

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service and
World Agricultural Outlook Board

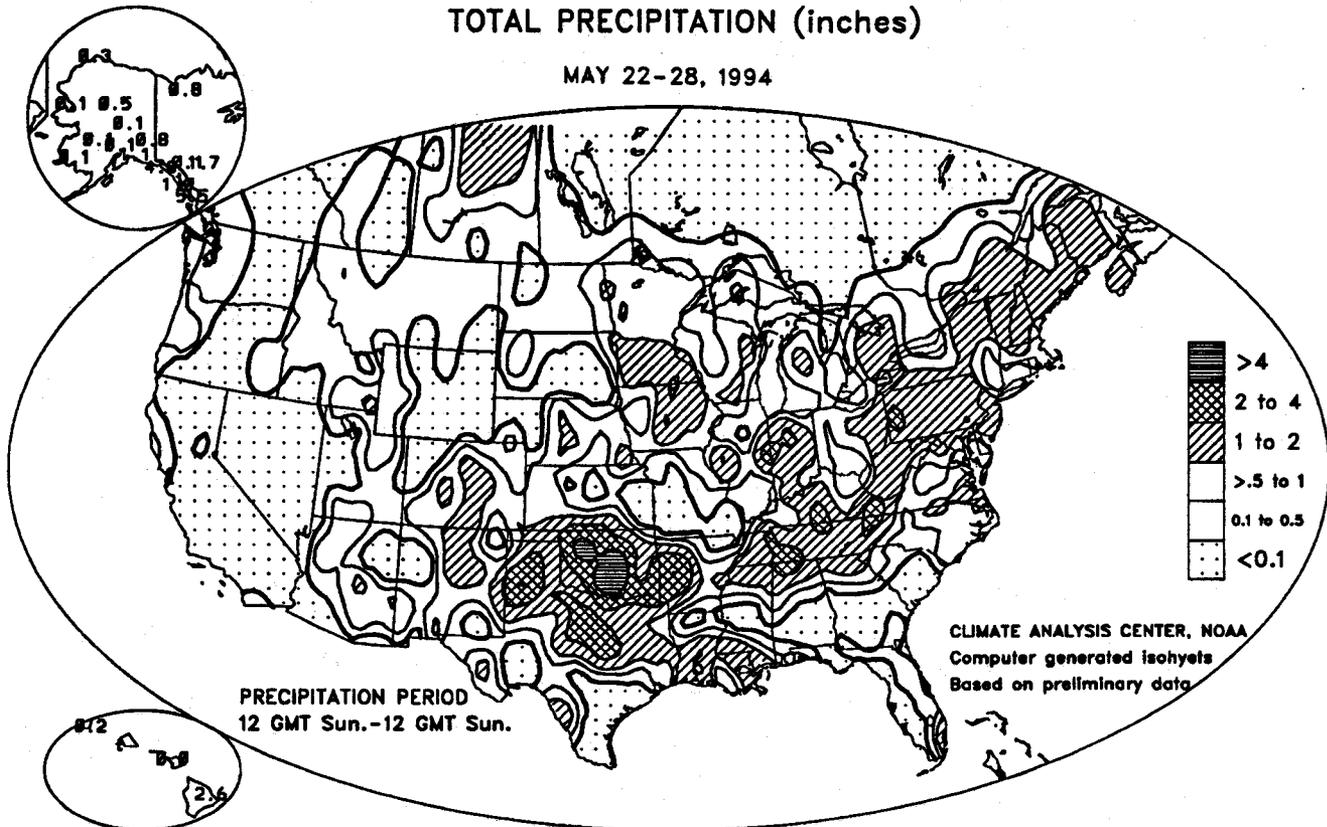
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Washington, D.C.

June 1, 1994

TOTAL PRECIPITATION (inches)

MAY 22-28, 1994



HIGHLIGHTS

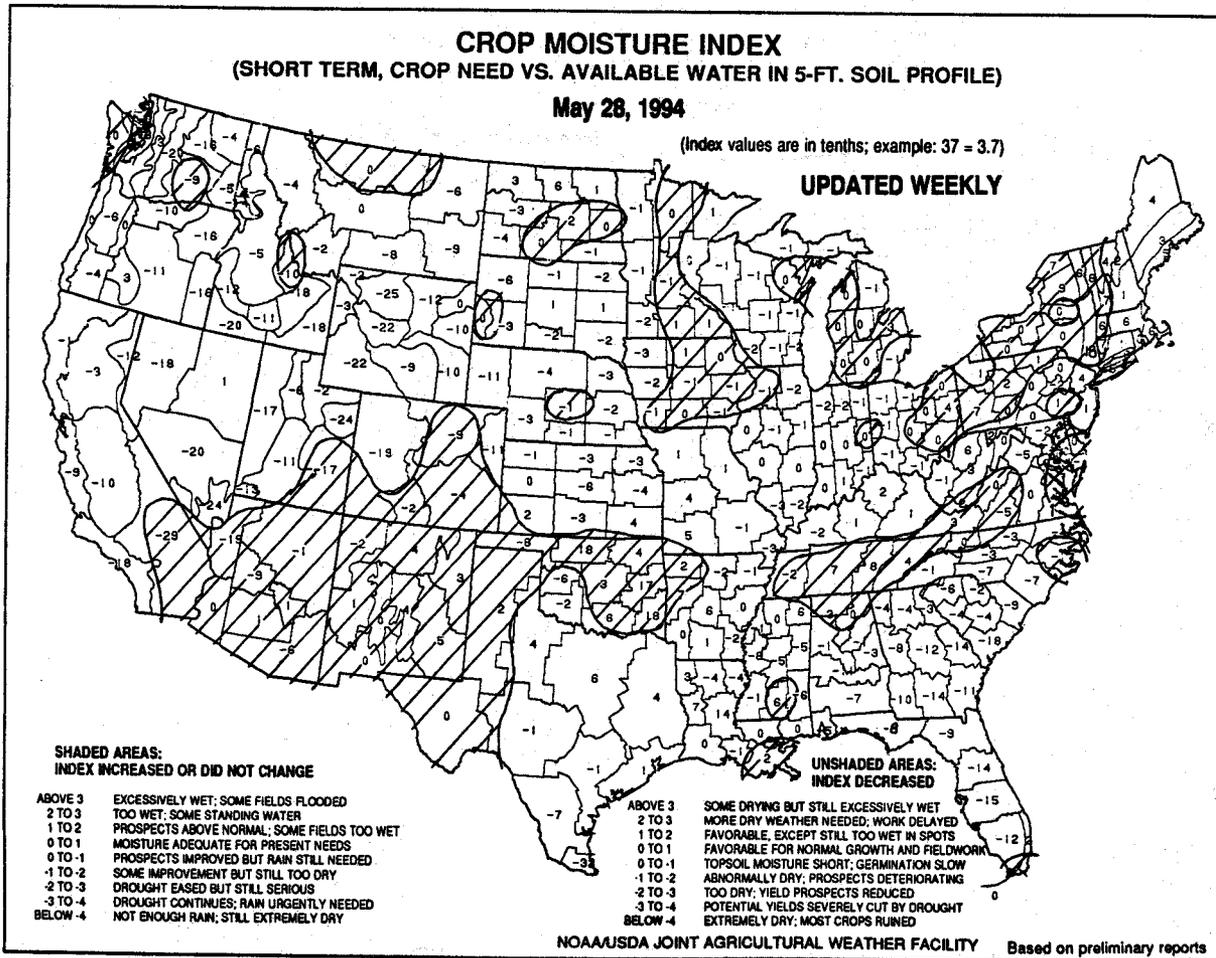
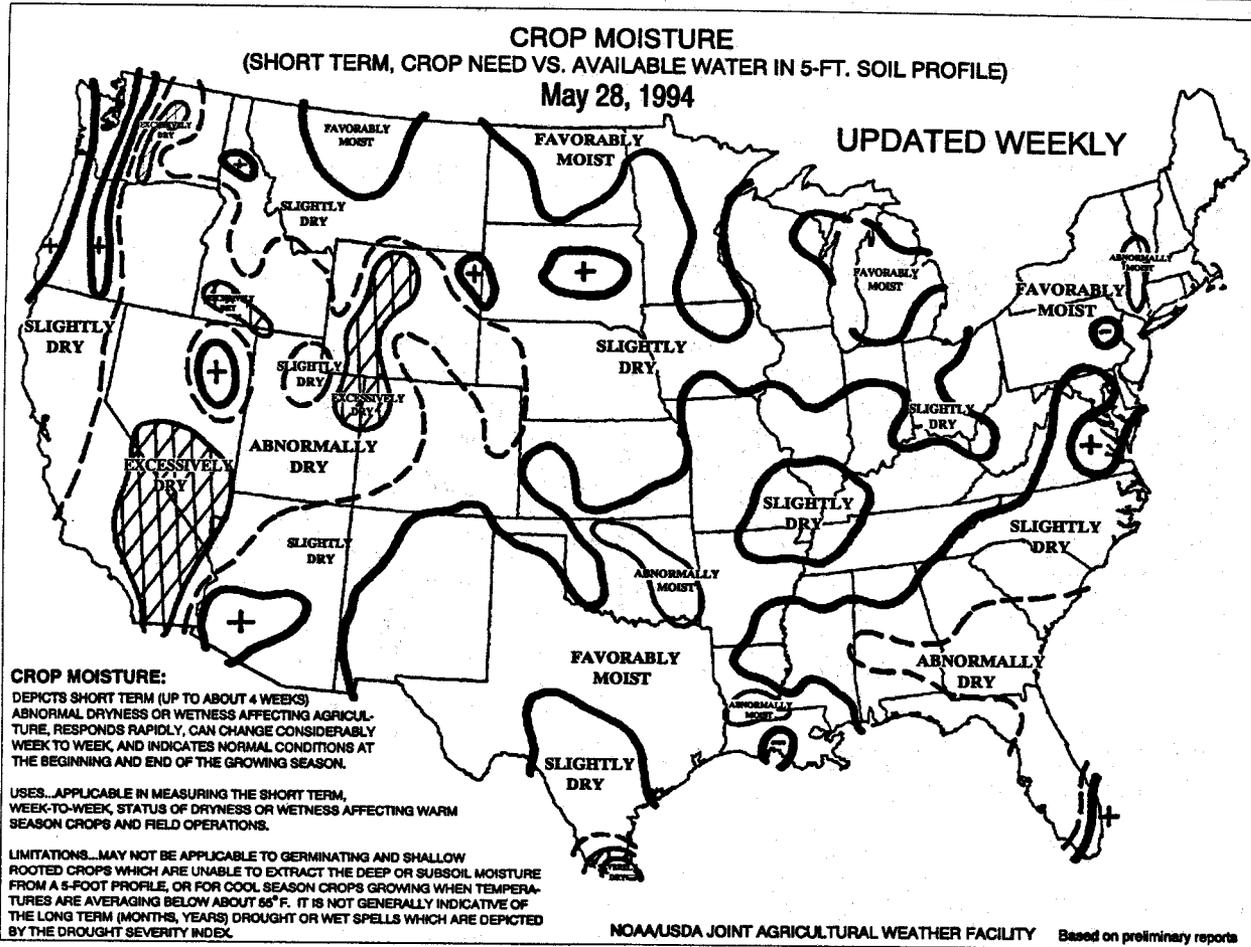
May 22 - 28, 1994

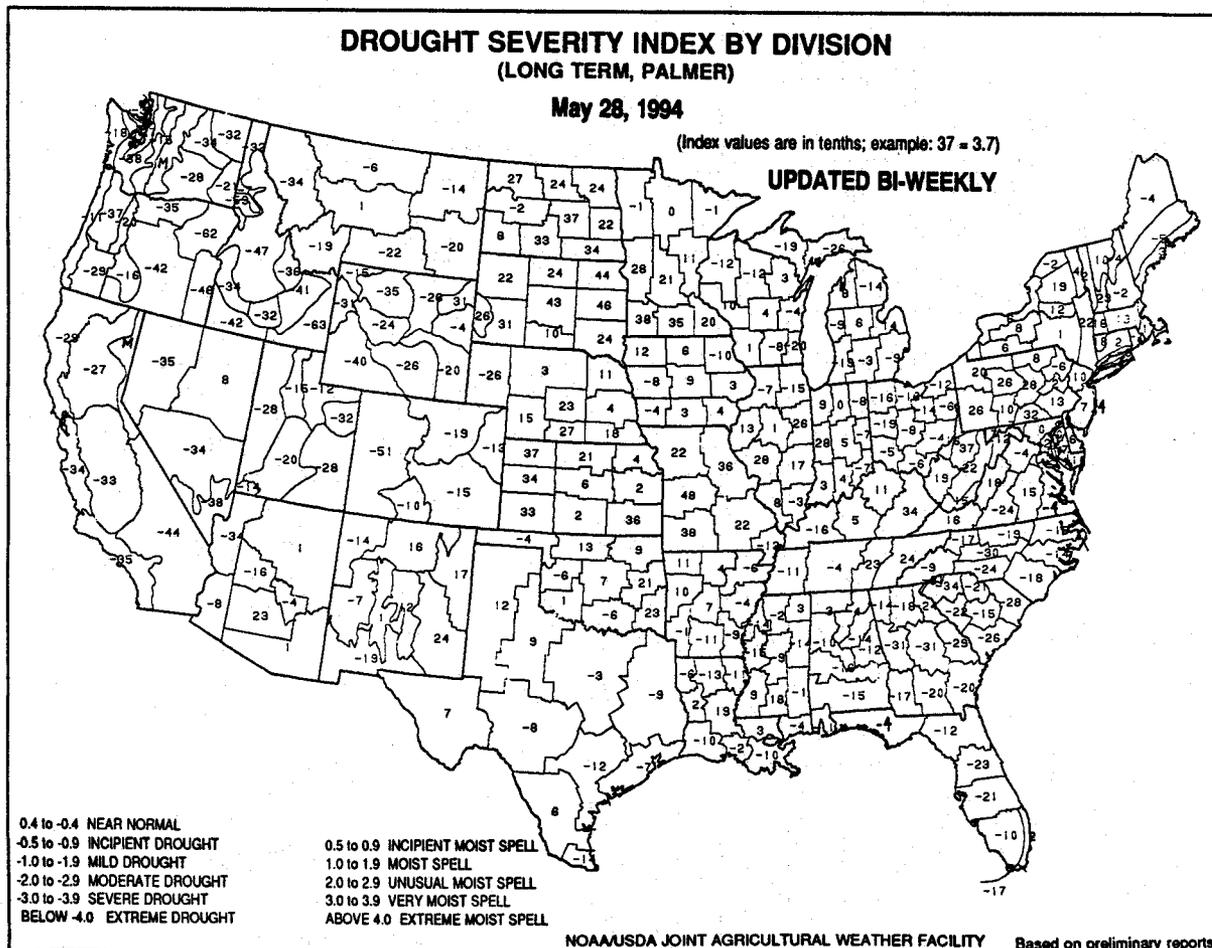
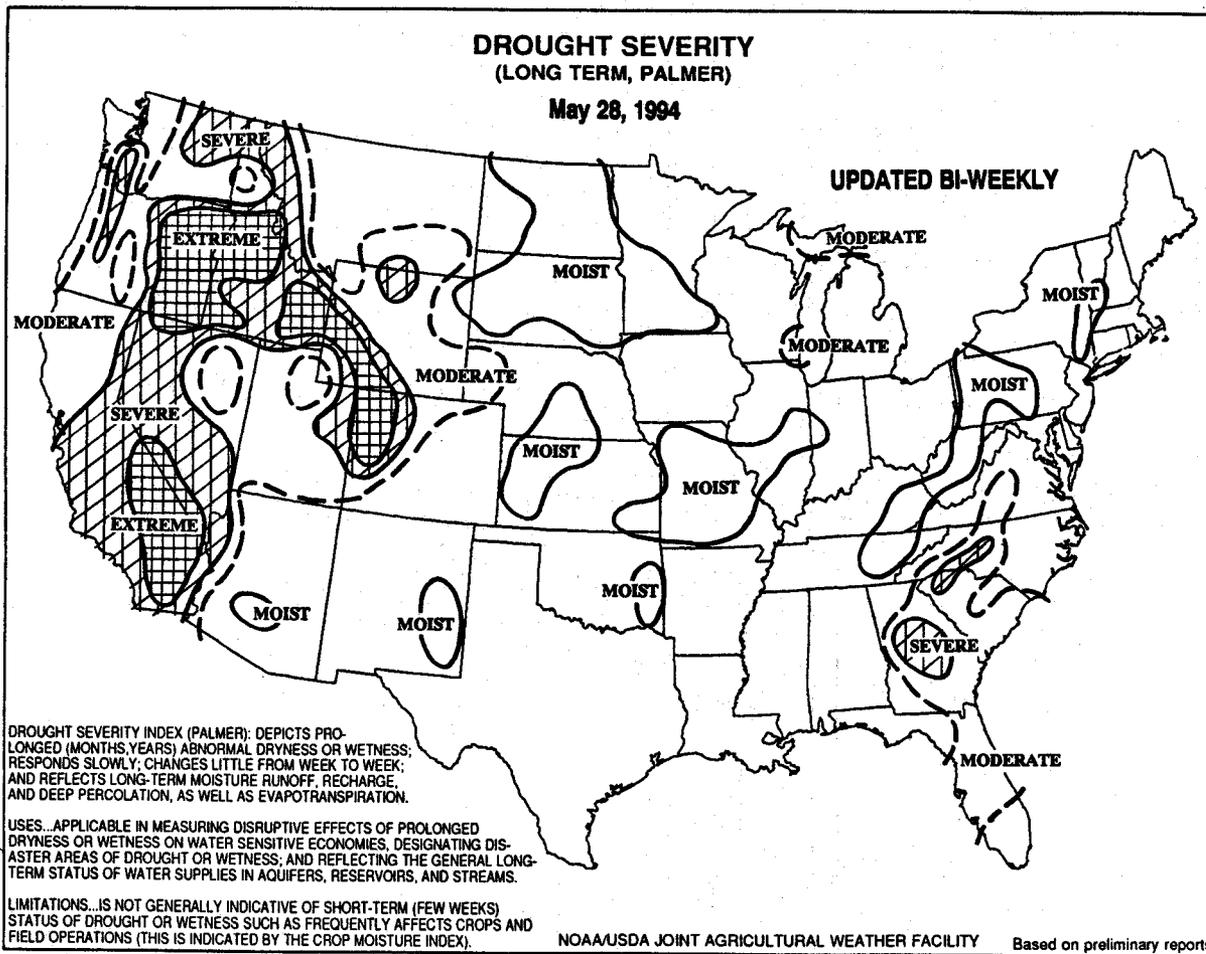
An arc of thunderstorm activity plunged southeastward from the upper Mississippi Valley to the Southern and Eastern States, bolstered by a surge of Canadian air and an influx of sub-tropical moisture. The storms favorably moistened topsoils in parts of the Corn Belt. Early in the week, a lingering chill covered the Southeast, while warm air spread into the Central and Northeastern States. Melbourne, FL, with 57°F, set its third consecutive daily record low on Monday. The previous afternoon, highs climbed to 90°F in Salina, KS, Detroit, MI, and Montpelier, VT. Thunderstorms appeared on Monday across southern Minnesota and Iowa. Totals in Minnesota included 2.04 inches in Rochester and 1.34 inches in Minneapolis. In Iowa, Des Moines received 1.02 inches. A day later, scattered showers spread eastward into the Northeast, and southward through the Corn Belt.

