

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

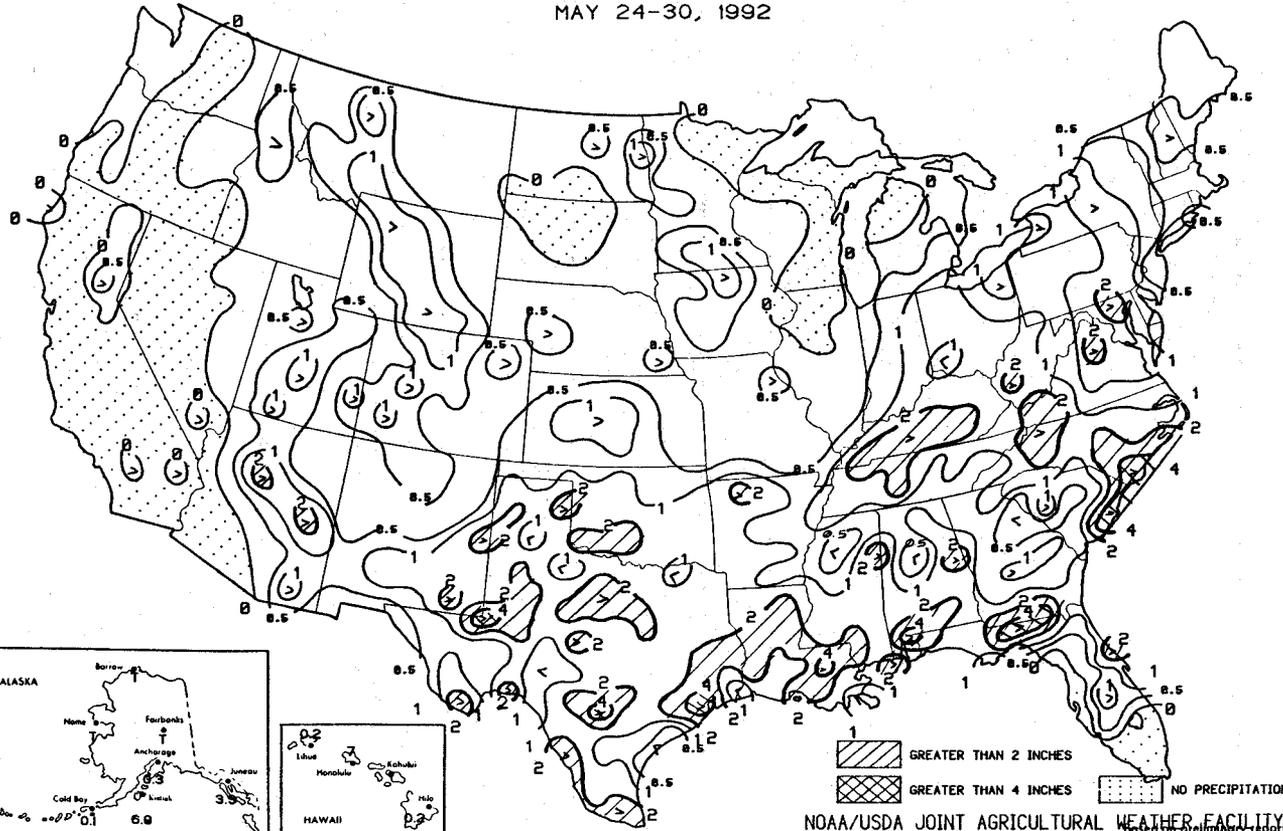
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Washington, D.C.

June 2, 1992

TOTAL PRECIPITATION, INCHES

MAY 24-30, 1992



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports.

HIGHLIGHTS

May 24 - 30, 1992

Record cold blanketed the **Central and Great Lakes States**, threatening flowering crops. Heavy rains continued in the **southern Plains** for a third consecutive week, but rain was welcomed in the **west-central Plains** and the **Southeast**. Unfavorably dry weather lingered in parts of the **Midwest** and the **Northwest**. Early in the week, a cold front pressed through the **Northeast**, leaving chilly air in its wake. The southern tail of the front stalled across the **southern Plains**, providing a ripe environment for heavy rainfall and flooding. The 2-day rainfall totaled 3.81 inches in **Midland, TX**, which received a May-record 7.63 inches. In the **Great Lakes region**, Monday morning cold nipped fruit tree bloom. Daily records in **Michigan** included 27°F in **Alpena**, 30°F in **Flint**, and 31°F in **Grand Rapids**. **Chicago, IL**, reached 32°F, setting a record for the latest freeze (previously (Continued to p. 12)

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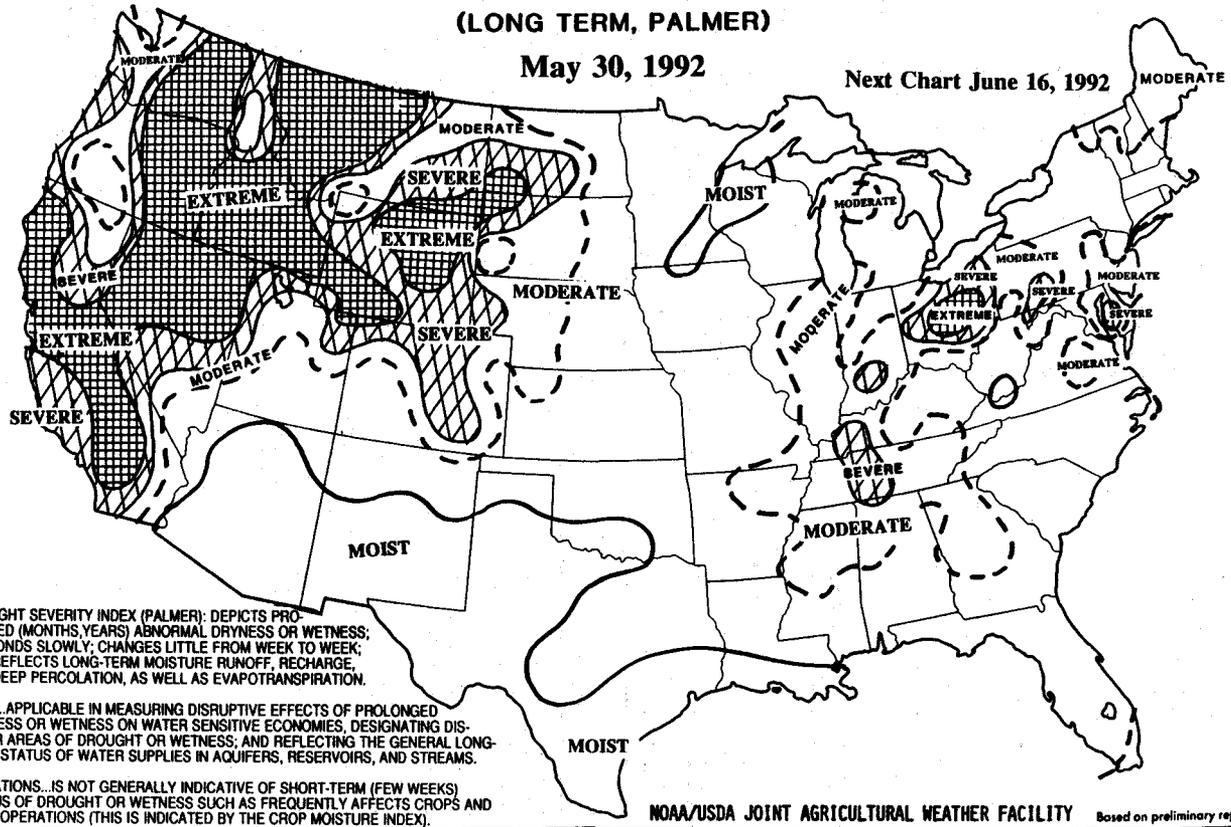
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DROUGHT SEVERITY

(LONG TERM, PALMER)

