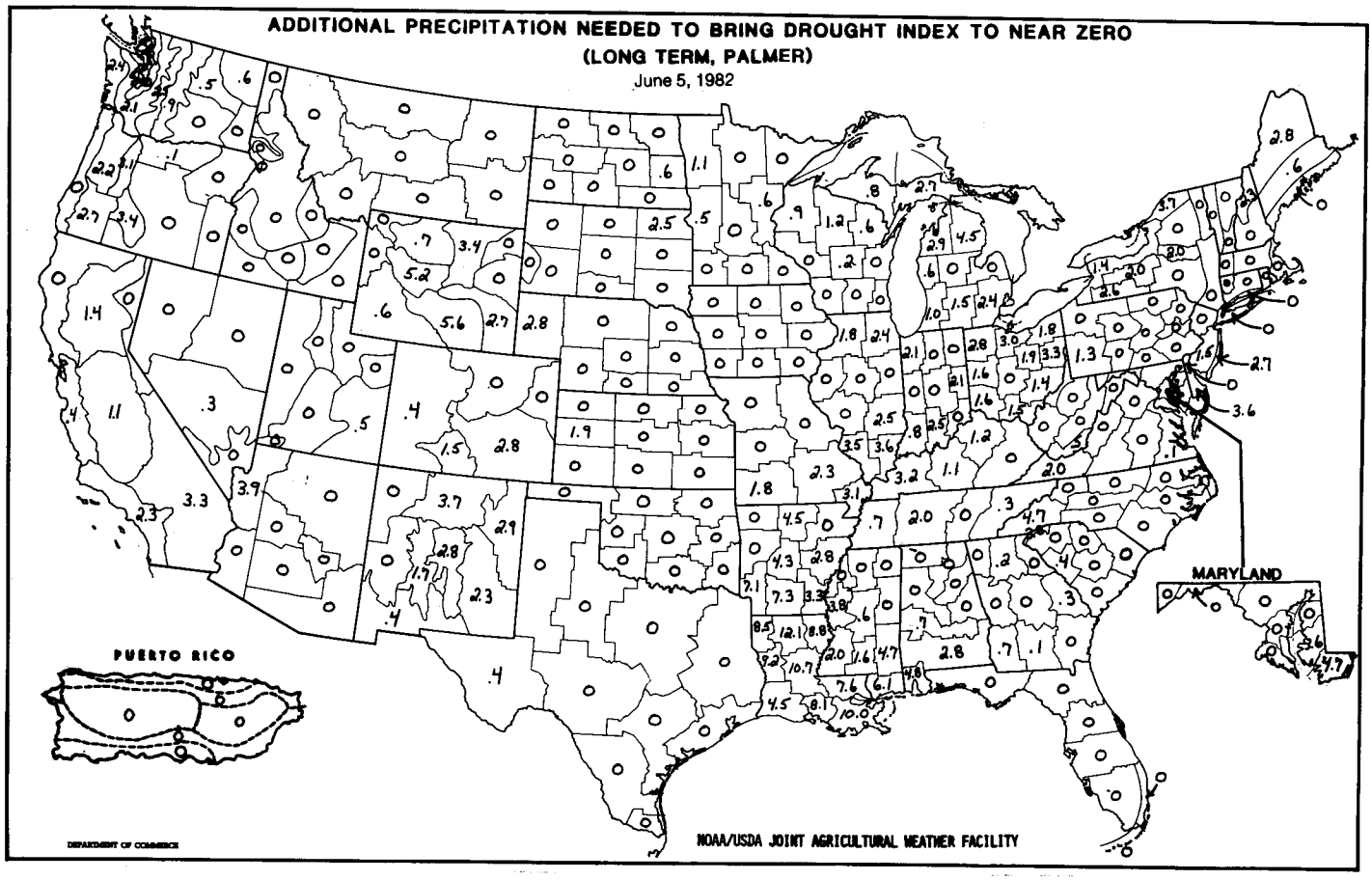

TOTAL PRECIPITATION, INCHES
May 30-June 5, 1982
SCALE OF SHADES
No Measurable Precipitation
0.01 to 0.3 inch
0.3 to 0.8 inch
0.8 to 2 inches
Over 2 inches
ALASKA
Barrow T
Nome 1.3
Fairbanks 0.4
Anchorage 0.1
Juneau 0
Cold Bay 0.3
Kodiak
Lihue 0.2
Honolulu 0.1
Kahului 0.1
Hilo 1.2
HAWAII
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

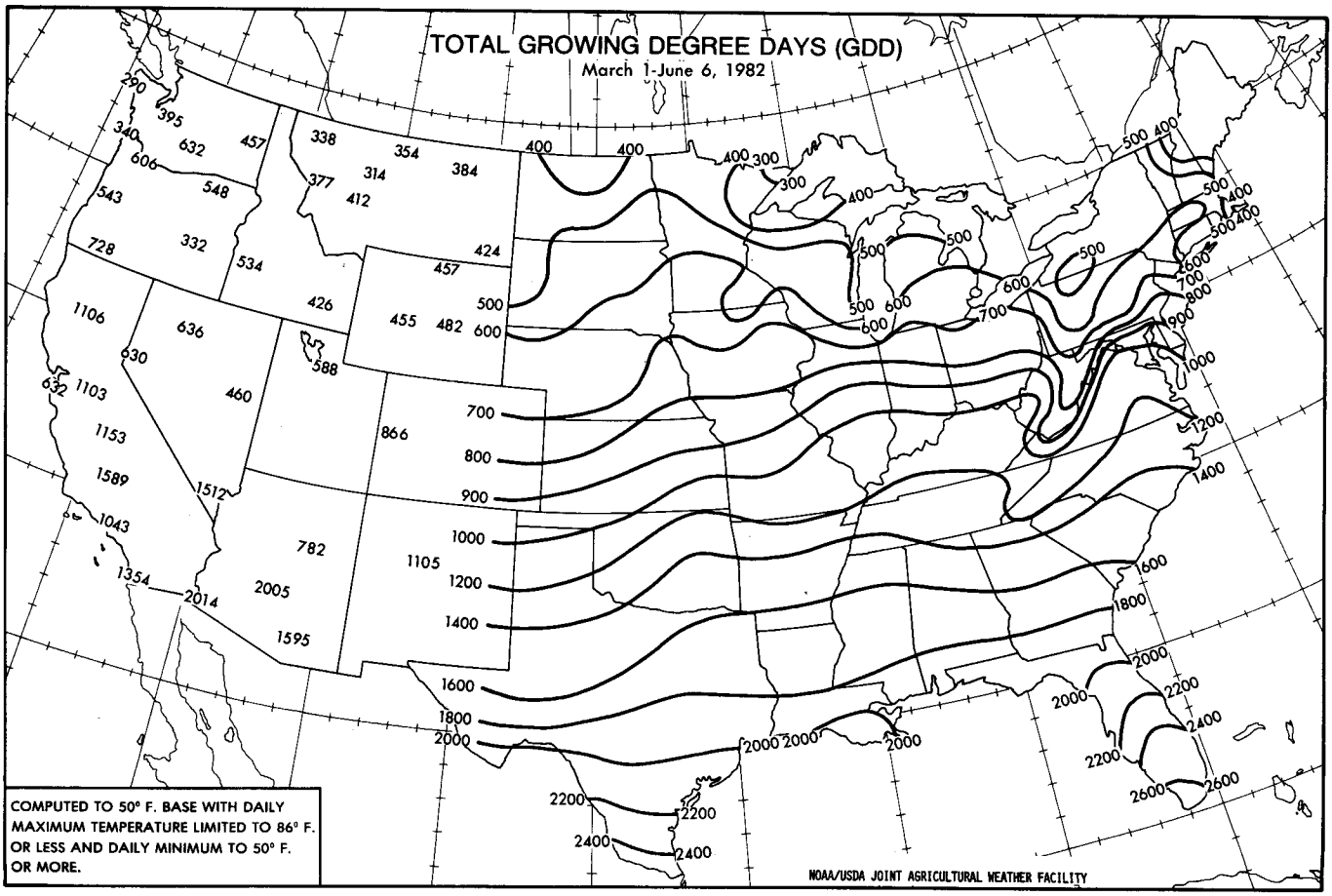

CROP MOISTURE
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
June 5, 1982
SLIGHTLY DRY
FAVORABLY MOIST
SLIGHTLY DRY
FAVORABLY MOIST
SLIGHTLY DRY
TOO WET
EXCESSIVELY WET
ABNORMALLY DRY
ABNORMALLY MOIST
FAVORABLY MOIST
ABNORMALLY MOIST
EXCESSIVELY WET
EXCESSIVELY DRY
ABNORMALLY DRY
TOO WET
SLIGHTLY DRY
ABNORMALLY MOIST
ABNORMALLY DRY
ABNORMALLY MOIST
TOO WET
FAVORABLY MOIST
EXCESSIVELY WET
CROP MOISTURE ... DEPICTS SHORT TERM (UP TO ABOUT 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND ENDING OF THE GROWING SEASON.
USES ... APPLICABLE IN MEASURING THE SHORT TERM, WEEK-TO-WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS.
LIMITATIONS ... MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW-ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55°F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX (PALMER).
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports

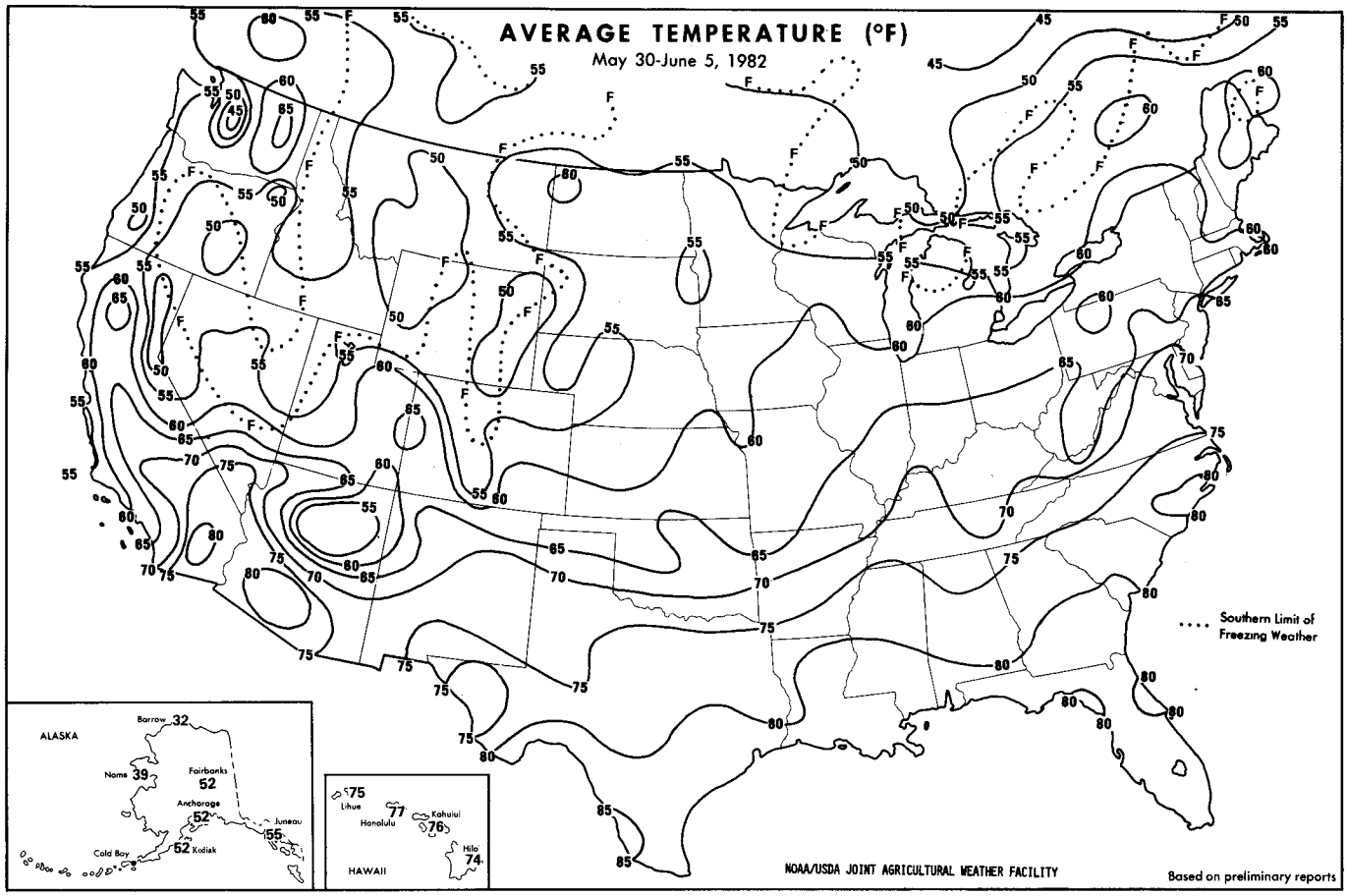

CROP MOISTURE INDEX
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
June 5, 1982
PUERTO RICO
MARYLAND
SHADED AREAS: INDEX INCREASED OR DID NOT CHANGE
ABOVE 3 EXCESSIVELY WET, SOME FIELDS FLOODED
2 TO 3 TOO WET, SOME STANDING WATER
1 TO 2 PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0 TO 1 MOISTURE ADEQUATE FOR PRESENT NEEDS
0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1 TO -2 SOME IMPROVEMENT BUT STILL TOO DRY
-2 TO -3 DROUGHT EASED BUT STILL SERIOUS
-3 TO -4 DROUGHT CONTINUES, RAIN URGENTLY NEEDED
BELOW -4 NOT ENOUGH RAIN, STILL EXTREMELY DRY
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
UNSHADED AREAS: INDEX DECREASED
ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
2 TO 3 MORE DRY WEATHER NEEEDED, WORK DELAYED
1 TO 2 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 TO -1 TOPSOIL MOISTURE SHORT, GERMINATION SLOW
-1 TO -2 ABNORMALLY DRY, PROSPECTS DETERIORATING
-2 TO -3 TOO DRY, YIELD PROSPECTS REDUCED
-3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DROUTHT
BELOW -4 EXTREMELY DRY, MOST CROPS RUINED

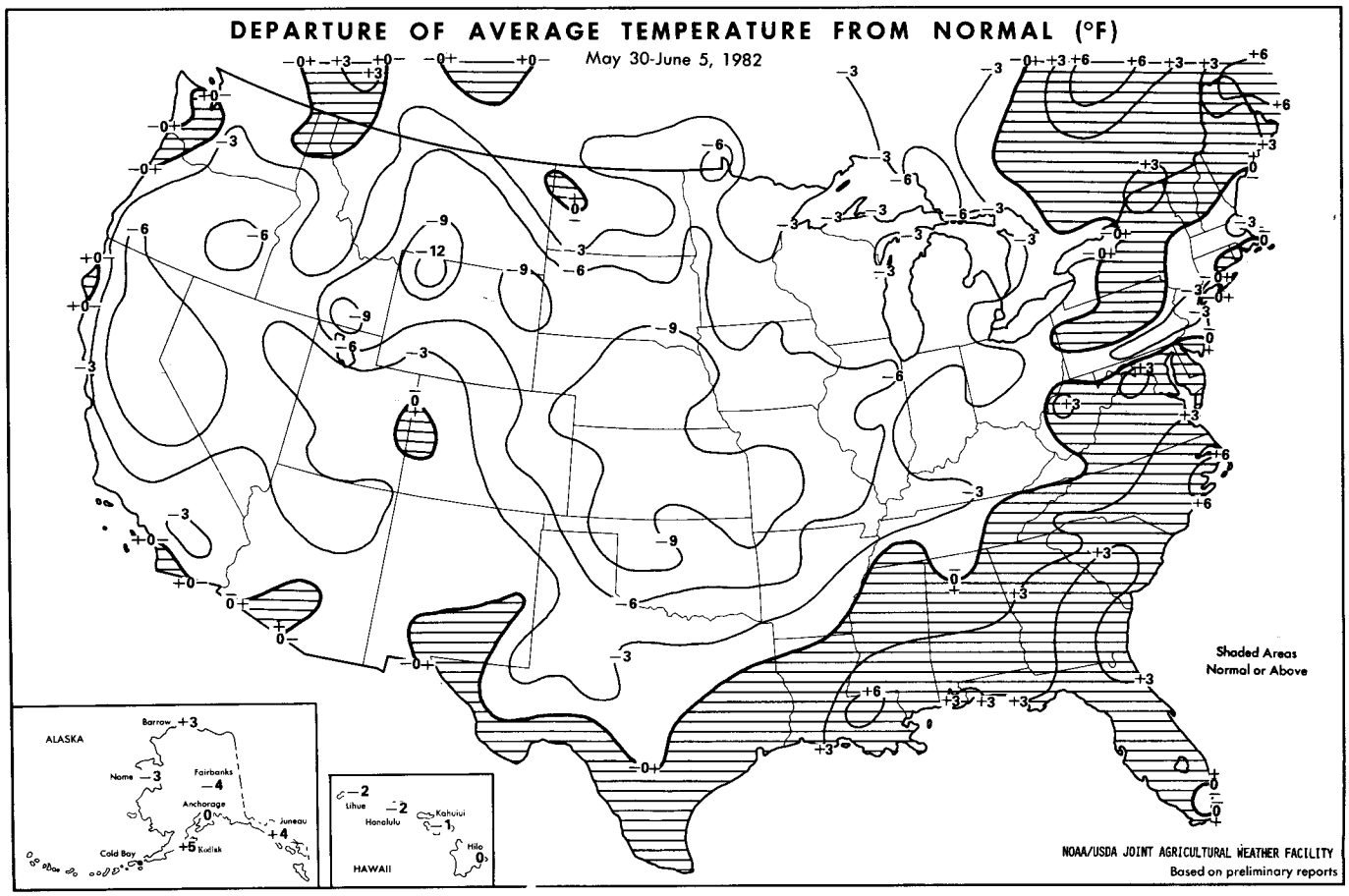

DROUGHT SEVERITY
(LONG TERM, PALMER)
June 5, 1982
MOIST
MOIST
SEVERE
MOIST
MOIST
MODERATE
MOIST
EXTREME
MOIST
SEVERE
MODERATE
MODERATE
MOIST
SEVERE
MODERATE
MOIST
DROUGHT SEVERITY INDEX (PALMER) ... DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS; RESPONDS SLOWLY; CHANGES LITTLE WEEK TO WEEK; AND REFLECTS LONG TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION AS WELL AS EVAPOTRANSPIRATION.
USES ... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER-SENSITIVE ECONOMIES; DESIGNATING DISASTROUS AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL, LONG TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS, STREAMS, AND RIVERS.
LIMITATION ... IS NOT GENERALLY INDICATIVE OF THE SHORT TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX WHICH IS ISSUED WEEKLY IN THE GROWING SEASON).
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports


DROUGHT SEVERITY INDEX BY DIVISION
(LONG TERM, PALMER)
June 5, 1982
PUERTO RICO
MARYLAND
ABOVE +4.0 EXTREME MOIST SPELL
3.0 to 3.9 VERY MOIST SPELL
2.0 to 2.9 UNUSUAL MOIST SPELL
1.0 to 1.9 MOIST SPELL
.5 to .9 INCIPIENT MOIST SPELL
.4 to -.4 NEAR NORMAL
-.5 to -.9 INCIPIENT DROUGHT
-1.0 to -1.9 MILD DROUGHT
-2.0 to -2.9 MODERATE DROUGHT
-3.0 to -3.9 SEVERE DROUGHT
BELOW -4.0 EXTREME DROUGHT
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY


ADDITIONAL PRECIPITATION NEEDED TO BRING DROUGHT INDEX TO NEAR ZERO
(LONG TERM, PALMER)
June 5, 1982
MARYLAND
PUERTO RICO
DEPARTMENT OF COMMERCE
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY


TOTAL GROWING DEGREE DAYS (GDD)
March 1-June 6, 1982
COMPUTED TO 50° F. BASE WITH DAILY MAXIMUM TEMPERATURE LIMITED TO 86° F. OR LESS AND DAILY MINIMUM TO 50° F. OR MORE.
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY


AVERAGE TEMPERATURE (°F)
May 30-June 5, 1982
Southern Limit of Freezing Weather
ALASKA
Barrow 32
Nome 39
Fairbanks 52
Anchorage 52
Juneau 55
Cold Bay
52 Kodiak
HAWAII
Lihue 75
Honolulu 77
Kahului 76
Hilo 74
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)
May 30-June 5, 1982
Shaded Areas Normal or Above
ALASKA
Barrow +3
Nome −3
Fairbanks −4
Anchorage 0
Juneau +4
Cold Bay
+5 Kodiak
HAWAII
Lihue −2
Honolulu −2
Kahului −1
Hilo 0
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