(Continued to p. 4)

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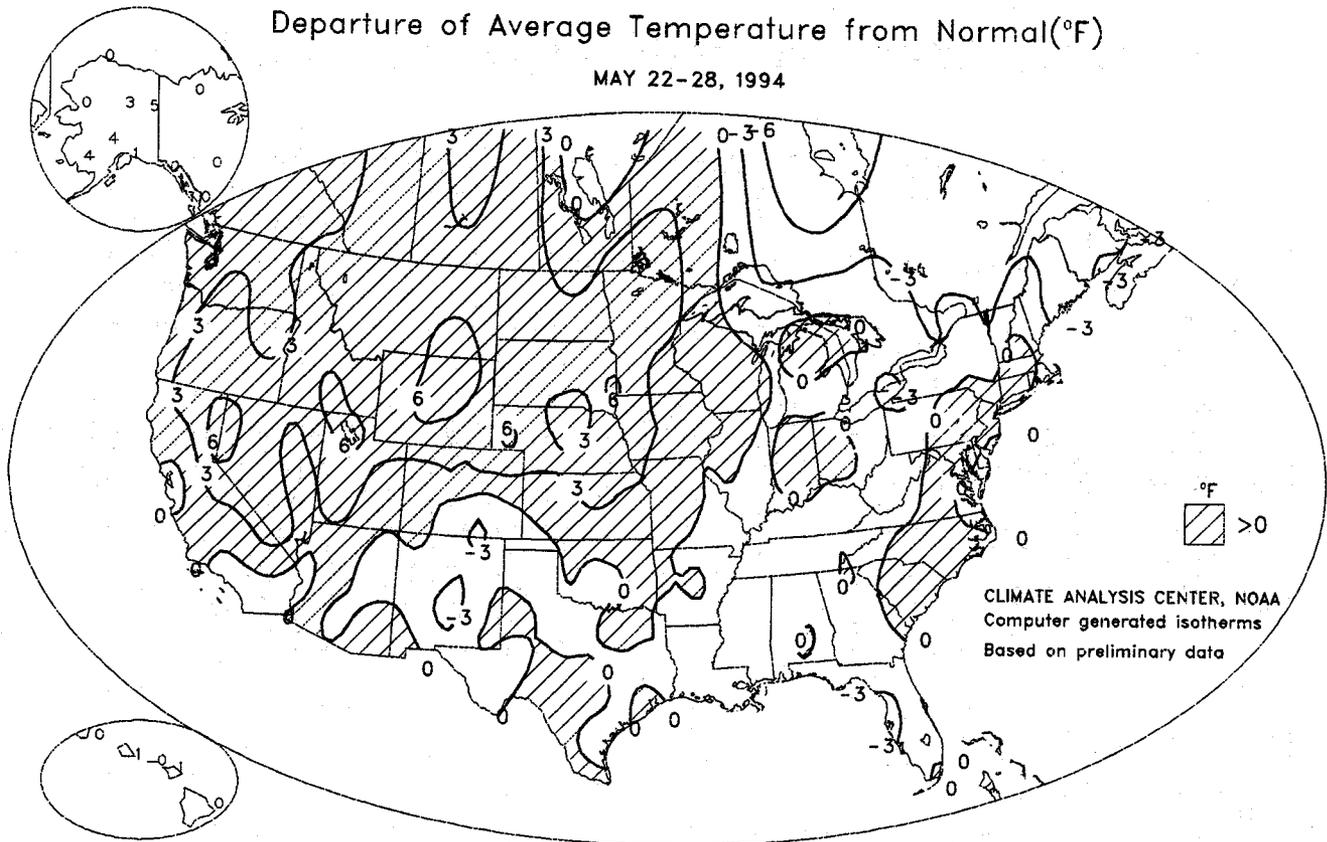
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Departure of Average Temperature from Normal(°F)

MAY 22-28, 1994

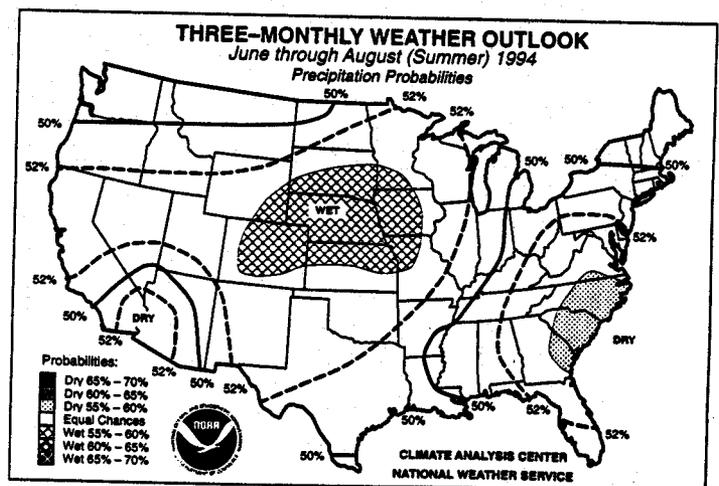
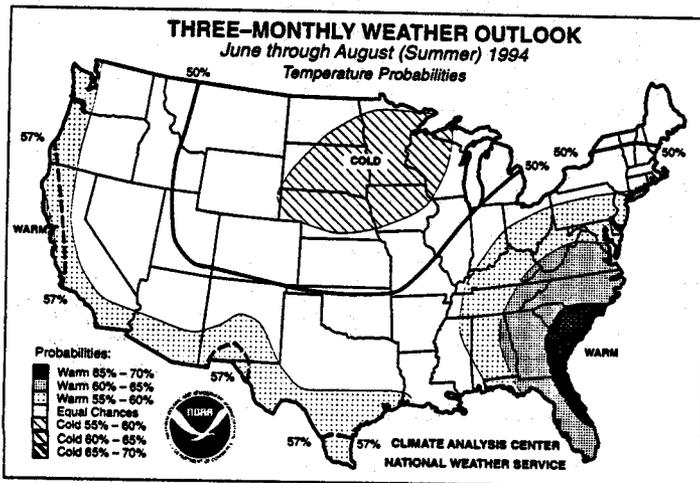


CLIMATE ANALYSIS CENTER, NOAA
Computer generated isotherms
Based on preliminary data

(Continued from front cover)

Springfield, IL netted 2.08 inches, while Rockford, IL measured 1.09 inches. In the Ohio Valley, Pittsburgh, PA and Parkersburg, WV culled more than 1 inch. At midweek, thunderstorms intensified from the southern Rockies to the Ozark Plateau. Rainfall topped 3 inches in Killeen, TX and Fort Smith, AR. In the Southwest, unseasonably heavy amounts included 1.19 inches in Albuquerque, NM and 0.54 inches in Yuma, AZ. By Thursday, heavy rain fell from the Tennessee Valley to the Middle Atlantic coast, as well as in New England. Amounts included 1.71 inches in Nashville, TN and 1.47 inches in Norfolk, VA. Farther north, more than 1 inch of rain drenched Boston, MA and Burlington, VT. Late in the week,

a chill descended upon the North-Central and Northeastern States, resulting in more than two dozen daily record lows. A freeze occurred on Friday as far south as Flint, MI (30°F). Snow and sleet were observed in Caribou, ME. On Saturday, in a reversal of the early-week pattern, 21 cities from Michigan to the Middle Atlantic States tied or broke daily record lows, while record warmth appeared in Florida. Sub-freezing weather occurred in river valley locations such as Elkton, WV (31°F) and Concord, NH (29°F). Later in the day, Fort Lauderdale, FL reached 93°F. Elsewhere, showers and thunderstorms, heaviest in western Washington and northern Oklahoma, peppered the Northwestern and Central States.



Weather Data for the Week Ending May 28, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																80 AND ABOVE	82 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME CARIBOU	61	40	82	32	50	-.4	1.0	.3	.6	9.3	121	14.3	119	86	40	0	0	1	1
PORTLAND	62	45	77	37	54	-.3	.8	.5	.5	14.6	132	21.2	118	92	58	0	0	0	0
ND BALTIMORE	81	54	90	46	68	.8	.3	.5	.2	14.2	144	22.8	142	82	37	1	0	0	0
SALISBURY	80	51	90	39	66	.1	.3	.5	.4	13.5	127	22.2	125	95	36	1	0	2	0
MA BOSTON	72	51	83	45	62	.2	.3	.4	.4	14.9	146	23.1	133	88	50	0	0	4	1
CHATEAM	61	48	66	45	54	-.1	.5	.4	.3	16.5	149	25.8	138	95	76	0	0	3	0
MI ALPENA	71	45	88	31	58	.3	.3	.3	.3	5.5	80	8.4	87	92	37	0	1	2	0
DETROIT	76	49	90	36	63	1.1	.4	.3	.3	7.4	92	11.6	100	82	41	1	0	3	0
FLINT	72	44	87	30	58	-.2	.1	.5	.1	7.5	101	10.1	100	88	40	0	2	2	0
GRAND RAPIDS	73	48	85	36	60	-.1	.6	.2	.3	7.4	84	11.7	97	88	42	0	0	3	0
HOUGHTON LAKE	73	46	87	33	60	.3	.9	.3	.7	5.7	88	9.1	98	85	34	0	0	3	1
LANSING	73	44	87	32	59	-.2	.2	.5	.1	6.7	87	9.7	93	94	42	0	1	3	0
MARQUETTE	61	39	71	26	50	-.4	.7	.0	.5	6.2	76	8.3	69	84	55	0	2	2	1
MUSKOGON	68	47	81	35	58	-.1	.4	.2	.3	5.0	64	10.3	88	89	50	0	0	2	0
SAULT ST. MARIE	66	39	77	30	53	-.1	.3	.4	.2	5.5	77	8.6	77	91	43	0	1	3	0
NH ALEXANDRIA	77	52	85	46	65	.5	.3	.4	.2	5.1	83	6.1	78	93	37	0	0	2	0
DULUTH	68	45	80	40	57	.3	.2	.5	.1	6.5	94	8.9	101	86	42	0	0	3	0
INT'L FALLS	74	45	85	36	59	.4	.5	.2	.3	3.2	67	4.0	64	87	34	0	0	4	0
MINNEAPOLIS	75	53	83	44	64	.3	1.3	.4	.4	6.2	83	8.1	88	78	40	0	0	5	0
ROCHESTER	74	51	83	40	62	.2	2.0	1.5	1.4	7.7	102	9.6	106	92	41	0	0	4	1
MS GREENWOOD	85	61	89	54	73	-.1	.1	-1.1	.1	12.2	78	19.1	76	90	41	0	0	1	0
JACKSON	84	60	87	52	72	-.1	.1	-1.1	.1	12.2	74	26.6	100	92	42	0	0	2	0
MERIDIAN	86	60	89	53	73	.0	.4	-.6	-.4	13.7	84	28.4	106	90	36	0	0	2	0
MO CAPE GIRARDEAU	83	56	89	45	69	0	.2	-1.1	.2	13.0	77	18.4	90	87	37	0	0	0	0
COLUMBIA	79	53	84	46	66	1	.4	-.7	.4	15.3	137	18.2	126	90	43	0	0	2	0
KANSAS CITY	82	57	88	48	69	.2	.1	-1.1	.1	8.6	84	10.7	86	84	36	0	0	1	0
SAINT LOUIS	79	59	86	49	69	.0	.2	-.7	-.1	13.2	123	16.8	115	76	37	0	0	0	0
SPRINGFIELD	80	56	87	46	68	.2	.2	-1.2	.2	17.1	141	21.2	135	85	43	0	0	2	0
MT BILLINGS	78	50	86	46	64	.6	.1	-.5	.1	3.9	74	4.6	68	74	26	0	0	2	0
GLASGOW	76	50	85	47	63	.5	.4	-.1	.3	2.6	96	3.6	109	87	35	0	0	2	0
GREAT FALLS	74	45	82	37	59	.4	.3	-.4	.2	3.9	82	4.9	79	83	35	0	0	4	0
HAVRE	78	45	86	38	62	.4	...	...	...	...	...	...	...	90	27	0	0	0	0
HELENA	74	44	81	37	59	.4	.2	-.3	.1	3.0	90	3.6	82	84	33	0	0	2	0
KALISPELL	72	39	81	33	55	.2	.4	-.1	.3	2.7	73	4.7	74	94	32	0	0	2	0
MILES CITY	80	53	90	49	66	.6	.2	-.4	.2	2.7	68	3.8	77	85	26	1	0	1	0
MISSOULA	74	43	86	38	59	.4	.2	-.2	.1	5.0	142	5.8	104	91	35	0	0	0	0
NH GRAND ISLAND	83	53	90	44	68	.4	.2	-.9	.2	3.7	47	5.6	62	83	32	1	0	1	0
LINCOLN	83	55	90	45	69	.3	.2	-.8	.2	3.5	42	4.3	45	85	36	1	0	0	0
NORFOLK	83	53	91	40	68	.4	.8	-.1	.4	3.1	41	4.7	54	84	36	1	0	0	0
NORTH PLATTE	81	49	86	43	65	.4	.8	-.1	.6	2.7	43	3.5	49	91	37	0	0	2	0
OMAHA	84	56	92	49	70	.5	.0	-1.0	.0	1.9	21	4.0	39	...	...	0	0	0	1
SCOTTSBLUFF	79	50	87	44	65	.5	.5	-.2	.5	3.8	74	5.2	85	88	31	0	0	0	0
VALENTINE	80	49	88	40	65	.2	.1	-.7	.1	2.8	43	3.6	47	73	28	0	0	1	0
NV ELY	75	35	78	26	55	.2	.2	-.3	.2	3.5	117	5.2	119	82	13	0	0	0	0
LAS VEGAS	94	68	98	61	81	.4	.2	-.1	.2	1.5	7	3.6	45	45	16	6	0	0	0
RENO	82	50	87	40	66	.7	.2	-.2	.2	2.0	117	2.7	71	73	14	0	0	0	0
WINDHEMCCA	83	44	87	39	64	.5	.2	-.2	.2	3.1	131	4.3	115	86	13	0	0	1	0
NH CONCORD	71	44	88	29	58	-.1	1.0	-.3	.5	11.8	139	16.0	119	98	47	0	2	4	0
NJ ATLANTIC CITY	77	48	87	36	63	-.1	1.3	.6	.5	14.8	145	22.4	134	97	45	0	0	5	2
NM ALBUQUERQUE	78	54	86	49	66	-.1	1.2	1.1	.8	2.4	163	2.6	111	72	31	0	0	2	1
CLOVIS	82	55	89	50	68	0	1.7	1.2	1.1	4.3	139	4.5	114	89	32	0	0	2	2
ROSWELL	84	57	93	53	71	-.2	.5	.2	.4	4.9	282	4.9	193	85	30	1	0	0	0
NY ALBANY	75	46	89	33	60	0	.2	-.6	.1	10.9	122	15.9	117	94	41	0	0	4	0
BINGHAMTON	70	46	82	35	58	0	.8	-.1	.6	10.4	116	15.7	114	85	47	0	0	2	1
BUFFALO	68	48	78	38	58	-.2	.8	-.1	.8	9.4	112	13.7	102	86	49	0	0	2	1
NEW YORK	79	57	89	50	68	.3	.7	-.2	.6	13.1	120	20.6	123	74	39	0	0	2	1
ROCHESTER	69	46	85	36	57	-.3	.5	-.2	.5	7.9	107	12.2	106	89	48	0	0	2	0
SYRACUSE	71	46	83	38	58	-.2	.3	-.2	.2	12.4	136	17.7	130	91	46	0	0	3	0
NC ASHEVILLE	78	50	83	40	64	-.2	.2	-.4	.1	12.6	90	23.1	103	95	41	0	0	2	0
CHARLOTTE	85	60	90	51	72	.3	.1	-.8	.1	8.7	83	14.9	82	77	34	2	0	1	0
GREENSBORO	82	56	90	45	69	.1	.5	-.4	.5	8.2	81	14.3	86	81	36	1	0	1	1
HATTERAS	76	63	85	56	69	.3	.5	-.5	.4	10.8	94	21.2	102	89	59	0	0	2	0
NEW BERN	86	59	95	51	73	1	.9	-.3	.7	9.2	81	16.9	85	92	33	3	0	3	1
RALEIGH	83	56	90	48	69	0	.4	-.5	.4	9.6	97	16.1	94	88	40	1	0	1	0
WILMINGTON	85	62	92	54	74	.3	.2	-.9	.2	11.5	104	21.8	108	93	41	2	0	2	0
ND BISMARCK	77	48	82	37	63	.5	.2	-.3	.1	2.3	52	3.3	62	95	35	0	0	3	0
FARGO	80	50	89	39	65	.6	.3	-.3	.2	4.4	86	5.7	91	84	28	0	0	3	0
GRAND FORKS	78	49	86	41	64	.5	1.0	.5	.9	2.8	69	4.1	77	86	34	0	0	3	1
WILLISTON	75	46	84	39	60	.2	.3	-.2	.3	4.6	124	6.5	138	91	38	0	0	3	0
OK ARROW-CANFOW	73	48	84	37	60	-.2	2.1	1.2	1.4	12.6	98	17.7	124	87	44	0	0	3	1
CINCINNATI	79	52	87	43	68	0	.2	-.2	.2	10.7	90	15.6	91	85	41	0	0	0	0
CLEVELAND	72	47	83	36	59	-.2	.3	-.5	.2	6.3	69	9.7	72	89	44	0	0	3	0
COLUMBUS	78	51	88	39	65	1	.4	-.5	.4	7.2	70	12.6	87	83	39	0	0	2	0
DAYTON	78	52	88	40	65	1	.2	-.6	.1	10.2	98	15.3	104	79	37	0	0	4	0

Based on 1961-90 normals.