May 30, 1992

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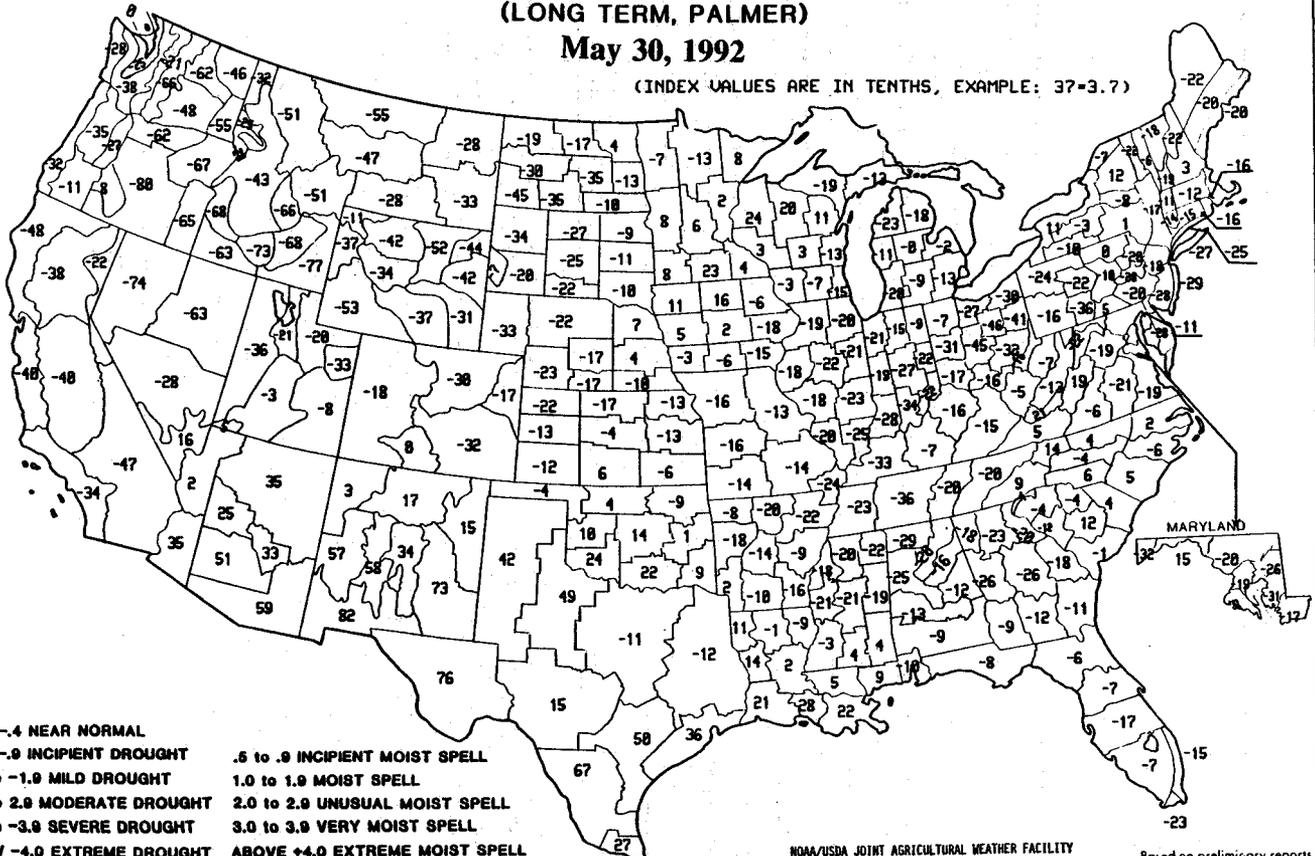


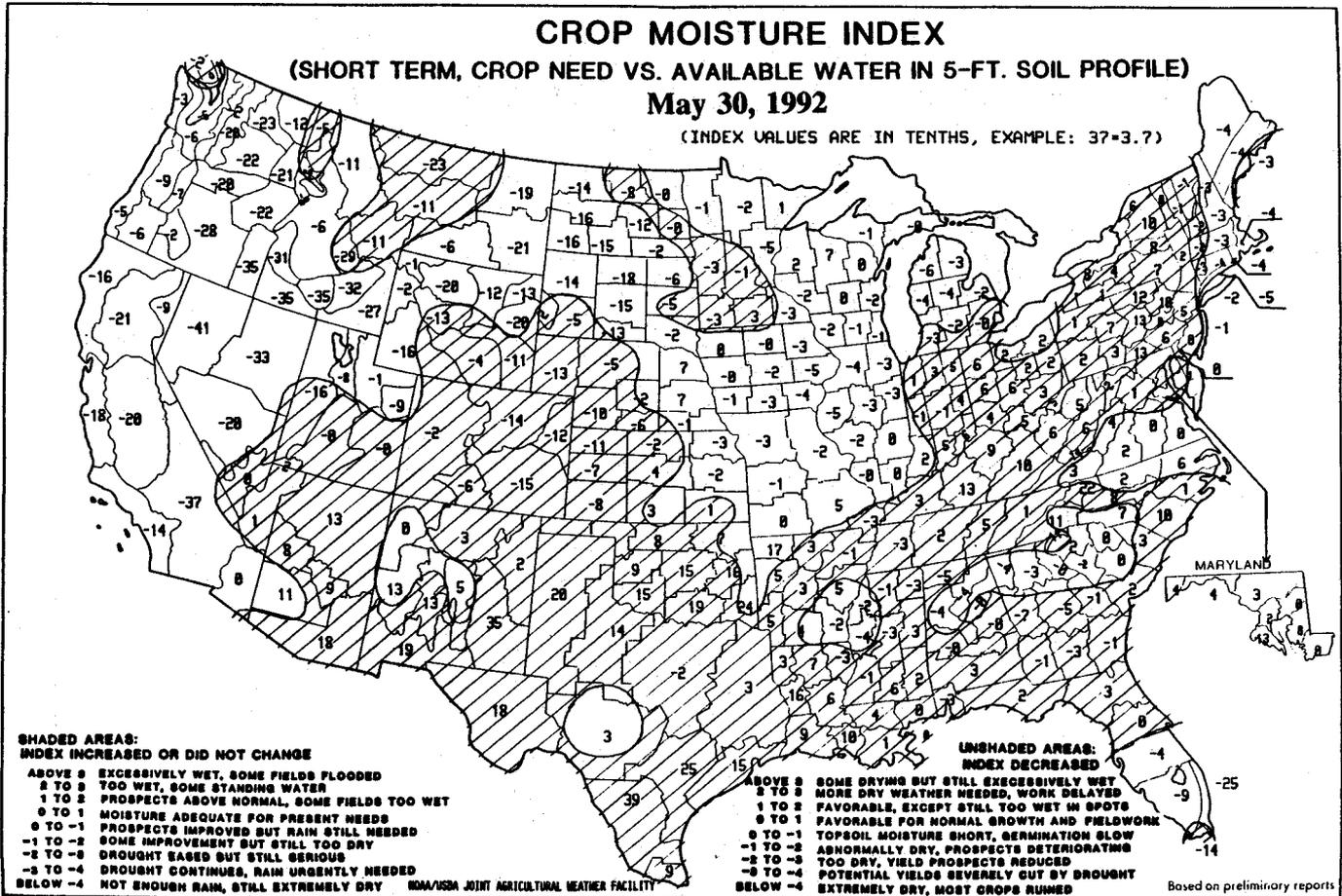
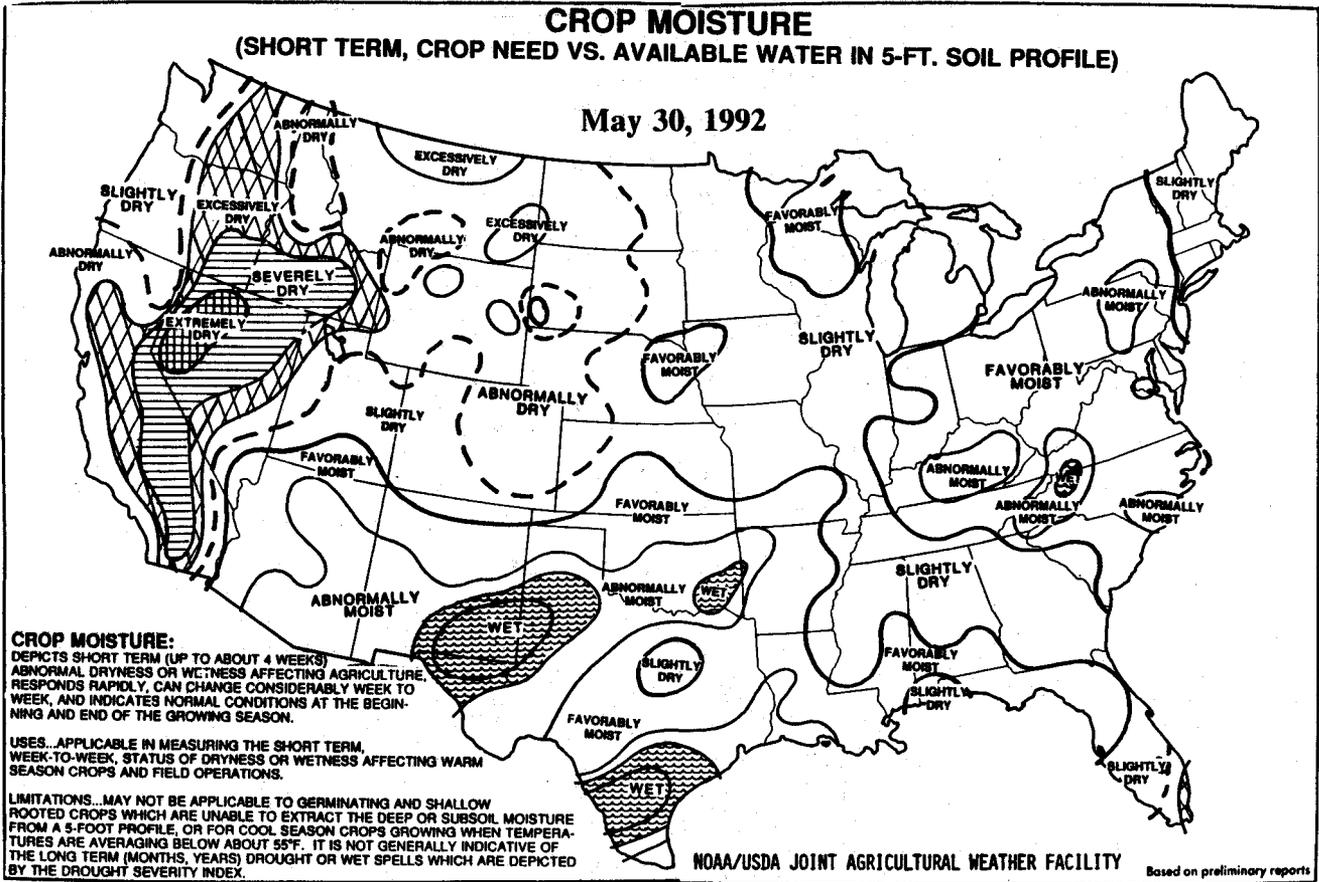
DROUGHT SEVERITY INDEX BY DIVISION