Weather Data for the Week Ending June 5, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	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 May 30	PCT. NORMAL SINCE May 30	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	85	65	95	58	75	0	6.1	5.3	2.9	6.1	763	32.0	135	96	57	2	0	5	3
MOBILE	90	71	98	69	81	2	.6	- .5	.5	.6	55	25.4	100	83	50	4	0	3	0
MONTGOMERY	88	70	91	65	79	3	1.3	.5	1.1	1.3	163	31.3	147	85	52	2	0	4	1
AK ANCHORAGE	60	43	64	38	52	0	.1	- .1	T	.1	50	2.1	64	77	40	0	0	2	0
BARROW	34	29	38	25	32	3	T	0	T	0	+100	1.7	155	98	86	0	6	3	0
FAIRBANKS	63	41	69	33	52	-4	.4	.1	.2	.4	133	3.4	126	85	35	0	0	3	0
JUNEAU	67	43	76	38	55	4	0	- .7	0	0	0	18.1	108	80	39	0	0	0	0
KODIAK	60	45	67	42	52	5	.3	- .8	.3	.3	27	22.9	106	89	55	0	0	1	0
NOME	42	35	48	32	39	-3	1.3	1.2	.5	1.3	1300	6.9	177	89	66	0	1	7	1
AZ PHOENIX	98	70	100	68	84	3	0	0	0	0	+100	3.6	150	24	6	7	0	0	0
PRESCOTT	81	49	84	45	65	0	0	0	0	0	+100	6.4	112	34	8	0	0	0	0
TUCSON	94	59	97	56	77	-1	0	0	0	0	+100	3.4	121	20	4	7	0	0	0
YUMA	96	66	100	62	81	-1	0	0	0	0	+100	1.6	160	37	11	7	0	0	0
AR FORT SMITH	77	59	90	50	68	-7	1.3	.2	.7	1.3	118	21.1	108	94	64	1	0	3	1
LITTLE ROCK	80	62	93	54	71	-4	.5	- .4	.3	.5	56	25.2	109	82	55	1	0	3	0
CA BAKERSFIELD	83	57	88	55	70	-3	0	0	0	0	+100	4.3	116	55	19	0	0	0	0
EUREKA	60	48	62	45	54	0	.2	- .1	.2	.2	67	23.8	110	87	61	0	0	1	0
FRESNO	80	50	83	49	65	-6	0	- .1	0	0	0	8.3	132	87	24	0	0	0	0
LOS ANGELES	68	55	69	53	62	-1	0	0	0	0	+100	8.6	115	83	58	0	0	0	0
RED BLUFF	78	51	83	46	65	-7	0	- .1	0	0	0	11.0	88	81	29	0	0	0	0
SACRAMENTO	74	47	78	44	61	-7	0	- .1	0	0	0	18.0	155	87	35	0	0	0	0
SAN DIEGO	71	62	73	60	67	2	0	0	0	0	+100	9.0	161	78	53	0	0	0	0
SAN FRANCISCO	62	50	66	49	56	-4	0	0	0	0	+100	22.5	201	77	54	0	0	0	0
CO DENVER	68	47	82	43	57	-5	.6	.1	.3	.6	120	3.7	55	84	40	0	0	4	0
GRAND JUNCTION	82	53	86	44	68	1	T	- .1	T	0	0	2.4	69	39	10	0	0	0	0
PUEBLO	76	51	88	47	63	-4	.8	.5	.3	.8	267	3.5	80	91	38	0	0	4	0
CT BRIDGEPORT	69	55	78	50	62	-2	6.9	6.3	4.3	6.9	1150	23.9	154	90	68	0	0	5	3
HARTFORD	72	56	76	48	64	0	8.1	7.3	6.0	8.1	1013	25.2	149	90	61	0	0	5	2
DC WASHINGTON	80	65	88	60	73	1	3.7	2.8	1.1	3.7	411	19.2	129	86	56	0	0	5	4
FL APALACHICOLA	88	72	95	70	80	2	.3	- .6	.3	.3	33	21.4	122	89	64	1	0	1	0
DAYTONA BEACH	86	72	91	70	79	1	2.5	1.4	1.2	2.5	227	21.3	158	94	66	1	0	5	2
JACKSONVILLE	90	73	96	71	82	4	1.9	.7	.9	1.9	158	16.7	102	99	63	4	0	5	1
KEY WEST	85	77	87	73	81	-2	6.7	5.8	3.2	6.7	744	19.8	200	91	75	0	0	5	2
MIAMI	84	74	89	71	79	-1	6.0	4.1	2.6	6.0	316	27.5	166	95	74	0	0	6	3
ORLANDO	89	73	92	69	81	2	3.0	1.8	1.6	3.0	250	20.0	140	97	63	4	0	5	2
TALLAHASSEE	90	72	94	70	81	3	.9	- .3	.4	.9	75	21.6	97	99	58	5	0	4	0
TAMPA	86	74	88	71	80	0	5.8	4.8	2.5	5.8	580	17.3	126	99	70	0	0	5	3
WEST PALM BEACH	85	75	88	74	80	1	2.6	.9	.7	2.6	153	37.4	213	94	74	0	0	6	3
GA ATLANTA	86	65	93	58	76	2	1.6	.8	.8	1.6	200	25.7	114	92	50	1	0	4	2
AUGUSTA	88	65	92	61	77	1	.3	- .5	.3	.3	38	16.6	90	98	57	2	0	2	0
MACON	91	69	95	65	80	3	1.3	.4	.8	1.3	144	24.3	123	96	54	6	0	4	1
SAVANNAH	89	71	94	68	80	3	4.0	2.8	2.7	4.0	333	19.8	113	94	57	4	0	4	2
HI HILO	82	67	85	63	74	0	1.2	- .5	.4	1.2	71	83.5	148	87	64	0	0	4	0
HONOLULU	85	68	86	65	77	-2	.1	0	.1	.1	100	20.4	173	78	48	0	0	2	0
KAHULUI	84	68	86	61	76	-1	.1	0	.1	.1	100	20.4	196	81	51	0	0	1	0
LIHUE	83	66	84	64	75	-2	.2	- .2	.1	.2	50	38.2	194	91	60	0	0	3	0
ID BOISE	70	45	79	37	58	-3	T	- .3	T	0	0	5.5	87	76	24	0	0	2	0
LEWISTON	68	47	76	40	58	-4	T	- .4	T	0	0	5.2	93	77	37	0	0	0	0
POCATELLO	65	39	73	31	52	-6	.1	- .3	T	.1	25	6.6	116	91	33	0	1	3	0
IL CHICAGO	68	49	80	43	59	-5	.2	- .7	.2	.2	22	12.3	100	92	53	0	0	1	0
MOLINE	72	51	80	44	61	-6	.5	- .4	.3	.5	56	14.2	115	90	49	0	0	2	0
PEORIA	72	52	80	47	62	-5	.4	- .5	.2	.4	44	17.4	123	89	56	0	0	3	0
QUINCY	67	52	72	48	60	-11	1.2	.1	.5	1.2	109	16.2	—	95	68	0	0	3	0
ROCKFORD	73	51	82	44	62	-3	.3	- .6	.3	.3	33	13.2	100	88	49	0	0	1	0
SPRINGFIELD	73	54	81	50	64	-5	1.0	.1	.5	1.0	111	17.1	130	94	64	0	0	4	0
IN EVANSVILLE	81	61	88	53	71	0	1.1	.2	.8	1.1	122	23.6	122	94	50	0	0	4	1
FORT WAYNE	72	55	81	48	63	-2	1.3	.4	1.2	1.3	144	19.5	132	88	54	0	0	3	1
INDIANAPOLIS	75	57	81	49	66	-2	.7	- .3	.6	.7	70	20.3	124	87	54	0	0	3	1
SOUTH BEND	69	53	79	47	61	-3	.6	- .2	.3	.6	75	16.0	118	87	57	0	0	5	0
IA DES MOINES	71	51	75	45	61	-6	.1	- 1.1	.1	.1	8	17.5	148	82	47	0	0	2	0
SIOUX CITY	67	47	74	40	57	-10	1.0	- .1	.7	1.0	91	11.4	119	89	53	0	0	2	1
WATERLOO	71	49	79	45	60	-5	.1	- 1.0	.1	.1	9	13.8	121	87	44	0	0	2	0
KS CONCORDIA	68	53	75	44	61	-8	.7	- .5	.7	.7	58	13.6	136	94	65	0	0	3	1
DODGE CITY	69	54	79	50	61	-8	.7	0	.6	.7	100	6.3	90	86	59	0	0	4	1
GOODLAND	67	49	84	46	58	-7	1.6	1.0	.9	1.6	267	8.1	142	93	64	0	0	5	2
TOPEKA	68	53	74	45	60	-10	1.6	.3	1.0	1.6	123	15.1	124	95	66	0	0	5	1
WICHITA	72	55	87	46	63	-8	2.5	1.6	1.2	2.5	278	15.0	152	85	56	0	0	4	2
KY BOWLING GREEN	78	58	88	51	68	-5	.8	0	.4	.8	100	21.0	93	99	58	0	0	3	0
LEXINGTON	76	59	85	52	68	-2	.9	0	.4	.9	100	16.6	85	90	57	0	0	3	0
LOUISVILLE	76	60	85	56	68	-2	1.0	0	.6	1.0	100	19.1	95	91	55	0	0	2	1
LA ALEXANDRIA	93	69	95	63	81	2	0	- 1.1	0	0	0	17.5	—	75	39	6	0	0	0
BATON ROUGE	94	75	95	70	84	6	T	- .8	T	0	0	21.0	90	92	50	7	0	1	0
LAKE CHARLES	90	71	93	67	80	2	0	- 1.1	0	0	0	16.7	78	98	56	4	0	0	0
NEW ORLEANS	92	75	95	71	83	5	.5	- .5	.2	.5	50	20.6	90	93	56	6	0	3	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending June 5, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	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 May 30	PCT. NORMAL SINCE May 30	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	88	68	92	60	78	1	T	- .9	T	0	0	14.3	67	95	51	4	0	0	0
ME CARIBOU	73	52	81	35	62	6	.9	.2	.9	.9	129	12.6	108	90	49	0	0	1	1
PORTLAND	64	51	71	46	57	-1	3.3	2.5	2.2	3.3	413	21.0	124	93	72	0	0	6	2
MD BALTIMORE	78	62	86	55	70	1	2.7	1.9	1.4	2.7	338	18.6	116	93	62	0	0	5	2
SALISBURY	82	63	89	53	72	3	2.2	1.4	.7	2.2	275	18.4	108	99	57	0	0	5	2
MA BOSTON	66	55	77	54	61	-3	6.2	5.4	2.9	6.2	775	21.6	119	94	64	0	0	5	3
CHATHAM	64	54	72	52	59	--	.4	--	.2	.4	--	18.2	--	94	76	0	0	4	0
MI ALPENA	66	40	79	29	53	-3	1.1	.5	.8	1.1	183	8.8	91	97	46	0	2	2	1
DETROIT	72	53	83	47	62	-2	.3	- .5	.2	.3	38	12.5	99	85	55	0	0	3	0
FLINT	70	53	83	48	62	0	1.0	.3	.6	1.0	143	8.5	77	91	56	0	0	3	1
GRAND RAPIDS	72	50	82	43	61	-2	.9	.1	.4	.9	113	12.8	106	91	52	0	0	3	0
HOUGHTON LAKE	69	44	78	31	56	-2	.7	0	.5	.7	100	11.1	117	92	46	0	1	2	0
LANSING	69	51	80	46	60	-3	1.0	.2	.9	1.0	125	9.0	74	95	58	0	0	2	1
MARQUETTE	63	38	72	27	50	-4	.1	- .9	.1	.1	10	13.6	116	92	42	0	2	1	0
MUSKEGON	70	46	77	39	58	-4	.5	- .1	.2	.5	83	13.4	113	88	51	0	0	3	0
SAULT STE. MARIE	64	34	74	26	49	-6	.2	- .6	.2	.2	25	13.7	132	99	48	0	4	2	0
MN ALEXANDRIA	66	46	73	42	56	-4	.2	- .7	.2	.2	22	9.6	120	84	36	0	0	1	0
DULUTH	64	40	74	30	52	-3	.1	- .8	.1	.1	11	11.0	113	81	37	0	1	1	0
INT'L FALLS	67	41	76	32	54	-2	.3	- .5	.2	.3	38	7.8	105	92	45	0	1	4	0
MINNEAPOLIS	70	47	78	41	59	-4	.3	- .6	.3	.3	33	11.4	136	78	36	0	0	1	0
ROCHESTER	69	45	79	40	57	-5	.7	- .3	.7	.7	70	14.8	161	87	44	0	0	1	1
MS GREENWOOD	88	69	95	63	79	1	1.0	.2	.6	1.0	125	25.5	--	91	54	1	0	3	1
JACKSON	91	69	95	62	80	3	.4	- .4	.4	.4	50	22.2	98	96	47	5	0	1	0
MERIDIAN	92	69	94	63	80	4	.3	- .5	.3	.3	38	23.8	102	90	48	5	0	2	0
MO CAPE GIRARDEAU	78	60	89	53	69	-3	2.8	1.8	1.9	2.8	280	25.8	137	97	59	0	0	3	2
COLUMBIA	70	54	79	46	62	-8	2.3	1.2	.9	2.3	209	16.4	117	96	69	0	0	5	2
KANSAS CITY	67	53	73	44	60	-9	3.3	2.1	1.8	3.3	275	19.4	152	99	69	0	0	5	2
SAINT LOUIS	73	57	84	52	65	-6	2.2	1.2	1.3	2.2	220	18.0	124	98	62	0	0	3	2
SPRINGFIELD	72	54	90	47	63	-7	2.5	1.4	.6	2.5	227	17.0	108	95	70	1	0	5	3
MT BILLINGS	61	42	70	32	52	-7	.5	- .1	.4	.5	83	7.7	122	85	43	0	1	3	0
GLASGOW	67	42	76	33	55	-4	.2	- .4	.1	.2	33	6.0	182	84	38	0	0	2	0
GREAT FALLS	60	40	68	30	50	-7	.1	- .6	.1	.1	14	8.9	137	76	41	0	1	2	0
HAVRE	63	42	70	27	53	-6	T	- .5	T	0	0	5.9	137	74	37	0	1	1	0
HELENA	64	38	70	31	51	-5	.1	- .5	T	.1	17	5.5	125	83	35	0	1	3	0
KALISPELL	65	38	72	30	52	-2	.3	- .3	.2	.3	50	7.6	123	93	45	0	2	3	0
MILES CITY	67	43	79	32	55	-6	.5	- .2	.5	.5	71	5.1	100	87	37	0	1	2	1
MISSOULA	65	42	71	33	54	-2	.2	- .3	.1	.2	40	8.4	162	90	42	0	0	3	0
NE GRAND ISLAND	66	48	71	39	57	-10	.4	- .6	.4	.4	40	15.7	174	91	57	0	0	1	0
LINCOLN	68	49	72	41	58	-10	.5	- .6	.5	.5	45	11.9	121	84	55	0	0	1	0
NORFOLK	66	48	72	41	57	-9	.6	- .5	.5	.6	55	13.0	146	85	49	0	0	2	1
NORTH PLATTE	63	44	69	36	54	-10	1.0	.2	.5	1.0	125	9.5	136	97	64	0	0	4	0
OMAHA	68	50	74	42	59	-7	.3	- .9	.3	.3	25	15.7	150	86	60	0	0	1	0
SCOTTSBLUFF	64	47	80	42	55	-7	.9	.2	.6	.9	129	5.0	82	96	56	0	0	5	1
VALENTINE	64	45	77	33	54	-9	.6	- .2	.5	.6	75	7.9	125	84	47	0	0	3	0
NV ELY	67	33	75	28	50	-3	T	- .2	T	0	0	6.0	154	71	20	0	4	2	0
LAS VEGAS	90	63	94	59	76	-2	0	0	0	0	+100	1.8	113	25	8	4	0	0	0
RENO	71	34	75	32	52	-6	T	- .1	T	0	0	3.2	82	68	18	0	2	0	0
WINNEMUCCA	73	35	83	28	54	-4	T	- .3	T	0	0	2.4	55	64	17	0	2	0	0
NH CONCORD	69	51	73	42	60	-1	3.5	2.8	2.4	3.5	500	17.9	133	91	58	0	0	6	2
NJ ATLANTIC CITY	78	60	87	52	69	2	1.4	.7	1.0	1.4	200	15.2	86	93	61	0	0	5	1
NM ALBUQUERQUE	87	51	92	48	69	-2	0	- .1	0	0	0	1.9	86	37	6	1	0	0	0
CLOVIS	86	57	98	51	71	1	0	- .6	0	0	0	2.9	--	78	23	3	0	0	0
ROSWELL	90	57	101	51	74	0	0	- .3	0	0	0	1.6	46	66	16	4	0	0	0
NY ALBANY	71	55	80	46	63	-1	2.2	1.5	1.7	2.2	314	15.7	127	90	57	0	0	4	1
BINGHAMTON	70	53	77	49	62	1	2.5	1.7	.7	2.5	313	16.2	114	95	62	0	0	7	3
BUFFALO	68	53	75	46	60	-1	1.6	1.1	1.3	1.6	320	18.1	129	95	62	0	0	4	1
NEW YORK	69	59	79	58	64	-4	.8	.1	.5	.8	114	16.3	100	95	68	0	0	5	1
ROCHESTER	71	55	80	48	63	0	1.7	1.0	.9	1.7	243	11.9	94	90	64	0	0	4	2
SYRACUSE	71	55	82	50	63	0	1.8	1.1	.7	1.8	257	13.8	96	99	66	0	0	4	2
NC ASHEVILLE	83	61	89	59	72	4	.8	- .1	.5	.8	89	22.2	122	100	60	0	0	4	0
CHARLOTTE	86	67	92	65	77	3	1.0	.2	.5	1.0	125	20.1	114	95	53	1	0	3	1
GREENSBORO	82	63	90	60	72	1	4.2	3.4	2.0	4.2	525	23.2	144	99	70	1	0	4	3
HATTERAS	83	71	85	68	77	6	.6	- .4	.3	.6	60	26.3	145	98	70	0	0	3	0
NEW BERN	90	72	96	68	81	6	.9	- .2	.3	.9	82	18.8	97	88	51	3	0	5	0
RALEIGH	87	66	93	62	76	5	3.1	2.3	1.3	3.1	388	23.3	144	92	55	2	0	5	3
WILMINGTON	88	70	91	65	79	4	.5	- .6	.2	.5	45	20.4	116	94	59	2	0	4	0
ND BISMARCK	68	44	76	36	56	-4	.1	- .7	.1	.1	13	6.8	124	84	39	0	0	1	0
FARGO	66	45	75	33	55	-6	.2	- .5	.2	.2	29	5.5	87	75	39	0	0	1	0
GRAND FORKS	67	43	78	33	55	-5	T	- .7	T	0	0	5.9	98	87	43	0	0	1	0
WILLISTON	73	46	82	38	60	1	.3	- .3	.3	.3	50	6.2	122	93	40	0	0	3	0
OH AKRON-CANTON	73	55	82	49	64	-1	.6	- .3	.3	.6	67	15.2	103	88	59	0	0	3	0
CINCINNATI	76	59	83	53	67	-2	.7	- .1	.6	.7	88	20.0	113	82	52	0	0	2	1
CLEVELAND	71	54	83	47	63	-2	1.2	.4	.8	1.2	150	14.5	100	92	63	0	0	3	1
COLUMBUS	74	55	82	46	65	-2	.4	- .5	.3	.4	44	17.6	108	96	65	0	0	3	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending June 5, 1982