Weather Data for the Week Ending May 28, 1994

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	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	
																		TEMP. °F	PRECIP.	OR MORE	OR MORE
TOLEDO	77	50	90	36	64	2	.4	-.3	.4	7.9	96	12.6	108	85	38	1	0	2	0		
YOUNGSTOWN	72	44	84	34	58	-.2	.3	-.4	.1	11.4	122	15.7	116	86	42	0	0	2	0		
OK OKLAHOMA CITY	81	59	88	55	70	-.1	.4	-.9	.3	8.0	79	10.8	84	93	51	0	0	2	0		
TULSA	82	61	89	56	72	0	1.5	.3	1.3	11.9	97	14.7	94	89	47	0	0	2	1		
OK ASTORIA	82	46	65	43	54	0	.2	-.4	.2	12.7	88	30.9	96	94	64	0	0	2	0		
BURNS	73	40	83	32	57	4	.2	-.1	.2	1.5	60	2.3	53	80	23	0	1	1	0		
MEDFORD	80	49	92	42	64	4	.4	.4	.4	2.5	62	4.7	55	85	27	1	0	0	0		
PENDLETON	74	50	85	44	62	2	.4	.4	.4	3.4	109	6.7	116	74	29	0	0	1	0		
PORTLAND	73	51	85	43	62	3	.4	.4	.4	4.1	53	12.6	74	79	36	0	0	1	0		
SALEM	73	46	84	37	60	3	.1	-.3	.1	6.2	74	14.7	78	85	37	0	0	1	0		
PA ALLENTOWN	79	53	90	39	66	2	.3	-.6	.3	11.4	107	20.2	121	83	39	1	0	0	0		
ERIE	68	47	80	37	58	-.2	.2	-.4	.2	9.3	100	13.3	96	86	47	0	0	0	0		
HARRISBURG	79	54	90	41	67	2	.7	-.3	.4	12.0	115	20.8	128	83	37	1	0	0	0		
PHILADELPHIA	82	57	92	48	69	5	.7	-.3	.4	13.0	115	20.5	115	87	37	1	1	4	0		
PITTSBURGH	76	49	86	39	63	0	1.7	.8	1.0	11.3	115	17.3	117	83	40	0	0	3	2		
SCRANTON	74	48	86	36	61	-.1	.4	-.4	.3	11.4	129	15.6	120	92	45	0	0	3	2		
RI PROVIDENCE	73	48	85	40	61	1	.7	-.1	.6	12.3	106	19.9	105	87	49	0	0	0	0		
SC CHARLESTON	87	65	94	55	76	1	.0	-.1	.0	5.5	52	14.2	83	83	38	3	0	0	1		
COLUMBIA	88	61	95	53	75	2	.1	-.8	.1	6.8	59	15.0	75	78	32	4	0	0	0		
FLORENCE	89	62	97	52	75	2	.5	-.4	.3	8.2	82	15.2	90	86	32	4	0	0	0		
GREENVILLE	85	57	90	45	71	1	.4	-.4	.4	6.5	64	16.2	75	80	34	1	0	0	0		
SD ABERDEEN	82	52	89	43	67	7	.1	-.6	.1	3.0	55	4.3	64	81	34	0	0	1	0		
BURON	79	52	86	39	66	5	.5	-.4	.1	4.7	74	6.3	86	86	39	0	0	1	0		
RAPID CITY	77	49	83	44	63	5	.3	-.4	.3	3.0	57	4.2	67	77	34	0	0	1	0		
SIOUX FALLS	82	55	92	46	69	7	.2	-.5	.2	4.8	70	6.4	80	82	36	2	0	3	0		
TX CHATTANOOGA	82	56	87	49	69	-.1	.5	-.5	.5	20.1	140	33.9	141	93	40	0	0	1	1		
KNOWLES	80	55	86	47	68	0	1.2	.2	1.2	22.8	182	38.7	186	92	48	0	0	2	1		
MEMPHIS	83	63	88	57	73	-.2	.9	-.1	.8	13.8	89	23.7	101	79	38	0	0	2	1		
NASHVILLE	80	56	87	48	68	-.2	1.7	.6	1.4	17.1	125	27.6	131	87	44	0	0	2	1		
TX ABILENE	84	64	92	50	74	-.1	2.3	1.6	1.4	12.6	213	14.5	179	91	52	2	0	3	2		
AMARILLO	80	54	87	52	67	-.1	1.1	-.4	.6	3.8	91	4.9	93	96	43	0	0	4	0		
AUSTIN	87	67	93	62	77	0	.4	-.1	.4	6.2	71	9.8	77	93	52	1	0	0	1		
BEAUMONT	87	66	89	61	77	0	1.3	-.1	1.3	14.7	123	22.9	114	96	51	0	0	1	1		
BROWNSVILLE	89	73	93	68	81	0	.4	-.7	.4	3.8	80	6.2	85	88	51	3	0	0	0		
CORPUS CHRISTI	87	69	90	65	78	-.1	.4	-.8	.4	9.6	171	11.7	125	92	53	2	0	0	0		
DEL RIO	90	69	96	66	80	2	.2	-.5	.2	7.3	115	10.0	113	81	52	4	0	1	0		
EL PASO	88	61	97	57	75	0	.5	-.5	.3	1.6	207	1.8	115	69	20	3	0	3	0		
FORT WORTH	85	66	89	61	76	2	1.0	-.2	.8	10.6	92	14.1	89	89	55	0	0	2	1		
GALVESTON	85	75	87	72	80	3	.4	-.9	.4	6.0	77	8.6	64	80	53	0	0	0	0		
HOUSTON	88	67	89	61	78	1	.0	-.3	.0	8.7	77	13.6	72	95	50	0	0	0	0		
LUBBOCK	87	59	94	56	73	1	.8	-.2	.8	7.2	185	7.8	157	90	36	3	0	2	1		
MIDLAND	88	60	96	57	74	-.1	.3	-.3	.3	1.3	40	2.4	57	89	34	4	0	2	0		
SAN ANGELO	88	64	96	60	76	0	.3	-.4	.3	4.3	81	6.3	88	91	47	3	0	2	1		
SAN ANTONIO	88	68	92	63	78	1	.4	-.4	.4	14.3	183	16.5	145	89	52	1	0	1	0		
VICTORIA	87	68	91	63	77	0	.4	-.1	.4	10.7	118	12.9	85	94	53	1	0	0	0		
WACO	86	65	88	58	75	-.1	1.4	-.4	.9	11.5	119	16.2	121	94	55	0	0	2	2		
WICHITA FALLS	83	63	91	57	73	0	.1	-.9	.1	4.3	46	6.2	49	88	46	1	0	1	0		
UT CEDAR CITY	79	49	81	41	64	4	.1	-.1	.1	2.5	78	3.9	81	59	19	0	0	1	0		
SALT LAKE CITY	83	52	87	47	67	6	.5	.1	.2	5.4	94	7.5	93	84	21	0	0	3	1		
VZ BURLINGTON	68	44	88	36	56	-.4	1.4	-.7	1.0	9.8	126	13.2	118	90	45	0	0	5	1		
VA NORFOLK	80	60	90	52	70	1	1.5	.6	1.5	14.4	142	22.2	127	82	43	1	0	1	1		
RICHMOND	82	55	91	43	69	0	.8	-.1	.7	13.1	131	20.6	125	81	34	2	0	3	1		
ROANOKE	79	53	88	39	66	0	.3	-.6	.2	13.0	125	22.8	143	82	37	0	0	2	0		
WA QUILLAYUTE	61	43	69	37	52	0	1.5	-.4	1.4	20.3	85	48.1	94	94	57	0	0	4	1		
SEATTLE-TACOMA	69	49	77	48	59	2	.2	-.2	.1	6.5	88	13.5	81	82	40	0	0	3	0		
SPOKANE	72	48	83	44	60	3	.4	-.3	.4	3.0	75	5.2	70	82	32	0	0	2	0		
YAKIMA	77	50	87	45	64	4	.0	-.1	.0	2.2	133	3.6	100	74	30	0	0	0	0		
WV BECKLEY	71	47	80	32	59	-.3	.9	.0	.6	14.6	140	24.4	150	85	47	0	1	2	1		
CHARLESTON	77	51	87	40	64	-.2	.5	-.4	.5	15.5	147	27.5	167	88	47	0	0	2	0		
HUNTINGTON	78	52	87	37	65	1	.4	-.9	.4	15.3	140	25.2	148	84	43	0	0	1	0		
PARKERSBURG	77	48	85	36	62	-.3	1.2	.3	1.0	13.3	124	24.6	146	95	41	0	0	2	1		
WI GREEN BAY	74	47	86	33	60	2	1.1	-.4	.9	8.7	125	11.3	123	90	45	0	0	3	1		
LACROSSE	76	51	85	37	64	1	.4	-.4	.4	6.5	100	10.0	100	89	38	0	0	3	0		
MADISON	77	48	88	35	62	1	.5	-.2	.3	4.4	53	8.6	82	89	38	0	0	3	0		
MILWAUKEE	71	47	80	37	59	2	.1	-.5	.1	4.2	48	9.9	84	87	50	1	0	3	0		
WAUSAU	73	48	85	35	61	2	.8	.0	.6	5.5	69	7.0	71	84	37	0	0	3	1		
WY CASPER	81	45	86	38	63	8	.4	-.5	.4	1.8	40	3.2	57	88	16	0	0	0	0		
CHEYENNE	72	46	79	41	59	4	.4	-.5	.0	3.6	79	5.1	96	91	36	0	0	3	0		
LANDER	80	47	83	41	64	8	.4	-.5	.4	3.1	59	4.5	70	55	16	0	0	0	0		
SHERIDAN	78	47	88	37	62	7	.2	-.3	.2	3.0	63	6.0	96	76	31	0	0	1	0		

Based on 1961-90 normals.

CUMULATIVE GROWING DEGREE DAYS (CORN*)

March 1 - May 28, 1994

STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL
AL ANNISTON	1299	+ 76	RUSSELL	946	+ 192	YOUNGSTOWN	447	- 15
AL BIRMINGHAM	1298	+ 60	SALINA	967	+ 174	ZANESVILLE	572	- 47
AL MOBILE	1629	+ 55	TOPEKA/BILLARD	893	+ 94	OK ALTUS	1254	- 20
AL MONTGOMERY	1533	+ 195	WICHITA	978	+ 94	OK GAGE	1084	+ 109
AL MUSCLE SHOALS	1200	+ 78	KY LEXINGTON	744	+ 44	OK HOBART	1156	+ 65
AL OZARK	1552	+ 68	OK BOWLING GREEN	915	- 8	OK MCALISTER	1244	+ 78
AL TUSCALOOSA	1389	+ 66	OK PADDCAH	970	- 10	OK PONCA CITY	1162	+ 172
AZ DOUGLAS	1331	+ 146	LA LAFAYETTE	1708	+ 85	OK TULSA	1138	+ 40
AZ FLAGSTAFF	483	+ 94	LA LAKE CHARLES	1717	+ 137	OR BAKER	587	+ 197
AZ PHOENIX	1791	+ 244	MO KANSAS CITY	1553	+ 152	OR EUGENE	656	+ 191
AZ TUCSON	1590	+ 205	MO NEW ORLEANS	1720	+ 88	OR NORTH BEND	427	+ 153
AZ YUMA	2000	+ 315	MO SHERBROOK	1486	+ 29	OR PENDLETON	725	+ 208
AR PRESCOTT	821	+ 137	ME AUGUSTA	223	- 45	OR REDMOND	551	+ 128
AR EL DORADO	1379	+ 75	ME CARIBOU	155	- 12	OR PORTLAND	720	+ 259
AR FAYETTEVILLE	1032	+ 80	ME BOULTON	178	- 32	OR SALEM	721	+ 262
AR FORT SMITH	1275	+ 131	ME FORTLAND	235	- 6	OR SERTON SUMMIT	293	+ 62
AR JONESBORO	1154	+ 32	MD BALIESTRY	838	+ 124	PA ALLENTOWN	597	+ 70
AR LITTLE ROCK	1276	+ 50	MA WORCESTER	331	0	PA PHILADELPHIA	746	+ 145
AR TEKARKANA	1396	+ 54	MA GRAND RAPIDS	447	- 1	PA WILLIAMSPORT	567	+ 54
CA BAKERSFIELD	1319	+ 53	MI JACKSON	472	+ 22	SC BEAUFORT	1602	+ 175
CA BLUE CANYON	266	+ 10	MI LANSING	459	- 21	SC CHARLESTON	1531	+ 177
CA DAGGETT	1522	+ 198	MI MUSKEGON	329	- 21	SC COLUMBIA	1464	+ 159
CA FURKKA	447	+ 231	MI PELLSTON	295	+ 23	SC FLORENCE	1423	+ 139
CA FAIRFIELD	1069	+ 155	MI SAULT STE. MARIE	196	- 4	SC SUMTER/SHAW AFB	1352	+ 14
CA FRESNO	1267	+ 198	MI TRAVERSE CITY	350	+ 30	SD ABERDEEN	616	+ 227
CA MARYSVILLE	1197	+ 154	MI DULUTH	282	+ 76	SD HURON	615	+ 158
CA MT SHASTA	543	+ 124	MI INT'L FALLS	337	+ 73	SD PIERRE	700	+ 211
CA PASO ROBLES	1140	+ 208	MI MINNEAPOLIS	499	- 1	SD RAPID CITY	678	+ 237
CA RED BLUFF	1119	+ 120	MI REDWOOD FALLS	566	- 1	SD SIOUX FALLS	655	+ 178
CA RIVERSIDE	1032	- 72	MI ALEXANDRIA	428	+ 101	SD WATERLOO	484	+ 125
CA SANTA ANA	1297	+ 244	MI BELLONI	1689	+ 97	TN BRISTOL	850	+ 2
CA SAN DIEGO	1011	+ 53	MI COLUMBUS	1531	+ 260	TN CHATTANOOGA	1140	+ 95
CA SACRAMENTO	1090	+ 151	MI JACKSON	1410	+ 63	TN CROSSVILLE	880	+ 137
CA THERMAL	1788	+ 108	MI MERIDIAN	1537	+ 169	TN MEMPHIS	1332	+ 146
CO ALAMOSA	437	+ 36	MI GREENWOOD	1453	+ 135	TN NASHVILLE	1022	- 14
CO DENVER	813	+ 254	MO COLUMBIA	807	+ 59	TX ABILENE	1387	+ 19
CO EAGLE	467	+ 49	MO JOPLIN	1018	+ 82	TX AMARILLO	982	+ 49
CO GRAND JUNCTION	886	+ 145	MO SPRINGFIELD	946	+ 80	TX AUSTIN	1712	+ 103
CO LA JUNTA	944	+ 134	MO VICHY	850	+ 27	TX BROWNSVILLE	2099	+ 17
CO DOVER	659	- 136	MT HELENA	537	+ 208	TX COLLEGE STATION	1674	+ 99
CO WILMINGTON	696	+ 76	MT KALISPELL	423	+ 84	TX DALHART	981	+ 111
FL DAYTONA BEACH	1872	+ 154	MT MILES CITY	662	+ 226	TX DEL RIO	1870	+ 143
FL FORT MYERS	2230	+ 246	MT GRAND ISLAND	791	+ 184	TX DALLAS/FT WORTH	1477	+ 77
FL GAINESVILLE	1712	- 25	MT NORFOLK	792	+ 235	TX GALVESTON	1851	+ 213
FL JACKSONVILLE	1690	+ 95	MT NORTH PLATTE	792	+ 228	TX HOUSTON/INTCNL	1783	+ 179
FL FORT LAUDERDALE	2425	+ 315	MT VALENTINE	753	+ 199	TX KINGSVILLE/MAS	2023	+ 49
FL MIAMI	2430	+ 236	MT SCOTTSDUFF	788	+ 255	TX LAREDO	2113	+ 76
FL MIAMI	1617	+ 72	NV SIDNEY	723	+ 251	TX LUBBOCK	1251	+ 117
FL PENSACOLA	1685	+ 110	NV ELKO	571	+ 141	TX MCALLEN	2204	+ 158
FL ST PETERSBURG	2113	+ 106	NV ELY	523	+ 145	TX MIDLAND	1393	- 18
FL TALLAHASSEE	1684	+ 132	NV LAS VEGAS	1613	+ 326	TX PALACIOS	1764	+ 42
FL TAMPA	2081	+ 211	NV RENO	784	+ 174	TX SAN ANTONIO	1799	+ 120
FL VERO BEACH	2090	+ 208	NV WINNEMUCCA	755	+ 196	TX VICTORIA	1805	+ 103
GA W. PALM BEACH	2255	+ 142	NH CONCORD	395	+ 13	TX WACO	1505	- 1
GA ATHENS	1282	+ 134	NJ NEWARK	708	+ 146	TX WICHITA FALLS	1275	0
GA AUGUSTA	1401	+ 115	NM ALBUQUERQUE	1042	+ 102	TX WINK	1513	+ 108
GA BURNSWICK	1649	+ 141	VT CARLSBAD	1525	+ 214	UT CEDAR CITY	703	+ 160
GA COLUMBUS/METRO	1504	+ 142	VT CLOVIS	1039	+ 71	VT BARRIE-MONTPELIER	268	- 3
GA MACON	1476	+ 90	VT GALLUP	737	+ 102	VT BURLINGTON	324	+ 4
GA SAVANNAH	1641	+ 188	VT TROY OR CONSEQ.	1168	+ 88	VA CHARLOTTESVILLE	945	+ 86
ID BOISE	764	+ 252	NY ALBANY	419	- 8	VA HAMPTON/LANGLEY	979	+ 125
ID BURLEY	721	+ 293	NY ELMIRA	426	- 2	VA LYNCHBURG	867	+ 40
ID IDAHO FALLS	609	+ 258	NY GLENS FALLS	377	+ 12	VA NORFOLK	1093	+ 203
ID POCATELLO	660	+ 282	NY POGGERSPSIE	501	+ 28	VA RICHMOND	1009	+ 76
IL BELLEVILLE	819	- 23	NY ROCHESTER	373	- 22	WA BELLINGHAM	457	+ 179
IL CHICAGO/MIDWAY	563	+ 44	NY SYRACUSE	359	- 32	WA BOQUIM	404	+ 144
IL DECATUR	649	- 91	NY UTICA	320	- 23	WA SEATTLE-TACOMA	548	+ 218
IL PEORIA	687	+ 94	NC WATERTOWN	312	- 11	WA SPOKANE	517	+ 178
IL ROCKFORD	596	+ 121	NC ASHEVILLE	861	+ 4	WA TACOMA	567	+ 167
IL SPRINGFIELD	723	+ 29	NC FAYETTEVILLE	1257	+ 117	WA WALLA WALLA	852	+ 301
IL QUINCY	657	- 5	NC GREENSBORO	1001	+ 41	WA WENATCHEE	796	+ 190
IN INDIANAPOLIS	639	- 24	NC HICKORY	1020	+ 63	WA YAKIMA	794	+ 204
IN SOUTH BEND	540	+ 47	NC RALEIGH	1109	+ 77	WV HUNTINGTON	816	+ 31
IN TERRA HAUTE	692	+ 7	NC WILMINGTON	1312	+ 145	WV MARTINSBURG	690	+ 5
IA DES MOINES	693	+ 35	NC NEW BERN	1223	+ 61	WV MORGANTOWN	639	- 46
IA MARION CITY	571	+ 79	MD BISMARCK	551	+ 187	WI EAU CLAIRE	472	+ 72
IA OTTUMWA	689	+ 90	MD DICKINSON	480	+ 149	WI GREEN BAY	420	+ 84
IA SIOUX CITY	732	- 1	MD JAMESPTOWN	470	+ 128	WI LACROSSE	531	+ 75
IA WATERLOO	629	- 1	MD MIDOT	462	+ 155	WI MADISON	545	+ 94
KS CHANUTE	917	+ 34	OR GRAND FORKS	439	+ 116	WI WAUSAU	414	+ 73
KS DODGE CITY	938	+ 140	OR AKRON-CANTON	454	- 50	WY CASPER	720	+ 358
KS GARDEN CITY	941	+ 142	OR COLUMBUS	615	- 16	WY LAMDER	625	+ 284
KS GOODLAND	803	+ 182	OR DAYTON	595	- 29	WY SHERIDAN	620	+ 246
KS MEDICINE LODGE	1068	+ 77	OR FINDLAY	492	- 21	WY WORLAND	792	+ 329