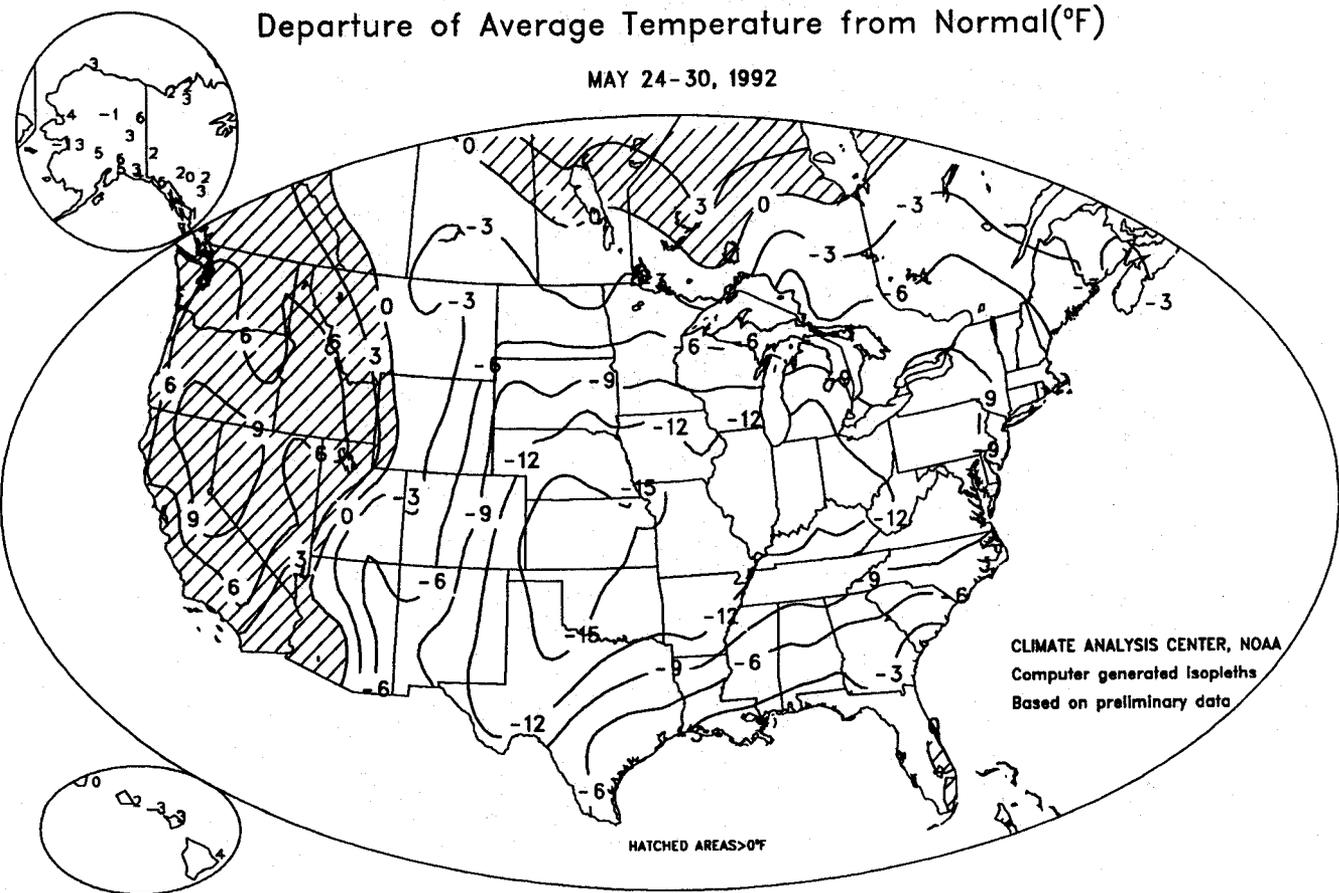
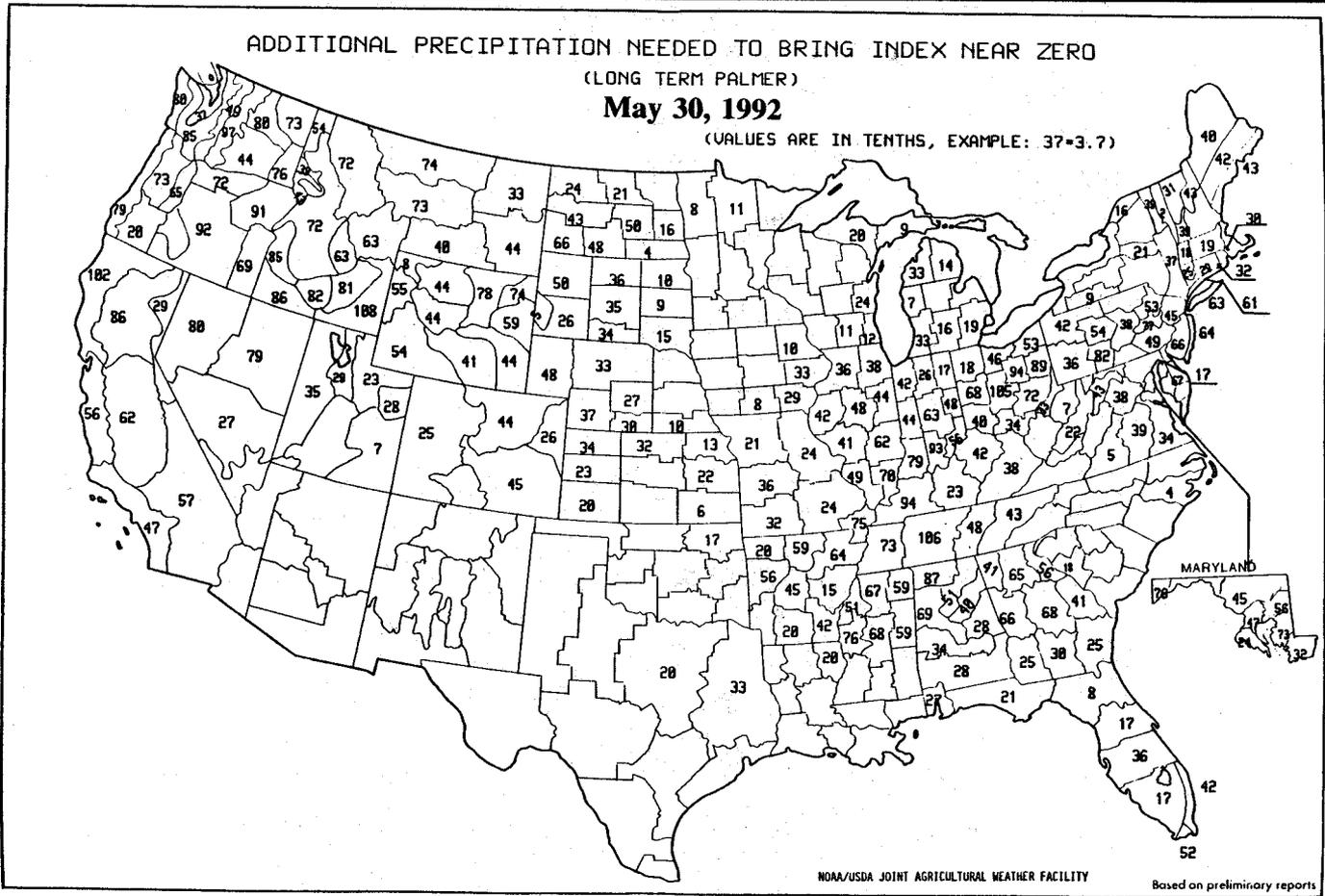
(LONG TERM, PALMER)