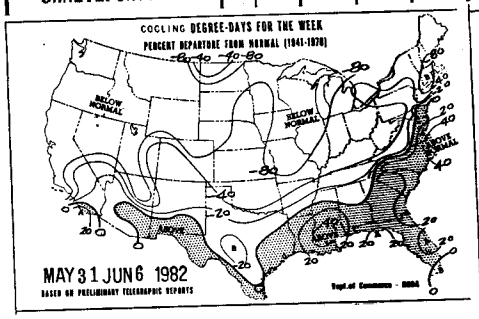
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE May 30	PCT. NORMAL SINCE May 30	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	74	56	83	50	65	-2	.6	- .4	.4	.6	60	20.5	132	90	58	0	0	3	0
TOLEDO	71	52	82	43	61	-4	.3	- .5	.2	.3	38	12.6	102	93	62	0	0	2	0
YOUNGSTOWN	72	54	82	50	63	0	1.5	.7	1.3	1.5	188	15.5	99	96	64	0	0	3	1
OK OKLAHOMA CITY	74	55	88	48	64	-9	1.5	.3	.6	1.5	125	21.9	167	95	60	0	0	4	2
TULSA	75	59	92	51	67	-6	2.9	1.7	1.7	2.9	242	18.1	121	88	60	1	0	4	1
OR ASTORIA	60	48	69	46	54	0	.1	- .5	.1	.1	17	39.1	129	87	63	0	0	3	0
BURNS	59	36	64	29	48	-8	.7	.5	.4	.7	350	5.7	100	—	—	0	1	4	0
MEDFORD	70	45	82	40	58	-3	.1	- .2	.1	.1	33	8.3	86	81	35	0	0	1	0
PENDLETON	67	49	79	42	58	-4	T	- .3	T	0	0	4.9	83	63	29	0	0	0	0
PORTLAND	68	50	84	48	59	0	.8	.3	.4	.8	160	19.5	112	84	40	0	0	2	0
SALEM	68	48	84	42	58	-1	.2	- .2	.1	.2	50	19.7	99	79	43	0	0	3	0
PA ALLENTOWN	72	57	78	50	64	-1	1.8	1.0	.7	1.8	225	18.0	108	100	70	0	0	6	2
ERIE	67	53	78	47	60	-1	2.7	1.9	2.1	2.7	338	16.0	116	87	61	0	0	4	1
HARRISBURG	69	57	82	52	63	-5	4.3	3.4	2.4	4.3	478	20.8	136	100	72	0	0	4	2
PHILADELPHIA	77	60	84	55	69	0	1.8	1.0	.6	1.8	225	21.9	146	95	57	0	0	5	2
PITTSBURGH	72	56	80	53	64	-1	1.4	.5	1.0	1.4	156	16.6	109	96	64	0	0	4	1
SCRANTON	71	57	78	48	64	0	3.8	3.0	2.9	3.8	475	18.3	144	95	68	0	0	6	1
RI PROVIDENCE	70	56	76	51	63	1	7.2	6.5	3.0	7.2	1029	25.3	146	99	66	0	0	5	3
SC CHARLESTON	87	71	91	70	79	3	.7	- .5	.3	.7	58	16.6	97	94	60	1	0	4	0
COLUMBIA	88	67	93	64	78	1	2.6	1.8	1.5	2.6	325	20.9	114	99	55	2	0	4	2
FLORENCE	88	70	91	67	79	3	3.7	2.9	2.0	3.7	463	21.1	131	93	50	1	0	4	2
GREENVILLE	84	67	90	61	75	2	2.1	1.3	.8	2.1	263	26.2	126	92	58	1	0	4	2
SD ABERDEEN	67	48	71	40	58	-4	—	—	—	—	—	—	—	84	47	0	0	0	0
HURON	67	47	73	41	57	-6	.9	0	.9	.9	100	9.0	127	83	50	0	0	1	1
RAPID CITY	61	42	73	33	52	-8	.6	- .2	.2	.6	75	10.1	140	87	56	0	0	6	0
SIOUX FALLS	67	45	72	40	56	-8	1.1	.1	1.1	1.1	110	8.7	96	90	52	0	0	1	1
TN CHATTANOOGA	84	63	92	55	74	0	.3	- .4	.2	.3	43	25.1	107	90	46	2	0	3	0
KNOXVILLE	81	64	88	59	73	0	.3	- .5	.2	.3	38	26.4	128	98	58	0	0	2	0
MEMPHIS	83	68	92	61	76	0	1.6	.8	.9	1.6	200	28.7	121	86	55	1	0	4	1
NASHVILLE	82	62	90	53	72	-2	1.0	.2	.5	1.0	125	23.3	109	94	54	1	0	3	1
TX ABILENE	88	64	97	51	76	-1	0	- .8	0	0	0	10.0	104	84	41	4	0	0	0
AMARILLO	81	53	94	46	67	-4	T	- .7	T	0	0	3.4	58	89	35	1	0	1	0
AUSTIN	90	70	93	63	80	1	0	- .8	0	0	0	12.8	92	88	50	5	0	0	0
BEAUMONT	91	71	93	68	81	2	0	- 1.1	0	0	0	25.6	126	92	54	6	0	0	0
BROWNSVILLE	91	77	93	74	84	2	0	- .7	0	0	0	13.7	185	87	56	7	0	0	0
CORPUS CHRISTI	88	72	89	68	80	0	0	- .7	0	0	0	13.8	138	99	66	0	0	0	0
DEL RIO	94	74	96	67	84	2	0	- .6	0	0	0	4.8	71	90	41	7	0	0	0
EL PASO	96	62	102	54	79	2	0	- .1	0	0	0	1.0	56	30	9	7	0	0	0
FORT WORTH	86	66	92	56	76	-2	.3	- .6	.2	.3	33	22.5	149	91	49	2	0	2	0
GALVESTON	86	76	88	72	81	2	0	- .9	0	0	0	12.3	90	84	70	0	0	0	0
HOUSTON	91	71	94	68	81	2	0	- 1.1	0	0	0	14.0	77	88	50	6	0	0	0
LUBBOCK	85	58	94	48	71	-3	T	- .8	T	0	0	7.9	120	89	32	3	0	0	0
MIDLAND	90	61	96	52	75	-2	T	- .4	T	0	0	5.2	111	91	27	4	0	0	0
SAN ANGELO	85	64	95	49	75	-4	0	- .6	0	0	0	8.0	113	95	43	2	0	0	0
SAN ANTONIO	88	71	88	64	79	0	T	- .7	T	0	0	10.3	97	93	54	0	0	0	0
VICTORIA	89	72	91	68	81	1	0	- .9	0	0	0	16.0	127	92	56	5	0	0	0
WACO	90	66	93	56	78	-1	0	- .9	0	0	0	15.1	101	89	49	4	0	0	0
WICHITA FALLS	87	60	95	52	73	-4	.5	- .5	.5	.5	50	21.9	192	97	44	4	0	2	0
UT BLANDING	76	42	77	39	59	-3	0	- .1	0	0	0	4.6	107	59	15	0	0	0	0
CEDAR CITY	76	43	81	38	59	-2	0	- .1	0	0	0	6.7	168	53	14	0	0	0	0
SALT LAKE CITY	71	47	79	42	59	-4	.1	- .2	.1	.1	33	7.6	103	68	24	0	0	2	0
VT BURLINGTON	67	54	78	41	61	-1	1.4	.6	.7	1.4	175	12.5	112	95	63	0	0	5	2
VA NORFOLK	82	68	89	63	75	4	1.3	.5	.4	1.3	163	18.1	115	90	53	0	0	4	0
RICHMOND	81	65	90	60	73	2	2.9	2.1	1.3	2.9	363	18.6	122	98	67	1	0	6	2
ROANOKE	79	60	88	56	70	1	2.1	1.3	.8	2.1	263	19.4	127	96	62	0	0	5	2
WA COLVILLE	68	46	77	42	57	-1	.1	- .4	T	.1	20	8.4	115	81	47	0	0	2	0
QUILLAYUTE	62	43	68	38	53	-1	.1	- .8	.1	.1	11	60.4	126	96	55	0	0	2	0
SEATTLE-TACOMA	68	49	80	47	59	1	T	- .4	T	0	0	19.5	112	71	36	0	0	0	0
SPOKANE	70	46	77	39	58	-1	.1	- .3	T	.1	25	7.3	90	77	32	0	0	2	0
YAKIMA	72	44	76	39	58	-4	T	- .1	T	0	0	3.1	86	74	29	0	0	0	0
WV BECKLEY	74	56	82	50	65	1	1.1	.2	.7	1.1	122	17.6	97	100	63	0	0	4	1
CHARLESTON	78	59	88	55	69	0	2.9	2.2	1.5	2.9	414	20.9	124	96	56	0	0	4	2
HUNTINGTON	76	59	86	54	67	-2	2.0	1.2	1.2	2.0	250	19.9	116	98	60	0	0	4	2
PARKERSBURG	78	61	86	55	70	2	2.6	1.6	1.6	2.6	260	17.4	94	91	55	0	0	3	2
WI GREEN BAY	68	46	79	37	57	-3	0	- .8	0	0	0	8.9	95	92	49	0	0	0	0
LA CROSSE	72	49	81	43	60	-5	0	- .9	0	0	0	8.6	84	94	38	0	0	0	0
MADISON	70	44	80	35	57	-5	T	- .9	T	0	0	11.3	112	92	48	0	0	1	0
MILWAUKEE	65	46	75	40	56	-4	T	- .7	T	0	0	13.7	129	85	53	0	0	2	0
WAUSAU	70	44	83	38	57	-3	.3	- .7	.3	.3	30	11.0	106	91	36	0	0	1	0
WY CASPER	66	39	77	31	52	-5	.7	.2	.4	.7	140	5.4	100	82	37	0	1	3	0
CHEYENNE	61	41	71	39	51	-6	.9	.3	.7	.9	150	5.4	90	91	49	0	0	4	1
LANDER	65	39	74	30	52	-5	.1	- .5	.1	.1	17	3.6	49	74	34	0	1	1	0
SHERIDAN	65	36	75	27	51	-7	.6	- .1	.3	.6	86	5.1	72	85	40	0	2	5	0
PR SAN JUAN	87	76	88	75	81	1	3.0	1.5	2.3	3.0	200	24.5	133	93	68	0	0	4	1

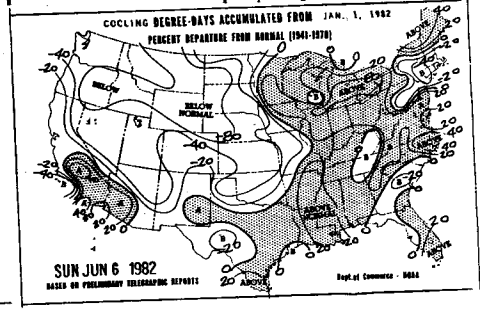
BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

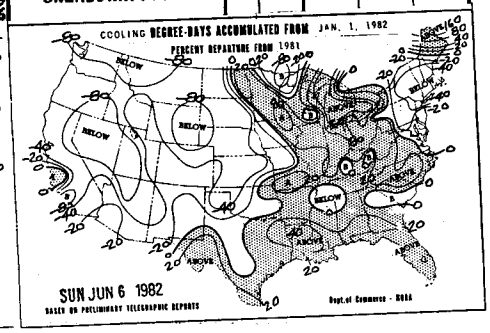
COOLING DEGREE DAYS (BASE 65°) FOR WEEK ENDING JUN. 6, 1982.

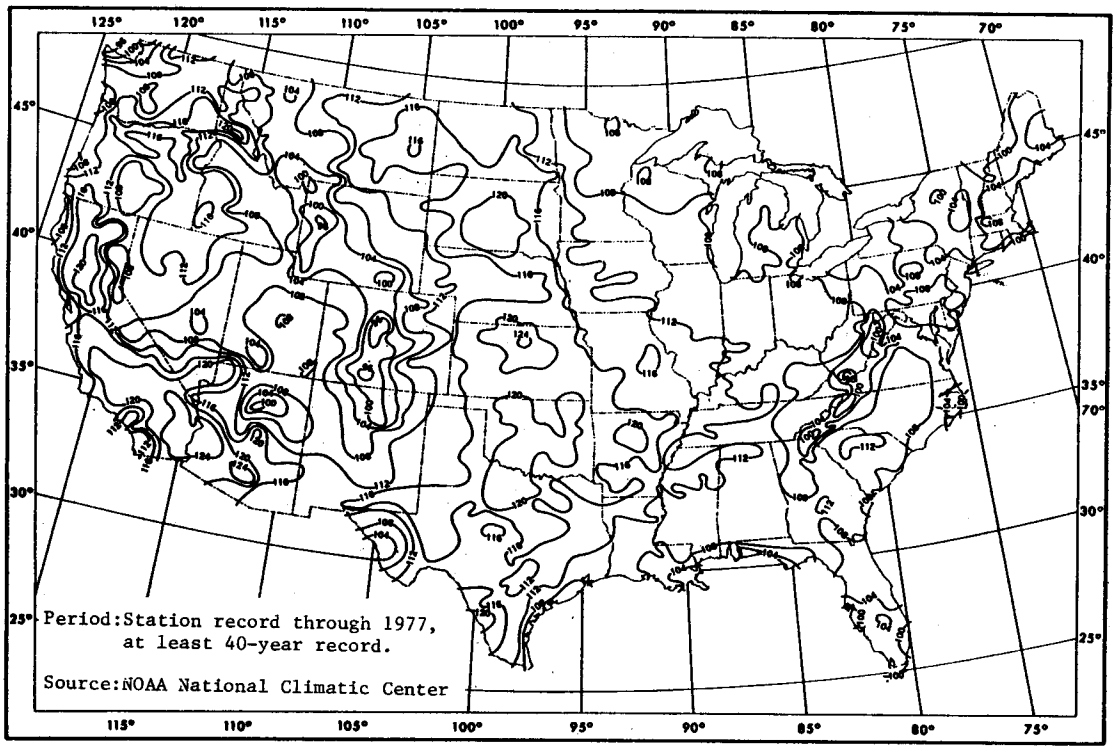
BASED ON 1941-70 NORMALS. + ACCUMLATION FROM JAN 1, 1982

STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE*	SEASONAL ACCUMULATION + TOTAL	SEASONAL ACCUMULATION + DEPARTURE*	SEASONAL ACCUMULATION + DEPARTURE FROM 1981
ALA. BIRMINGHAM	59	-12	369	-5	15
MOBILE	104	8	645	29	116
MONTGOMERY	95	13	538	83	106
ARIZ. FLAGSTAFF	0	0	0	0	0
PHOENIX	133	20	873	240	191
TUCSON	87	10	411	73	131
WINSLOW	2	-29	26	-62	-65
YUMA	119	3	897	48	146
ARK. FORT SMITH	25	-46	258	-42	1
LITTLE ROCK	46	-26	368	82	36
CALIF. BAKERSFIELD	34	-28	479	177	25
EUREKA	0	0	0	0	4
FRESNO	4	-41	176	-29	-197
LOS ANGELES	0	-3	18	-32	-87
RED BLUFF	2	-51	197	-41	-149
SAN DIEGO	13	4	106	-44	-67
SAN FRANCISCO	0	0	13	13	11
STOCKTON	0	-34	105	-20	-194
COLO. DENVER	1	-9	7	-3	-15
GRAND JUNCTION	22	-6	55	-17	-52
PUEBLO	17	-10	53	-15	-25
CONN. BRIDGEPORT	1	-13	9	-20	-26
HARTFORD	1	-13	20	-10	-64
DEL. WILMINGTON	29	1	99	27	-5
D.C. WASHINGTON	45	1	191	35	-42
FLA. APALACHICOLA	113	19	558	51	111
DAYTONA BEACH	104	14	748	20	147
FORT MYERS	123	18	1457	367	336
JACKSONVILLE	115	30	670	64	111
KEY WEST	113	11	1948	249	552
LAKELAND	109	7	941	8	208
MIAMI	104	1	1601	330	304
ORLANDO	120	22	1067	168	246
TALLAHASSEE	112	18	603	9	156
TAMPA	111	6	927	28	191
WEST PALM BEACH	109	7	1451	311	343
GA. ATLANTA	67	7	333	86	19
AUGUSTA	81	3	286	93	31
MACON	100	12	469	28	26
SAVANNAH	108	22	545	37	46
IDAHO. BOISE	0	-7	2	-21	-10
LEWISTON	0	-7	5	-19	-12
POCATELLO	0	-7	3	-9	0
ILL. CAIRO	24	-45	335	53	51
CHICAGO	1	-20	83	30	29
MOLINE	0	-32	99	8	33
PEORIA	4	-30	145	39	57
ROCKFORD	5	-18	111	50	58
SPRINGFIELD	6	-36	178	53	24
IND. EVANSVILLE	29	-24	229	33	41
FORT WAYNE	6	-19	101	31	42
INDIANAPOLIS	12	-23	146	38	43
SOUTH BEND	5	-18	105	45	64
IOWA. BURLINGTON	0	-34	111	3	28
DES MOINES	3	-28	80	-5	35
DUBUQUE	0	-19	66	19	21
SIOUX CITY	12	-19	56	-39	32
KANS. CONCORDIA	12	-28	69	-60	-67
DODGE CITY	16	-22	80	-48	-87
GOODLAND	8	-16	27	-21	-9
TOPEKA	9	-37	73	-102	-92
WICHITA	14	-43	108	-99	-65
KY. LEXINGTON	14	-30	183	-17	-62
LOUISVILLE	20	-23	193	-24	-4
LA. BATON ROUGE	136	41	838	231	267
LAKE CHARLES	111	15	668	17	85
NEW ORLEANS	130	34	868	215	190
SHREVEPORT	91	2	566	69	149
MAINE. CARIBOU	0	0	15	15	10
PORTLAND	0	0	6	-6	-20
MD. BALTIMORE	26	-9	123	23	2
MASS. BOSTON	4	-10	19	-13	-73
MICH. ALPENA	0	-7	7	0	1
DETROIT	6	-14	54	-6	-18
FLINT	6	-6	91	58	68
GRAND RAPIDS	5	-12	95	55	64
HOUGHTON LAKE	1	-6	26	9	17
LANSING	4	-12	79	39	59
MARQUETTE	0	0	6	6	2
MUSKEGON	0	-11	56	28	47
S. STE. MARIE	0	0	6	6	5
MINN. DULUTH	0	0	0	0	4
INTERNATL FALLS	0	0	3	3	5
MINNEAPOLIS	0	-17	46	5	19
ROCHESTER	0	-15	42	10	25
ST. CLOUD	0	0	34	12	12
MISS. JACKSON	105	20	624	135	137
MERIDIAN	103	20	548	81	83
MO. COLUMBIA	4	-40	88	-81	-33
KANSAS CITY	6	-38	90	-59	-27
ST. LOUIS	11	-44	208	4	26
SPRINGFIELD	7	-38	167	1	29
MONT. BILLINGS	0	-7	5	-9	-10
GLASGOW	0	-7	3	-12	0
GREAT FALLS	0	0	0	0	3
HAVRE	0	-7	0	-12	-5
HELENA	0	0	0	0	1
KALISPELL	0	0	0	0	0
MILES CITY	0	-14	6	-25	-8
MISSOULA	0	0	0	0	0
NEBR. GRAND ISLAND	9	-22	34	-52	-36
LINCOLN	14	-23	75	-38	-28
NORFOLK	12	-15	40	-38	-42
NORTH PLATTE	7	-20	10	-48	-23
OMAHA	10	-29	52	-71	-24
VALENTINE	2	-14	13	-23	-21
NEV. ELY	0	0	0	0	2
LAS VEGAS	78	-16	419	-50	-211
RENO	0	-7	2	-5	-20
WINNEMUCCA	0	-7	4	-7	-20
N.H. CONCORD	0	-7	10	-4	-47
N.J. ATLANTIC CITY	25	3	74	30	9
TRENTON	14	-14	75	-6	-17
N. MEX. ALBUQUERQUE	32	-13	77	-35	-26
ROSWELL	65	1	236	-26	-6
N.Y. ALBANY	7	-8	24	-16	-53
BINGHAMTON	5	-2	21	-2	-27
BUFFALO	5	-5	30	-8	-4
NEW YORK	9	-4	38	-31	-63
ROCHESTER	8	-6	44	-10	-2
SYRACUSE	5	-9	21	-9	-61
N.C. ASHEVILLE	40	-9	148	-55	-66
CHARLOTTE	71	-12	309	-67	-80
GREENSBORO	43	-7	211	-11	-26
HATTERAS	83	-33	260	-90	-34
RALEIGH	62	-19	288	-87	-38
WILMINGTON	96	-23	321	-18	-26
N.DAK. BISMARCK	0	-10	3	-17	-3
FARGO	5	-10	14	-7	-5
WILLISTON	5	-2	12	-1	-28
OHIO. AKRON-CANTON	8	-13	98	-44	-36
CINCINNATI	18	-21	140	-19	-28
CLEVELAND	8	-13	86	-31	-36
COLUMBUS	7	-21	115	-36	-28
DAYTON	10	-23	122	-28	-59
TOLEDO	5	-19	67	-9	-26
YOUNGSTOWN	6	-8	68	-27	-2
OKLA. OKLAHOMA CITY	16	-45	180	-64	-68
TULSA	23	-40	363	-103	-48
OREG. ASTORIA	0	0	0	0	0
BURNS	0	-3	0	-4	0
MEDFORD	0	-7	14	-5	-18
PENDLETON	0	-7	3	-2	-6
PORTLAND	0	-7	4	-5	-4
SALEM	0	-7	5	-5	-4
PA. ALLENTOWN	6	-17	38	-20	-43
ERIE	5	-8	50	-30	-31
HARRISBURG	13	-19	57	-40	-36
PHILADELPHIA	10	-14	97	-1	-7
PITTSBURGH	6	-15	78	-14	-25
SCRANTON	11	-4	42	-1	-26
R.I. PROVIDENCE	3	-4	14	0	-48
S.C. CHARLESTON	93	-16	398	-18	-53
COLUMBIA	85	-4	363	-28	-7
GREENVILLE	67	-7	257	-8	-6
S.DAK. ABERDEEN	2	-12	19	-8	-38
HURON	4	-14	18	-23	-42
RAPID CITY	0	-14	3	-24	-14
SIOUX FALLS	7	-14	23	-27	-47
TENN. CHATTANOOGA	50	-9	248	-16	-34
KNOXVILLE	42	-16	208	-49	-15
MEMPHIS	68	-8	419	-69	-61
NASHVILLE	39	-23	265	-7	-42
TEXAS. ABILENE	80	-6	465	-11	-6
AMARILLO	33	-17	94	-69	-100
AUSTIN	105	-4	755	-110	-55
BEAUMONT	113	-17	596	-34	-58
BROWNSVILLE	134	-18	1432	-234	-242
CORPUS CHRISTI	110	0	944	-12	-78
DEL RIO	122	-6	829	-26	-141
EL PASO	102	-13	339	-23	-112
FORT WORTH	98	-12	426	-30	-42
GALVESTON	119	-17	655	-23	-24
HOUSTON	117	-16	765	-118	-20
LUBBOCK	54	-11	245	-1	-30
MIDLAND	78	-8	384	-15	-70
SAN ANGELO	70	-28	372	-19	-1
SAN ANTONIO	101	-4	665	-34	-67
VICTORIA	108	-1	816	-58	-52
WACO	90	-9	608	-58	-85
WICHITA FALLS	60	-31	384	-47	-28
UTAH. SALT LAKE CITY	0	-14	13	-29	-18
VT. BURLINGTON	7	0	31	-10	-20
VA. LYNCHBURG	27	-11	141	-9	-3
NORFOLK	66	-19	209	-31	-20
RICHMOND	48	-3	223	-42	-21
ROANOKE	25	-10	151	-28	-43
WASH. QUILLAYUTE	0	0	0	0	0
SEATTLE-TACOMA	0	0	0	0	-1
SPOKANE	0	-7	3	-8	-3
WALLA WALLA	2	-12	21	-30	-13
YAKIMA	0	-8	9	-17	-9
W. VA. BECKLEY	8	-8	62	-24	-21
CHARLESTON	18	-21	142	-5	-40
HUNTINGTON	14	-27	142	-25	-7
PARKERSBURG	29	-10	208	-80	-86
WIS. GREEN BAY	0	-10	32	-11	-18
LACROSSE	0	-21	62	-15	-13
MADISON	0	-14	27	-5	-2
MILWAUKEE	0	-9	14	-7	-2
WYO. CASPER	0	-7	0	-12	-3
CHEYENNE	0	-2	0	-2	-1
LANDER	0	-10	0	-3	-2
SHERIDAN	0	-7	0	-13	0

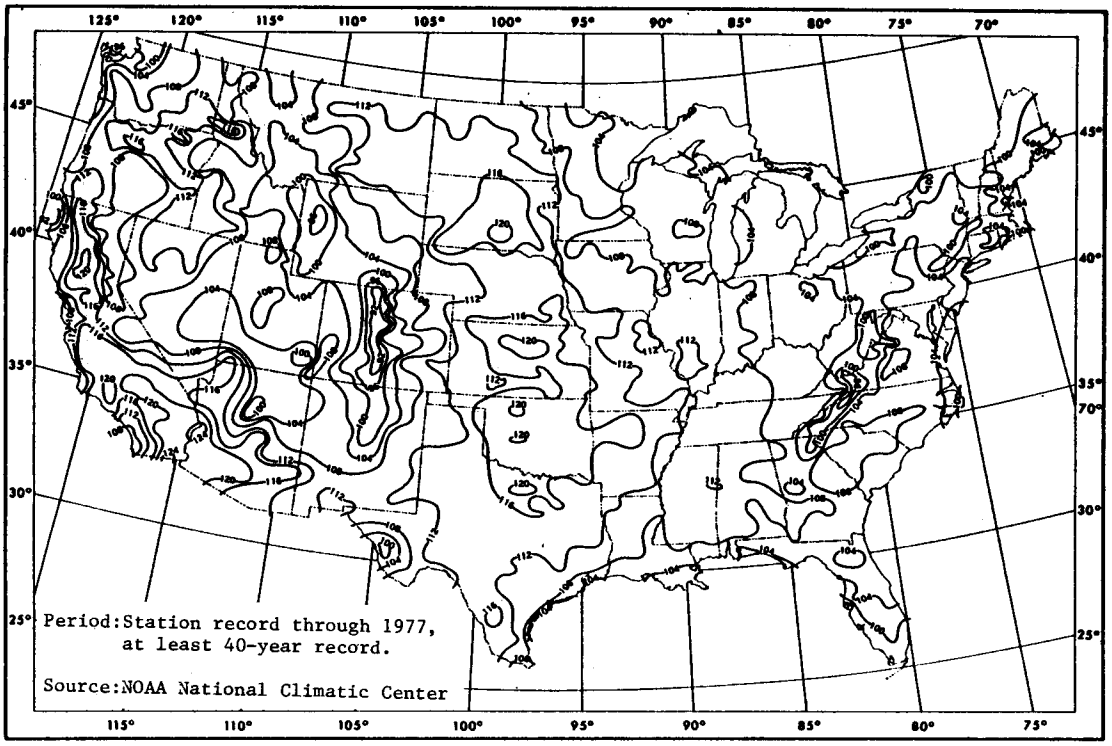








Extreme annual maximum temperature for the .99 probability level (100-year return period).