Based on 1951-80 normals.

* Growing degree days for corn are computed to a 50°F base with the daily maximum temperature limited to 86°F or lower, and the daily minimum to 50°F or higher.

National Agricultural Summary

May 23 - 29, 1994

HIGHLIGHTS: Warm weather and timely rains advanced the development of the Nation's field crops. Producers continued planting soybeans rapidly as corn planting approached completion. The warm weather encouraged soybean development, and many States reported soybean emergence over 50 percent (%). Progress of all field crops remained ahead of the 5-year average. End-of-week showers and mild temperatures reduced the moisture stress for small grains in the Pacific Northwest. Southern Pacific Coast producers resumed field activities as soils dried. Some reports indicate California's crop development was behind normal, but was improving as temperatures rose. Warm weather in the Central States dried fields, reducing pre-emergence herbicide effectiveness. In the Midwest, dry soil conditions hindered some early-planted row-crops germination, with some fields requiring replanting. High temperatures and dry weather accelerated wheat maturity in the Great Plains. The southern Great Plains received heavy rains at midweek, interrupting some field activity and raising the possibility of further replanting for cotton. Scattered thunderstorms in Tennessee slowed planting progress for soybeans to 28 percent(%), the lowest percentage for the Nation, but still ahead of the average.

SMALL GRAINS: The winter wheat crop was mostly fair with 80% of the winter wheat acreage headed, 14 percentage points ahead of last week, and 4 points ahead of the average. Idaho, Michigan, Montana, Ohio, and South Dakota were below 50% headed, while Texas reported that harvesting continued as weather permitted. Heading of wheat progressed quickly in Colorado, where a 51-point increase from last week was reported. Barley yellow dwarf disease was reported in Kansas, but warm, dry weather combined with rapid wheat development could limit the spread of foliar disease. Winter wheat condition in Texas was 53% normal, compared with 76% for last year, and in Oklahoma was mostly fair, down from last week.

The spring wheat crop was mostly good to fair with spring wheat seeding 97% complete, 1 point behind the average. Spring wheat was 84% emerged, 4 points behind the average. South Dakota spring wheat seeding was complete, with 96% of the crop emerged. Minnesota reported that spring wheat jointing was 17%, compared with 14% for the average.

FIELD CROPS: Corn planting progress in the 17 major producing States reached 98% complete, 12 points ahead of last year, and 9 points ahead of the average. Corn emergence in Iowa, Indiana, Ohio, Kentucky, Nebraska, and Minnesota was over 75 percent

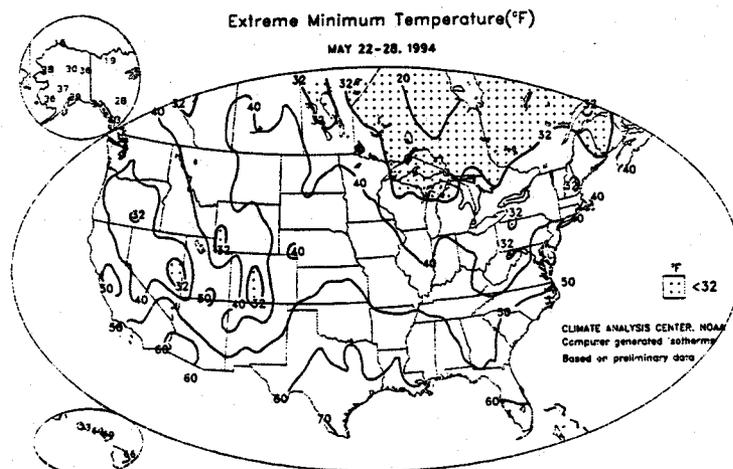
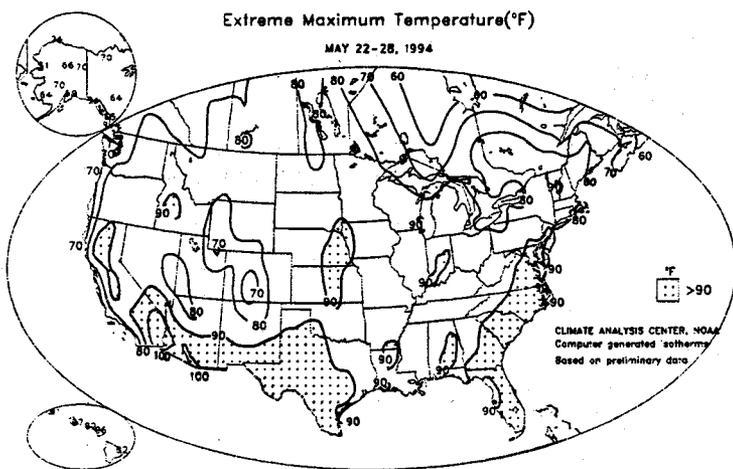
complete. The average corn height was 4 inches for Illinois and Indiana, while Wisconsin reported 3 inches. Warm weather and suitable field conditions spurred corn planting to completion. Illinois and Indiana producers reported that some acres were sprayed for cutworms. Corn silking was reported at 32% for Georgia.

Cotton planting continued ahead of the average and was in mostly good condition. Cotton planted for the 14 major producing States was 84% complete, 6 points ahead of normal. Cotton squaring was 12% for Georgia and Mississippi, while Arizona reported 26%, 2 points behind their average. The cotton condition in Texas was 82% of normal, compared with 74% for last year. Cotton planting activities were interrupted by storms in the Texas plains where concerns that replanting may be needed again. Cotton development in Texas' Southcentral region improved as higher temperatures prevailed. Cotton plants showed signs of stress from the heat but continued to square and set bolls in southern Texas. Cotton planting slowed in Alabama to 86% complete, 6 points behind the average. Cotton planting in California was completed, but some reports of replanting still continued. Counts of boll weevil insects captured in traps increased in Louisiana.

Sorghum planting was 69% complete, a 20-point increase from last week, and 17 points ahead of normal. Nebraska reported a 36-point increase from last week for sorghum planted, 32 points ahead of the average, with 36% of the sorghum crop emerged. Sorghum fields progressed well in the Texas Blacklands, with most plants in the flag leaf to early heading stage, while fields continued to head in the Southcentral region. Some fields were turning color in the Rio Grande Valley.

Rice condition was mostly good with seeding 97% complete, 9 points ahead of the average. Rice seeding in California was still behind the average by 2 points despite a 20-point increase from last week. Rice was 85% emerged for the five States, 12 points ahead of the average. Mississippi's rice was 99% emerged, 32 points ahead of the average. Arkansas and Texas continued flooding some rice fields.

Soybeans planted were 78% complete, 26 points ahead of the average. Soybeans planted increased 20 points from last week, 35 points ahead of last year. Iowa continued to lead the Nation with 99% of their soybeans planted, and 78% of the soybean crop emerged, over 48 points above the average. Warm weather promoted soybean development in Minnesota, Nebraska, and Mississippi, where soybeans emerged were 25 points above the average.



Crop Progress
for the Week Ending May 29, 1994

SOYBEANS PLANTED

	Current	Last Wk	1993	Avg.
AL	53	30	53	42
AR	51	31	15	22
GA	51	33	36	38
IL	79	50	55	64
IN	78	55	69	62
IA	99	92	34	59
KS	70	40	15	35
KY	45	22	25	27
LA	60	31	54	44
MI	75	45	60	60
MN	95	76	45	65
MS	73	67	17	26
MO	64	38	22	36
NE	97	71	41	63
NC	42	34	46	41
OH	92	76	81	62
SC	31	22	36	32
SD	79	48	32	57
TN	28	13	23	24
19 States	78	58	43	52

These 19 States produced 95% of the 1993 soybean crop.

COTTON PLANTED

	Current	Last Wk	1993	Avg.
AL	86	84	85	92
AZ	100	99	100	100
AR	97	92	90	89
CA	100	99	100	100
GA	94	92	92	86
LA	99	94	98	90
MS	99	98	90	86
MO	98	97	96	92
NM	90	84	97	98
NC	96	93	92	88
OK	51	34	56	47
SC	99	95	96	93
TN	99	91	93	83
TX	69	43	64	63
14 States	84	71	80	78

These 14 States produced 99% of the 1993 cotton crop.

RICE PLANTED

	Current	Last Wk	1993	Avg.
AR	98	95	78	83
CA	90	70	80	92
LA	98	91	95	93
MS	100	100	64	79
TX	100	99	92	98
5 States	97	91	82	88

These 5 States produced 96% of the 1993 rice crop.

RICE EMERGED

	Current	Last Wk	1993	Avg.
AR	90	82	55	67
CA	45	30	35	63
LA	94	87	89	87
MS	99	98	46	67
TX	91	85	84	89
5 States	85	77	61	73

These 5 States produced 96% of the 1993 rice crop.

CORN PLANTED

	Current	Last Wk	1993	Avg.
CO	96	93	90	93
GA	100	100	100	100
IL	98	87	85	91
IN	97	86	91	87
IA	100	100	83	89
KS	99	97	90	95
KY	95	80	90	82
MI	95	80	90	90
MN	99	96	83	88
MO	96	88	73	81
NE	100	100	90	96
NC	100	98	100	100
OH	99	94	95	84
PA	77	55	77	69
SD	96	86	70	86
TX	100	99	99	99
WI	97	94	75	85
17 States	98	92	86	89

These 17 States produced 91% of the 1993 corn crop.

SPRING WHEAT PLANTED

	Current	Last Wk	1993	Avg.
ID	99	99	96	98
MN	99	97	99	98
MT	98	93	95	95
ND	96	88	99	99
SD	100	98	98	100
5 States	97	92	98	98

These 5 States produced 97% of the 1993 spring wheat crop.

GRAIN SORGHUM PLANTED

	Current	Last Wk	1993	Avg.
AR	92	90	72	77
CO	28	17	21	23
IL	51	17	12	39
KS	55	25	15	30
LA	90	75	85	82
MS	80	77	70	75
MO	73	46	36	42
NE	86	50	32	54
NM	20	13	28	41
OK	45	30	54	30
SD	57	24	24	30
TX	80	77	79	77
12 States	69	49	44	52

These 12 States produced 98% of the 1993 grain sorghum crop.

SPRING WHEAT EMERGED

	Current	Last Wk	1993	Avg.
ID	97	92	76	90
MN	92	61	94	96
MT	82	67	69	70
ND	79	57	89	88
SD	96	91	94	98
5 States	84	64	87	88

These 5 States produced 97% of the 1993 spring wheat crop.

WINTER WHEAT HEADED

	Current	Last Wk	1993	Avg.
AR	100	99	98	99
CA	99	99	99	99
CO	82	31	64	58
GA	100	100	100	100
ID	6	1	4	8
IL	84	53	81	89
IN	70	36	62	74
KS	99	90	90	96
MI	2	0	2	10
MO	90	70	75	91
MT	0	0	0	2
NE	64	20	32	62
NC	100	99	100	100
OH	44	12	40	41
OK	100	99	98	97
OR	80	60	53	60
SD	30	2	3	19
TX	93	88	97	96
WA	70	39	29	40
19 States	80	66	71	76

These 19 States produced 92% of the 1993 winter wheat crop.

CORRECTION: In last week's *Bulletin*, crop progress tables for rice emerged and spring wheat planted were reversed.

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 NASS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall 0.03 to 3.09 in. north; 0.12 to 0.66 central; none to 2.12 south. Temperatures 5° below normal to 2° above normal statewide. Lows 46 to 55° north; 47 to 59° central; 51 to 62° south. Highs 82 to 89° north; 85 to 91° central; 88 to 91° south.

Days suitable for fieldwork 6.6. Soil moisture 77% short, 19% adequate, 4% surplus. Corn silked 8%, 2% 1993, 20% avg.; 19% poor, 38% fair, 43% good. Sorghum planted 62%, 51% 1993, 54% avg.; 16% poor, 48% fair, 36% good. Peanuts planted 93%, 92% 1993, 92% avg. Wheat headed 96%, 93% 1993, 98% avg.; turning color 69%, 50% 1993, 83% avg.; 38% fair, 56% good, 6% excellent. Hay first cutting 72%, 60% 1993, 53% avg. Pasture 17% poor, 49% fair, 30% good, 4% excellent. Livestock 26% fair, 74% good. Activities: planting cotton, peanuts, sorghum, soybeans, vegetables.

ALASKA: Temperatures throughout the Railbelt remained slightly above normal with dry conditions persisting in most of the State.

Days suitable for fieldwork 6 general planting, farming activities. Crop growth 40% slow, 55% moderate, 5% rapid. Progress of farmwork was mostly on schedule to slightly behind. There was no wind or rain damaged reported. Barley, oat seeding was nearing completion by week's end. Commercial potato planting was 85% complete, compared with 80% a year ago. Vegetable seeding, transplanting continues. Winter freeze damage to grass fields averaged 15% moderate, 25% light, 60% with no visible damage. Topsoil 55% short, 45% adequate. Subsoil moisture 25% short, 75% adequate.

ARIZONA: Temperatures remain near normal; 4° below to 2° above. Extremes 30°; 95° higher elevations; 50°; 105° deserts. Precipitation trace to 1.31 in.

Cotton crop 1994 is planted, condition mostly good; planted to date 100%, 100% 1993, 100% avg.; squaring 26%, 30% 1993, 28% avg. Weed infestations light to moderate; insect, disease infestations remain light. Small grains heading 100%, 100% 1993, 100% avg.; turning color 99%, 100% 1993, 98% avg. Condition is mostly good. Alfalfa condition also mostly good. Harvest progress moderate. Weed infestations remain light to moderate; insect, disease infestations continue light. Citrus harvest continues to slow. Grapefruit, valencia oranges, central, western groves. Grape harvest continues western vineyards. Vegetables harvested from central areas included cabbage, carrots, green onions, kale, leeks, mixed greens, potatoes. Chile peppers, cantaloupes, honeydews, watermelon available western areas. Dry onions available both areas. Iceberg lettuce, tomatoes available eastern areas.

ARKANSAS: Temperatures a few degrees below normal. Midweek showers, thunderstorms. Extremes 44°; 92°. Rainfall 0.03 to 3.87 in.