May 30, 1992

(INDEX VALUES ARE IN TENTHS, EXAMPLE: 37=3.7)

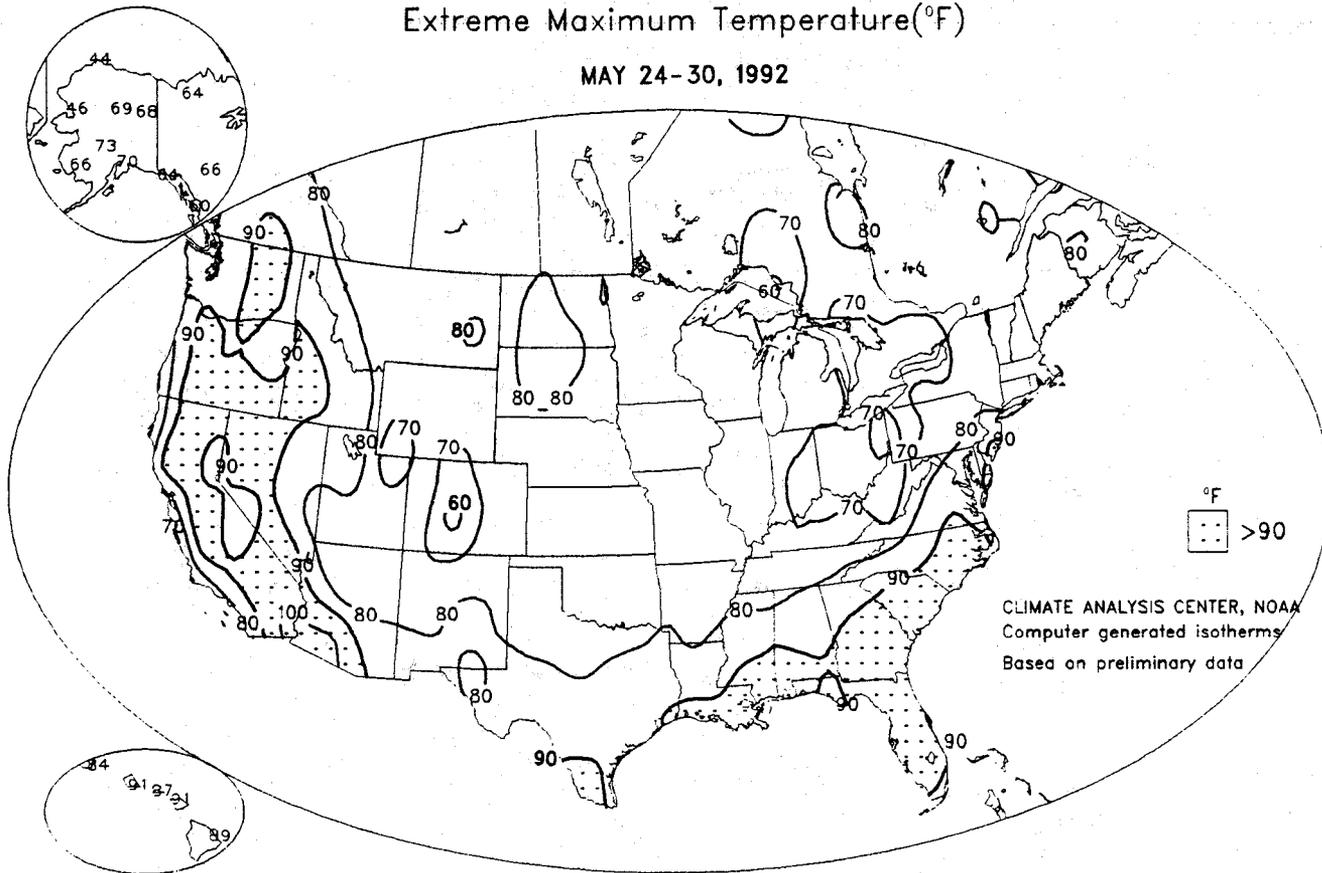






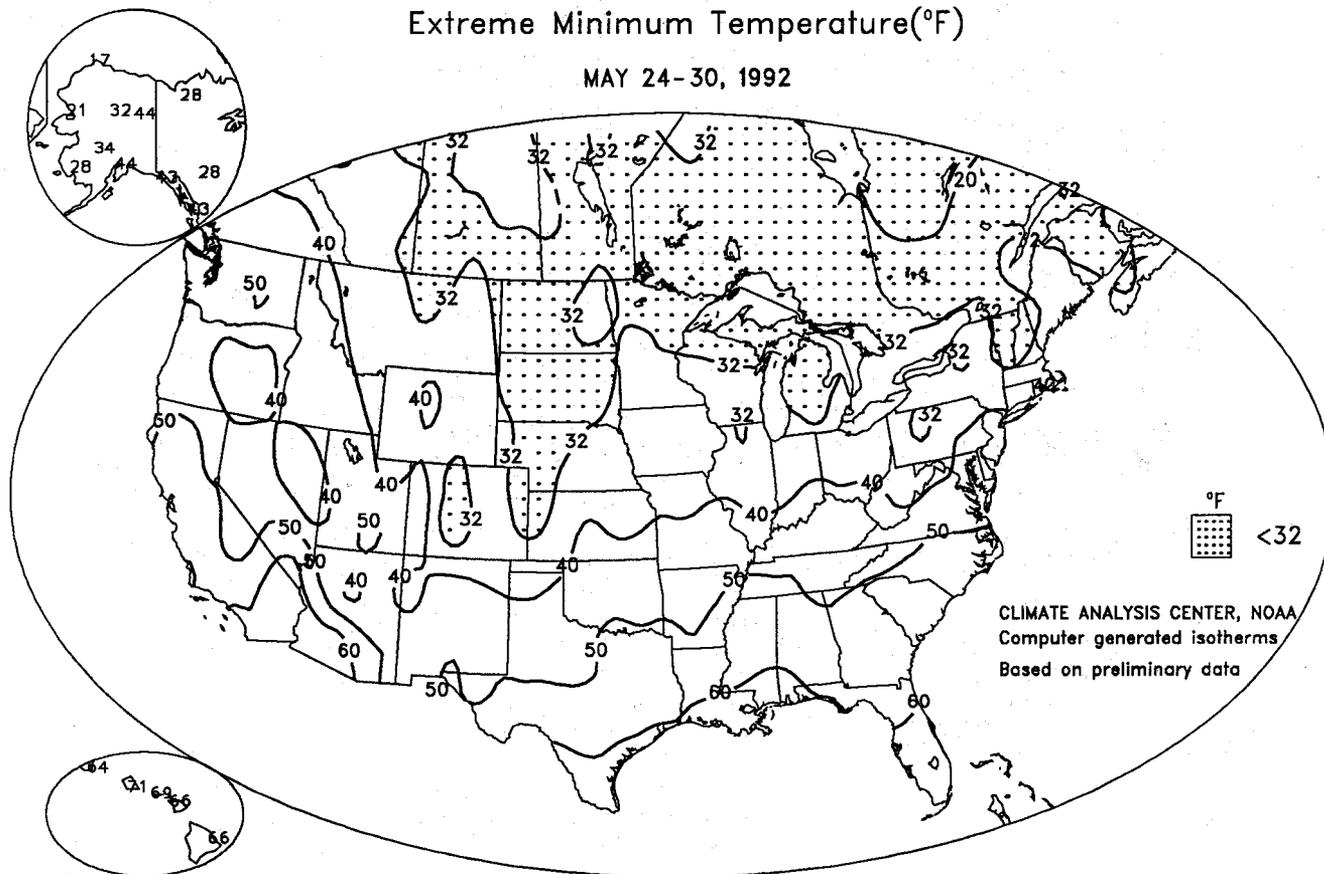
Extreme Maximum Temperature(°F)