Extreme annual maximum temperature for the .98 probability level (50-year return period).

(cont. on p. 24)

May Weather Summary

HIGHLIGHTS: Warm, open weather at the beginning of the month allowed planting to begin in the Corn Belt, but nearly continuous rain in the western portion kept farmers out of the fields for most of the month. Periodic rain and continued warm weather in the eastern Belt allowed planting and promoted excellent early growth of corn and soybeans. Severe weather through the Plains was accompanied by heavy downpours which lodged some winter wheat in the southern Plains States and caused local flooding. Winter weather persisted through the Rocky Mountains, and new snow covered the northern portion. Cold rain reached out over the High Plains and stressed livestock. The West remained mostly dry with temperatures near normal except for the central valley in California where temperatures averaged 2 to 6° above normal.

FIRST WEEK...A cold front moved into the Pacific Northwest and continued slowly across the United States. The weather was quite cool behind the front, and snow fell over the mountains and then in the High Plains from Colorado to Montana. A tongue of very warm, moist air preceded the front into the Great Lakes region. After a long hard winter, residents of the region welcomed temperatures in the eighties. Farmers took advantage of the warm weather and rapidly began planting spring crops. Most of the farm activity came to a halt as the cold front approached. Showers and thunderstorms accompanied the cold front. Severe weather was widespread as the cooler air encountered the warm, moist air in the East.

SECOND WEEK...A ridge of high pressure over the Eastern United States kept storms from moving through that area, but showers, thunderstorms, and much severe weather spread over the Plains from the Rockies to the Mississippi River Valley. Most of the rain was needed to sustain growth of winter grains and spring crops. Sunny weather allowed planting in the eastern Corn Belt, but persistant showers in the western portion slowed field activity. Parts of the East were getting too dry to germinate newly seeded areas. Torrential rains in parts of the southern Plains flooded some cropland. Average temperatures for the week were cool in the West and warm in the East--up to 12 to 15° above normal in the Great Lakes region.

THIRD WEEK...The high pressure ridge in the East broke down and allowed storm systems to move over nearly all of the States. Only the extreme Southwest was without rain. Violent thunderstorms triggered tornadoes, hail, and high winds over much of the eastern half of the Nation. Heavy downpours in Oklahoma caused some lodging in recently headed winter wheat. Daily rain in the western Corn Belt further delayed planting of corn and soybeans, but warm weather and showers in the eastern portion helped newly planted seeds. Average temperatures were near normal or warmer over all of the Nation. It was 6 to 9° warmer than normal from southern Illinois into Michigan.

FOURTH WEEK...Showers and thunderstorms covered the United States east of the Rockies. Severe weather was widespread through the Plains, the Ohio Valley, through and east of the central Appalachians, and in Florida. A tornado in southern Illinois caused death and injuries as well as extensive property damage. Seeding of corn and soybeans was at a near standstill in the western Corn Belt. The weather was cold over the northern Rockies and High Plains. Snow covered the area in the early mornings and cold rain stressed livestock. (Prepared by NOAA/USDA Joint Agricultural Weather Facility.)

MAY FIELDWORK

Clear weather in eastern portions of the Corn Belt permitted rapid planting of corn and soybeans. Timely rains and warm weather promoted excellent germination and growth. However, persistent rainfall in western areas of the Corn Belt through the Central Plains kept farmers sidelined for most of May. Planting progress fell far behind schedule as producers waited for fields to dry.

By the end of May, corn planting was 82% finished in the 17 major producing States, behind the average progress of 90%. Planting was 49 percentage points behind average in Nebraska, 25 percent in Iowa, and 27 percent slower than average in South Dakota. Producers in Georgia, Indiana, and Ohio finished planting the crop while those in Illinois, Kentucky, Michigan, and North Carolina were nearing completion. Early planted fields in the South were beginning to silk.

Soybean planting in the 18 major producing States reached 50% completion by the end of May, lagging the average of 58%. Planting in Iowa fell 66 percentage points behind average, and in Nebraska, planting was 57 percentage points behind average. In contrast, planting in Ohio neared completion, 39 percentage points ahead of schedule. Emerged plants were in fair to good condition.

Sorghum planting at the end of May was 38% finished in the 7 major producing States, lagging the average progress of 55%. Adverse weather during May also delayed sorghum planting; progress fell 54 percentage points behind average in Nebraska, 30 points behind in Oklahoma and South Dakota, and 20 points behind in Kansas.

In the 14 major producing States, 74% of the cotton acreage had been planted as May ended, behind last year's 88%. Planting in Texas was only 58% completed. Heavy rains at the end of the month washed out some fields in the Texas Panhandle. These fields were replanted in early June. In southern areas, early-planted fields began squaring. Plants rated fair to good condition.

Winter wheat was in fair to good condition, although heavy rains lodged some winter wheat and caused local flooding in southern areas of the Great Plains. Weeds, insects, and disease problems were greater than usual due to the warm, wet weather which prevailed this spring. In the 15 major producing States, 74% of the acreage was headed at the end of May. The crop was turning color in the Corn Belt and central Plains. Harvesting was active in extreme southern areas.

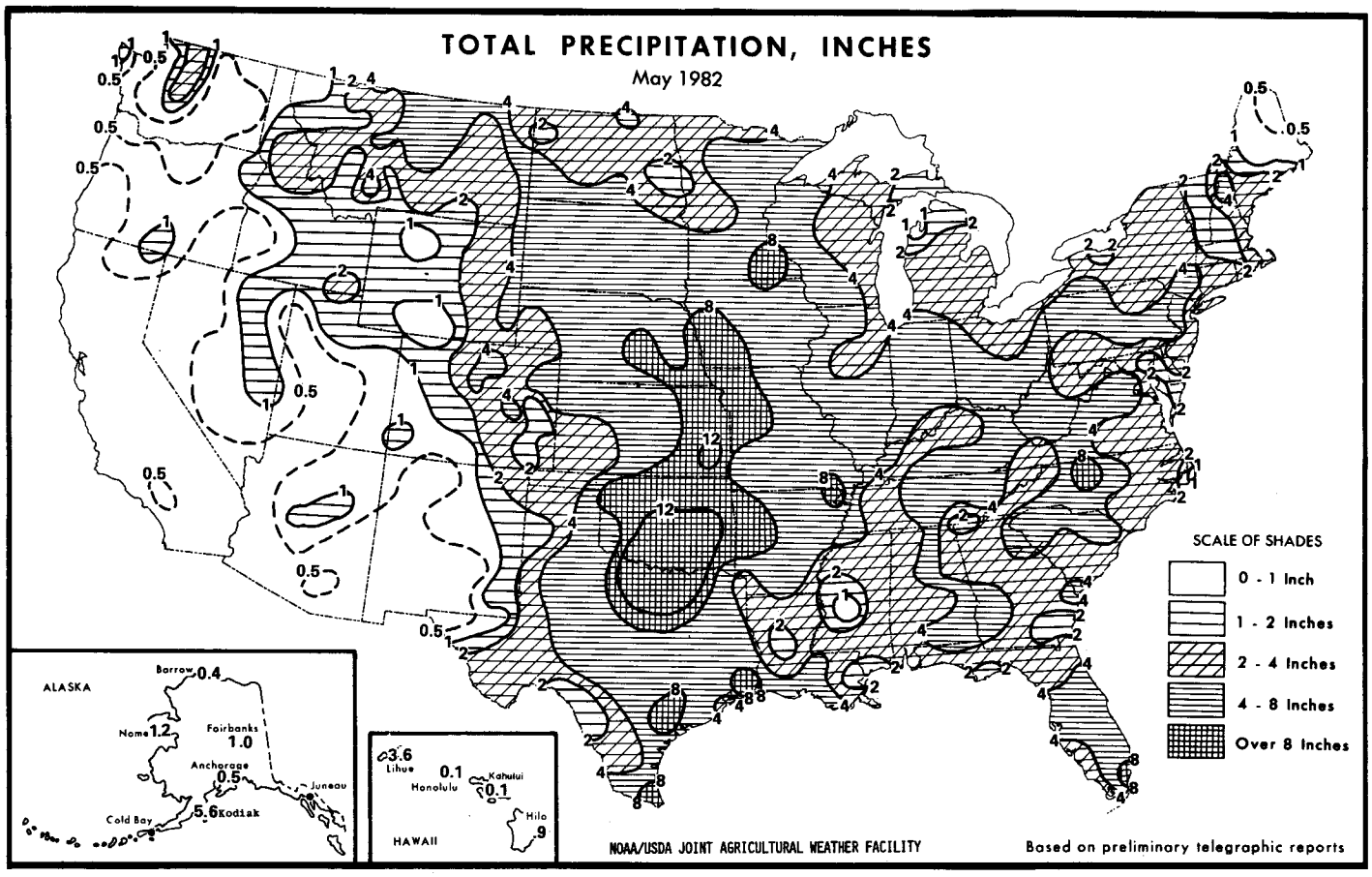
Spring wheat seeding in the 5 major producing States had reached 87% completion as May ended, 6 points slower than average. The crop had emerged on 68% of the acreage. Ample moisture supplies should promote good growth of the crop.

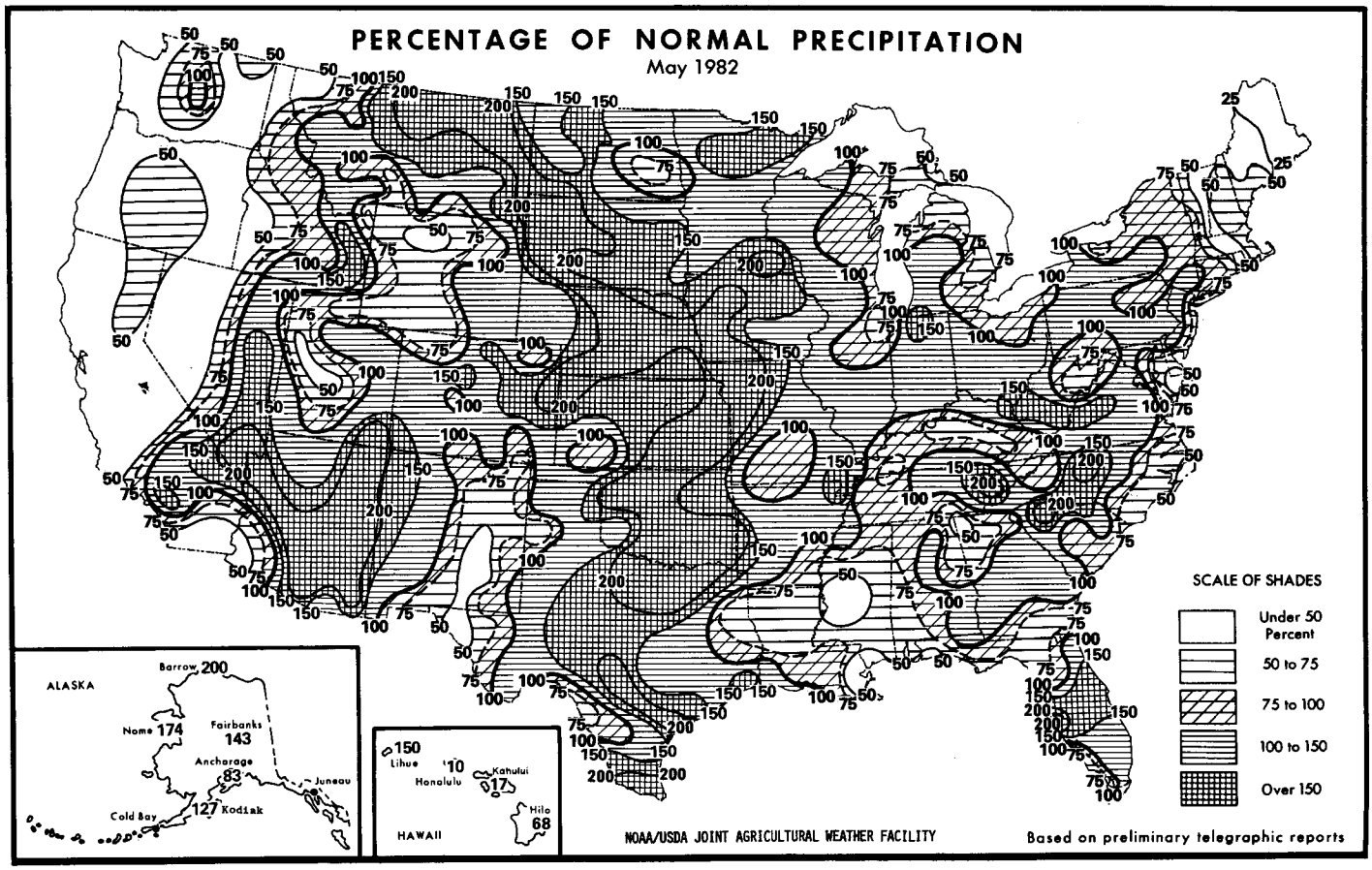
Peanut planting neared completion in the Southeast. Early-planted fields were blooming. Tobacco transplanting was in full swing as weather permitted.

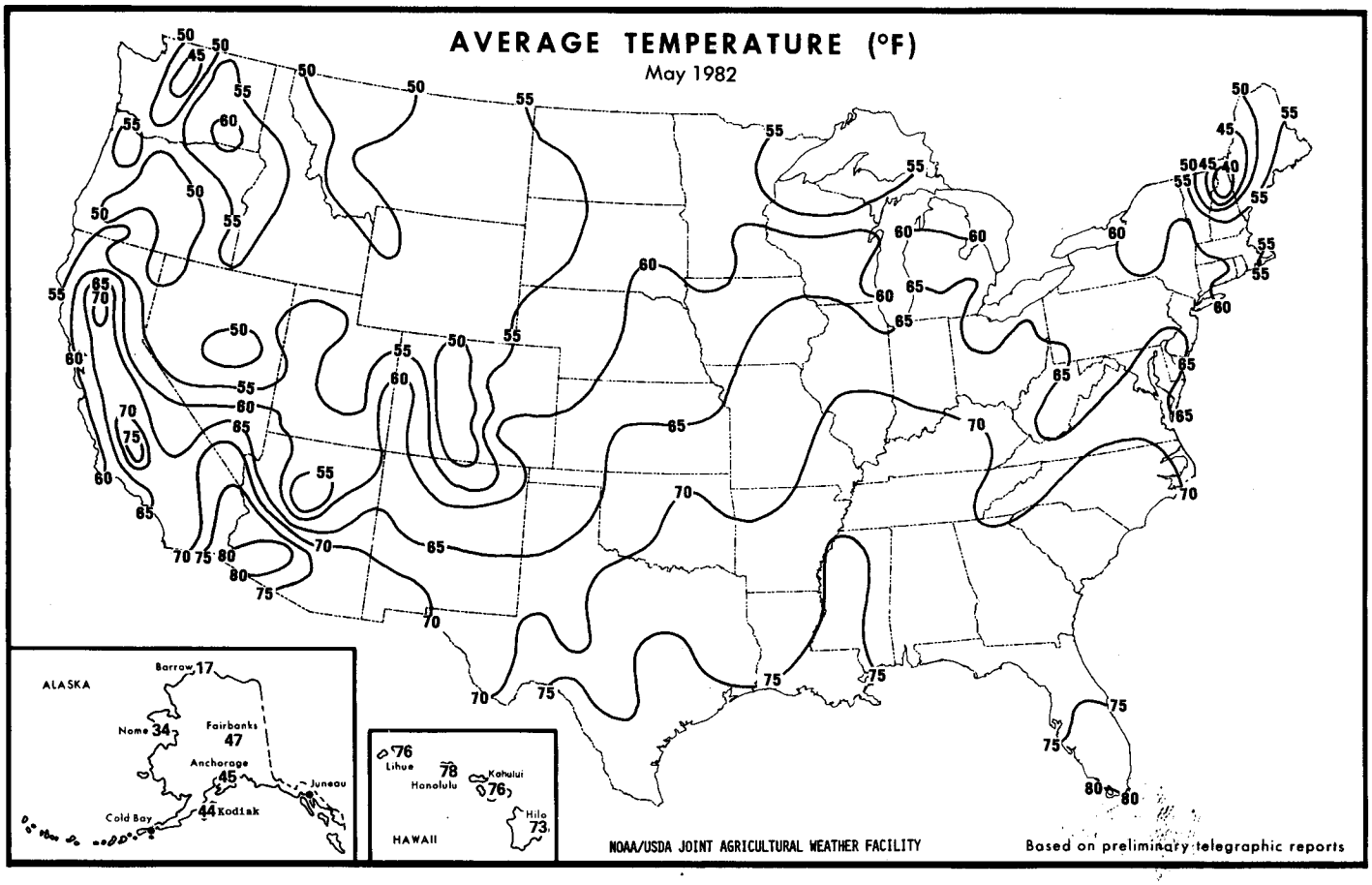
Temperature and Precipitation Data for May 1982