Days suitable for fieldwork 6. Soil moisture 28% short, 68% adequate, 4% surplus. Crop development ahead of schedule. Flooding of rice fields continued. Some cotton replanted in southeast due to cool, wet weather. Cotton 86% emerged, 66% 1993, 73% avg. Wheat harvest underway. Sunflowers good condition, began to flower. Peaches, blueberries, strawberries, tomatoes, mostly good. Strawberry harvest ongoing. Blueberry harvest underway. Fertilization, weed control of pastures ongoing. Planting of summer grasses continued. Hay harvest in full swing. Alfalfa 27% fair, 73% good. Other hay 36% fair, 61% good, 3% excellent. Pasture 13% fair, 84% good, 3% excellent. Livestock good. Cattle in several counties treated for external parasites.

CALIFORNIA: Last week began cool, ended warmer than normal. Scattered showers, thunderstorms Sierra Nevada, southeast deserts.

Field activities gradually resumed as soils dried; growth, development many crops behind normal. Small grains mature except higher elevations. Barley harvest began southern counties; wheat harvest gained momentum desert. Rice planting neared completion. Emerged fields treated weeds, shrimp. Initial cotton planting complete, some replanting still underway. Germination, growth seeded fields slowly improved as temperatures warmed. Thinning, weeding, spraying aphids, mites ongoing. Corn, dry beans planted, irrigated, sprayed weeds. Over-wintered sugarbeets harvested,

irrigated. Seed alfalfa sprayed lygus. Alfalfa, oats, forage mixes, sudangrass cut hay, greenchopped. Some rain-damaged hay harvested silage. Growers applied fungicides to tree fruit, grapes for brown rot, mildew. Apricot, avocado, cherry, desert table grapes, nectarine, freestone peach harvests active. Hail, rain damage concerned growers. Date thinning active. Navel orange harvest winding down; valencia harvest gathering momentum. Lemon, grapefruit harvests continued. Thrips control for new crop citrus concerned growers. Strawberry harvest continued; recent rains caused some damage. Asparagus harvest completed Sutter County, continued Delta area. Broccoli harvested central coast. Cauliflower light harvest central coast. Cabbage harvested Fresno County. Cole crop harvest nearing completion Riverside County. Carrots packed Kern County. Celery harvested south coast. Cucumbers harvested Tulare, Fresno Counties. Harvest Head lettuce for shredding heavy San Benito County. Movement leaf, Romaine lettuce San Joaquin light. Melons planted San Joaquin while harvest melons continued Coachella Valley. Onions, garlic harvested Coachella, Palo Verde Valleys, Fresno County. Peppers planted central valley, harvested Riverside County. Fall potato planting Tulelake-Butte Valley continued. Spring potatoes Riverside County good growth. Squash harvested Tulare, Riverside Counties. Harvest sweet corn desert continued, began tassels Tulare County. Fresh market tomatoes planted San Joaquin Valley, while harvested Coachella Valley. Processing tomatoes irrigated, treated control mildew Fresno County. Other crops harvested: radishes, turnips, oriental vegetables. Cattle, sheep good condition. Rain, warmer weather improved summer feed, higher elevations. Supplemental feeding lower range due to diminished forage quality. Range, pasture conditions mostly good to fair. Movement livestock to summer pastures, markets heavy. Stockers placed feedlots.

COLORADO: Upper level area of low pressure early in the week triggered scattered thunderstorms in the mountains, east. System brought cool, wet weather to all areas except the extreme west. A series of weak upper level systems moved through at the end of the week with warm temperatures. Dry conditions returned on the 29th. Temperatures about 2° below normal in the Arkansas River Basin where most of the rainfall occurred. In the Colorado River Basin, temperatures were about 3° above normal with only a trace of rainfall. In the other Basins, temperatures were a little above normal with rainfall above normal.

Days suitable for fieldwork 5.1. Soil moisture 5% very short, 27% short, 61% adequate, 7% surplus. Alfalfa first cutting 15% complete, 10% 1993, 14% avg. Spring barley 95% emerged, 90% 1993, 94% avg.; 5% poor, 31% fair, 49% good, 15% excellent. Dry beans 14% planted, 17% 1993, 12% avg.; 2% emerged, 2% 1993, 2% avg. Oats 84% emerged, 75% 1993, 86% avg.; 3% poor, 35% fair, 48% good, 14% excellent. Dry onion 2% poor, 5% fair, 38% good, 55% excellent. Sugarbeets 12% thinned, 10% 1993, 19% avg.; 4% poor, 20% fair, 66% good, 10% excellent. Corn 86% emerged, 74% 1993, 75% avg. Spring wheat 90% emerged, 75% 1993, 82% avg.; 5% poor, 28% fair, 50% good, 17% excellent. Summer potatoes planting complete, 100% 1993, 94% avg.; 95% emerged, 94% 1993, 78% avg. Summer potatoes 5% poor, 11% fair, 35% good, 49% excellent. Fall potatoes 95% planted, 97% 1993, 92% avg.; 10% emerged, 5% 1993, 4% avg. Some wet weather, mild temperatures improved conditions, progress. Livestock good to excellent. Pasture, range feed condition good to excellent.

FLORIDA: Temperatures within a degree above or below normal. Highs, low to mid 90s. Lows, middle 50s to around 70°. One to three rain days. Weekly totals varied 0.50 in. with local amounts of 1.00 to 2.00 in. except for southeast coast totals of 3.00 to 4.00 in. with local amounts over 7.00 in.

Soil moisture mostly short Panhandle, north Peninsula, central Peninsula. Southern Peninsula adequate moisture. Winter wheat harvest active. Dry soil delaying soybean planting, completion of peanut, cotton planting. Some cotton planted in dry soil. Dryland crops drought stressed. Early corn tasseling. Sugarcane making good progress. Hay cutting active. First of week citrus belt hot, dry. Growers have been using irrigation. Rain cooled groves last part of the

week. New crop fruit progressing well. Valencia harvest slowing as supplies run low. Seedless grapefruit harvest all but over for this year. Caretakers cutting cover crops, spraying, fertilizing with hedging, topping nearly over. Vegetable production areas north, central, mostly dry, hot, though isolated locations received up to 2.00 in. rain at weekend. Vegetable crop condition generally good. Harvest increasing north, north central, season ending central. Leading vegetable shipments: Watermelons, potatoes, tomatoes, sweet corn, cucumbers. Also available: Snap beans, blueberries, cabbage, carrots, celery, eggplant, okra, parsley, peppers, radishes, squash, cherry tomatoes. Pasture feed 5% very poor, 20% poor, 45% fair, 30% good. Cattle herds fair to good condition.

GEORGIA: Temperatures 2° below normal most locations. Highs upper 80s to low 90s, except mid 80s mountains. Lows in 50s most locations, except some mid 40s mountains, low 60s isolated spots south. Rain 1 or 2 days much of State, except some stations south reported no rain. Most stations rain amounts generally 0.25 to 1.00 in. range. Heaviest rain 1.39 in. Cartersville, Bartow County.

Days suitable for fieldwork 6.2. Soil moisture 32% very short, 58% short, 10% adequate. Corn 32% silked, 1% 1993, 11% avg.; sharp drop in condition, many areas drought stress, irrigation very active. Cotton 12% squaring, 4% 1993, 2% avg.; condition off sharply, some drought caused stand problems, irrigation active. Sorghum 2% poor, 56% fair, 42% good; 78% planted, 63% 1993, 58% avg. Peanuts 1% poor, 36% fair, 63% good; 98% planted, 95% 1993, 91% avg.; 12% blooming, 5% 1993, 7% avg.; sharp drop in condition, some stand problems due to low soil moisture, irrigation active. Soybeans 5% poor, 51% fair, 44% good; moisture needed to resume planting. Tobacco 1% poor, 53% fair, 46% good. Wheat 45% harvested for grain, 4% 1993, 15% avg.; harvest very active, yields, grades good. Other small grains 4% poor, 16% fair, 72% good, 8% excellent. Onions 100% harvested, 94% 1993, 98% avg. Watermelons 3% poor, 39% fair, 58% good; planting virtually complete, condition off sharply. Other vegetables 1% poor, 24% fair, 75% good. Apples 8% very poor, 13% fair, 79% good. Peaches 20% fair, 80% good; 40% harvested, 9% 1993, 20% avg. Hay 1% very poor, 11% poor, 30% fair, 56% good, 2% excellent; excellent haying weather, harvest active. Pasture 1% very poor, 12% poor, 43% fair, 44% good. Cattle, hogs good. Other activities includes spraying to control dry weather insects, mowing pastures, caring for livestock, poultry.

HAWAII: Weather variable throughout the State. High pressure system northwest of islands brought some light, moderate morning, evening showers to windward areas. Days mostly sunny. Trade winds brisk towards weekend. Temperatures varied high 60s to mid 80s. Winds light to moderate, 5 to 30 mph. Rainfall none to 3.00 in.

Weather favorable for crop progress. Dry, warm weather necessitating irrigation increases. Regular spray programs kept insects, diseases under control. Sugar harvesting active all islands. Pineapple harvesting on the increase. Papaya production on upswing.

IDAHO: Temperatures at or up to 10° above normal. Precipitation none to 0.29 in. north, 0.01 to 0.49 in. southwest, 0.06 to 0.45 in. southcentral, none to 0.35 in. east.

Days suitable for fieldwork 6. Soil moisture 2% very short, 26% short, 72% adequate, 0% surplus. Potatoes planted 96%, 84% 1993, 89% avg.; emerged 45%, 23% 1993, 30% average. Spring barley emerged 96%, 70% 1993, 88% avg. Oats planted 98%, 85% 1993, 94% avg.; emerged 91%, 61% 1993, 78% avg. Sugarbeets emerged 99%, 88% 1993, 97% avg.; thinned 54%, 6% 1993, 34% avg. Field corn planted 93%, 82% 1993, 85% avg.; emerged 69%, 45% 1993, 52% avg. Dry beans planted 40%, 15% 1993, 27% avg. Dry beans emerged 8%, 0% 1993, 2% avg. Dry edible pea plantings complete, 90% 1993, 97% avg.; emerged 99%, 62% 1993, 87% avg. Alfalfa hay harvested (1st cutting) 13%, 9% 1993, 14% avg. Irrigation water supplies 10% poor, 31% fair, 55% good, 4% excellent. Hay, roughage supplies 7% short, 89% adequate, 4% surplus. Activities: Planting dry beans, corn, hilling potatoes, irrigating, thinning sugarbeets, cutting alfalfa, weed, insect control, moving cattle.

ILLINOIS: Cool weather near week's end; highs in the upper 60s. Temperatures within 2° of normal. Highs mid 70s to 80s. Precipitation occurred at the beginning of the period, totals for the week were under a quarter inch. Precipitation none to 2.08 in.

Days suitable for fieldwork 6.00. Soil moisture 29% short, 64% adequate, 7% surplus. Corn average height 4 in., 3 in. 1993, 6 in.

avg. Winter wheat filled 28%, 23% 1993, 10 in. avg. Oats headed 17%, 3% 1993, 12% avg.; filled 7%, less than 1% 1993, 4% avg. Alfalfa hay first cutting 49%, 34% 1993, 36% avg. Red Clover hay cut 39%, 33% 1993, 26% avg. Pasture feed 94% of normal. Oat 25% fair, 70% good, 5% excellent. Alfalfa 1% poor, 12% fair, 73% good, 14% excellent. Widely scattered rainfall after a cool front moved through midweek; only slight delays in fieldwork. Planting of corn, soybeans progressed well in the south while in the north farmers were hoeing, cultivating, spraying to control weeds due to poor pre-emergence herbicide control. Limited amounts of replanting of early planted corn was being done, spraying for cut worms more common statewide last week.

INDIANA: High temperatures mid to upper 70s north, upper 70s to 80° in south, normal to 3° above normal. Lows in the upper 40s to mid 50s in north to the 50s south, which was 1 to 4° below normal. Rainfall 0.10 to 0.50 in. far north, south to 0.20 to 1.00 in. the central areas. Heavy showers, hail, isolated areas.

Days suitable for fieldwork 6. Best week thus far for fieldwork. Corn planting virtually complete north, central areas. Replanting corn, some fields. Spraying for cutworm. Pastures good, to excellent condition. Pastures feed 92% of normal, 94% last week. Topsoil 37% short, 57% adequate, 6% surplus. Subsoil 15% short, 80% adequate, 5% surplus. Corn 77% emerged, 70% 1993, 75% avg. Corn 4 in. high, 4 in. 1993, 5 in. avg. Soybeans 48% emerged, 33% 1993, 45% avg. Oats headed 15%, 24% avg. Alfalfa 1st cutting 42%, 34% 1993, 30% avg. Tobacco set 22%, 35% 1993, 15% avg.

IOWA: Temperatures 1° below normal to 8° above normal. Extremes 35° (27th, northeast); 92° (23rd northwest, southwest). Precipitation as little as 0.20 in. far east-central to as much as 2.17 in. central. Rainfall 0.81 in. (normal 0.95 in.).

Days suitable for fieldwork 4.9. Topsoil 39% short, 59% adequate, 2% surplus. Subsoil 7% short, 91% adequate, 2% surplus. Corn replanted 2%; emerged 99%, 35% 1993, 71% avg.; stand 95%. Soybeans emerged 78%, 5% 1993, 30% avg. Oats headed 8%, 0% 1993, 2% avg. Alfalfa hay 1st crop harvested 10%, 2% 1993, 6% avg. Winter wheat 1% poor, 20% fair, 68% good, 11% excellent. Pasture 4% poor, 28% fair, 58% good, 10% excellent. Oats 3% poor, 20% fair, 63% good, 14% excellent. Hay 2% very poor, 4% poor, 33% fair, 52% good, 9% excellent. Soybean 1% poor, 17% fair, 67% good, 15% excellent. Herbicide-related stress to soybeans, corn is showing up across the State. Many farmers are expressing concern about the drop in cattle prices, slow movement of fed cattle to slaughter.

KANSAS: Temperatures 1 to 4° above normal. Precipitation was very light across the State. Rainfall less than 0.50 in. all districts.

Days suitable for fieldwork 5.5. Conditions are beginning to turn dry. Topsoil moisture 79% short to very short, 21% adequate. Subsurface moisture 22% short to very short, 74% adequate, 4% surplus. Warm, dry weather of recent weeks is speeding the maturity of wheat. Wheat in many areas of the State is beginning to turn color. Barley yellow dwarf is the most prevalent disease, appearing all over the State. The worst infestations are in the southeastern quadrant of the State. Wheat streak mosaic is present in the central, western districts. Recent warm, dry weather, the rapid progress of the crop will likely limit development of foliar diseases. Russian wheat aphid are reported in the western districts. Favorable weather allowed good planting progress. Corn planting is virtually complete. Sorghum, soybean planting are past the halfway mark. Statewide, 80% of the alfalfa has been cut the first time compared to 40% 1993, 50% avg. Pastures are in good condition in all districts except the southwest where they are fair.

KENTUCKY: Highest temperatures mid to upper 80s, low temperatures upper 30s. Readings averaged mid to upper 60s, near normal. Most reporting stations received some rain, amounts varied from less than 0.25 in. in Louisville to nearly 2.00 in. at Cumberland Gap.

Days suitable for fieldwork 4.9. Soil moisture 2% very short, 33% short, 63% adequate, 2% surplus. Corn planting winding down, 80% planted acres emerged. Soybean planting: rapid progress, stopped some areas due to dryness. Burley tobacco 45% set, 37% 1993, 46% avg. Dark tobacco 60% set. Set tobacco condition 4% poor, 24% fair, 67% good, 5% excellent. Winter wheat 1% poor, 12% fair, 78% good, 9% excellent. Minimal disease, some armyworms. Ideal hay curing weather continued. Pastures good to excellent; could use additional moisture.

LOUISIANA: Temperatures 0.5 to 2.9° below normal. Extremes 53°; 90°. Rainfall 0.07 in. northeast to 1.61 in. central.

Days suitable for fieldwork 6.1. Soil moisture 4% short, 52% adequate, 6% surplus. Corn 27% fair, 63% good, 10% excellent; 13% silked, 4% 1993, 14% avg. Cotton 95% emerged, 93% 1993, 85% avg.; 0% squaring, 0% 1993, 2% avg. Planting neared completion. Boll weevil counts increased in traps. Hay 61% first cutting, 53% 1993, 40% avg. Harvest made excellent progress. Peaches 70% fair, 30% good; 16% harvested, 3% 1993, 6% avg. Sorghum 9% poor, 56% fair, 35% good; 79% emerged, 78% 1993, 76% avg. Planting active. Soybeans 44% emerged, 40% 1993, 35% avg. Planting active. Spring plowing 99% plowed, 95% 1993, 93% avg. Sweet potatoes 26% planted, 31% 1993, 30% avg. Made good progress on planting. Sugarcane 33% fair, 67% good. Fertilization neared completion, lay-by was active. Wheat 53% fair, 47% good; 100% turning color, 94% 1993, 97% avg.; 39% harvested, 28% 1993, 39% avg. Livestock 35% fair, 60% good, 5% excellent. Pasture 4% fair, 96% good. Vegetables 20% fair, 74% good, 6% excellent.

MARYLAND & DELAWARE: MARYLAND: Rainfall 0.96 in., normal 0.86 in. Temperature 68.0°, normal 64.3°. Extremes 32°; 97°.

Days suitable for fieldwork 5.3. Topsoil 30% short, 70% adequate. Subsoil 5% short, 90% adequate, 5% surplus. Pasture feed condition excellent. Small grain fair to mostly good. Winter wheat 98% headed, 91% 1993, 93% avg. Barley 53% turned, 48% 1993, 54% avg. Rye 94% headed, 98% 1993, 99% avg. Corn for grain 93% planted, 90% 1993, 88% avg. Soybeans 32% planted, 25% 1993, 28% avg. Sorghum 36% planted, 25% 1993, 21% avg. Tobacco 29% transplanted, 17% 1993, 38% avg. Sweet corn 81% planted, 79% 1993, 75% avg. Melon planting nearing completion, tomato, cucumber, lima, snap bean planting active. Other hay 34% first cut, 42% 1993, 33% avg. Alfalfa hay 57% first cut, 63% 1993, 56% avg. Strawberry harvest active.