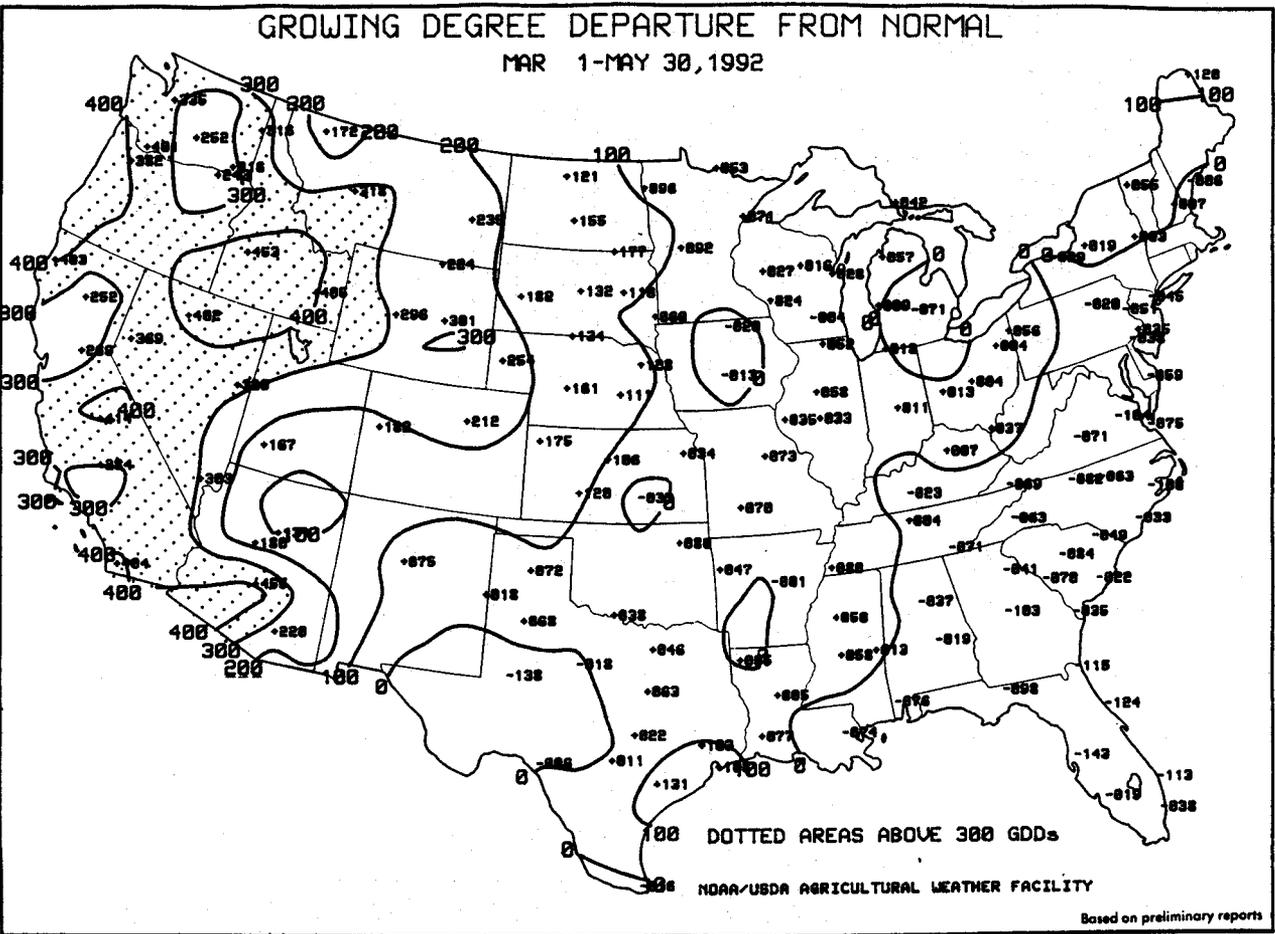
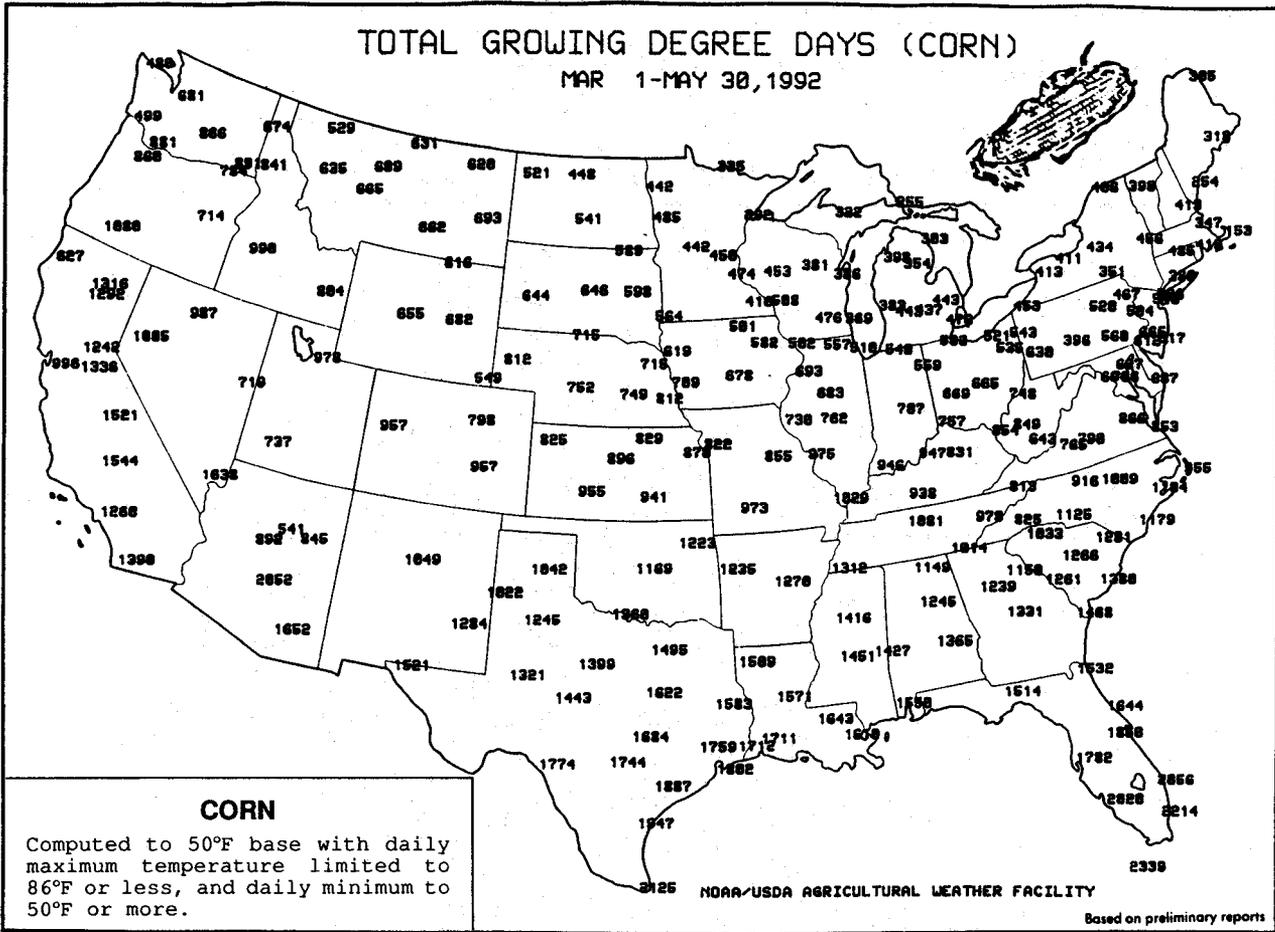
MAY 24-30, 1992



Extreme Minimum Temperature(°F)