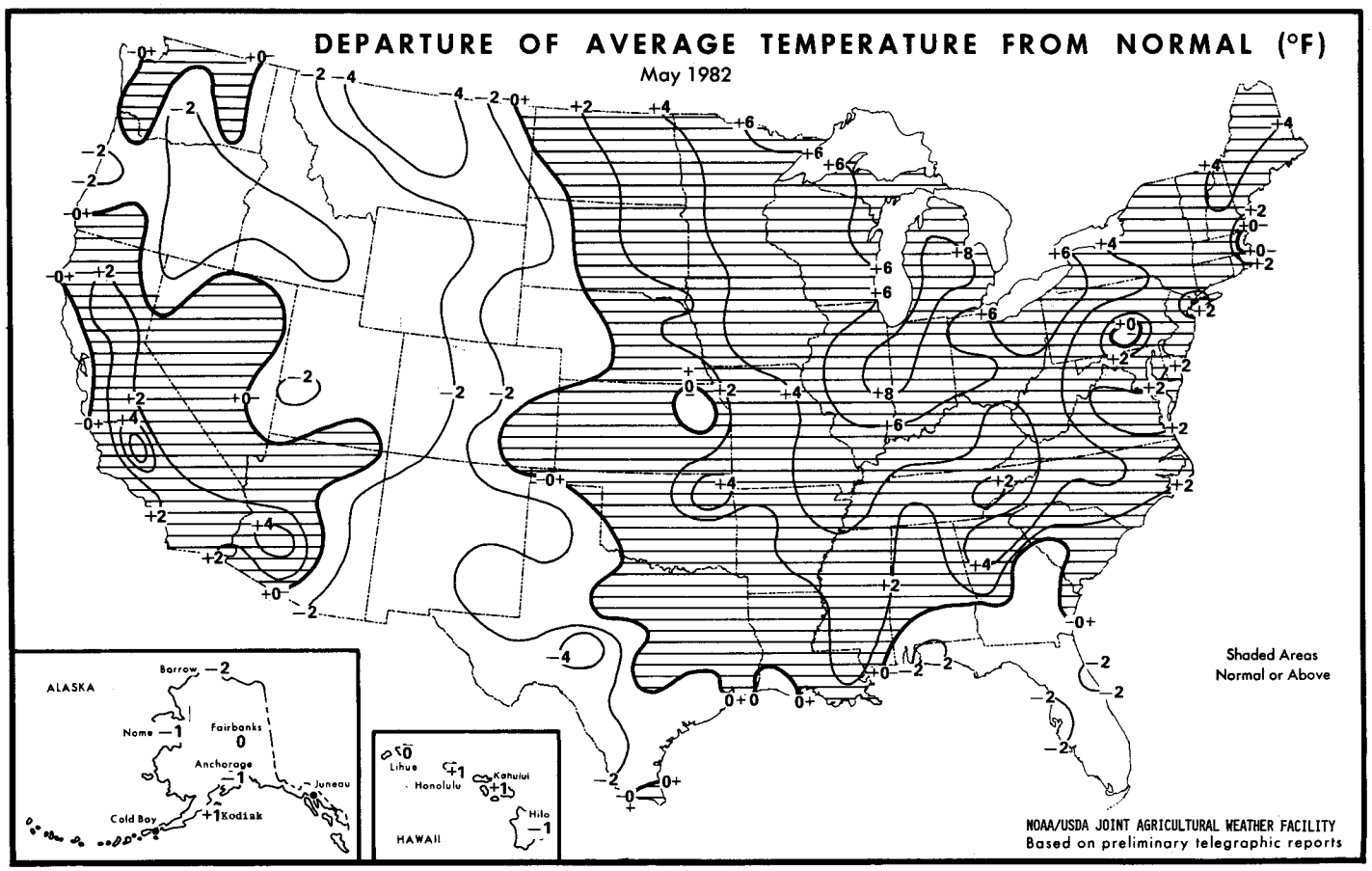
States and Stations	Temperature °F Average	Temperature °F Departure	Precipitation Inches Total	Precipitation Inches Departure
AL BIRMINGHAM	72	1	4.3	.7
MOBILE	74	- 1	2.8	- 1.7
MONTGOMERY	74	2	2.9	- .6
AK ANCHORAGE	45	- 1	.5	- .1
BARROW	17	- 2	.4	.2
FAIRBANKS	47	0	1.0	.3
JUNEAU	--	--	--	--
KODIAK	44	1	5.6	1.2
NOME	34	- 1	1.2	.5
AZ FLAGSTAFF	50	0	.9	.3
PHOENIX	80	4	.5	.4
TUCSON	72	- 2	.5	.4
WINSLOW	61	- 2	1.3	1.0
YUMA	80	1	T	0
AR FORT SMITH	70	0	11.2	5.7
LITTLE ROCK	72	2	5.1	0
CA BAKERSFIELD	76	6	0	- .2
EUREKA	53	0	.1	- 2.0
FRESNO	69	2	0	- .3
LOS ANGELES	63	1	.1	0
RED BLUFF	70	3	T	- 1.0
SAN DIEGO	66	3	T	- .2
SAN FRANCISCO	57	- 1	T	- .4
STOCKTON	67	2	0	- .4
CO DENVER	55	- 2	3.5	.9
GRAND JUNCTION	61	- 1	.8	.2
PUEBLO	61	0	2.3	.6
CT BRIDGEPORT	60	2	3.0	- .6
HARTFORD	61	3	3.3	- .2
DC WASHINGTON	69	3	5.1	1.4
FL APALACHICOLA	74	- 1	1.5	- 1.3
DAYTONA BEACH	73	- 2	4.7	2.0
FORT MYERS	77	- 1	2.1	- 1.9
JACKSONVILLE	73	- 1	3.6	.4
KEY WEST	81	0	5.8	3.3
MIAMI	77	- 1	8.8	2.7
ORLANDO	75	- 1	5.3	2.4
TALLAHASSEE	74	- 1	3.6	- .4
TAMPA	74	- 3	5.9	3.5
WEST PALM BEACH	77	- 1	6.9	1.7
GA ATLANTA	73	4	2.6	- 1.1
AUGUSTA	71	- 1	3.8	.4
MACON	74	0	3.9	.3
SAVANNAH	74	1	4.2	0
HI HILO	73	- 1	6.9	- 3.2
HONOLULU	78	1	.1	- .9
KAHULUI	76	1	.1	- .5
LIHUE	76	0	3.6	1.2
ID BOISE	55	- 2	.4	- .9
LEWISTON	57	- 1	.7	- .9
POCATELLO	52	- 2	1.1	- .2
IL CAIRO	74	5	5.5	.3
CHICAGO	64	6	2.1	- 1.3
MOLINE	66	5	5.0	1.1
PEORIA	68	6	3.2	- .7
ROCKFORD	66	5	4.6	.7
SPRINGFIELD	70	7	4.1	.6
IN EVANSVILLE	71	5	4.3	- .1
FORT WAYNE	66	6	4.7	.8
INDIANAPOLIS	69	7	5.9	1.8
SOUTH BEND	66	8	5.5	2.3
IA BURLINGTON	66	4	4.3	.7
DES MOINES	65	4	5.8	1.6
DUBUQUE	--	--	--	--
SIOUX CITY	62	1	6.9	3.4
KS CONCORDIA	64	1	7.5	3.3
DODGE CITY	65	1	2.7	- .4
GOODLAND	59	0	5.0	2.5
TOPEKA	64	- 1	9.4	5.4
WICHITA	66	0	7.8	4.2
KY LEXINGTON	70	5	2.5	- 1.7
LOUISVILLE	70	5	3.0	- 1.2
LA BATON ROUGE	76	1	4.1	- .3
LAKE CHARLES	74	- 1	5.6	.5
NEW ORLEANS	77	2	1.2	- 3.0
SHREVEPORT	74	1	2.3	- 2.7
ME CARIBOU	54	4	.5	- 2.5
PORTLAND	55	2	2.9	- .4
MD BALTIMORE	66	2	1.9	- 1.7
MA BOSTON	58	- 1	2.5	- 1.0
CHATHAM	53	--	2.1	--
MI ALPENA	57	6	1.7	- 1.0
DETROIT	64	6	2.8	- .5
FLINT	65	9	2.2	- .9
GRAND RAPIDS	65	8	3.6	+ .4
HOUGHTON LAKE	61	8	3.0	.2
LANSING	64	7	2.5	- .8
MARQUETTE	54	6	2.8	- .6
MUSKEGON	62	7	3.4	.7
SAULT STE. MARIE	56	7	1.4	- 1.6
MN DULUTH	53	4	4.3	.9
INT'L FALLS	56	6	3.5	.7
MINNEAPOLIS	63	6	5.0	1.6
ROCHESTER	60	4	8.4	4.9
SAINT CLOUD	59	4	3.9	.3
MS JACKSON	75	2	.8	- 3.6
MERIDIAN	74	2	2.6	- 1.2
MO COLUMBIA	66	2	5.3	.6
KANSAS CITY	66	2	9.8	5.5
SAINT LOUIS	70	4	4.9	1.0
SPRINGFIELD	68	3	4.8	- .1
MT BILLINGS	52	- 3	2.6	.5
GLASGOW	51	- 3	3.7	2.4
GREAT FALLS	48	- 5	3.6	1.2
HAVRE	50	- 5	4.5	3.0
HELENA	51	- 1	1.8	.0
KALISPELL	49	- 2	.8	- 1.0
MILES CITY	53	- 3	2.6	.5
MISSOULA	51	- 1	2.0	.3
NE GRAND ISLAND	61	0	8.9	5.1
LINCOLN	63	1	5.5	2.0
NORFOLK	62	2	7.7	4.0
NORTH PLATTE	57	- 1	6.3	3.0
OMAHA	63	2	9.0	5.0
VALENTINE	58	1	6.7	3.8
NV ELY	50	0	1.6	.7
LAS VEGAS	74	1	.3	.2
RENO	55	0	.1	- .6
WINNEMUCCA	54	0	.2	- .7
NH CONCORD	57	3	1.9	- 1.1
NJ ATLANTIC CITY	64	2	2.4	- 1.1
TRENTON	--	--	--	--
NM ALBUQUERQUE	63	- 2	.5	0
ROSWELL	68	- 1	.2	- .8
NY ALBANY	60	2	2.6	- .7
BINGHAMTON	60	5	3.9	.1
BUFFALO	61	6	3.7	.7
NEW YORK	63	1	2.0	- 1.4
ROCHESTER	61	4	1.8	- 1.0
SYRACUSE	59	2	2.9	- .1
NC ASHEVILLE	67	3	3.8	.5
CHARLOTTE	72	3	5.0	2.1
GREENSBORO	71	4	8.4	5.4
HATTERAS	69	2	.9	- 2.4
RALEIGH	71	4	4.2	.9
WILMINGTON	71	0	2.0	- 2.0
ND BISMARCK	55	1	3.7	1.5
FARGO	58	3	1.8	- .5
WILLISTON	55	1	1.8	.2
OH AKRON-CANTON	66	7	3.1	- .8
CINCINNATI	68	5	4.6	.9
CLEVELAND	65	7	2.7	- .8
COLUMBUS	67	6	4.7	.6
DAYTON	68	6	4.8	1.0
TOLEDO	64	5	2.6	- .7
YOUNGSTOWN	64	6	4.4	.5
OK OKLAHOMA CITY	68	0	12.1	6.9
TULSA	73	4	9.3	4.2
OR ASTORIA	52	0	.4	- 2.3
BURNS	49	- 3	.6	- .4
MEDFORD	58	1	T	- 1.4
PENDLETON	57	- 2	.3	- .9
PORTLAND	58	1	.5	- 1.6
SALEM	55	- 1	.7	- 1.4
PA ALLENTOWN	62	2	4.0	.2
ERIE	61	6	3.1	- .5
HARRISBURG	62	- 1	4.9	1.1
PHILADELPHIA	66	3	4.5	1.1
PITTSBURGH	65	5	4.0	.4
SCRANTON	61	2	3.5	- .3
RI PROVIDENCE	59	2	1.6	- 1.9
SC CHARLESTON	72	0	3.0	- .8
COLUMBIA	72	0	2.9	- .5
GREENVILLE	71	4	6.2	3.2
SD ABERDEEN	--	--	--	--
HURON	60	3	4.6	1.8
RAPID CITY	53	- 2	6.5	3.7
SIOUX FALLS	60	2	4.7	1.3
TN CHATTANOOGA	71	2	1.4	- 2.0
KNOXVILLE	69	1	6.6	3.3
MEMPHIS	75	4	5.5	1.1
NASHVILLE	71	2	4.2	.1
TX ABILENE	72	0	6.9	4.0
AMARILLO	63	- 3	2.0	- .8
AUSTIN	76	1	5.7	1.7
BEAUMONT	76	1	9.4	4.5
BROWNSVILLE	80	1	9.1	6.6
CORPUS CHRISTI	77	- 1	4.2	1.0
DEL RIO	76	- 2	1.6	- .8
EL PASO	70	- 2	.2	- .1
FORT WORTH	73	0	13.7	9.2
GALVESTON	76	0	3.4	.2
HOUSTON	75	- 1	6.9	1.8
LUBBOCK	68	- 1	4.5	1.3
MIDLAND	71	- 1	3.2	1.0
SAN ANGELO	70	- 5	4.2	1.5
SAN ANTONIO	75	- 1	6.4	3.3
VICTORIA	76	- 1	8.6	4.6
WACO	75	0	5.5	.9
WICHITA FALLS	72	0	13.2	8.6
UT BLANDING	57	0	1.8	1.2
SALT LAKE CITY	57	- 1	1.9	.4
VT BURLINGTON	58	3	2.0	- 1.0
VA LYNCHBURG	68	3	3.7	.5
NORFOLK	69	2	3.1	- .2
RICHMOND	68	1	3.7	.3
ROANOKE	68	4	4.8	1.3
WA COLVILLE	54	0	.9	- .7
OMAK	59	2	.3	- .8
QUILLAYUTE	50	- 1	1.6	- 3.1
SEATTLE-TACOMA	55	0	.6	- 1.1
SPOKANE	54	- 1	.2	- 1.3
WALLA-WALLA	60	0	.6	- 1.0
YAKIMA	56	- 2	.4	- .2
WV BECKLEY	64	5	6.2	2.4
CHARLESTON	69	4	6.5	3.0
HUNTINGTON	68	3	6.3	2.5
PARKERSBURG	--	--	--	--
WI GREEN BAY	61	6	2.7	- .4
LA CROSSE	63	4	4.7	1.0
MADISON	61	5	4.3	.9
MILWAUKEE	59	5	2.8	- .1
WY CASPER	51	- 2	2.1	.2
CHEYENNE	51	- 1	3.6	1.1
LANDER	52	- 1	1.7	.9
SHERIDAN	52	- 1	1.7	- .8
PR SAN JUAN	--	--	10.2	3.7

Based on 1941-70 normals


TOTAL PRECIPITATION, INCHES
May 1982
SCALE OF SHADES
0 - 1 Inch
1 - 2 Inches
2 - 4 Inches
4 - 8 Inches
Over 8 Inches
ALASKA
Barrow 0.4
Nome 1.2
Fairbanks 1.0
Anchorage 0.5
Juneau
Cold Bay
5.6 Kodiak
3.6 Lihue
0.1 Honolulu
Kahului 0.1
Hilo .9
HAWAII
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports


PERCENTAGE OF NORMAL PRECIPITATION
May 1982
SCALE OF SHADES
Under 50 Percent
50 to 75
75 to 100
100 to 150
Over 150
ALASKA
Barrow 200
Nome 174
Fairbanks 143
Anchorage 83
Juneau
Cold Bay
127 Kodiak
150 Lihue
10 Honolulu
Kahului 17
Hilo 68
HAWAII
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports


AVERAGE TEMPERATURE (°F)
May 1982
ALASKA
Barrow 17
Nome 34
Fairbanks 47
Anchorage 45
Juneau
Cold Bay
44 Kodiak
Lihue 76
Honolulu 78
Kahului 76
Hilo 73
HAWAII
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports


DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)
May 1982
ALASKA
Barrow −2
Nome −1
Fairbanks 0
Anchorage −1
Juneau
Cold Bay
+1 Kodiak
Lihue 0
Honolulu +1
Kahului +1
Hilo −1
HAWAII
Shaded Areas Normal or Above
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports

National Agricultural Summary

June 1-6

HIGHLIGHTS: Rain covered the eastern half of the Nation during much of the week, again delaying the completion of spring planting. In the central Plains and the western Corn Belt, planting progress advanced slightly but was still well behind schedule. Cool weather, dominating most of the Nation, slowed the growth of pastures and crops. Soil moisture supplies were adequate to surplus in nearly all regions except in the southern part of the Delta where supplies were short. In this area and in the northern Plains through the Lakes States, farmers had 4 to 7 days suitable for fieldwork. Elsewhere, rain limited the number of days available from less than 1 to up to 4. Winter wheat was in fair to good condition; 85% of the acreage was headed. Harvesting became more widespread in the South. Spring wheat seeding was 94% finished; plants had emerged on 79% of the acreage. Corn planting advanced slowly to 87% completion, 7 points behind average. Progress was still well behind normal in Nebraska, South Dakota, Iowa, and Kansas. Soybean planting was 60% finished, lagging the average of 72%. Planting remained far behind schedule in the western Corn Belt and central Plains. Sorghum planting fell further behind schedule; 43% of the acreage had been planted compared to an average of 69%. Cotton was 84% planted, 8 points behind last year's progress. Rice was 96% seeded; only California had significant acreage yet to plant. Peanut planting neared completion. Peach harvests moved northward into North Carolina. Pastures and livestock remained in fair to good condition.

SMALL GRAINS: Winter wheat remained in fair to good condition, although continued wet weather increased plant disease. In the 15 major producing States, 85% of the acreage was headed, 4 points behind a year ago. Heading was underway in all States. Harvesting became more active in southern areas. Progress ranged up to 38% finished in Georgia. On the central Plains and in the Corn Belt, the crop was turning color. Wet weather delayed harvesting in Oklahoma; high winds and rain caused localized lodging.

Spring wheat seeding in the 5 major producing States was 94% completed, 4 points behind average. Plants had emerged on 79% of the total intended acreage. All States except Montana were finished or nearly finished planting. Wet fields in that area delayed seedings. Soil moisture is ample in most areas for good growth of the crop.

CORN: Corn planting in the 17 major producing States slowly advanced to 89% completion, lagging last year's 92% and the average of 96%. Producers in western areas of the Corn Belt took advantage of several clear days and moved into fields for planting. Progress was still well behind normal, but not as far behind as the preceding week. Planting was 35 percentage points behind average in Nebraska, 25 in South Dakota, 18 in Iowa, and 10 behind average in Kansas. Planting was finished or neared completion in most other States. Emerged plants were in fair to good condition. The crop was silking in the South with development ranging up to 44% silked in Georgia.

SOYBEANS: Soybean planting in the 18 major producing States crept forward to 60% completion, ahead of last year's 58% but behind the average of 72%. Planting in the western Corn Belt remained well behind schedule. Nebraska producers fell 70 percentage points behind average; Iowa, 57; Kansas, 35; Minnesota, 23; and Missouri, 20. Rain and wet fields have delayed seeding during most of the season. Planting neared completion in Ohio, 23 points ahead of schedule. In the Southeast, much of the remaining acreage to be planted will be devoted to double-cropped soybeans following small grain harvest. Emerged plants were in fair to good condition.

SORGHUM: Sorghum planting fell further behind schedule as wet fields continued to delay planting. In the 7 major producing States, 43% of the acreage had been seeded, trailing 1981's 65% and the average of 69%. Progress was 75 percentage points behind normal in Nebraska, 41 percent in South Dakota, 30 percent in Kansas, and 20 percent slower than average in Oklahoma. Colorado was the only State where planting was ahead of schedule.

COTTON: In the 14 major producing States, 84% of the cotton acreage had been planted, behind the 92% for the same date a year earlier. Planting neared completion in all States except Oklahoma and Texas. Plants were in fair to good condition. Early-planted fields were squaring. Progress ranged up to 18% squared in Georgia. Replanting of fields damaged by heavy rains and hail was underway in the Texas Panhandle.

OTHER CROPS: Rice planting neared completion in all States except California. Seeding in the 5 major producing States was 96% completed. Rice had emerged on 88% of the acreage. The crop remained in fair to good condition.

Peanut planting was virtually finished in the Southeast. Early-planted fields were blooming and had started pegging.

Hay harvests moved northward as weather permitted. Wet weather damaged some cut hay. Because soil moisture is ample, growth should be excellent.

FRUITS AND NUTS: Harvesting of early-variety peaches moved northward into North Carolina. Picking in Georgia was 23% finished while the South Carolina harvest reached the 9% mark.

Florida's citrus groves were in very good condition. Rain improved soil moisture supplies. New crop fruit progressed well; good fruit sizes were reported. The Valencia harvest slowed due to dwindling supplies.

California's almonds, pistachios, and walnuts benefited from cooler weather. The Bing cherry and Derby apricot harvests were nearly finished. Desert dates and Hass avocados were moving to market. The desert grapefruit harvest gained momentum. The strawberry harvest remained active with good volumes available for fresh market and processing.

Washington's early cherry harvest got underway. Raspberry and blueberry plants showed a good set. Apple growers continued to spray trees.

VEGETABLES: Wet, cool weather slowed the growth of vegetables and delayed the planting of late-season crops in northern areas.

Florida's vegetable shipments decreased 27% from the previous week. Harvests declined rapidly for most crops. The strawberry harvest was finished.

Vegetable harvests continued very active in California with a wide variety of crops moving to market and processors.

Warmer weather benefited vegetables in Texas. Tomatoes were beginning to set fruit, and sweet corn was moving to market.

(cont. on back page)

CROP PROGRESS

FOR WEEK ENDING JUNE 6

WINTER WHEAT
% HEADED

	1982	1981	AVG.
CALIF	100	100	NA
COLO	79	69	59
IDAHO	8	21	16
ILL	98	100	96
IND	100	90	90
KANS	99	100	96
MO	94	100	98
MONT	1	15	20
NEBR	90	99	80
OHIO	95	70	75
OKLA	100	100	100
OREG	76	90	NA
S DAK	37	85	54
TEX	98	100	NA
WASH	35	77	54
15 STATES	85	89	NA
EXCL. STATES WITH NA	82	87	81

THESE 15 STATES PRODUCED 88% OF THE 1981 WINTER WHEAT CROP.

NA - NOT AVAILABLE

SPRING WHEAT
% PLANTED

	1982	1981	AVG.
IDAHO	100	100	100
MINN	95	99	98
MONT	85	100	100
N D	94	98	96
S DAK	100	100	100
5 STATES	94	99	98

THESE 5 STATES PRODUCED 92% OF THE 1981 SPRING WHEAT CROP.

SPRING WHEAT
% EMERGED

	1982	1981	AVG.
IDAHO	100	100	93
MINN	83	99	93
MONT	70	95	90
N D	72	93	82
S DAK	100	100	100
5 STATES	79	96	89

THESE 5 STATES PRODUCED 92% OF THE 1981 SPRING WHEAT CROP.

COTTON
% PLANTED

	1982	1981	AVG.
ALA	100	100	100
ARIZ	99	99	99
ARK	100	100	99
CALIF	100	100	NA
GA	95	100	100
LA	100	97	NA
MISS	100	100	100
MO	100	100	100
N MEX	95	99	99
N C	100	100	100
OKLA	35	60	55
S C	100	100	100
TENN	100	100	100
TEX	76	88	85
14 STATES	84	92	NA
EXCL. STATES WITH NA	82	90	88

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

NA - NOT AVAILABLE

SOYBEANS
% PLANTED

	1982	1981	AVG.
ALA	67	64	67
ARK	44	31	45
GA	58	60	67
ILL	82	59	81
IND	87	25	75
IOWA	35	94	92
KANS	10	25	45
KY	60	19	47
LA	70	71	70
MICH	80	75	80
MINN	68	94	91
MISS	65	57	60
MO	44	40	64
NEBR	10	85	80
N C	58	61	65
OHIO	98	35	75
S C	59	55	67
TENN	48	36	52
18 STATES	60	58	72

THESE 18 STATES PRODUCED 95% OF THE 1981 SOYBEAN CROP.

CORN
% PLANTED

	1982	1981	AVG.
COLO	95	91	94
GA	100	100	100
ILL	100	92	96
IND	100	60	95
IOWA	82	100	100
KANS	85	90	95
KY	98	81	90
MICH	98	95	96
MINN	92	99	97
MO	87	85	87
NEBR	65	98	98
N C	100	100	100
OHIO	100	75	90
PA	93	89	89
S DAK	69	96	94
VA	96	94	94
WIS	90	100	93
17 STATES	89	92	96

THESE 17 STATES PRODUCED 93% OF THE 1981 CORN CROP.

RICE
% PLANTED

	1982	1981	AVG.
ARK	96	96	94
CALIF	90	100	NA
LA	99	NA	NA
MISS	99	100	97
TEX	100	98	100
5 STATES	96	NA	NA
EXCL. STATES WITH NA	97	97	96

THESE 5 STATES PRODUCED 98% OF THE 1981 RICE CROP.

NA - NOT AVAILABLE

RICE
% EMERGED

	1982	1981	AVG.
ARK	87	94	93
CALIF	55	79	NA
LA	97	NA	NA
MISS	90	98	95
TEX	96	98	NA
5 STATES	85	NA	NA
EXCL. STATES WITH NA	88	95	93

THESE 5 STATES PRODUCED 98% OF THE 1981 RICE CROP.

NA - NOT AVAILABLE

SORGHUM
% PLANTED

	1982	1981	AVG.
COLO	46	46	45
KANS	15	30	45
MO	57	47	65
NEBR	10	85	85
OKLA	40	70	60
S DAK	21	69	62
TEX	82	91	88
7 STATES	43	65	69

THESE 7 STATES PRODUCED 92% OF THE 1981 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: Temperatures averaged below normal in northern half and above normal in southern half. Rainfall varied; heaviest northeast, near 7.00 in.