DELAWARE: Precipitation 0.74 in., normal 0.73 in. Temperature 66.2°, normal 65.5°. Extremes 38°; 88°.

Days suitable for fieldwork 5.6. Topsoil 60% adequate, 40% surplus. Subsoil 100% adequate. Pasture feed excellent. Small grain mostly fair to good. Wheat 97% headed, 90% 1993, 95% avg. Barley 13% turned, 55% 1993, 65% avg. Rye 98% headed, 95% 1993, 99% avg. Corn for grain 97% planted, 92% 1993, 94% avg. Soybeans 24% planted, 36% 1993, 26% avg. Sorghum 31% planted, 20% 1993, 24% avg. Sweet corn 88% planted, 90% 1993, 78% avg. Melon, vegetable planting active, other hay 61% first cut, 67% 1993, 53% avg. Alfalfa hay 55% first cut, 59% 1993, 54% avg. Strawberry harvest active, green pea harvest beginning.

MICHIGAN: Extremes 26°; 90°. Precipitation 0.02 to 1.75 in.

Days suitable for fieldwork 6.0. Soil moisture 55% short, 45% adequate. Corn 55% emerged, 35% 1993, 55% avg.; 2% very poor, 3% poor, 25% fair, 60% good, 10% excellent. Oats 1% very poor, 4% poor, 25% fair, 55% good, 20% excellent. Potatoes 85% planted, 80% 1993, 80% avg. Soybeans 25% emerged, 15% 1993, 20% avg.; 75% planted, 60% 1993, 60% avg. Hay 5% first cutting, 5% 1993, 5% avg.; 1% very poor, 4% poor, 30% fair, 50% good, 15% excellent. Pasture feed condition 85% of normal. Activities: hauling manure, pruning, spraying, working on equipment, tilling, planting.

MINNESOTA: Temperatures 3 to 6° above normal. Extremes 32°; 89°. Precipitation 0.40 in. below normal in the northwest to 0.25 in. above normal in the southeast. Greatest weekly total was 2.04 in.

Days suitable for fieldwork 4.3. Topsoil 21% short, 68% adequate, 11% surplus. Corn 90% emerged, 43% 1993, 64% avg.; 4% cultivated once, 2% 1993, 5% avg.; soybeans 95% planted, 45% 1993, 65% avg.; 56% emerged, 9% 1993, 30% avg.; 1% cultivated once 0% 1993, 0% avg.; Spring wheat 17% jointing, 10% 1993, 14% avg.; oats 24% jointing, 12% 1993, 16% avg.; barley 90% emerged, 91% 1993, 93% avg.; 17% jointing, 7% 1993, 10% avg.; potatoes 91% planted, 94% 1993, 87% avg.; sweet corn 91% planted, 47% 1993, 62% avg.; dry beans 89% planted, 63% 1993, 75% avg.; flax 79% planted, 94% 1993, 79% avg.; sunflowers 90% planted, 90% 1993, 79% avg.; corn 16% fair, 70% good, 14% excellent. Spring wheat 15% fair, 77% good, 8% excellent. Barley 12% fair, 75% good, 13% excellent. Oats 18% fair, 73% good, 9% excellent.

MISSISSIPPI: Temperatures 1.4° below normal. Extremes 45°; 91°. Soil temperature 79°. Rainfall 0.59 in., 0.51 in. below normal. Northeast, south-central districts received well over an inch of rainfall. Heaviest precipitation occurred in Corinth with over 3.00 in.

Days suitable for fieldwork 6.1. Soil moisture 61% short, 35%

adequate, 4% surplus. Corn 99% planted, 88% 1993, 89% avg.; 98% emerged, 76% 1993, 84% avg.; 4% silked, 0% 1993, 2% avg.; 5% poor, 30% fair, 62% good, 3% excellent. Cotton 99% planted, 90% 1993, 86% avg.; 97% emerged, 70% 1993, 76% avg.; 12% squared, 1% 1993, 1% avg.; 7% poor, 37% fair, 50% good, 6% excellent. Rice 100% planted, 64% 1993, 79% avg.; 99% emerged, 46% 1993, 67% avg.; 24% fair, 53% good, 23% excellent. Sorghum 80% planted, 70% 1993, 75% avg.; 70% emerged, 58% 1993, 68% avg.; 64% fair, 24% good, 12% excellent. Soybeans 73% planted, 17% 1993, 26% avg.; 59% emerged, 9% 1993, 18% avg.; 5% poor, 31% fair, 43% good, 21% excellent. Wheat 58% mature, 44% 1993, 61% avg.; 16% harvested, 3% 1993, 7% avg.; 2% poor, 17% fair, 52% good, 29% excellent. Hay 37% harvested, 30% 1993, 26% avg. Peaches 11% harvested, 6% 1993, 9% avg. Peanuts 97% planted, 50% 1993, 61% avg. Sweet potatoes 29% planted, 37% 1993, 45% avg.; 66% fair, 34% good. Watermelons 94% planted, 88% 1993, 91% avg.; 9% poor, 48% fair, 43% good. Livestock 15% fair, 75% good, 10% excellent. Pasture feed 80% of normal. Activities: Cultivation, hay harvest, weed control, insect control.

MISSOURI: Temperatures about normal, 1° below normal southeast to 4° above normal northeast. Rainfall 0.47 in., 0.18 in. southwest to 0.66 in. south-central.

Days suitable for fieldwork 6.0. Topsoil 37% short, 62% adequate, 1% surplus. Corn planting approaching completion. Wheat headed ranges 74% northeast to 100% in southern third of State. Alfalfa hay cut 53%, 31% 1993, 36% avg. Other hay cut 30%, 17% 1993, 36% avg. Pastures 1% very poor, 2% poor, 23% fair, 66% good, 8% excellent.

MONTANA: Above normal temperatures, below normal precipitation.

Days suitable for fieldwork 5.9. Topsoil 27% short, 70% adequate, 3% surplus. Subsoil 20% short, 77% adequate, 3% surplus. Barley 96% planted, 91% 1993, 92% avg.; 80% emerged, 62% 1993, 63% avg.; 1% poor, 16% fair, 53% good, 30% excellent. Oats 97% planted, 90% 1993, 90% avg.; 72% emerged, 57% 1993, 55% avg.; 1% poor, 13% fair, 61% good, 25% excellent. Sugarbeets 100% planted, 100% 1993, 100% avg.; 93% emerged, 79% 1993, NA avg.; 2% very poor, 3% poor, 17% fair, 67% good, 11% excellent. Corn 93% planted, 91% 1993, 81% avg.; 61% emerged, 26% 1993, NA avg. Dry beans 91% planted, 90% 1993, 58% avg.; 41% emerged, 20% 1993, NA avg. Potatoes 89% planted, 48% 1993, 59% avg.; 16% emerged, 5% 1993, NA avg. Cattle, calves moved to summer pastures, 76%; sheep, lambs, 71%. Pasture, range feed condition 96% of normal.

NEBRASKA: Temperatures 4° above normal. Precipitation occurred intermittently throughout week with amounts up to 0.80 in. northeast.

Days suitable for fieldwork 6.5. Topsoil 79% short, 18% adequate, 3% surplus. Subsoil 11% short, 87% adequate, 2% surplus. Wheat 6% poor, 46% fair, 45% good, 3% excellent; 64% headed, 32% 1993, 62% avg. Corn 15% fair, 78% good, 7% excellent; 96% emerged, 55% 1993, 78% avg. Soybeans 97% planted, 41% 1993, 63% avg.; 56% emerged, 9% 1993, 31% avg. Sorghum 86% planted, 32% 1993, 54% avg.; 36% emerged, 7% 1993, 27% avg. Alfalfa 2% poor, 43% fair, 50% good, 5% excellent; 21% first cutting harvested, 9% 1993, 15% avg. Wild hay 2% poor, 27% fair, 65% good, 6% excellent. Dry beans 31% planted, 10% 1993; 9% emerged. Pasture, range feed 93% of normal.

NEVADA: Clear, dry, weather first of period followed by a few light showers weekend. Temperatures 3 to 5° above normal across State. Extremes 26°; 104°.

Field crops fair to good condition most areas. Surface irrigation water supplies remain short. First cutting alfalfa hay off to good start central areas; second cutting well along extreme south. Livestock movement continues to spring, summer ranges.

NEW ENGLAND: Precipitation 0.16 to 1.80 in. regionwide. Temperatures 50 to 59° north; 58 to 65° south. Maximum temperatures 77 to 94° north; 81 to 90° south. Minimum temperatures 25 to 39° north; 27 to 42° south.

Maine potatoes 70% planted, 70% 1993, 75% avg.; good. Oats 70% planted, 80% 1993, 80% avg.; good. Field corn 60% planted, 65% 1993, 65% avg.; good. Sweet corn 60% planted, 70% 1993, 65% avg.; good. Apples at petal fall stage. Cranberries at bud stage. Peaches, pears at petal fall stage. Major farm activities: Plowing fields, planting field crops. Planting warmer season crops: Tomatoes, peppers, melons. Applying oil sprays to orchards. Harvesting rhubarb, asparagus. Applying herbicides, fertilizers.

NEW JERSEY: Temperatures near normal. Extremes 32°; 91°. Rainfall 0.42 in. north, 0.87 in. central, 1.15 in. south. Heaviest 24-hour total 1.15 in. on 26th, 27th. Estimated soil moisture, in percent field capacity, averaged 79% north, 89% central, 79% south. Four-inch soil temperatures 62° north, 65° central, 68° south.

Days suitable for fieldwork 5. Soil moisture adequate in most areas. Apples, peaches, blueberries are sizing well. Planting of spring vegetables including field corn, soybeans. Harvesting of greens, asparagus, beets, cabbage, parsley, spinach, radishes. Harvest of strawberries has begun in southern Jersey. Good supply of endive, escarole, lettuce (except for iceberg) available. Limited cutting of hay. Wheat, barley, rye are heading up. Pastures in good condition.

NEW MEXICO: Temperatures dipped to cool readings at midweek under clouds, rain, but then recovered quickly by the weekend. Overall much of the State 2 to 4° warmer than usual except for the northern mountains which were slightly cooler than average. Series of daily showers at midweek yielded rain for all reporting stations with amounts of 1.00 to 2.00 in. over the northern, central mountains, northeastern plains. Elsewhere from a few tenths to 0.60 in.

Days suitable for fieldwork 5.1. Soil moisture 32% short, 45% adequate, 23% surplus. Hail damage reported was light to severe across the State. Severe hail damage was reported on the high plains, Dona Ana county; field crops as well as fruit, nut trees were affected. Wind damage was light to moderate statewide, a small amount of light to moderate freeze damage was reported in the northern part of the State. Cropland conditions: alfalfa 7% poor, 32% fair, 54% good, 7% excellent. Irrigated wheat 5% poor, 33% fair, 52% good, 10% excellent. Dryland wheat 20% very poor, 30% poor, 40% fair, 10% good. Wheat crop 73% headed. Chile 27% fair, 73% good. Onion, lettuce harvest continued with onions reported as poor to good, lettuce fair to good. Corn planting was almost complete with approximately 90% of the crop planted. Sorghum planting was well under way with the crop reported in fair to excellent condition. Cattle, sheep improved to poor to excellent condition. Range feed condition improved slightly to 62% of normal with much-needed moisture.

NEW YORK: Week began warm, dry, ended chilly. Highs in 70s to 80s dropped to 50s to 60s later half of week. Rainfall variable, below average. Upstate areas experienced a frost on night of 27th. Extremes 28°; 89°.

Days suitable for fieldwork 5.1. Soil moisture mostly adequate. Pasture feed 93% of normal. Hay, wheat good. Corn 62% planted, 76% 1993, 63% avg. Oats 87% seeded, 84% 1993, 88% avg. Long Island potato planting finished. Cool temperatures slowed fruit development. Conditions not good for pollination. Orange County onion growth behind normal. Some wind damage. Sweet corn planting continued. Lettuce planting active. Cool temperatures delayed strawberry bud development.

NORTH CAROLINA: Mean temperatures 2 to 3° below normal. Largest negative departures occurred in the mountains. Rainfall 2.17 in. at Sams Gap to no precipitation at several locations.

Days suitable for fieldwork 6.3. Soil moisture 24% very short, 63% short, 13% adequate. Crop conditions: Wheat 1% poor, 29% fair, 66% good, 4% excellent; oats 3% poor, 37% fair, 58% good, 2% excellent; barley 32% fair, 66% good, 2% excellent; rye 2% poor, 25% fair, 72% good, 1% excellent; pasture 1% very poor, 12% poor, 55% fair, 32% good; field tobacco 4% poor, 37% fair, 57% good, 2% excellent; corn 2% poor, 40% fair, 57% good, 1% excellent; cotton 17% poor, 54% fair, 29% good; peanuts 36% fair, 64% good; soybeans 3% poor, 46% fair, 50% good, 1% excellent; hay 1% very poor, 4% poor, 46% fair, 48% good, 1% excellent; irish potatoes 34% fair, 60% good, 6% excellent; sweet potatoes 3% poor, 43% fair, 51% good, 3% excellent; apples 46% fair, 50% good, 4% excellent; peaches 37% fair, 56% good, 7% excellent; truck crops 48% fair 48% good, 4% excellent; hay, roughage supplies 23% short, 71% adequate, 6% surplus; sorghum planted 44%, 59% 1993, 50% avg.; soybeans planted 42%, 46% 1993, 41% avg.; burley tobacco transplanted 33%, 28% 1993, 40% avg.; sweet potatoes 46%, 51% 1993, 45% avg. Activities included: Transplanting tobacco; planting corn, soybeans; cutting hay, preparing land for planting. Other activities included: Cultivating tobacco, planting peanuts, cotton, truck crops; tending livestock; equipment repair, general farm maintenance.

NORTH DAKOTA: Temperatures above normal across State, precipitation was variable. Precipitation 0.10 in. southwest to 0.99

in. central. Temperatures 3 to 4° above normal across State. Extremes 33° west-central; 89° east-central.

Days suitable for fieldwork 6.0. Topsoil 2% very short, 19% short, 71% adequate, 8% surplus. Subsoil 5% short, 88% adequate, 7% surplus. Small grain planting nearly complete, emergence of most behind last year, average. Hard red spring wheat none poor, 13% fair, 73% good, 14% excellent; durum wheat 1%, 10%, 74%, 15%; barley 0%, 10%, 75%, 15%; oats 1%, 18%, 68%, 13%; winter wheat 1%, 12%, 78%, 9%. Hard red spring wheat 76% emerged thru stooling, 3% jointing and beyond; 85%, 4% 1993; 81%, 7% avg.; durum wheat 63% emerged thru stooling, 1% jointing and beyond; 76%, 2% 1993; 74%, 4% avg.; barley 80% emerged thru stooling, 4% jointing and beyond; 84%, 6% 1993; 81%, 9% avg.; oats 80% emerged thru stooling, 2% jointing and beyond; 82%, 5% 1993; 78%, 7% avg. Winter wheat 43% jointing, 2% boot and beyond; 57%, 3% 1993, 54%, 11% avg. Sugarbeets 97% emerged, 98% 1993, NA avg.; corn 88% planted, 90% 1993, 89% avg.; flax 71% planted, 85% 1993, 79% avg.; potatoes 93% planted, 96% 1993, 92% avg.; soybeans 93% planted, 91% 1993, 84% avg.; dry beans 70% planted, 78% 1993, 73% avg.; sunflower 69% planted, 63% 1993, 62% avg. Spraying of broadleaf weeds was 16% complete, wild oats 27%. Roughage requirements furnished by pastures 93%; pastures 95% of normal. Stockwater supplies 2% short, 90% adequate, 8% surplus.

OHIO: Weather was drier than normal for the past week. A cold front produced scattered thunderstorms on the 25th, 26th. High temperatures low to mid 70s in the north to the mid to upper 70s in the central, south; the east was mostly 1 to 2° below normal. Readings were normal to as much as 3° above normal in the west. Lows averaged in the mid 40s to lower 50s, which was 1 to 5° below normal. Coldest readings in the mid 30s to 40° produced some frost. Rainfall averaged 0.25 to 0.80 in., except for 0.20 in. or less in parts of the southwest. This was drier than normal by 0.20 to 0.90 in. Soil temperatures at the 4-in. depth under bare ground averaged in the mid to upper 60s.

Days suitable for fieldwork 5.4. Soil moisture 26% short, 68% adequate, 6% surplus. Most crops are ahead of their five year planting date averages. Winter wheat mostly good to excellent. Corn planted 99%, 95% 1993, 84% avg.; emerged 82%. Soybeans planted 92%, 81% 1993, 62% avg.; emerged 65%. Hay mostly good.

OKLAHOMA: Temperatures nearly 1° below normal south-central to 3° above normal northeast. Precipitation 0.66 in. west-central to 3.12 in. east-central.

Days suitable for fieldwork 5.8 Topsoil 38% short, 58% adequate, 4% surplus. Subsoil 20% short, 80% adequate. Oats 89% headed, 75% 1993, 85% avg.; 51% soft dough, 22% 1993, 50% avg. Barley 95% headed, 74% 1993, 80% avg.; 27% soft dough, 23% 1993, 48% avg. Corn 12% fair, 88% good; 99% up to stand, 95% 1993, 89% avg. Soybeans 91% seedbed prepared, 59% 1993, 91% avg.; 64% planted, 25% 1993, 33% avg.; 45% up to stand, 16% 1993, 15% avg. Peanuts 92% seedbed prepared, 88% 1993, 94% avg.; 59% planted, 47% 1993, 44% avg.; 34% up to stand, 12% 1993, 19% avg. Pasture 96% normal. Feeders \$1.00 to \$3.00 lower. Calves \$4.00 to \$8.00 lower.