MAY 24-30, 1992





National Weather Data for Selected Cities

Weather Data for the Week Ending May 30, 1992

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS							
	AVERAGE	MAXIMUM	AVERAGE	EXTREME	EXTREME	AVERAGE	DEPARTURE	WEEKLY	DEPARTURE	GREATEST IN	TOTAL, IN.,	PCT. NORMAL	TOTAL, IN.,	PCT. NORMAL	AVERAGE	MAXIMUM	AVERAGE	MINIMUM	TEMP. °F		PRECIP.	
																			90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	77	57	86	51	67	.6	.4	-.5	.4	7.3	46	15.0	58	94	52	0	0	0	0	3	0	
MOBILE	84	65	91	64	75	1.6	1.6	-.4	.5	7.1	42	27.0	101	99	56	1	0	0	0	6	1	
MONTGOMERY	82	59	90	50	70	1.5	1.1	-.3	.9	7.8	55	23.8	104	97	52	1	0	0	0	3	1	
AK ANCHORAGE	64	48	70	44	56	.6	.3	.0	.0	1.0	54	3.2	92	79	45	0	0	0	0	3	0	
BARROW	35	24	44	17	29	.3	.0	.0	.0	.3	72	.5	58	93	75	0	0	7	1	1	0	
FAIRBANKS	73	41	76	37	57	.3	.0	.0	.0	1.8	148	3.3	150	67	20	0	0	0	1	1	0	
JUNEAU	55	46	60	42	51	.2	3.5	2.7	1.9	18.9	199	34.9	205	98	73	0	0	0	7	2	4	
KODIAK	49	45	54	45	47	1.1	6.9	5.8	2.5	15.2	120	26.4	112	99	87	0	0	0	7	4	2	
NOME	39	27	44	24	33	.9	.0	.0	.0	1.4	86	2.3	78	97	75	0	7	0	0	0	0	
AZ PHOENIX	94	72	96	64	83	2.2	1.1	1.1	1.1	3.0	350	6.5	266	61	20	0	0	0	2	2	0	
PRESCOTT	74	48	78	41	61	1.1	.6	1.5	1.3	3.9	229	7.5	215	91	36	0	0	0	5	0	0	
TUCSON	88	61	92	55	74	.3	.1	1.1	.3	3.9	313	6.5	254	76	24	3	0	0	2	0	0	
YUMA	98	72	100	69	85	.3	.0	.0	.0	1.7	621	3.0	329	—	—	7	0	0	0	0	0	
AR FORT SMITH	67	53	76	48	60	1.2	1.2	1.1	1.0	11.7	92	14.6	85	97	63	0	0	0	4	0	1	
LITTLE ROCK	67	55	76	49	61	1.3	.8	1.3	.5	13.0	86	17.2	74	93	67	0	0	0	3	0	0	
CA BAKERSFIELD	94	65	98	64	80	.6	.0	.0	.0	1.9	112	5.6	149	56	23	7	0	0	0	0	0	
BUREKA	63	53	69	51	58	.5	.1	1.2	.0	6.0	64	13.8	64	93	71	0	0	0	2	0	0	
FRESNO	93	64	98	60	79	.8	.0	.0	.0	2.3	78	9.0	130	68	25	0	0	0	0	0	0	
LOS ANGELES	70	62	71	61	66	2.2	.0	.0	.0	5.3	194	11.6	140	88	68	0	0	0	0	0	0	
REDDING	96	65	101	61	81	.9	.0	1.2	.0	5.4	60	18.5	78	60	18	0	0	0	0	0	0	
SACRAMENTO	90	56	94	55	73	.6	.0	.0	.0	2.9	82	9.8	93	87	30	3	0	0	0	0	0	
SAN DIEGO	72	64	75	64	68	4.4	.0	.0	.0	4.8	188	9.9	163	78	63	0	0	0	0	0	0	
SAN FRANCISCO	73	55	76	53	64	5.0	.0	.0	.0	4.4	101	12.9	105	91	52	0	0	0	0	0	0	
CO DENVER	65	44	73	40	54	1.7	.4	1.1	2.2	4.7	87	6.0	90	93	52	0	0	0	5	0	0	
GRAND JUNCTION	74	53	79	50	64	2.2	.3	1.2	2.2	3.4	161	4.0	121	89	34	0	0	0	1	0	0	
PUEBLO	66	45	76	39	55	1.0	.0	1.3	2.0	2.0	66	2.3	63	83	40	0	0	0	1	0	0	
CT BRIDGEPORT	67	47	82	42	57	1.5	.3	1.4	2.2	7.0	64	11.1	64	87	46	0	0	0	3	0	0	
HARTFORD	69	40	76	36	55	1.9	.2	1.5	1.1	8.7	77	13.7	75	96	37	0	0	0	3	0	0	
DC WASHINGTON	68	51	86	47	60	1.0	1.4	.6	.9	8.8	91	13.8	91	89	52	0	0	0	3	1	0	
FL APALACHICOLA	87	68	91	64	78	1.1	.7	1.1	1.3	3.8	37	19.0	109	97	43	1	0	0	4	0	2	
DAYTONA BEACH	89	64	93	59	76	0.0	2.2	1.2	1.1	8.2	97	12.4	88	97	43	4	0	0	4	0	2	
JACKSONVILLE	88	65	92	57	77	0.0	1.0	1.1	.8	15.4	147	23.8	139	96	43	3	0	0	3	1	0	
KEY WEST	86	74	87	68	80	2.0	1.0	1.9	.0	5.0	84	6.5	67	82	53	0	0	0	0	0	0	
MIAMI	89	72	91	68	81	1.0	.0	1.8	.0	5.7	49	8.9	57	83	40	3	0	0	0	0	0	
ORLANDO	90	67	91	63	79	1.1	.5	1.6	4.4	14.0	153	17.8	122	97	40	6	0	0	4	0	0	
TALLAHASSEE	88	64	94	53	76	1.1	4.9	3.6	2.1	9.5	65	22.4	92	100	48	3	0	0	6	3	0	
TAMPA	88	68	90	62	78	1.1	.0	1.9	.0	3.2	38	8.3	61	95	49	1	0	0	0	0	0	
WEST PALM BEACH	88	69	91	66	79	1.1	.0	1.6	.0	6.8	58	11.8	69	89	45	2	0	0	0	0	0	
GA ATLANTA	75	59	88	55	67	1.5	.6	1.3	.3	6.6	46	14.1	60	90	52	0	0	0	3	0	0	
AUGUSTA	82	58	94	48	70	1.4	.4	1.5	.2	7.6	65	16.7	84	98	50	2	0	0	5	0	0	
MACON	82	61	93	54	71	1.4	.8	1.1	.8	6.7	55	17.2	81	93	51	1	0	0	3	1	0	
SAVANNAH	86	64	94	57	75	1.1	1.4	1.3	.8	8.1	70	17.0	95	90	45	2	0	0	4	1	0	
HI HILO	87	70	89	67	79	5.2	.2	1.5	2.2	13.0	36	15.6	26	92	52	0	0	0	4	0	0	
HONOLULU	89	73	92	71	81	3.0	.0	1.2	.0	1.7	29	3.5	28	82	52	2	0	0	0	0	0	
KAHULUI	89	70	92	67	79	3.0	.1	1.0	.1	2.5	60	5.9	53	98	59	3	0	0	1	0	0	
LIHUE	82	69	84	65	76	1.1	.0	1.6	.0	7.0	66	11.4	55	92	68	0	0	0	1	0	0	
ID BOISE	84	52	92	47	68	7.0	.0	1.3	.0	.8	25	2.1	35	61	17	2	0	0	0	0	0	
LEWISTON	82	54	93	50	68	7.0	.3	1.1	.3	2.6	73	4.0	68	65	24	1	0	0	1	0	0	
POCATELLO	79	46	86	40	62	5.0	.0	1.3	.0	1.4	44	2.3	45	74	22	0	0	0	1	0	0	
IL CHICAGO	60	36	72	32	48	15.0	.0	1.8	.0	5.2	54	7.4	60	91	37	0	0	1	0	0	0	
MOLINE	66	38	78	34	52	13.0	.0	1.9	.0	4.3	39	7.3	53	90	31	0	0	0	0	0	0	
PEORIA	64	40	75	34	52	14.0	.0	1.9	.0	5.0	48	7.6	56	85	38	0	0	0	0	0	0	
QUINCY	64	41	75	37	52	15.0	.2	1.8	.1	8.2	73	10.3	72	74	30	0	0	0	2	0	0	
ROCKFORD	64	38	76	30	51	12.0	.0	1.9	.0	6.1	59	8.4	65	83	33	0	0	1	0	0	0	
SPRINGFIELD	67	41	77	34	54	13.0	.0	1.7	.0	5.8	55	8.4	61	87	35	0	0	0	2	0	0	
IN EVANSVILLE	65	49	72	44	57	12.0	.6	1.4	.6	9.1	71	11.5	60	96	54	0	0	0	2	1	0	
FORT WAYNE	61	43	70	38	52	12.0	1.5	.7	.7	9.8	99	12.9	92	86	48	0	0	0	3	2	0	
INDIANAPOLIS	61	45	69	39	53	13.0	.6	1.2	.4	8.3	77	10.9	68	93	53	0	0	0	3	0	0	
SOUTH BEND	60	39	73	34	50	14.0	.8	1.1	.6	6.3	64	9.7	68	92	46	0	0	0	3	1	0	
IA DES MOINES	64	42	77	38	53	13.0	.5	1.4	.5	7.6	82	10.7	94	91	39	0	0	0	2	1	0	
SIoux CITY	66	40	77	34	53	12.0	1.1	1.8	.1	8.2	111	9.5	106	83	38	0	0	0	2	0	0	
WATERLOO	66	40	79	35	53	11.0	1.1	1.9	.1	7.6	77	10.1	87	88	31	0	0	0	1	0	0	
KS CONCORDIA	63	42	73	37	53	15.0	.5	1.5	.5	7.3	90	8.9	93	94	47	0	0	0	2	0	0	
DODGE CITY	60	42	72	38	51	18.0	1.0	1.3	1.0	4.4	67	5.1	68	95	52	0	0	0	2	1	0	
GOODLAND	59	38	71	27	48	15.0	.5	1.3	.4	2.4	48	3.1	54	91	52	0	0	1	3	0	0	
TOPEKA	66	42	76	36	54	14.0	.0	1.0	.0	10.1	110	12.2	109	95	42	0	0	0	1	0	0	
WICHITA	64	45	72	42	54	15.0	.8	1.2	.5	8.3	101	9.4	96	92	51	0	0	0	2	1	0	
KY BOWLING GREEN	65	51	69	48	58	11.0	3.0	2.1	2.9	12.0	88	17.1	76	96	65	0	0	0	3	1	0	
LEXINGTON	63	47	67	39	55	12.0	1.7	.8	1.6	11.5	89	17.0	85	91	59	0	0	0	3	1	0	
LOUISVILLE	66	49	71	43	58	11.0	1.6	.7	1.5	12.0	94	15.7	81	89	53	0	0	0	2	1	0	
LA ALEXANDRIA	80	64	88	57	72	5.0	2.0	1.0	1.7	12.6	81	25.5	103	94	58	0	0	0	3	1	0	
BATON ROUGE	84	65	90	62	75	3.0	1.7	.8	1.1	8.9	60	26.1	106	95	54	1	0	0	4	1	0	
LAKE CHARLES	83	67	91	62	75	2.0	1.9	.7	1.6	13.8	110	28.7	140	99	62	1	0	0	3	1	0	
NEW ORLEANS	85	67	91	64	76	1.0	.6	1.5	.3	10.3	73	29.0	119	96	55	2	0	0	5	0	0	