Soil moisture mostly adequate. Fieldwork: 4.5 days. Corn silked 34%. Sorghum planted 58%, 55% 1981, 54% average. Soybeans planted 67%, 64% 1981, 67% average. Wheat turning color 99%. Wheat harvested 25%, 37% 1981, 32% average. Conditions: Corn, cotton, peanuts, wheat, livestock, pastures, good. Activities: Planting sorghum and soybeans, cultivating field crops, controlling pests on fruit, vegetables, and crops; harvesting hay, wheat, peaches, and early vegetables.

ALASKA: Partly cloudy skies gave way to increasing cloudiness later in the week as rain and scattered showers spread over the region. Temperatures remained near normal. Precipitation amounts ranged from light to moderate with seasonal totals varying respectively from below to above average.

Cloudy skies and rain prevailed throughout much of Railbelt. Farmers had 4 to 7 days suitable for fieldwork. Barley planted for grain virtually complete in all areas. Emergence good in early planted fields. Rate of growth moderated in Matunuska Valley - Tanana Valley reports slow growth. Potato and vegetable planting continuing and nearly complete. Soil moisture adequate. Livestock in good condition.

ARIZONA: Sunny skies, windy afternoons. Average temperatures varied from 9° below normal to 3° above.

Cotton planting 99% complete, same as last year and average. Cotton left to be planted is double crop. Squaring, flowering of earlier planted fields increasing rapidly. Barley harvesting winding down while wheat combining full swing. Corn, sorghum making seasonal progress. Sugarbeet harvest almost complete, Yuma area and full swing, central area. Flowering, seed setting of safflower accelerating. Alfalfa baling seasonally active. Lettuce harvest, southeastern Arizona, still fairly active. Dry onion bagging in progress. Mixed vegetables harvest, except green onions, mostly finished. Table stock potato harvest winding down. Progressing potato digging in full swing. Shipping cantaloupes, watermelons increasing in volume, Yuma area. Grape harvest expected to begin 7th. Nectarine season mostly complete. Picking of plums began. Valencia oranges, lemons and grapefruit picked on demand. Ranges mostly fair to good condition. Extreme northern, southern areas poor condition due to warm weather, high winds drying range grasses. Livestock fair to good condition. Water supplies short to adequate. Dry weather conditions lowered stock tank water levels.

ARKANSAS: Cooler, wetter than normal. Highest temperature 95°, lowest 45°. All departures from normal +2 to -7°. Most rainfall 7.57 in., least 0.16 in.

Five days suitable for fieldwork. Soil moistures adequate to surplus. Crop growth moderate. All crops in good condition. Soybeans planted 44%, 31% 1981, 45% average; emerged 34%, 27% 1981, 32% average. Cotton all planted this year and 1981, 99% average; emerged 99%, 96% 1981, 97% average. Corn planted 95%, 100% 1981, 89% average. Sorghum planted 91%, 92% 1981, 86% average. Wheat harvested 12%, 8% 1981, 11% average. Good pastures. Peach and tomato harvests beginning.

CALIFORNIA: Entire State below normal temperatures with just a little rain in the extreme northeast part. Entire central valleys were 5° below normal. Central coast also 5° below normal. This week was just the opposite of last week, excepting that neither week had any rain.

Winter wheat 100% headed. Harvesting getting underway San Joaquin Valley. Imperial Valley harvest at peak. Barley harvest increasing. Rice 90% planted, 100% last year, 55% emerged, 79% emerged last year. Cotton fields cultivation and irrigation active. Sugarbeets growing well, harvest of overwintered beets remains. Alfalfa and oat hay cutting continues. Derby apricots harvest ending. Hass avocados to market. Bing cherries finishing. Desert dates packed. Coachella Valley Perlettes moving. Armking, Aurello Grand nectarines to fresh market. Olive bloom completed, Butte County. Springcrest Freestone peaches picked. Red Beaut plums finishing. Desert grapefruit gaining movement. Valencia orange eating quality good. Cooler temperature favorable for almonds, pistachios, walnuts. Artichokes fairly light supply. Asparagus for market light with heavy diversion to freezers. Broccoli fairly heavy supply. Bushberry harvest increasing. Cantaloup harvest active Imperial Valley, just starting Palo Verde Valley. Planting late varieties San Joaquin and Salinas Valleys. Cauliflower moderate supply central coast. Celery harvest active south coast. Sweet corn past peak Desert, starting south coast. Grading dry onions active Desert, increasing San Joaquin Valley. Harvest dehydrator onions started. Movement spring potatoes increasing but below last year. Fall potato movement decreasing seasonally. Strawberry harvest active. Good volume to market and processing. Market tomato harvest active Desert, underway south coast. Processing tomato harvest started Desert. Watermelon harvest active Desert. Grass dry the foothills. Cold night temperatures higher elevations curtailed grass growth summer pastures. Shipment cattle to market, summer pastures continues. New crop lambs going market. Turkeys, chickens doing well cooler weather. Harvest Crenshaw, honeydews underway Desert. Cucumber harvest continues Desert, increasing south coast, San Joaquin Valley. Lettuce good supply central coast.

FLORIDA: Warm, humid tropical air prevailed over the Peninsula, producing above normal shower, thunderstorm activity. Heavier precipitation fell southern Peninsula as Hurricane Alberto approached south 3rd, 4th; then dissipated off southwest coast, 5th. Drier air over the Panhandle early week gradually spread southward to central Peninsula by 6th. Rainfall averaged less than 0.50 in., Panhandle, 1.00 to 2.00 in. north central; 3.00 to 5.00 in. south. Temperatures averaged near normal, Panhandle, 1 to 3° above normal elsewhere.

Soil moisture variable, mostly excessive south, adequate to excessive central, north, short, few spots in west but mostly adequate to excessive. Corn, tobacco good condition, maturing rapidly, early harvest underway. Peanuts, early planted soybeans, sugarcane good growth. Soybean planting slowed by wet soils. Haymaking slowed by rain, wet fields. Frequent rains, warmer nights promoted pasture growth. Grazing rated good to excellent most areas.

Cattle and calves mostly in good condition. Citrus grove condition very good. Rain several days. New growth all areas. New crop fruit progressing very well with good fruit sizes. Valencia harvest active but slowing as supplies running out. Hot days, warm nights, cloudy skies, numerous showers and thunderstorms prevailed in vegetable areas. Rainfall generally moderate but heavier in the south Peninsula due to influence of Hurricane Alberto. Harvest declining rapidly for most crops. Total shipments decreased 27% from previous week. Strawberry harvest complete. Volume about steady eggplant, okra. Watermelons gained somewhat. Volume declined all other vegetables. Watermelon cutting increased, north. Harvest complete in lower half of State. Watermelons now lead in volume.

GEORGIA: Unseasonably warm with near normal rainfall. Average temperatures 3 to 5° above normal. Rainfall quite variable, average near 1.00 in. Additional rainfall 5th and 6th averaged near 0.50 in. southern third but less than 0.25 in. elsewhere early in the weekend. Otherwise dry with slightly below normal temperatures.

Soil moisture 16% short, 65% adequate, 17% surplus. Four days suitable for fieldwork. Planting, haying, harvesting and spraying for insects and weeds. Corn 31% fair, 63% good, 5% excellent condition, 44% silked, 42% last year. Cotton 95% planted, last year and average 100%, 18% squaring, 32% last year, 28% average; condition 3% poor, 38% fair, 54% good and 5% excellent. Peanuts 99% planted, 24% blooming, 25% last year, 28% average, 6% pegging, 5% last year and average; condition 2% poor, 37% fair. 54% good, 7% excellent. Some thrip damage in peanuts. Soybeans 58% planted, 60% last year and 67% average; condition 29% fair, 67% good, 4% excellent. Grain sorghum 57% planted this year and last, 53% average. Hay crop condition 4% poor, 23% fair, 63% goood and 10% excellent. Scattered showers causing hay damage in some counties. Wheat 38% harvested, 51% last year and 41% average; condition 6% poor, 54% fair, 38% good, 2% excellent. Wet fields and frequent showers in some counties delaying harvest. Other small grains 4% poor, 49% fair, 44% good, and 3% excellent. Tobacco condition 50% fair, 44% good and 6% excellent. Peaches 23% picked, 17% last year and average. Condition 13% very poor, 8% poor, 35% fair and 44% good. Apples 16% very poor, 16% poor, 35% fair, 30% good and 3% excellent. Pastures 23% fair, 65% good and 10% excellent. Cattle and hogs good.

HAWAII: Weather continues favorable. More areas under irrigation. Crop condition fair to good. Rains some areas beneficial, especially to windward banana orchards. Farm activities up. Vegetables: Supplies adequate. Quality good. Bananas: Supplies light. Papayas: Diseases older fields reducing yields. Supplies light. Pineapples: Pickings increasing. More fruits ripening. Sugar: Harvesting very active with favorable weather. Pastures: Generally fair to good.

IDAHO: Temperatures 3 to 7° below normal. A cool moist pattern dominated with most areas reporting precipitation. The north and southwest ranged from 0.20 to 0.60 below normal while southeast was 0.10 to 0.30 in. above normal.

Potatoes 99% planted, 72% in 1981 and 90% average. Potatoes emerged 37%, 44% last year and 46% average. Winter wheat 8% headed, 21% last year and 16 average. Spring wheat 2% headed, 4% last year and 3% average. Sugarbeet thinned 42%. Alfalfa first cut 8%. Dry beans 60% planted. Six days suitable for fieldwork.

ILLINOIS: Temperatures 5 to 9° below normal. Precipitation light in the north and heavy in the south; 0.20 to 1.50 in.

Winter wheat 4% excellent, 70% good, and 26% fair; 98% of the crop headed, 85% filled, 30% turning yellow. Corn planting 100%, 92% 1981, 96% average. Corn 13% excellent, 77% good, and 10% fair. Soybeans planting 82%, 59% 1981, 81% average. Alfalfa 37% of the first crop was cut, red clover 33% of the crop was cut. Oats 35% of the crop was headed, 10% filled. Pastures 22% excellent, 72% good, and 6% fair. Soil moisture 2% short, 38% adequate, 60% surplus.

INDIANA: Cool rather cloudy with near normal rainfall. Temperatures ranged from 34 to 84° and averaged 4° below normal. Rainfall averaged 0.70 in. in east, 0.90 in. central, 1.10 in. northwest. Solar radiation 60% of possible. Relative humidity above normal.

Fieldwork averaged 1 day. Topsoil moisture adequate to mostly surplus. Subsoil moisture adequate to surplus. Soybeans 87% planted, 1981 25%, average 75%. Soybeans 85% emerged, 1981 30%, average 60%. Corn 100% planted, 1981 60%, average 95%. Corn 12 in. high, 1981 4 in., average 7 in. Wheat fair to good condition. Wheat 100% headed, 1981 90%, average 90%. Wheat 10% turning, 1981 10%, average 10%. Oats 10% headed, 1981 20%, average 30%. Oats 14 in. high, 1981 16 in. Alfalfa 25% cut first time, 1981 30%, average 60%. Clover 20% cut, 1981 20%, average 35%. Tobacco plants 35% set, 1981 30%, average 45%. Pastures good condition.

IOWA: A cool, sunny, dry week. Light showers at midweek and light-to-moderate rains fell at weekend. Wettest north central but little rain fell southwest third of State. Temperatures averaged 6° subnormal.

Topsoil moisture: 64% surplus, 36% adequate. Subsoil moisture: 58% surplus, 42% adequate. Corn acreage planted: 82% complete, last year 100%, normal 100%. Corn acreage emerged: 68%, last year, 96%, normal 93%. Soybean acreage planted: 35% complete, last year 94%, normal 92%. Soybean acreage emerged: 16%, last year 71%, normal 75%. Oat acreage headed: 10%, last year 39%, normal 33%. First crop alfalfa hay harvested: 9%, last year 61%, normal 42%. Fieldwork: 3.2 days suitable. Crop conditions: corn-fair to good; pasture, wheat, oats and hay mostly good. Livestock in good condition.

KANSAS: Substantial rains 1.90 in. south central and east central, 3.50 in. southeast, 1.00 in. to 1.50 in. elsewhere. Totals locally as high as 5.43 in. and 8.06 in. with flooding southeast. Temperatures averaged 60° northwest to 64° northeast, 5 to 7° below normal west and north, 8 to 9° below normal elsewhere.

Wheat 99% headed, 100% last year, 96% average; 15% turning, 40% last year, 25% average. Continued precipitation brought crop planting to virtual standstill. Corn 85% planted, 90% last year, 95% average. Sorghum 15% planted, 30% last year, 45% average. Soybeans 10% planted, 25% last year, 45% average. First cutting alfalfa hay 30% complete, 80% last year, 75% average. Pasture and range continues good to excellent. Soil moisture adequate west, adequate to surplus central, surplus east. Fieldwork: 1 day suitable.

KENTUCKY: Moist and cool. Precipitation amounts averaged between 1.00 and 2.00 in. Mean daily temperatures were in upper 60's which was 5 to 10° below normal.

Three days favorable for fieldwork. Soil moisture mostly adequate to surplus. Burley tobacco 68% set compared with 54% last year and average. Dark tobaccos 65% set. Early set tobacco off to a satisfactory start. Corn 98% planted, 81% a year ago and 90% average. Corn in good condition with average height of 14 in. Soybeans 60% planted, 19% last year and average 47%. Barley harvest beginning. Average beginning date for wheat harvest 16th in west. Rust in many wheat fields. Pastures good to excellent.

LOUISIANA: Rainfall light, temperatures 1 to 4° above normal. Soil moisture short. Days suitable: 6.3. Corn silked 64%, 54% 1981, 39% average; condition fair to good. Cotton planted 100%, 97% 1981, emerged 99%, 96% 1981, 93% average, condition good. Rice planted 99%, emerged 97%, condition fair to good. Sorghum planted 90%, 80% 1981, 71% average. Emerged 84%, 77% 1981, 63% average; condition fair to good. Soybeans planted 70% 1982 and average, 71% 1981; emerged 58% 1982 and average, 63% 1981; condition fair to good. Sweetpotatoes transplanted 84%, 87% 1981, 80% average; condition fair to good. Wheat harvested 66%, 73% 1981, 65% average. Sugarcane condition rated fair to good. Smut disease reported. Peaches harvested 16%, 15% 1981. Hay (first cutting) 69%, 72% 1981. Vegetables rated fair to good. Pasture rated fair to good. Livestock rated good.

MARYLAND AND DELAWARE: Rainfall slowed fieldwork in Maryland with 3.5 days suitable. Corn acreage planted 97%, last year 95%; average 92%. Soybeans planted: 55%, last year 40%, average 45%. Small grains behind last years development. Acreage turned this year: barley, 70%; oats, just began; rye, 35%; wheat, 15%. Last year at this time: 85%, 55%, 65%, 30%, respectively. Hay acreages cut unchanged; alfalfa, 55%, other, 25% behind last year.

Delaware farmer had 4 good work days to finish corn ahead of last years 98%, and average 97%. Soybeans, 75% planted, last year 60%; average 45%. Barley, rye and wheat a week ahead of last years development. Hays cut were alfalfa 60%, other 50%. Subsoil moisture now adequate, topsoil moisture adequate to surplus. Insect infectations widespread at moderate to severe levels.

MICHIGAN: Cool, wet week. Temperatures averaged 3 to 6° below normal. Moderate amounts of precipitation fell over the Lower Peninsula. The Upper Peninsula reported only light rainfall. Cool temperatures slowed progress of crops.

Wet soil slowed fieldwork. Statewide about 4 days were suitable for field activity. Corn planted virtually complete. A few fields remaining to be planted. Soybeans 80% seeded, 75% last year, 80% average. Nearly all potatoes in. Dry bean planting 20% complete, 30% last year and average. Winter wheat 55% headed, last year 25% and 46% average. Oats beginning to head out in early fields. Fruits progressing well. Vegetable progress slowed by the cool temperatures.

MINNESOTA: Temperatures averaged from the low 50's to low 60's and were generally 2 to 10° below normal. Highest temperature reported was 78° at Becker, Hutchinson, and St. Cloud. Coolest temperature was 28° at Itasca. Much of State received less than 0.50 in. rainfall but heavier amounts scattered throughout the State and more common in the southwest. Heaviest amount was 2.22 in. at Lamberton.

Planting made rapid progress at end of week. Mostly dry and sunny and strong winds helped dry soils. Most planting done around wet spots. Wet weather followed by dry, windy weather has crusted topsoil making emergence slow and spotty. Topsoil moisture 14% short, 64% adequate, and 22% surplus. Planted: Field corn 92%, 1981 99%, normal 97%; soybeans 68%, 1981 94%, normal 91%; sunflowers 72%, 1981 96%, normal 91%; potatoes 85%, 1981 95%, normal 89%; dry beans 79%, 1981 NA; spring wheat 95%, 1981 99%, normal 98%; barley 94%, 1981 99%, normal 97%. Emerged: Field corn 74%, 1981 93%, normal 88%; soybeans 34%, 1981 66%, normal 69%; spring wheat 83%, 1981 99%, normal 93%; oats 93%, 1981 99%, normal 95%; barley 79%, 1981 99%, normal 91%. Jointing: Spring wheat 13%, 1981 46%, normal 27%; oats 12%, 1981 51%, normal 29%; barley 11%, 1981 39%, normal 25%.

MISSISSIPPI: Temperatures slightly below normal north and slightly above normal south. Highest temperature reported 96°. Central sections of State received greatest amounts of rain, with south central and southwest very little to no rain.

Soil moisture adequate to surplus northeast, adequate to short in Delta and short in south. Fieldwork: 5.0 days suitable. Wheat harvest, soybean planting and weed and insect control main farm activities. Rice 99% planted, 100% last year, 97% average; 90% to stand, 98% last year, 95% average; condition good to fair. Soybeans 65% planted, 57% last year, 60% average; 43% to stand., 43% last year. Cotton 100% planted, 100% last year and average; 98% to stand; 7% squaring, 12% last year, 9% average; condition good to fair. Peanuts 95% planted, corn 99%, sorghum 74% and sweetpotatoes 72% planted. Hay harvest 40% completed. Winter wheat 88% ripe, 23% harvested. Pasture condition good to fair.

MISSOURI: Precipitation averaged 1.50 to 2.50 in. Temperatures averaged 2 to 10° below normal.

Fieldwork: 0.9 days suitable. Corn 87% planted, last year 85%, normal 87%. Grain sorghum 57% planted, last year 47%, normal 65%. Soybeans 44% planted, last year 40%, normal 64%. Wheat 94% headed, last year 100%, normal 98%. Wheat 33% turning color, last year 72%, normal 47%. Alfalfa hay 1st cutting 38% harvested, last year 73%, normal 62%. Condition of winter wheat fair to good. Condition of pasture mostly good. Topsoil moisture supply mostly surplus.

MONTANA: Cool week as temperatures averaged 2 to 8° below normal. Coolest in southwest where temperatures averaged in 40's. Greatest departures in South Central. Freezing temperatures occurred over much of State early in week. Precipitation mostly at end of week, heavy over South Central and mostly moderate elsewhere.

Topsoil moisture adequate to surplus. Subsoil moisture adequate. Days suitable for fieldwork less than 2. Winter wheat condition fair to good; 15% in boot and 1% headed, normally 40 and 20. Percent planted compared with last year and average; Spring wheat 85, 100, 100; oats 85, 100, 100; corn 70, 85, 85; potatoes 80, 85, 85; dry beans 70, 90, 95. Percent emerged: Spring wheat 70, 95, 90; barley 80, 95, 85. Condition of emerged spring crops good. Some frost damage especially corn and sugarbeets. Rate of growth hay and range grasses slow to average. Livestock moved to summer ranges 75%. Heavy snowfall and cold wind central region caused livestock deaths in young and adult animals. Winter winter damaged in that area, extent not known. Warmer weather will reveal effects of storm. No major damage apparent now.

NEBRASKA: Precipitation: 1.00 to 1.50 in. common over western and northern portions; 1.00 in. over southeast and less than 0.50 in. across east central. Temperatures: About 7° below normal; cool nights common.

Active planting resumed late in week. Corn 65% planted, still 2.5 weeks behind normal, 98% last year and normal; emerged 45%, 90% last year and normal. Sorghum 10%, 85% last year and normal. Soybeans 10% planted, 85% last year and 80% normal. Wheat mostly good to fair; headed 90%, 99% last year and 80% normal. First cutting of alfalfa 10%, 65% last year and 50% normal. Alfalfa rank with some fields lodged badly. First cutting about two weeks late. Wild hay good. Topsoil moisture adequate to mostly suplus. Subsoil moisture adequate to surplus. Pasture and range feed mostly adequate to surplus. Days suitable for fieldwork: 2.5.

NEVADA: Light snow fell some areas north and west. Week began with temperatures slightly below seasonal normals but dropped to 15 to 28° below normal north and 10° below south by end of period. Averages varied from 6° below normal northwest to 3° below normal northeast and south central.

Development most crops behind normal due below normal temperatures and frost nights. Alfalfa hay harvest started extreme south. Most calving and lambing completed.

NEW ENGLAND: Average temperatures ran near to 3° below normal except around 2° above normal in northern Maine. Highest temperature, 81° early in week. Lowest temperature 30° at Houlton, ME on 4th. Precipitation occurred every day except the 3rd, with station amounts totaling above normal. Largest totals were 9.84 in. at Windsor Locks, CT and 9.33 in. at Hartford, CT. Unofficial reports had local amounts in excess of 10.00 in. Flood conditions existed for the weekend.

Soil moisture: mostly adequate. About 4 days favorable for fieldwork. Grazing adequate. Cranberries: First open blossoms in about one week. Spraying for gypsy moth and cutworms. Apples beyond petal fall. Corn for silage 90% planted. Hay: Rain increased prospects, lodging, 10% harvested. Potatoes: Maine planting virtually complete, about 12% emerged, dry.

NEW JERSEY: Temperatures averaged 2 to 4° below normal. Extremes: 41° at Charlotteburg on 3rd and 86° at Downstown 1st and 2nd. Rainfall averaged 1.22 in. north, 0.80 in. central and 0.93 in. south. Heaviest 24 hour total 0.93 in. at Belvidere Bridge on 1st and 2nd. Estimated soil moisture, in percent of field capacity averaged: 96 north, 82 central and 75 south. Four inch soil temperature averaged: 63 north, 66 central and 66 south.