OREGON: Temperatures 2° above normal. Precipitation western sections 0.10 in., northern Cascades, high plateau 0.30 to 0.40 in., east of Cascades 0.20 in.

Soil moisture 34% short, 66% adequate. Winter wheat 1% very poor, 8% poor, 27% fair, 48% good, 16% excellent; 80% headed. Russian wheat aphids reported in the Columbia Basin of State. Barley 90% planted. Eastern areas precipitation continued to aid grain crops, mint crop ahead of schedule. Western areas grass seed crops mostly headed with some in bloom, sugarbeets for seed began to head out. Eastern potatoes mostly planted, exception in central portions. Klamath Basin potatoes not yet emerged. Willamette Valley: vegetable planting continued, strawberry harvest underway, Marionberries, raspberries setting fruit, cherry harvest expected 10th. Milton-Freewater district received severe splitting damage to sweet cherry crop, harvest expected next week. The Dalles district sweet cherry harvest expected 15th. Pear, apple districts maintained normal spray schedules. Stevens cranberries bloom stage, McFarlin cranberries still at hook stage; southern coast. Livestock good to excellent. Range, pasture 88% of normal. Cattle turn out on public lands continued. Stockwater shortage evident, southeastern areas.

PENNSYLVANIA: Thunderstorms every day except 27th. Some very strong winds, hail storms. Temperature 66°, 7° above normal.

Extremes 27°; 92°. Precipitation 0.90 in., 0.08 in. above normal.

Days suitable for fieldwork 4. Soil moisture 6% short, 82% adequate, 12% surplus. Plowing 92% complete, 93% 1993, 92% avg. Corn 77% planted, 77% 1993, 69% avg. Soybeans 50% planted, 44% 1993, 36% avg. Oats 97% planted, 96% 1993, 96% avg. Potatoes 77% planted, 75% 1993, 78% avg. Barley 85% boot, 80% 1993, 82% avg.; 70% heading or headed, 66% 1993, 68% avg. Wheat 70% boot, 73% 1993, 77% avg.; 34% heading or headed, 35% 1993, 43% avg.; 3% very poor, 4% poor, 26% fair, 48% good, 19% excellent. Oats 2% very poor, 2% poor, 23% fair, 56% good, 17% excellent. Hay stands mostly fair to good. Alfalfa first cutting 19% complete, 27% 1993, 25% avg. Quality of hay made 8% poor, 32% fair, 60% good. Feed from pastures good to excellent. Cherries 100% pink, 100% 1993, 99% avg.; 92% full bloom or past, 100% 1993, 97% avg. Apples 100% pink, 100% 1993, 99% avg.; 93% full bloom or past, 95% 1993, 94% avg. Activities: plowing; planting corn, soybeans; making hay; spraying pesticides; hauling manure; caring for livestock.

PUERTO RICO: Island average rainfall of 0.07 in. was 1.45 in. below normal. Highest weekly total was 0.57 in. at Pico del Este. Highest 24-hour total was 0.40 in. at Rio Blanco on May 25. WSFO San Juan mean temperature of 84.0° was 2.9° above normal. Mean temperatures ranged from 66.5° at Pico del Este to 84.3° at Roosevelt Roads. Extremes 57°, 95°.

SOUTH CAROLINA: Temperatures 0 to 2° above normal. Rainfall less than 0.25 in.

Days suitable for fieldwork 6.3. Soil moisture 41% very short, 57% short, 2% adequate. Tobacco fair to good; corn fair; 2% silked, 0% 1993, 0% avg. Cotton fair to good; 99% planted, 96% 1993, 93% avg. Cantaloupes fair to good; 98% planted, 91% 1993, 88% avg. Watermelons fair to good. Cucumbers fair to good; 6% harvested, 1% 1993, 0% avg. Snapbeans fair to good; 88% planted, 84% 1993, 81% avg. Tomatoes fair to good. Oats fair to good; 90% turning color, 81% 1993, 88% avg.; 32% harvested, 5% 1993, 11% avg. Rye fair to good; 97% turning color, 77% 1993, 81% avg.; 26% harvested, 0% 1993, 10% avg. Wheat fair to good; 96% turning color, 78% 1993, 87% avg.; 24% harvested, 0% 1993, 11% avg. Peanuts fair to good; 93% planted, 89% 1993, 90% avg. Sorghum 36% planted, 52% 1993, 39% avg. Pastures fair to good.

SOUTH DAKOTA: Temperatures normal to 7° above normal. Extremes 25°; 92°. Widespread showers early in week. Heaviest 1.20 in. northeast.

Days suitable for fieldwork 6.1. Topsoil 2% very short, 49% short, 45% adequate, 4% surplus. Subsoil 1% very short, 20% short, 63% adequate, 16% surplus. Winter wheat 65% boot, 45% 1993, 61% avg. Winter rye 13% fair, 87% good; 61% boot, 53% 1993, 62% avg.; 25% headed, 10% 1993, 27% avg. Barley 2% poor, 9% fair, 78% good, 11% excellent; 96% emerged, 93% 1993, 96% avg.; 5% boot, 3% 1993, 11% avg. Oats 1% very poor, 1% poor, 14% fair, 74% good, 10% excellent; 98% emerged, 90% 1993, 96% avg.; 7% boot, 2% 1993, 15% avg. Flax 61% planted, 63% 1993, 74% avg.; 59% emerged, 61% 1993, 60% avg. Sunflower 49% planted, 37% 1993, 30% avg. Livestock 3% fair, 81% good, 16% excellent. Feed, water supply mostly adequate. Pastures 93% of normal, 88% cattle moved to pastures. Producers busy vaccinating, branding cattle, repairing fences, applying herbicides.

TENNESSEE: High pressure provided fair, mild weather the first half of the week. Extensive rain, thunderstorms spread over the State in association with a cold front at midweek. High pressure followed with fair, cooler weather for the latter part of the week. Temperatures averaged below normal in all areas except the West with departures ranging from minus seven degrees across the Plateau to plus 1° west. Extremes 40°; 88°. Precipitation was a little below normal in the west, above normal elsewhere. Rainfall 0.87 in. west, 1.71 in. middle, 1.67 in. Plateau, 1.36 in. east.

Days suitable for fieldwork 5.0. Soil moisture 1% very short, 16% short, 78% adequate, 5% surplus. Corn 95% planted, 96% 1993, 89% avg.; 21% fair, 76% good, 3% excellent. Cotton 99% planted, 93% 1993, 83% avg.; 11% poor, 34% fair, 55% good. Sorghum 58% planted, 63% 1993, 58% avg. Soybeans 28% planted, 23% 1993, 24% avg. Tobacco 64% transplanted, 58% 1993, 57% avg. Wheat 49% turning color, 44% 1993, 58% avg.; 20% fair, 80% good. Alfalfa

90% first cut, 85% 1993, 76% avg.; 1% poor, 20% fair, 72% good, 7% excellent. Other Hay, 2% poor, 24% fair, 66% good, 8% excellent. Cattle, 6% fair, 90% good, 4% excellent.

TEXAS: A very slow moving upper air system, associated cold front triggered thunderstorms mainly over northern, western sections during early to middle part of week. The northern, south central, southeast sections received thunderstorms late in week with some severe. Warm days with cool to mild nights were the rule early in week. Temperatures cooled in north at midweek. For the week temperatures ran close to normal except for slightly above normal readings on the Edwards Plateau. Rainfall ran above normal over the Northern half of State, below normal in the South except for the Upper Coast.

Crops: Corn planting was completed in High Plains before thunderstorms struck area. Elsewhere, most fields made excellent progress under hot, dry weather. Fields in South Texas were beginning to show signs of stress due to hot, dry conditions, lack of rain. Statewide condition 89% normal, 86% 1993. Cotton planting activities continued in full swing in Plains, Edwards Plateau. Midweek storms interrupted most activity in Plains, caused minor damage to some fields. However, in hardest hit areas replanting will likely be necessary. Some fields in Blacklands, Edwards Plateau were replanted due to washout from earlier heavy rains. Cotton in South Central Texas improved as hotter temperatures prevailed. Plants in South Texas, Rio Grande Valley were showing signs of stress due to heat, continued to square, set bolls. Cotton 82% normal, 74% 1993; 11% squaring, 11% 1993; 1% setting bolls, 2% 1993. Peanuts land preparation, herbicide application continued in most areas of Blacklands, where only minimal planting took place. Planting continued in other areas where conditions allowed. Dry conditions in South Texas caused pre-watering to continue in order for planting to occur. In Low Plains, Blacklands, earlier planted fields were emerging, stands looked good, 27% planted, 29% 1993. Rice planting was completed, stands continued to make excellent progress. Rice 95% normal, 74% 1993. Sorghum in Blacklands progressed well with most plants in flag leaf to early heading stage. Planting was in full swing in Plains where conditions allowed. Plants in South Central Texas were heading. Some fields in Rio Grande Valley began turning color. Sorghum 85% normal, 84% 1993; 26% headed, 21% 1993. Soybeans planting activities were delayed again in Plains. Elsewhere planting activities increased, emerged stands progressed well, 39% planted, 65% 1993. Small grains wheat harvest continued from South Texas to Blacklands where conditions allowed. Harvest delays in Low Plains, with more serious damage occurring to some fields in Plains caused by midweek thunderstorms. Oat harvest in full swing in Edwards Plateau and South Central Texas. Wheat 53% normal, 76% 1993. Sunflowers 43% planted, 49% 1993.

Commercial Vegetables: Rio Grande Valley watermelon, cantaloupe, honeydew harvest was in full swing. Citrus fruit continued to look good, with irrigation underway in groves needing water. San Antonio Winter Gardens watermelons, peppers, cucumbers made good progress. Onion, cabbage harvest continued. Trans Pecos harvesting of onions occurred and cantaloupe made good growth. East Texas squash, beans, cabbage harvest continued. Sweet potato, watermelon planting continued. Early melons had good to excellent growth. More insect and disease problems were occurring due to humid conditions. High Plains onions made good progress with some reports of heavy thrips. Peaches harvest was in full swing in Edwards Plateau. In Cross Timbers, peaches continued to size, while peaches in East Texas made good progress. Disease, insect infestation continued to rise in Cross Timbers. Pecans casebearer spraying continued over some areas, while other areas made preparations for spraying. Nuts in Cross Timbers continued to develop, showed signs of a good crop. Trees in Trans Pecos received some damage from high winds, hail at midweek. Trees in South Central Texas continued to progress at slower than normal rate, while shortage of moisture began to stress pecans in South Texas.

Range and Livestock: Hay cutting, baling increased as pasture conditions continued to improve. Rain caused some delay in haying activities. Spraying for weeds, fertilization activities also continued. Flies, ticks, mosquitos continued to bother livestock in most areas. Livestock was in fair to good condition.

UTAH: Temperature 4° above normal; minimums 1° above normal. Precipitation light to moderate across the entire State.

Days suitable for fieldwork 6.9. Soil moisture 73% short, 27% adequate. Spring wheat jointed 63%, 41% 1993, 58% avg. Barley jointed 65%, 62% 1993, 70% avg. Oats emerged 94%, 88% 1993; jointed 33%, 19% 1993. Winter wheat jointed 95%, 91% 1993;

heading or better 35%, 12% 1993. Corn planted 93%, 90% 1993; emerged 80%, 56% 1993, 64% avg. Alfalfa hay height 17.3 in. Alfalfa hay 1st cutting 28% completed, 11% 1993. Other hay cutting 8% completed. Potatoes planted 83%. Dry beans planted 9%. Cattle to summer range 56%, 69% 1993, 58% avg. Sheep to summer range 62%, 63% 1993, 61% avg. Pasture, range conditions good to excellent. Activities were planting crops, harvesting alfalfa, spraying spring grains, alfalfa (weevil), irrigating, moving cattle, sheep.

VIRGINIA: Temperatures near normal. Extremes 36°; 93°. Precipitation averaged near normal.

Days suitable for fieldwork 6.0. Topsoil moisture 5% very short, 54% short, 41% adequate. Barley 1% poor, 42% fair, 57% good. Wheat 3% poor, 45% fair, 52% good. Pasture 8% poor, 54% fair, 38% good. Alfalfa hay 4% poor, 35% fair, 57% good, 4% excellent. Other hay 10% poor, 64% fair, 26% good. Peaches 38% very poor, 8% poor, 26% fair, 28% good. Apple 47% good, 53% excellent. Flue tobacco 17% poor, 57% fair, 26% good. Fire tobacco 54% fair, 46% good. Potato 10% fair, 90% good. Corn 94% planted, 94% 1993, 92% avg.; 2% poor, 49% fair and 49% good. Peanuts planted 100%, 97% 1993, 98% avg. Soybeans planted 36%, 29% 1993, 35% avg. Flue tobacco transplanted 96%, 86% 1993, 96% avg. Fire tobacco transplanted 83%, 65% 1993, 78% avg. Burley tobacco transplanted 34%, 25% 1993, 43% avg. Sun tobacco transplanted 70%, 80% 1993, 91% avg. Oats 2% harvest, 0% 1993, 5% avg. Barley 1% harvest, 1% 1993, 5% avg. Cultivating tobacco, cotton, sidedressing corn, cutting hay, irrigating potatoes, vegetables, picking strawberries, harvesting hay, spraying fruit trees.

WASHINGTON: Temperatures normal to 4° above normal west; 5° below normal to 6° above normal east. Precipitation none to 0.08 in. west; none to 0.48 in. east.

Days suitable for fieldwork 6.3. Soil moisture 41% short, 57% adequate, 2% surplus. Hay, other roughage supplies 1% short, 95% adequate, 4% surplus. Range, pasture 7% very poor, 27% poor, 25% fair, 40% good, 1% excellent. Winter wheat dryland 12% poor, 45% fair, 42% good, 1% excellent; irrigated 4% fair, 78% good, 18% excellent. Spring wheat dryland 12% poor, 42% fair, 46% good; irrigated 4% fair, 83% good, 13% excellent. Barley dryland 22% poor, 38% fair, 40% good; irrigated 100% good. Winter wheat 70% headed, 29% 1993, 40% avg. Spring wheat 100% emerged, 96% 1993, 99% avg.; 26% headed, 8% 1993, 17% avg. Barley 100% emerged, 91% 1993, 98% avg.; 35% headed, 2% 1993, 20% avg. Potatoes 79% emerged, 80% 1993, 84% avg. Dry beans 60% planted, 30% 1993, 62% avg. Corn 91% planted, 97% 1993, 91% avg. Alfalfa, first cutting, 46% completed, 27% 1993, 39% avg.

WEST VIRGINIA: Temperature 61°. Extremes 31°; 94°. Precipitation 0.81 in.

Days suitable for fieldwork 4.3. Soil moisture 8% short, 88% adequate, 4% surplus. Soil prepared 88%, 85% 1993. Barley good; headed 97%, 100% 1993; ripe 2%, 35% 1993. Wheat 95% good, 5% excellent; jointed 94%; headed 86%, 94% 1993. Hay 3% poor, 53% fair, 44% good; first cutting 20%. Apples 50% poor, 50% fair. Peaches 100% very poor. Corn planted 77%, 60% 1993, 74% avg.; emerged 51%, 53% 1993, 58% avg. Oats good; planted 97%, 100% 1993, 92% avg.; emerged 72%, 91% 1993, 80% avg. Tobacco 39% fair, 61% good; set 20%. Gardens 8% poor, 58% fair, 34% good; planted 67%, 72% 1993, 65% avg.; emerged 55%, 50% 1993, 48% avg. Soybeans planted 43%, 26% 1993; emerged 24%, 12% 1993. Pastures 15% fair, 85% good; 92% of normal. Cattle 7% fair, 93% good. Sheep 34% fair, 66% good. Farm activities: Cutting hay, gardening, plowing, planting, equipment maintenance.

WISCONSIN: Temperature 61°, 1° above normal. Extremes 22°; 93°. Precipitation 0.30 to 1.30 in. Frost over much of State on 27th.

Days suitable for fieldwork 5.2. Soil moisture 44% short, 56% adequate. Pasture condition: 77%, 86% 1993, 81% avg. General condition of crops: 8% fair, 84% good, 8% excellent. Corn planted 97%, 75% 1993, 85% avg. Average height of corn 3 in., 1 in. 1993, 2 in. avg. Corn condition: 9% fair, 81% good, 10% excellent. Oats 1% poor, 8% fair, 74% good, 17% excellent. Soybeans planted 87%, 43% 1993, 58% avg. Winter wheat 3% fair, 67% good, 30% excellent. First cutting hay harvested: 6%, 2% 1993, 3% avg. Farmers in the northern areas were just about finished planting. Damage, if any, from 27th frost unknown. Some herbicides were not working well in the dry soils. Hay harvest has begun, reporters indicated quality was very good, yields were down. Strawberries, early planted peas in the south blossomed last week. Fruit trees in the far north started to bloom.

WYOMING: Temperatures mostly above normal, 1° below normal at Diversion Dam to 7° above normal in Lander. Precipitation was below normal across the State. Chugwater, Midwest, Sheridan received the most precipitation with 0.31 in., 0.30 in., 0.26 in., respectively.

Days suitable for fieldwork 6.9. Topsoil 53% short, 43% adequate, 4% surplus. Spring wheat 4% fair, 96% good with 100% planted, 98% 1993, 99% avg.; 96% emerged, 84% 1993, 85% avg.; 5% jointed. Oats 1% fair, 99% good with 99% planted, 96% 1993, 97% avg.; 85% emerged, 80% 1993, 80% avg.; 14% jointed. Barley 98% good, 2% excellent with 99% planted, 96% 1993, 98% avg.; 94% emerged, 79% 1993, 86% avg.; 27% jointed. Sugarbeets 25% fair, 75% good with 98% emerged, 88% 1993, 86% avg. Corn 97% planted, 88% 1993, 85% avg.; 79% emerged, 59% 1993, 61% avg. Winter wheat 35% fair, 65% good with 4% emerged/not jointed, 52% jointed/not in boot, 44% boot. Dry beans 50% planted, 25% 1993, 37% avg.; 4% emerged, 1% 1993, 6% avg. Alfalfa 37% fair, 61% good, 2% excellent. Range flock ewes lambing 77%, 88% 1993. Percent cattle, calves to summer ranges 62%, 62% 1993. Percent sheep, lambs to summer ranges 51%, 53% 1993.