Weather Data for the Week Ending May 30, 1992

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	MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																			.01 INCH OR MORE	.50 INCH OR MORE		
SHREVEPORT	75	59	84	53	67	-9	1.4	.4	.8	11.9	91	22.9	111	97	64	0	0	0	0	4	1	
ME CARIBOU	65	41	80	34	53	-2	1.1	-.6	.1	6.3	81	12.8	104	73	28	0	0	0	0	2	0	
PORTLAND	63	39	70	34	51	-5	.8	.1	.7	7.5	68	15.7	85	94	47	0	0	0	0	2	1	
MD BALTIMORE	67	47	86	42	57	-10	1.5	-.7	.8	9.0	87	12.8	78	93	51	0	0	0	0	4	1	
SALISBURY	69	49	91	42	59	-8	.6	-.2	.4	7.8	75	13.8	80	100	59	1	0	0	0	4	0	
MA BOSTON	63	46	74	41	55	-7	1.1	-.7	1.1	7.2	64	12.6	66	86	49	0	0	0	0	1	0	
CHATHAM	59	46	69	42	52	-4	.4	-.8	.4	7.6	66	11.2	55	85	69	0	0	0	0	1	0	
MI ALPENA	61	34	74	27	48	-8	.4	-.7	.7	5.2	73	8.6	84	90	32	0	2	0	0	0	0	
DETROIT	62	43	71	35	52	-10	.7	-.1	.6	9.0	107	12.3	103	85	43	0	0	0	0	2	1	
FLINT	62	39	74	30	50	-10	.5	-.1	.5	8.0	102	10.7	99	90	42	0	1	1	0	1	1	
GRAND RAPIDS	62	38	74	31	50	-12	.5	-.2	.5	8.9	100	11.5	92	93	39	0	0	1	1	2	0	
HOUGHTON LAKE	63	34	74	27	48	-10	.4	-.6	.5	5.4	76	8.0	81	78	26	0	3	0	0	0	0	
LANSING	61	36	72	29	49	-12	.3	-.3	.2	9.4	124	12.1	114	93	43	0	0	2	2	3	0	
MARQUETTE	60	34	71	27	47	-8	.0	-.9	.0	6.4	62	10.4	72	86	36	0	4	4	0	0	0	
MUSKEGON	62	36	76	31	49	-11	.1	-.7	.1	5.9	73	8.7	71	91	33	0	3	0	0	0	0	
SAULT ST. MARIE	63	34	77	29	49	-5	.7	-.7	.7	5.5	77	9.5	85	85	36	0	0	0	0	0	0	
MN ALEXANDRIA	65	43	78	34	54	-6	.7	-.1	.5	6.1	97	7.4	94	83	35	0	0	0	0	2	0	
DULUTH	63	37	78	28	50	-4	.4	-.8	.4	6.6	94	7.7	85	85	31	0	0	0	0	0	0	
INT'L FALLS	66	38	77	25	52	-4	.4	-.6	.4	4.1	80	-6.4	97	88	30	0	1	1	0	0	0	
MINNEAPOLIS	65	43	78	34	54	-9	.4	-.9	.4	4.7	68	5.9	69	84	35	0	0	0	0	1	0	
ROCHESTER	63	40	75	34	51	-10	.2	-.6	.2	7.4	96	8.9	97	86	36	0	0	0	0	1	0	
MS GREENWOOD	77	59	82	53	68	-7	1.1	-.9	.0	9.0	55	14.7	56	95	54	0	0	0	0	3	0	
JACKSON	81	61	90	57	71	-4	1.1	-.2	1.5	4.8	30	12.9	51	98	55	1	0	0	0	3	1	
MERIDIAN	81	62	88	59	71	-3	1.6	-.7	1.0	11.4	71	22.5	87	91	50	0	0	0	0	0	0	
MO CAPE GIRARDEAU	66	52	75	47	59	-11	.2	-.9	.2	8.1	57	13.4	66	86	51	0	0	0	0	1	0	
COLUMBIA	66	44	77	39	55	-13	.4	-1.0	.4	7.2	62	9.7	63	86	40	0	0	0	0	2	0	
KANSAS CITY	65	43	76	38	54	-16	.4	-1.0	.4	9.6	93	12.9	100	92	42	0	0	0	0	1	0	
SAINT LOUIS	66	49	77	46	58	-12	.3	-.8	.3	7.4	72	10.4	73	80	37	0	0	0	0	1	0	
SPRINGFIELD	64	47	75	43	56	-13	.3	-.8	.1	6.7	57	9.8	63	97	55	0	0	0	0	4	0	
MT BILLINGS	68	44	76	33	56	-2	.4	-.2	.2	4.7	89	4.9	70	86	36	0	0	0	0	4	0	
GLASGOW	70	43	79	36	57	-2	.2	-.3	.1	1.6	61	1.9	57	78	28	0	0	0	0	3	0	
GREAT FALLS	68	45	77	36	56	-4	1.6	-.9	.8	3.9	80	4.6	70	87	37	0	0	0	0	4	1	
HAVER	68	41	74	32	54	-4	.2	-.3	.1	.7	21	.9	21	84	31	0	1	1	2	0	0	
HELENA	72	46	79	40	59	3	.4	.0	.2	1.8	52	2.2	48	78	28	0	0	0	0	4	0	
KALISPELL	71	46	80	40	58	4	.5	.0	.2	3.2	88	5.1	81	90	39	0	0	0	0	3	0	
MILES CITY	72	45	83	39	59	-2	.7	-.6	.3	3.9	92	4.0	74	79	30	0	0	0	0	2	0	
MISSOULA	73	46	82	40	60	5	.5	.1	.3	3.5	104	4.1	74	88	33	0	0	0	0	3	0	
NE GRAND ISLAND	64	41	75	36	53	-13	.2	-.7	.2	6.8	88	9.6	105	86	38	0	0	0	0	1	0	
LINCOLN	67	41	78	37	54	-13	.1	-.8	.1	5.4	63	7.7	75	91	38	0	0	0	0	1	0	
NORFOLK	66	38	77	33	52	-13	.1	-.8	.1	5.2	70	7.3	84	86	36	0	0	0	0	1	0	
NORTH PLATTE	60	36	73	30	48	-14	.6	-.3	.3	5.7	91	8.0	112	92	48	0	2	4	0	0	0	
OMAHA	64	45	76	41	55	-13	.3	-.7	.3	8.7	95	11.2	104	74	42	0	0	0	0	1	0	
SCOTTSBLUFF	64	39	78	34	51	-10	.4	-.3	.2	3.5	70	5.2	88	91	41	0	0	0	0	4	0	
VALENTINE	67	37	79	28	52	-10	.1	-.6	.1	2.7	49	3.4	54	85	34	0	2	1	0	0	0	
NV ELY	76	40	83	35	58	4	.3	.0	.2	2.0	71	3.2	75	73	20	0	0	0	0	2	0	
LAS VEGAS	89	68	94	63	79	1	.4	.0	.4	4.9	632	6.6	386	60	25	3	0	0	0	1	0	
RENO	87	52	91	49	70	12	1.1	-.1	.1	.9	46	1.4	35	54	14	1	0	0	0	1	0	
WINNEMUCCA	87	51	94	42	69	10	.0	-.2	.0	1.1	51	1.4	38	40	13	2	0	0	0	0	0	
NH CONCORD	67	38	77	32	53	-7	.4	-.3	.3	6.5	74	9.8	69	99	37	0	1	2	0	0	0	
NJ ATLANTIC CITY	68	43	93	39	55	-9	.3	-.3	.2	6.4	63	9.4	55	97	50	1	0	0	0	5	0	
NM ALBUQUERQUE	73	51	79	45	62	-7	.4	.3	.3	2.6	197	3.4	162	85	32	0	0	0	0	3	0	
CLOVIS	65	49	75	43	57	-12	2.4	1.9	.9	6.4	188	8.6	199	91	59	0	0	0	0	3	3	
ROSWELL	71	52	82	49	61	-11	1.2	1.0	1.1	5.5	374	7.1	308	96	56	0	0	0	0	3	1	
NY ALBANY	66	41	74	34	53	-8	.5	-.3	.3	6.6	73	9.8	71	96	49	0	0	0	0	3	0	
BINGHAMTON	59	40	70	33	49	-10	1.7	1.0	1.3	10.7	118	14.4	103	94	54	0	0	0	0	4	1	
BUFFALO	59	42	72	35	50	-10	1.3	.6	.7	10.8	123	15.3	107	93	43	0	0	0	0	4	1	
NEW YORK	69	49	80	45	59	-6	.1	-.6	.1	6.9	62	9.8	56	86	40	0	0	0	0	2	0	
ROCHESTER	59	42	73	35	50	-11	.9	.3	.3	9.6	126	12.9	105	95	45	0	0	0	0	4	0	
SYRACUSE	61	39	72	33	50	-11	1.3	.6	.5	11.0	117	16.2	109	95	46	0	0	0	0	4	1	
NC ASHEVILLE	66	51	81	48	59	-7	.7	-.2	.4	13.6	112	20.4	109	96	66	0	0	0	0	4	0	
CHARLOTTE	71	57	88	51	64	-7	1.1	.3	.9	11.0	96	18.7	97	92	59	0	0	0	0	4	1	
GREENSBORO	66	54	88	51	60	-9	1.1	.3	.6	10.9	107	17.5	102	94	69	0	0	0	0	6	1	
HATTERAS	71	58	87	54	65	-6	1.2	.3	1.0	12.6	114	21.2	106	93	64	0	0	0	0	3	1	
NEW BERN	73	56	94	53	65	-7	2.0	1.0	1.2	8.2	75	17.0	89	91	57	1	0	0	0	4	2	
RALEIGH	69	55	89	53	62	-8	1.7	.9	1.4	7.5	74	13.5	79	96	60	0	0	0	0	3	1	
WILMINGTON	76	60	93	53	68	-5	4.1	3.0	3.0	16.3	147	25.5	139	93	57	1	0	0	0	3	2	
ND BISMARCK	69	36	82	27	53	-6	.4	-.6	.4	1.9	44	2.6	49	89	32	0	2	0	0	2	0	
FARGO	67	41	79	31	54	-6	.5	-.1	.3	4.3	87	5.7	98	80	33	0	1	3	0	0	0	
GRAND FORKS	68	45	82	33	57	-2	.5	.0	.5	5.0	125	6.0	114	78	33	0	0	0	0	2	0	
WILLISTON	68	37	79	27	53	-6	.2	-.3	.1	3.9	107	4.5	98	90	33	0	2	2	0	4	1	
OH AKRON-CANTON	62	41	71	34	51	-11	1.6	.8	.7	10.6	106	14.4	98	93	47	0	0	0	0	4	1	
CINCINNATI	63	47	68	41	55	-12	.8	-.1	.6	9.7	87	13.7	80	93	56	0	0	0	0	3	1	
CLEVELAND	61	43	69	36	52	-11	1.0	.2	.4	9.8	103	15.8	111	93	44	0	0	0	0	4	0	
COLUMBUS	63	44	69	38	53	-12	2.0	1.1	.8	9.6	94	12.3	81	94	49	0	0	0	0	4	2	