Fieldwork: 3.4 days suitable. Excessive soil moisture slowing field activities. Isolated hail storm occurred during weekend. Cabbage and iceberg lettuce harvest underway. Irish potatoes in bloom. Sweetpotato transplanting begun. Strawberry harvest active. June drop in progress on peaches. Some thinning being done. Grain, hay and pasture crops in good condition.

NEW MEXICO: Dry conditions persisted. Average temperatures were a few degrees below normal.

Outdoor activities progressed unhampered. Soil moisture remains in a short to adequate supply, depending on the area. Most cotton fields in good condition. However, growth continues to be slowed due to cool nighttime temperatures. Alfalfa in good condition. Insect problems have been limited so far. Irrigated wheat and barley in good condition with the dryland in poor to fair condition. Harvest expected to get underway this week. Planting of grain sorghum continuing. Corn fields emerging in good condition. Onion harvest underway. Peanut planting about 50% complete. Chile fields remain in good condition. Ranges in fair condition. Livestock in good condition.

NEW YORK: Temperatures near normal, rainfall mostly well above normal. The dry spell is over.

Fieldwork slowed considerably. Corn planting 87% complete, 87% 1981, 85% average. Oat planting about done, condition good. Wheat headed, poor haying conditions. First cut alfalfa 5% done, under 5% 1981, 5% average. Clover-timothy hay just starting. Grass silage 8% done, under 5% 1981, 5% average. Slow progress on dry bean planting. Strawberry bloom heavy. Onion maggots, Colorado potato bettles active.

NORTH CAROLINA: Temperatures: 3 to 5° above normal. Precipitation: Amounts were quite heavy in most localities ranging from 0.20 in. at Marshall to 6.04 in. at Smithfield.

Fieldwork: 3.7 days suitable. Soil moisture: 2% short, 26% adequate, and 72% surplus. Conditions: Field tobacco, peanuts, and Irish potatoes fair to mostly good; corn, soybeans, sweetpotatoes, and truck crops mostly good; cotton fair to good; apples and peaches mostly poor. Plantings: Sweetpotatoes 58%, 1981 67%, 66% average; sorghum 75%, 1981 79%, 64% average; soybeans 62%, 1981 61%, 65% average; burley tobacco 75%, 1981 77%, 69% average. Harvests: Irish potatoes 2%, 1981 0; peaches 1%, 1981 6%; hay 17%, 1981 29%. Major farm activities: Soybean planting, hay cutting, and cultivation of tobacco.

NORTH DAKOTA: Cool, dry weather prevailed. Temperatures averaged from zero to 6° below normal. Averages ranged from 53° north central to 57° northwest. Extremes from 82° northwest to 27° northeast. Precipitation averaged from 0.55 in. below normal northwest to 0.77 in. below normal southeast. Averages from 0.01 in. northeast to 0.18 in. south central.

Generally favorable conditions allowed farmers to nearly complete small grain seeding. Small grains 95% or more seeded. Southwest and south central districts have the most acreage remaining. Row crop planting also made progress with potato and soybean planting nearly complete. Sunflower planting two-thirds done, about 4 days behind average pace. Weekend rains, 6 and 7th, will delay remaining planting. Average of 5.7 days suitable for fieldwork. Excellent moisture conditions continue. As of 6th, 88% of State with adequate topsoil moisture, 12% surplus. Last year 14 short to very short, 78 adequate and 8 surplus. Average 35 short to very short, 63 adequate and 2 surplus. Percentages planted through 6th along with last year and average: Hard red spring wheat 95, 98, 96; durum 96, 97, 94; barley 98, 96, 95; oats 95, 98, 95; sunflower 67, 79, 77; flax 70, 77, 71; corn 74, 85, 81; potatoes 94, 93, 92; dry beans 84, 90, 91; and soybeans 96, 89, 86.

OHIO: High temperatures averaged upper 60's to mid 70's, 4 to 8° below normal, fell into 40's in all but southern areas. Cool weather kept growing degree day accumulations from 15 to over 30 below normal; totals ranged from 80 or less to over 100 south. Precipitation below normal but drying slow in cool air. Totals ranged from less than 0.20 in. northwest to over 1.00 in. at few scattered locations.

Crops mostly in fair to good condition; corn rate good. Some row crops replanting to improve stands and replace hail damaged stands; mostly soybeans. Rain and wet fields spurred weed growth; spraying, cultivation falling behind. Hay harvest slowed and quality lowered by wet weather. Pastures improving from rain. Corn planted 100%, 75% 1981, 90% average. Soybeans planted 98%, 35% 1981, 75% average. Wheat headed 95%, 70% 1981, 75% average. Oats headed 5%, 10% 1981, 15% average. Alfalfa harvested (1st cut) 35%, 25% 1981, 40% average. All other hay harvested (1st cut) 25%, 10% 1981, 25% average. Tobacco transplanted 35%, 15% 1981, 15% average. Days favorable: 2.5. Pasture condition fair. Soil moisture 1% short, 59% adequate, 40% surplus.

OKLAHOMA: Rainfall ranged from 0.25 in. in the Panhandle to 2.32 in. in the east central division. Temperatures averaged from 4° below normal in the northeast and south central divisions to 8° below normal in the Panhandle, north central and central divisions.

Wheat harvest delayed by wet weather. High winds, rain caused lodging in scattered localities. Wheat headed: 100%, 1982; 100%, 1981; 100% average. Sorghum planted: 40%, 1982; 70%, 1981, 60% average. Sorghum up-to-stand: 70%, 1982; 40% 1981, 25% average. Cotton planted: 35%, 1982, 60%, 1981; 55% average. Days suitable for fieldwork: 2.7.

OREGON: Spring weather turned cooler and wetter by midweek. Temperatures averaged near normal west, 4 to 5° below normal east. Rainfall amounts up to 0.20 in. over western sections; up to 0.50 in. in far eastern regions. Additional rains fell over the weekend.

Soil moisture supplies mostly short to adequate. Rain helped some. Winter wheat mostly good condition; 76% headed; 90% last year. Alfalfa and grass haying well underway. Spring grains showing moisture stress. Crimson clover good. Peppermint slow. Strawberry harvest started; need more rain for good berry size. Cranberries, raspberries, Marion berries blooming. Fruit sets vary considerably. Spray programs on schedule. Vegetable plantings continue on schedule. Most vegetable fields in good shape. Onions look good in western fields. Most potatoes planted except for a few late fields. Potato growth good to excellent. Range and pasture conditions fair to mostly good. Need rain and warm weather. Livestock mostly good shape.

PENNSYLVANIA: Slow moving frontal system early in the week and complex low pressure with multiple centers moving up the east coast latter part of the week, brought heavy rainfall. Amounts ranged from just over 1.00 in. in the southwest to 5.00 in. in the lower and middle Susquehanna Valley. Average rainfall 2.70 in. This was the wettest week in the past 3 years. Cool temperatures kept the State average below normal.

Two days suitable. Moisture surplus to adequate. Activities: Spraying; making hay and silage; transplanting tobacco; harvesting green peas and strawberries; general repairs; and planting corn, potatoes, soybeans, and tomatoes. Soybeans 65% planted, last year 55%. Potato planting virtually complete, same as last year. Corn 93% planted, last year and average 89%. Tobacco transplanting 68% complete, last year 44%. Barley 86% headed and 5% turning yellow, last year 75% headed and less than 5% turning yellow. Wheat 69% headed, last year 60%. First cut alfalfa 16% complete, last year 28%. Quality of hay made poor to fair. Feed from pastures mostly average.

PUERTO RICO: Island average rainfall 1.80 in. or 0.03 in. above normal. Temperatures averaged about 81 to 80° on Coasts and 75 to 74° Interior Divisions. Extremes: 92 and 59°.

SOUTH CAROLINA: Temperatures near normal. Scattered thunderstorms brough 3.00 to 4.00 in. producing flooding in central and eastern.

Soil moisture adequate, 4 workable days. Corn, good condition. Acreage silking at 11% compared to 14 a year ago. Development good. Tobacco fair to good. Percentage topped at 4%, 2 in 1981. Insect population increasing. Peach harvest continue, Coastal Plains and Ridge areas. Varieties harvested Junegold and Dixireds. Quality good. Nine percent harvested, 6% last year and average. Vegetable harvest continue. Tomatoes acreage underway, 5% picked. Small grain harvest slow, moisture content varying. Wheat 17% harvested, 18% last year, 24 average. Oats 24% same as last year and 33 average.

SOUTH DAKOTA: Rainfall at all reporting stations. Extremes: 1.47 to 0.02 in. Most areas above normal for year, except extreme eastern portion below normal. Temperatures 3 to 10° below normal. Extremes: 87 to 24°.

Activities: Weed spraying, machinery maintenance and preparation, working livestock, row crop planting. Topsoil moisture mostly surplus southern half, adequate elsewhere. Small grains all emerged and in good condition. Mosaic and tan leaf still present. Range and pastures good, water supply adequate. Flax planted 86%, 1981 86%, average 87%. Corn planted 69%, 1981 96%, average 94%. Sorghum planted 21%, 1981 69%, average 62%. Soybeans planted 36%, 1981 95%, average 84%. Sunflowers planted 36%, 1981 62%, average 58%. Corn acreage cultivated once: 9%, 1981 19%, average 16%. Winter wheat boot stage and beyond 74%, 1981 96%, average 85%. Winter rye boot stage and beyond 91%, 1981 98%, average 92%. Spring wheat boot stage and beyond 16%, 1981 57%, average 32%. Oats boot stage and beyond 22%, 1981 60%, average 37%. Barley boot stage and beyond 17%, 1981 63%, average 38%. Winter wheat heading 37%, 1981 85%, average 54%. Winter rye heading 67%, 1981 91%, average 71%. Flax acreage emerged 55%, 1981 75%. Alfalfa acreage harvested once 2%, 1981 13%, average 12%.

TENNESSEE: A cold front crossed the State on the 2nd. The front became stationary south of area, remaining close enough to set off showers through the 4th. Temperatures averaged 2° below normal. Highs reached the upper 80's in the west. Showers and thunderstorms totaled from 1.50 to 2.00 in. of rain in a few spots, including the previously dry northeast. However, the southeast had less than 0.50 in. for the week.

Fieldwork: 4.1 days suitable. Soil moisture 65% adequate, 13% short, 22% surplus. Cotton 100% planted, 1981 100%, average 100%. Soybeans 48% planted, 1981 36%, average 52%. Tobacco 82% transplanted, 1981 85%, average 75%. Wheat 86% turning color, 10% ripe. Oats 77% turning color, 8% ripe. Development of small grains behind normal. Pastures in fair to good condition. Alfalfa hay, 1st cutting 94% complete. Activities: Planting soybeans, transplanting tobacco, making hay, spraying for weeds and insects.

TEXAS: Weather: Week started clear with high pressure ridge moving eastward across State. Thunderstorms developed North, West Texas later in week due to low pressure trough eastern New Mexico. Temperatures 2 to 3° above normal. Precipitation averages ranged from 0.25 to 0.50 in. below normal

western portion of State; 0.50 to 1.00 in. below normal elsewhere.

Range and livestock: Ranges, pastures make good growth with adequate moisture supplies, warm, open weather. Some areas Trans-Pecos, Edwards Plateau, hot, dry winds drying available forage; supplemental feeding continues. Grasshopper populations increasing Low Plains through Cross-Timbers. Livestock good to excellent condition. Hornflies problem southern half State, producers continuing control measures. Markets steady.

Commercial vegetables: Lower Rio Grande Valley, producers assessing recent hail damage tomato, cantaloup stands. Cucumbers, honeydews, watermelons, green peppers, sweet corn moving to market. Coastal Bend, vegetables making good growth with warm, open weather. San Antonio-Winter Garden, fields beginning to dry; most vegetables making good growth. Cucumber, potato, onion harvest continued; melon harvest begin soon. East Texas, sweetpotatoes, tomatoes, watermelons developing well. Tomatoes setting fruit; disease problems prevalent some fields. Trans-Pecos, high winds damaged some carrot, onion, tomato fields. Cantaloups Hudspeth County develop slowly because salinity problems. Plains, vegetables making good progress with warmer temperatures. Onions damaged by recent hail storms expected recover. Peach harvest making good progress Hill Country. East Texas disease problems evident some orchards; some early peaches cracking excess moisture. Low Plains crop light due to late season freezes. Producers spray pecan trees for casebearers. Webworms increasing southern part of State. Trans-Pecos minor hail damage reported some orchards.

Crops: Planting operations, small grain harvest good progress during week with warm, open weather. Growing conditions very good most areas. Some areas Blacklands to coast, excess moisture stunted crop development; some losses reported in waterlogged fields. Cotton planting progress, since dry, open weather prevailed. Replanting underway Panhandle fields destroyed by heavy rains, hail previous week. Some fields replanted soybeans, sunflowers. High winds damaged some young stands Trans-Pecos; high soil salinity problem some areas. Insect control activities underway Blacklands through South Texas. Sorghum planting gained momentum across Panhandle with drying conditions. In the Blacklands scattered fields water logged; small heads forming some stands. Insect, weed control measures underway Blacklands southward. Corn making excellent progress across State response recent moisture. Most stands good condition. Fields Blacklands approaching the roasting-ear stage. Wheat harvest progress during week. Fields dried with warm, open weather; harvesting operations active many areas. Fields rapidly turning color Northern High Plains; harvest delayed because late sucker heads emerged some stands. Cool, cloudy weather Cross-Timbers delayed ripening scattered areas. Reported condition across State 69% of normal with 2% excellent; 34% good; 58% fair; and 6% poor. This compares with 72% of normal last year. Rice making good growth along coast. Grass remains problem some fields, control measures active. Wet soil conditions delay peanut planting Cross-Timbers. Seeding active Blacklands; some fields South Central Texas good stand. Soybean planting making good progress many areas. Late varieties being planted along coast; seeding active Central Texas. Haying operations active across State. Cloudy weather South Central Texas delayed curing; most cutting, baling operations good progress during week few interruptions. Cotton planted 76%, 88% 1981, 85% average. Cotton squaring 12%, 18% 1981. Cotton setting bolls 4%, 9% 1981. Rice planted 100%, 98% 1981, 100% average. Rice emerged 96%, 98% 1981. Sorghum planted 82%, 91% 1981, 88% average. Sorghum headed 25%, 42% 1981. Sorghum turning color 6%, 12% 1981. Wheat headed 98%, 100% 1981. Wheat turning color 63%, 83% 1981. Wheat harvested for grain 12%, 16% 1981, 13% average. Oats harvested 21%, 48% 1981, 40% average. Corn planted 100%, 100% 1981, 100% average. Peanuts planted 25%, 42% 1981, 46% average. Soybeans planted 26%, 42% 1981, 48% average. Sunflowers planted 30%, 58% 1981, 39% average.

UTAH: Recurring periods scattered shower and thunderstorm activity. Accumulated amounts generally light to moderate, but locally heavy few localities. Average temperatures continued generally below normal. Averages ranged from near normal to 12° below. Local killing frosts colder valleys central and north portions.

Cool weather and some scattered frost continued to delay crop growth. Soil moisture short to adequate. Grain, hay and pastures all behind normal. Wheat, barley, and alfalfa have serious weed problems. Some hay fields cut early to remove weeds. Corn planting nearly complete. Emerged corn yellow and growing slow because of cool weather. Ranges and dryland wheat show signs of moisture stress. Major activities include irrigation, weed and insect spraying, and hay harvesting.

VIRGINIA: Warm, humid at beginning with highs in 80's and 90's; lows in 50's and 60's. Cooling toward end of period with highs in 60's and 70's. Showers and thunderstorms ended late in period, leaving about 2.00 in. rain. Heaviest in north and least in southwest.

Frequent and sometimes heavy rains continue to restrict haymaking and planting activities. Topsoil moisture rated 46% adequate, 53% surplus. Days suitable for fieldwork ranged from none to 7 and averaged 2.4. Corn in excellent condition and 96% of the acreage planted, 94% 1981, 94% average. Soybeans also rated excellent, 48% planted, 54% 1981, 43% average. A few growers have planted behind harvested small grains. Peanuts also rated excellent. Tobacco rated good to excellent. Flue-cured tobacco 92% transplanted, 94% 1981, 84% average. Burley 75% planted, 72% 1981, 50% average. Fire-cured tobacco 74% set, 84% 1981, 66% average. Sun-cured tobacco 72% set, 79% 1981, 61% average. Barley 14% harvested, 10% 1981, 5% average. Oats 3% combined, 3% 1981, 1% average. Some wheat was harvested in southwest but most not yet mature. Wind and rain have caused some lodging in small grains. Hay in fair to good condition, some becoming overmature. Some cut hay quality will suffer from rains. Pastures now rated good to excellent. Apple orchards rated mostly good, and peaches rated poor to fair. Some southwestern fruit trees judged near failure. Livestock continue in good condition and some sheep shearing still reported. Wet fields after the long dry period becoming a problem due to weeds.

WASHINGTON: Offshore flow persisted over the State during the first half of the week. A low pressure trough, usually associated with the summer months, brought mostly dry, fair skies and warm to hot daytime temperatures to most of the State through 1st. But late on 1st pressure increased along the coast; as a result, marine air spread inland lowering maxium temperatures by more than 10° in the west and above 5° east of the Cascades. Little significant rainfall was reported except for spotty rainshowers east of the mountains.

West: The seeding of summer vegetables continues, through winding down. Harvest of winter cauliflower was completed while harvest of lettuce, field rhubarb, spinach, radishes and other early produce continued. Early strawberry harvest expected to begin this week. Raspberry and blueberries setting well. Seeding of field corn was virtually complete. Green chopping continues.

East: Winter wheat and barley overall, in average condition. There were some dryland areas

reported below average. Percent of wheat headed was 35%, compared to 77 last year. Seeding of dry beans and peas near completion. Early cherry harvest getting underway while apple growers continue to spray. First cutting of alfalfa hay got underway. Hay and roughage feeds mostly adequate. Winter wheat headed 35%, 77% 1981, 54% average.

WEST VIRGINIA: Temperatures averaged near normal except below normal in southwestern area. High 88°, low 44°. Precipitation averaged above normal. Some heavy showers with localized flooding.

Soil moisture adequate. Days worked averaged 3.3. Main activities hay harvesting and gardening. Wheat fair to good: 7% pre-jointed, 26% jointed, 67% heading; 2%, 39%, and 59% in 1981. Barley good to fair condition: 4% pre-jointed, 22% jointed, 74% heading; 2%, 22% and 76% in 1981. Oats fair to good condition: 99% planted, 95% emerged; 98% and 95% in 1981. Corn fair to good condition, 85% planted and 85% emerged; 82% and 77% in 1981. Tobacco fair to poor condition. Planting completed, 97% emerged, and 35% set; 100%, 100%, and 28% in 1981. Hay fair condition; first cutting 10% complete, 9% in 1981. Peaches poor to fair condition. Apples fair to poor condition. Pastures fair to good condition. Gardens fair to good condition. Hay supplies short to adequate, other feeds adequate.

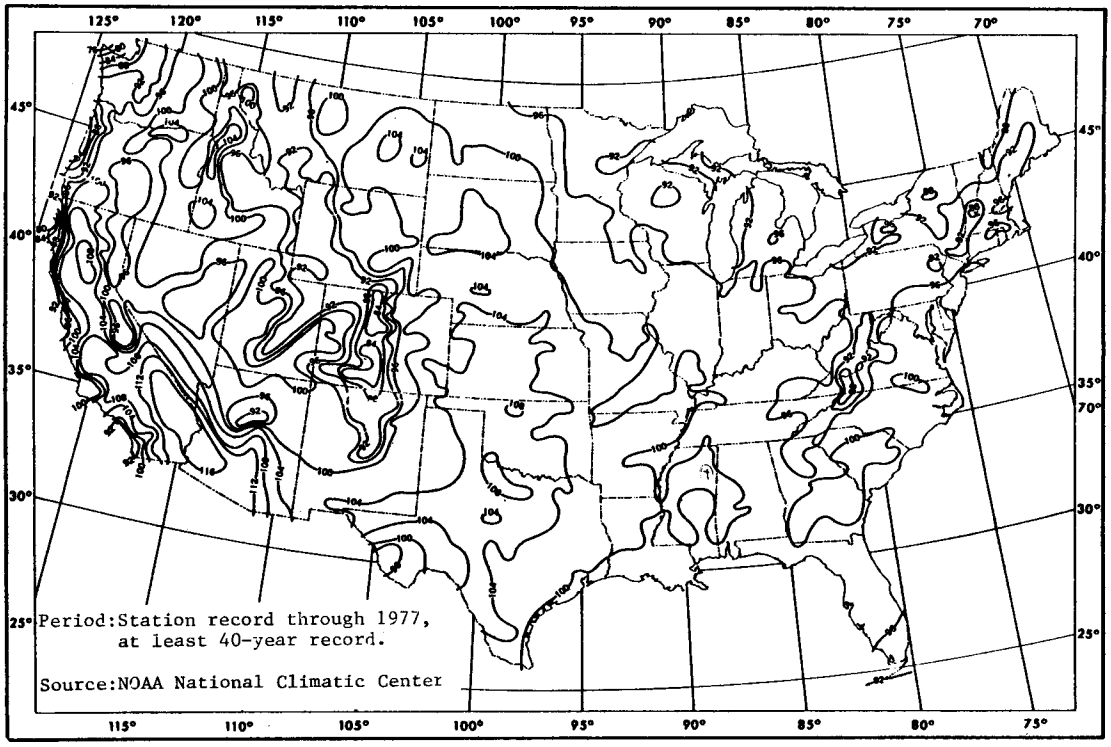
WISCONSIN: Temperatures averaged 9° below normal. Widespread frost occurred over north on the 3rd and 4th, with some scattered frost in the same area on the 5th. Temperatures remained at or below normal for most of the week with some moderation occurring over the weekend. Temperatures ranged from a high of 82° in Neenah on the 5th to a low of 26° in Morse on the 3rd. Scattered showers fell on the 31st which preceeded a dry spell which lasted until the 6th, when rain moved across the State. Precipitation totals ranged from trace amounts to 0.25 in. The heaviest total was recorded in Juneau which received 0.70 in.