International Weather and Crop Summary

HIGHLIGHTS

May 22 - 28, 1994

FSU-WESTERN: Widespread rain benefited winter wheat and summer crop development in most of Ukraine.

FSU-NEW LANDS: Favorable weather allowed spring grain planting to progress rapidly.

EUROPE: Wet weather continued in the north, while warm, dry weather diminished soil moisture in corn areas of the southeast.

SOUTH ASIA: Rain benefited newly planted rice in the east and south.

SOUTHEAST ASIA: Showers throughout Indochina were generally beneficial for rice despite their causing additional local flooding.

EASTERN ASIA: Late-week warm weather stressed filling winter wheat in the North China Plain.

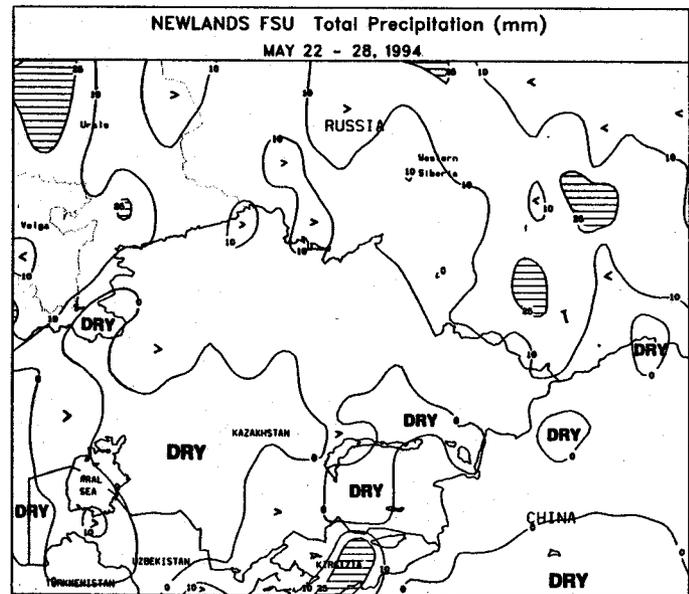
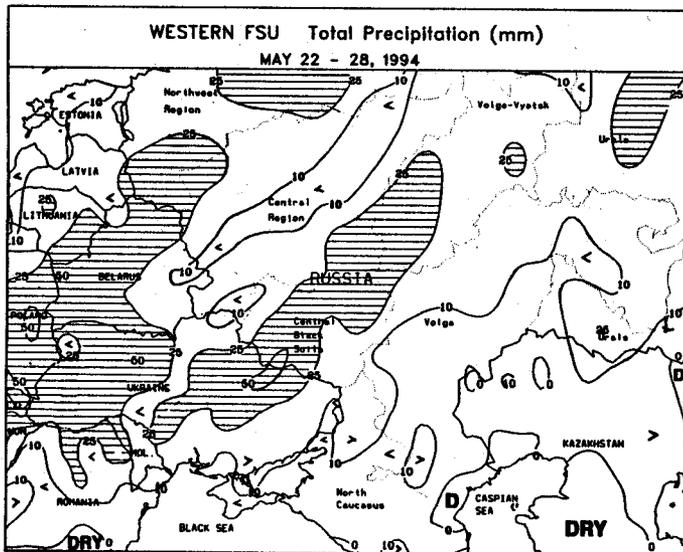
AUSTRALIA: Timely rains boosted topsoil moisture for wheat planting across southern and western wheat areas.

SOUTH AMERICA: Heavy rains delayed wheat planting across southern Brazil.

MEXICO: The rainy season has not yet arrived across the central and western corn belt.

CANADA: Spring grain and oilseed planting progressed across the Prairies.

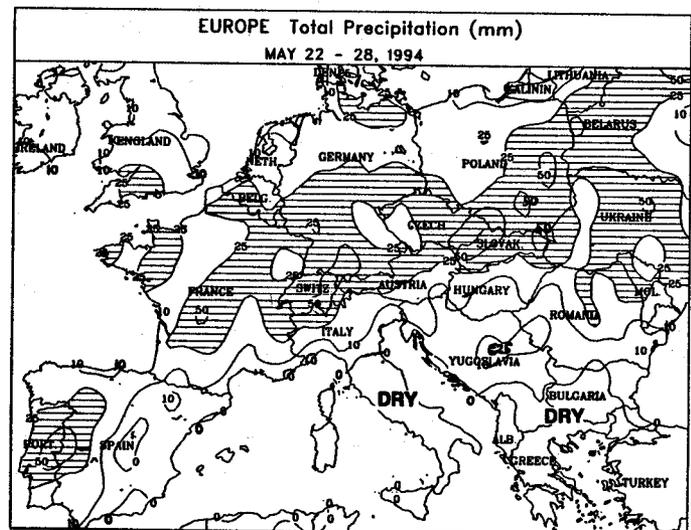
CUBA: Widespread moderate to heavy showers (30-100 mm) continued to delay sugarcane harvesting.

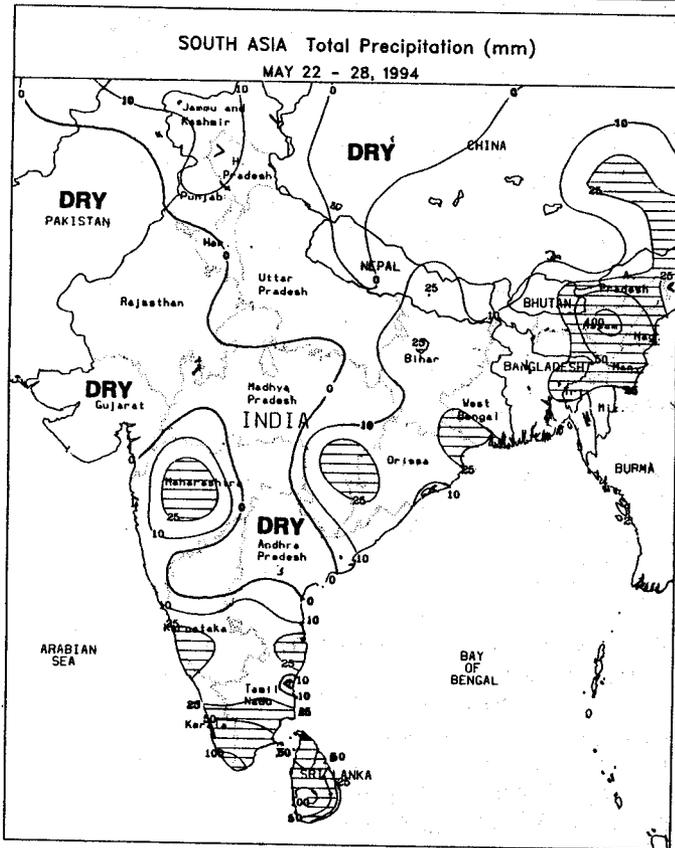


FSU-WESTERN: Light to moderate rain (10-40 mm, with local amounts in excess of 50 mm) covered Ukraine, benefiting winter grains in or nearing reproduction, as well as newly emerging spring barley, corn, sunflowers, and sugar beets. Significant rain (10-30 mm) late in the week over southwestern Ukraine followed chronic dryness, stabilizing conditions for winter grains that progressed through the heading stage. While the rain increased surface moisture, subsoil moisture remained critically low. In Russia, reports as of May 23 indicated spring grain sowing progressed ahead of last year, while corn and sugar beet planting continued to lag behind last year's pace. Winter wheat progressed rapidly through heading in North Caucasus, Russia, where weekly average temperatures ranged from 2 to 3 degrees Celsius (C) above normal. In contrast, unseasonably cold weather (weekly average temperatures ranging from 2 to 4 degrees C below normal) over the remainder of Russia slowed crop development. Light precipitation (4-11 mm) over North Caucasus, Volga Valley, and parts of the Central Region caused only brief planting delays. Wet weather (25-49 mm) over the Central Black Soils Region interrupted planting.

FSU-NEW LANDS: Favorable weather allowed spring grain planting to progress rapidly in Russia and Kazakhstan. In Russia, warm, dry weather early in the week was followed by cooler weather and increasing precipitation. Rainfall varied, ranging from 3 to 23 mm, with local amounts in excess of 25 mm. In Kazakhstan, little, if any, precipitation was accompanied by near-normal temperatures favoring rapid fieldwork. The optimum dates for sowing spring grains in Kazakhstan are May 15-25. In cotton growing areas of Central Asia, light showers (6-19 mm) caused only brief delays in planting. Most of the crop is usually planted by the end of May.

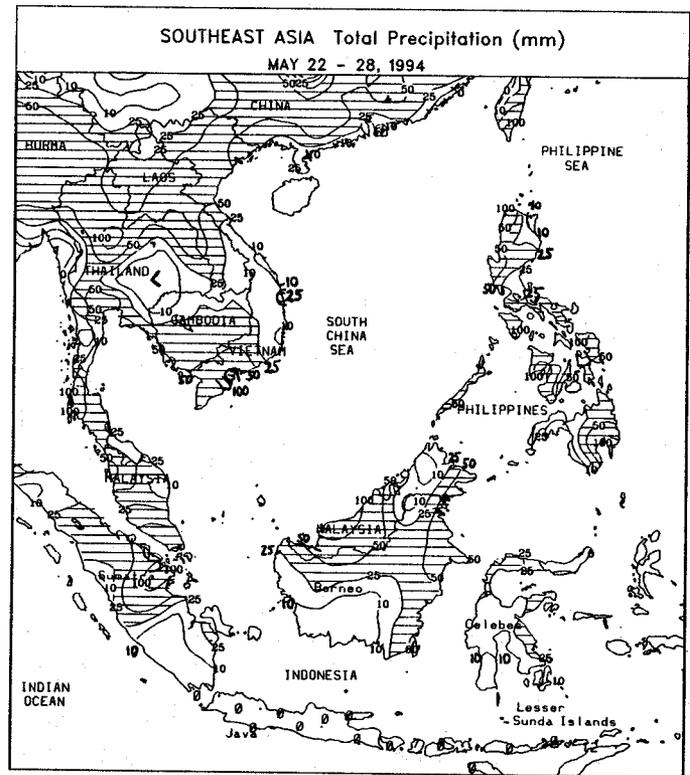
EUROPE: Showery weather continued over western and northern Europe, maintaining adequate to abundant moisture for crop development. Dry weather dominated the Mediterranean region, hastening maturity of winter grains, but leaving the Balkans unfavorably warm and dry for summer crop growth. The dryness extended from eastern Spain to Bulgaria where weekly average temperatures ranged from 4 to 6 degrees Celsius (C) above normal, diminishing topsoil moisture. Variable showers (4-34 mm) brought some needed moisture to Romania, but southeastern corn areas missed any significant rainfall. In contrast, widespread rain (20-65 mm) from western portions of the Iberian Peninsula and France to Poland and the Czech and Slovak Republics aided filling winter crops and spring grains in vegetative growth. In Scandinavia, mostly light rain (4-14 mm) covered crop areas of Sweden, while 9-23 mm of rain moistened topsoils for crop growth in Finland.



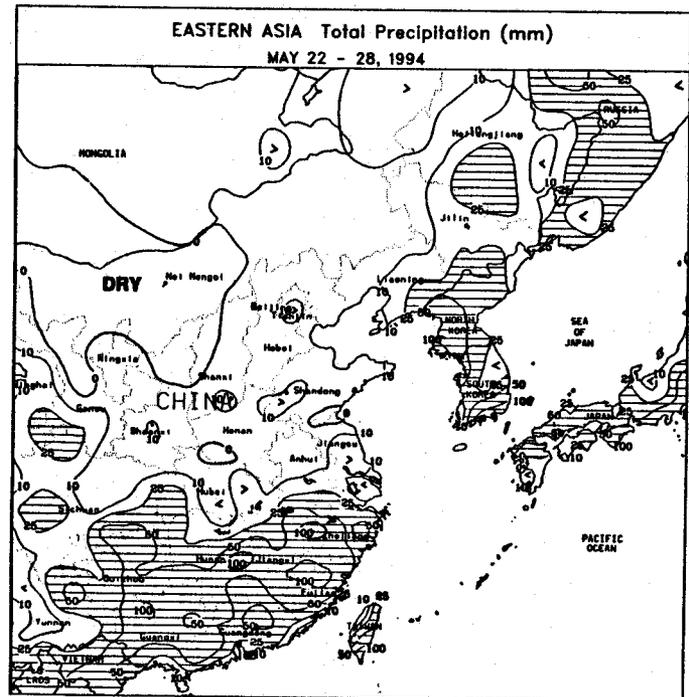


SOUTH ASIA: Light to moderate showers (10-25 mm or more) were scattered throughout rice areas of eastern India and Bangladesh, benefiting newly planted rice. Elsewhere, beneficial rain (10-65 mm) was confined to India's southern tip, improving planting prospects of main-season grains, especially coastal rice. However, more rain will be needed throughout the southern interior before planting can become widespread. Monsoon rains typically reach southern India in early-June and northernmost crop areas of Pakistan by mid-July. Pre-monsoon heat (highs in the mid- to upper-40's C) persisted in central and northern India, stressing livestock.

EASTERN ASIA: Scattered rain (3-25 mm) fell across the North China Plain, increasing topsoil moisture for summer crops, but more rain is needed due to a couple of weeks of warm, dry weather. Temperatures averaged 1-3 degrees C above normal, mainly due to a late-week hot spell (maximum temperatures ranged from 35 to 39 degrees C on May 28 across Henan, Hebei, and Shandong). The warm weather stressed filling winter wheat. In Manchuria, rains (10-30 mm) increased topsoil moisture for summer crop planting and germination. However, lighter rains (7-15 mm) prevailed across western Heilongjiang, where rainfall has been below normal. Widespread showers (25-80 mm) covered southern China, maintaining adequate irrigation supplies for rice. Moderate to heavy rain (20-60 mm, with isolated amounts greater than 100 mm) fell over North and South Korea and Japan, as temperatures averaged 2-4 degrees C above normal.



SOUTHEAST ASIA: Scattered showers (25-50 mm or more, with local amounts exceeding 100 mm) continued throughout most Indochinese rice areas. Many locations along the Mekong and upper Chao Phraya River likely experienced additional flooding, but rainfall was somewhat lighter (18-66 mm) in northern Vietnam's Red River Valley. In contrast, light rain (2-20 mm) covered Thailand's Khorat Plateau, with drier-than-normal conditions extending into the southern sections of the corn belt. Rainfall ranged from 25 to 50 mm or more throughout Peninsular Thailand and Malaysia. In the Philippines, moderate to heavy rain (25-40 mm or more) benefited main-season grains and sugarcane throughout the islands.



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Crop Condition

for the Week Ending May 29, 1994

WINTER WHEAT

STATE	VP	P	F	G	EX
AR	0	0	17	74	9
CA	0	0	15	75	10
CO	1	8	25	50	16
GA	0	1	14	65	20
ID	0	1	18	68	13
IL	0	7	32	58	3
IN	0	0	24	67	9
KS	0	1	52	44	3
MI	0	5	20	55	20
MO	1	7	47	44	1
MT	4	5	20	46	25
NE	0	6	46	45	3
NC	0	1	29	66	4
OH	0	3	21	58	18
OK	2	15	59	24	0
OR	1	8	27	48	16
SD	0	6	25	62	7
TX	4	25	59	10	2
WA	0	11	41	45	3
19 STATE	1	8	44	41	6
PREV WEEK	1	8	42	44	5
PREV YEAR	0	3	24	57	16

CORN

STATE	VP	P	F	G	EX
CO	0	1	21	57	21
GA	2	6	57	35	0
IL	0	0	21	73	6
IN	0	2	37	61	0
IA	0	1	11	74	14
KS	0	1	21	66	12
KY	0	0	25	73	2
MI	2	3	25	60	10
MN	0	0	16	70	14
MO	0	3	56	40	1
NE	0	0	15	78	7
NC	0	2	40	57	1
OH	1	4	27	58	10
PA	0	20	30	50	0
SD	0	0	10	80	10
TX	0	0	15	67	18
WI	0	0	9	81	10
17 STATE	0	1	20	70	9
PREV WEEK	N/A	N/A	N/A	N/A	N/A
PREV YEAR	N/A	N/A	N/A	N/A	N/A

COTTON

STATE	VP	P	F	G	EX
AL	0	11	60	29	0
AZ	0	0	14	71	15
AR	0	13	58	29	0
CA	0	0	25	75	0
GA	0	5	42	53	0
LA	0	2	58	40	0
MS	0	7	37	50	6
MO	0	7	36	57	0
NM	0	0	56	44	0
NC	0	17	54	29	0
OK	0	0	5	95	0
SC	0	36	57	7	0
TN	0	11	34	55	0
TX	1	2	25	62	10
14 STATE	0	5	34	56	5
PREV WEEK	1	5	26	62	6
PREV YEAR	0	10	45	42	3

RICE

STATE	VP	P	F	G	EX
AR	0	0	16	84	0
CA	0	0	15	80	5
LA	0	3	24	73	0
MS	0	0	24	53	23
TX	0	0	3	67	30
5 STATE	0	1	17	76	6
PREV WEEK	0	0	24	67	9
PREV YEAR	0	2	57	40	1

SPRING WHEAT

STATE	VP	P	F	G	EX
ID	0	2	19	71	8
MN	0	0	15	77	8
MT	0	2	17	53	28
ND	0	0	13	73	14
SD	0	2	11	75	12
5 STATE	0	1	14	70	15
PREV WEEK	0	1	16	68	15
PREV YEAR	0	1	21	67	11

VP - Very Poor P - Poor F - Fair
G - Good EX - Excellent

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