Fieldwork: 5 days suitable. Farmers welcomed the dry week and made progress with corn planting. Currently 90% of the State's intended corn acreage has been planted, 100% 1981, 93% average. Soybean planting continuing; 66% complete, 98% 1981, 76% average. State farmers took advantage of the weather to begin the first crop hay harvest. Currently 5% of the first crop has been made, 11% 1981, 8% average. Hay yields appear to be quite good. Pastures continue to look good; rated at 95% of normal, 77% 1981, 86% average. Winter wheat beginning to head in southern areas and looks good. Topsoil moisture supplies were rated 17% short, 66% adequate and 17% surplus. Moisture sparse in the northeast district where supplies were rated 88% short.

WYOMING: Temperatures below seasonal. Big Horn drainage areas 10° below normal. For several weeks eastern parts have had a lot of precipitation and last week was no different. Greatest amount 3.38 in. Central part mostly dry.

Topsoil moisture adequate 79% State. Average 5 days suitable fieldwork. Potatoes planted: 65%; year ago 85%; normal 85%. Potatoes emerged: 25%; year ago 35%; normal 42%. Dry beans planted: 45%; year ago 60%; normal 74%. Dry beans emerged: 10%; year ago 5%; normal 29%. Spring wheat planted: 95%; last year 90%. Spring wheat emerged: 80%; year ago 80%. Corn planted: 85%; year ago 95%. Corn emerged: 50%; year ago 55%; normal 70%. Barley planted: 90%; year ago most. Barley emerged: 85%; year ago 95%; normal 94%. Oats planted: 90%. Oats emerged: 75%; year ago 85%. Sugarbeets emerged: 90%; year ago most. Sugarbeets thinned: 15%. Winter wheat fair to good condition, 15% headed. Fourty-five percent cattle, calves and 50% sheep, lambs moved to summer ranges.

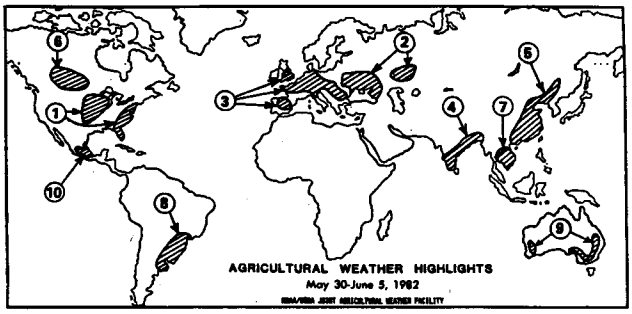
(cont. from p. 11)



Extreme annual maximum temperature for the .5 probability level (2-year return period).

International Weather and Crop Summary

May 30 - June 5



1. UNITED STATES: Wet soils again delay planting of corn, soybeans, and grain sorghum in central Plains and western Corn Belt while rains generally benefit eastern seaboard. Standing water and lodging hurts some wheat in central Plains.

2. USSR: Dry weather returns to the major winter grain areas of the Ukraine and North Caucasus. Showers benefit the extreme western portion of the New Lands.

3. EUROPE: Showers maintain favorable growing conditions in many areas.

4. SOUTH ASIA: Tropical storm hits eastern India while the monsoon begins in the south.

5. EASTERN ASIA: Detrimentally dry weather prevails in northern China, while wet weather continues in the south.

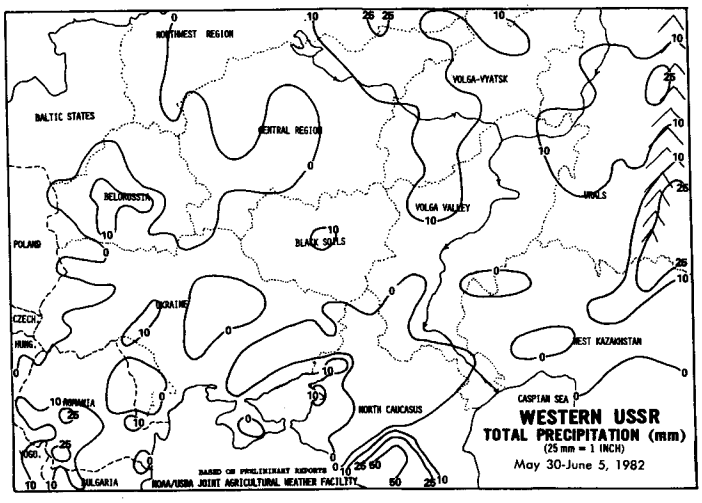
6. CANADA: Showers hinder progress of spring crop planting.

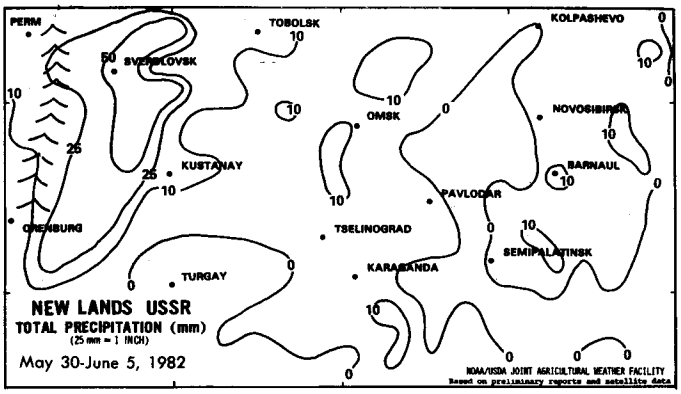
7. SOUTHEAST ASIA: Rainy season continues.

8. SOUTH AMERICA: Scattered showers aid wheat crops in Argentina and Brazil.

9. AUSTRALIA: Beneficial moisture for wheat planting falls but more is needed.

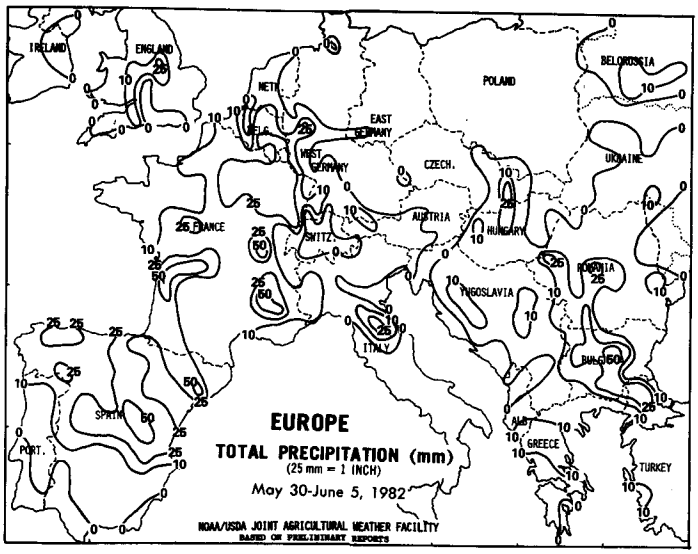
10. MEXICO: Rainy season temporarily stalls, stressing some rain fed crops in southern Plateau and along western gulf coast.



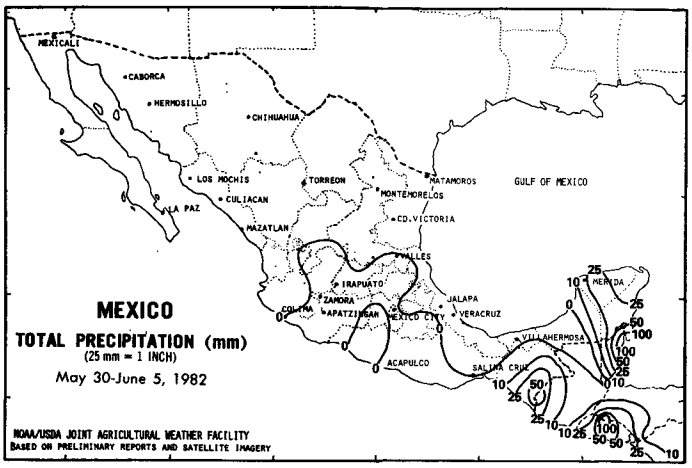


USSR: A ridge of high pressure over Western European USSR kept most western crop areas generally dry. Although some showers were able to penetrate the southern North Caucasus, much of the region, as well as the Ukraine was dry. Reports indicate that winter grains are in the flowering stage in the extreme southern Ukraine and North Caucasus. In addition, winter grains should be entering the heading stage in the central and parts of the northern Ukraine. Drier weather occurred over northern crop areas of European USSR where moisture supplies are adequate. In Eastern European USSR, highly beneficial rains fell on some crop areas, improving topsoil moisture supplies needed for good early growth of spring crops. Weekly temperatures continued above normal in Western European USSR but were below normal in the east with light scattered frost reported at some locations in the northeast.

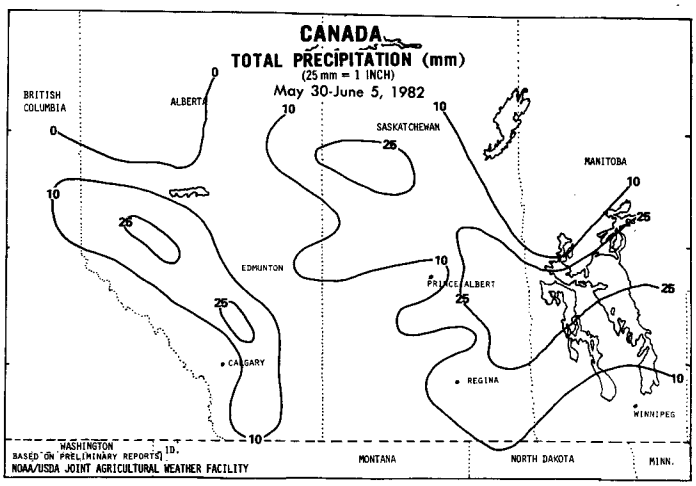
In the New Lands, a frontal system advanced eastward producing showers over some areas. The heaviest amounts of rainfall, from 25-50 mm, fell on the extreme western portion of the region. Hot, dry conditions were reported over central and eastern areas ahead of the front with maximum temperatures in the low thirties (C) reported at many locations. Spring grain seeding should be complete over the entire region; therefore, the adverse weather of this past week provided unfavorable conditions for good seed germination in the continued dry areas. Temperatures moderated behind the front, dropping to below normal late in the week.



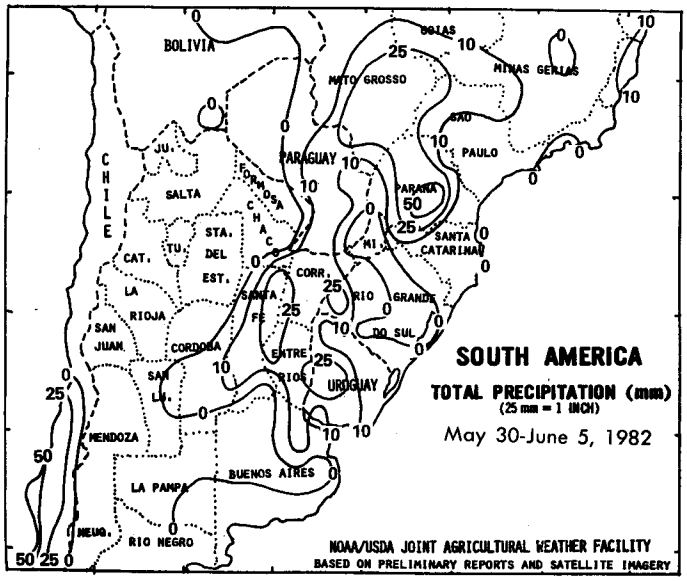
EUROPE: Showers continued over England, France, and northern Spain. The rains favored the growth of most crops, especially winter grains entering the heading stage in France. In contrast, dry weather occurred over most of central Europe with soil moisture supplies remaining adequate in most areas. In Poland, dry weather returned to most of the region. More rain will be needed in southern Poland in upcoming weeks, as subsoil moisture supplies may not be adequate enough to sustain most crops through their reproductive stages of high moisture use. In the southeast, light rain continued to benefit most crops. Weekly temperatures were generally above normal over the entire region.



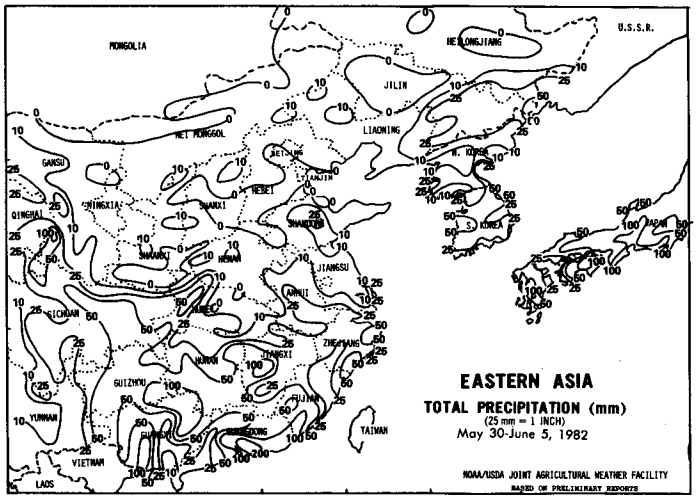
MEXICO: Unusually dry weather covered most of the country, stressing rainfed crops. Soil moisture from previous heavy rains was generally adequate for grains in the upper northeast and parts of the sugarcane and citrus areas further south. However, soils are drier than usual over most of the southern Plateau corn belt as the rainy season temporarily stalled. Cotton, soybeans, and other irrigated crops should have progressed well in the sunny, hot northwestern and north-central regions.



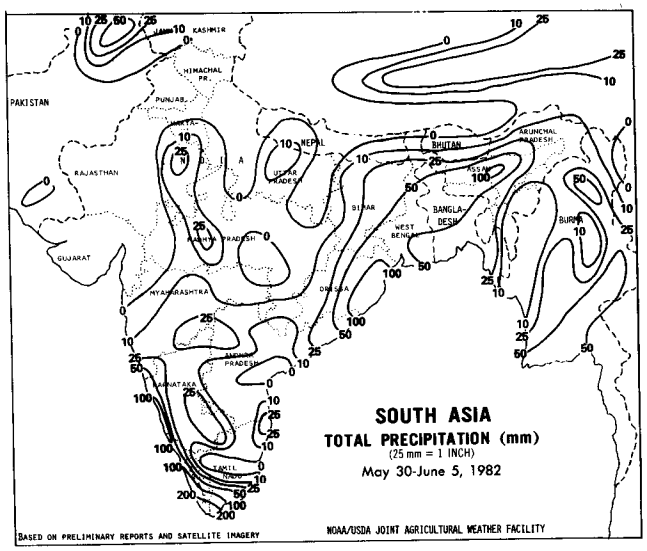
CANADA: Precipitation fell over all wheat areas of the Prairie Provinces, but several days of relatively dry weather allowed planting to progress in many areas. However, weekly rainfall in excess of 25 mm in northeastern crop areas of Saskatchewan and northern crop areas of Manitoba caused further planting delays. In general, spring grain planting is nearing completion in Alberta, and about 90 percent complete in both Saskatchewan and Manitoba, although the northwestern and Interlake regions of the latter province are lagging further behind schedule due to wetness. Crop germination and emergence has been reported good in all areas. Warm, sunny weather is needed to promote vegetative growth before weed competition becomes a major concern for crop development.



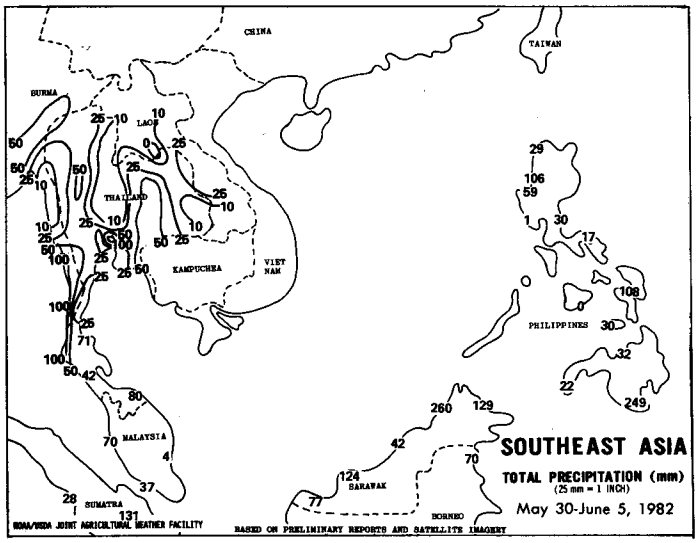
SOUTH AMERICA: Some shower activity temporarily interrupted the harvest of soybeans in Santa Fe and Entre Rios Provinces in Argentina as a storm system pushed northeastward into Brazil. The moisture benefited wheat which is being planted. Light showers in southern Buenos Aires produced only minimal amounts of moisture for the wheat crop. Light, scattered showers occurred in southern Brazil's wheat area, but heavier showers fell from Parana into Mato Grosso. Rainfall was also light in much of the citrus and coffee areas of Sao Paulo and Minas Gerais. Temperatures were above the seasonal average in most of Argentina and in Rio Grande do Sul while the remainder of Brazil's crop areas were seasonably mild.



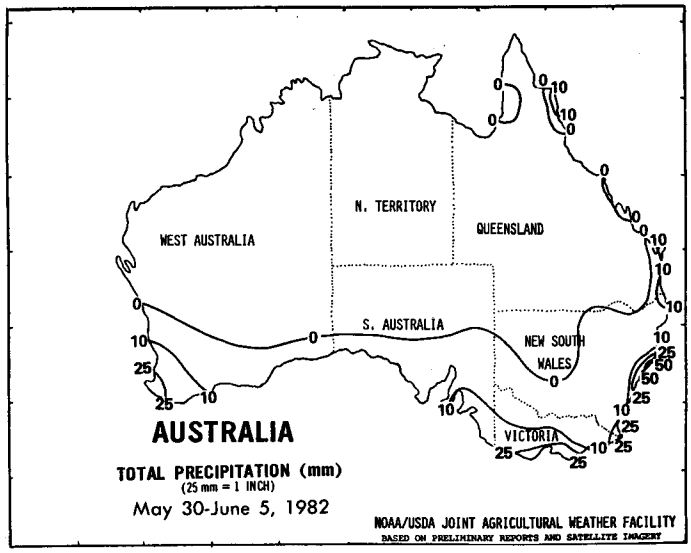
EASTERN ASIA: Slightly below-normal temperatures prevailed over northern portions of the North China Plain early in the week. A brief incursion of intense hot, dry weather at midweek was followed by a return to near normal. Rainfall north of the Yangtze River was limited to Anhui and hilly parts of Shandong and Hubei. Nonirrigated, spring-sown crops in Hebei remained stressed due to the dryness. The hot, dry weather extended northward into Liaoning, where nonirrigated crops were short of water. Little rain has fallen in the Manchurian Valley since early May. Generous rains continued south of the Yangtze River. Excessive amounts early in the week in Guangdong were detrimental to maturing early rice. In South Korea, substantially increased rainfall benefited southern rice-growing areas, while temperatures stayed near normal.



SOUTH ASIA: A tropical storm developed in the Bay of Bengal, stagnated for several days, and then moved slowly northward into Orissa and West Bengal. High winds and heavy rains hit coastal areas, but inland areas of Bangladesh and eastern India received beneficial rains. Winter grain areas in India's Punjab and Haryana States had mostly dry weather for late harvesting. Part of northern Pakistan, however, had continued detrimentally wet weather. Temperatures rose to slightly below normal in the Punjab regions of both India and Pakistan. The monsoon has reportedly arrived in southern India, with rainfall increasing especially dramatically along the southwest coast.



SOUTHEAST ASIA: Rainfall remained variable over Thailand as a tropical storm in the Bay of Bengal interrupted the monsoon flow. Totals for the week again ranged from near zero to above normal; however, a shifting distribution has left no area short of moisture. The Bangkok area has been particularly wet in recent weeks. Temperatures rose to slightly above normal. Satellite imagery indicated that weather in Kampuchea and Vietnam was drier than in Thailand.



AUSTRALIA: The greatest concentration of rainfall was confined to the coastal side of all wheat areas with more interior portions receiving mostly light amounts (generally less than 5 mm). The lack of substantial soaking rains in the major wheat producing areas of northern New South Wales and much of Western Australia delayed crop planting. Reports indicate that about one-third of the Australian wheat crop has been planted. Moisture for planting is needed soon to allow the crop to establish itself during the optimum period for growth. In past years, crops tended to have lower yields if planting was delayed beyond mid-June. Thus, widespread rains within the next 2 weeks would improve crop prospects considerably.

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National Weather Summary (cont. from front page)

THURSDAY...Thunderstorms intensified over eastern Oklahoma and Kansas and through Missouri, and spread eastward into northern Mississippi and Alabama. Less intense thunderstorms developed through the east coast States from New York to Florida. Hurricane Alberto developed in the southwestern Gulf of Mexico and spread heavy rain over the Florida Keys. Showers fell over the Pacific Northwest and the central Rockies and High Plains.

FRIDAY...Unusually cold weather moved over the Great Lakes area, and some temperatures in northern Michigan were below freezing. Showers and thunderstorms lingered over the middle Mississippi Valley, but most activity was east of that area. The heaviest storms developed from central Alabama into the Carolinas, and there were showers and thunderstorms throughout the east coast States. Showers and a few thunderstorms developed through the Pacific Northwest and spilled over the mountains into the northern High Plains. Tropical Storm Alberto weakened in the Gulf of Mexico.

SATURDAY...Showers and thunderstorms developed through the Northeastern States and all along the east coast. Heavy rains fell in New York and southern New England. Local flooding resulted in southern New England. Light showers were over the northwest coast, and showers and thunderstorms over the northern Rockies spread through the northern Plains. Cool weather prevailed over most of the United States, but warmer temperatures began pushing northward in the Plains.

National Agricultural Summary (cont. from p. 16)

PASTURES AND LIVESTOCK: Pastures and ranges were in fair to mostly good condition and improving. Good soil moisture supplies spurred growth in most areas. Warm, sunny weather is needed for the rate of growth to improve. In Montana, last weeks heavy snowfall and cold winds resulted in livestock deaths in young and adult animals.

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