Based on 1951-80 normals.

Weather Data for the Week Ending May 30, 1992

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.	
																				90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	62	45	69	41	53	-12	1.3	.4	.7	11.6	115	15.6	105	95	55	0	0	3	1				
TOLEDO	61	41	70	34	51	-11	1.6	.9	.8	9.8	117	13.2	108	88	44	0	0	3	2				
YOUNGSTOWN	62	37	73	32	50	-11	.9	.1	.4	9.6	96	13.4	90	92	43	0	1	4	0				
OK OKLAHOMA CITY	66	51	72	48	59	-13	1.4	.2	1.0	9.2	89	11.6	92	94	58	0	0	4	1				
TULSA	66	52	74	49	59	-13	.7	.4	.6	11.4	93	13.3	86	94	60	0	0	2	1				
OR ASTORIA	66	51	78	47	58	4	T	.6	T	9.2	63	24.2	73	96	62	0	0	2	0				
BURNS	80	44	90	35	62	6	.1	.1	T	1.3	56	2.4	49	65	16	1	0	2	0				
MEDFORD	86	51	97	45	69	8	T	.3	T	2.8	71	4.3	45	83	26	2	0	0	0				
PENDELTON	81	54	91	49	67	6	T	.2	T	1.6	51	3.0	50	62	23	1	0	1	0				
PORTLAND	78	55	93	50	67	8	T	.4	T	5.8	74	14.2	79	91	43	1	0	2	1				
SALEM	79	52	92	47	66	8	T	.4	T	5.3	63	14.5	72	88	34	1	0	1	0				
PA ALLENTOWN	66	45	81	41	56	-8	1.1	.3	.5	8.0	71	11.2	64	93	47	0	0	3	1				
ERIE	59	43	67	35	51	-9	.7	.0	.3	7.8	83	12.3	88	89	42	0	0	3	0				
HARRISBURG	65	48	76	45	57	-9	1.7	.9	1.7	10.8	106	13.5	84	75	41	0	0	1	1				
PHILADELPHIA	70	50	86	46	60	-7	.5	.3	.2	6.1	59	8.3	51	83	41	0	0	4	0				
PITTSBURGH	64	42	72	36	53	-10	.5	.3	.3	7.9	77	11.7	75	88	46	0	0	3	0				
SCRANTON	63	43	75	38	53	-9	.6	.2	.3	6.7	77	9.3	72	92	49	0	0	4	0				
RI PROVIDENCE	67	45	80	41	56	-6	.2	.6	.1	7.5	65	14.4	74	91	40	0	0	3	0				
SC CHARLESTON	83	63	93	59	73	-2	4.3	3.1	1.8	11.5	103	18.7	104	96	52	2	0	6	3				
COLUMBIA	81	58	93	49	70	-4	.2	.7	.1	8.5	68	15.8	75	97	48	1	0	5	0				
FLORENCE	80	60	92	56	70	-4	.4	.8	.6	7.0	68	12.4	72	90	51	1	0	3	1				
GREENVILLE	72	55	87	52	63	-8	1.2	.3	1.0	14.9	106	23.5	103	94	60	0	0	4	1				
SD ABERDEEN	68	37	80	30	53	-8	T	.6	T	1.7	32	2.9	44	82	30	0	1	0	0				
HURON	67	36	78	28	51	-10	.2	.5	.2	3.3	56	5.2	74	86	33	0	2	2	0				
RAPID CITY	64	36	78	30	50	-10	T	.6	T	4.4	79	4.8	74	93	39	0	2	1	0				
STIOUX FALLS	66	39	77	34	53	-10	.2	.6	.1	6.2	87	8.7	102	85	35	0	0	2	0				
TN CHATTANOOGA	69	53	82	48	61	-10	.8	.4	.4	9.1	62	18.0	73	97	65	0	0	4	0				
KNOXVILLE	69	53	80	46	61	-10	.5	.3	.3	9.3	72	16.5	76	98	69	0	0	4	0				
MEMPHIS	71	56	76	53	63	-11	1.5	.5	1.1	12.1	75	16.1	64	95	57	0	0	4	1				
NASHVILLE	68	53	72	51	61	-11	1.4	.5	1.3	8.4	58	14.0	61	93	59	0	0	4	2				
TX ADILENE	70	55	79	48	62	-13	2.4	1.7	1.2	6.4	96	11.8	137	96	64	0	0	5	2				
AMARILLO	63	46	72	39	55	-15	1.6	.8	1.3	5.5	119	6.3	111	96	66	0	0	5	1				
AUSTIN	81	62	86	56	72	-6	1.5	.5	1.3	16.0	180	27.4	211	94	58	0	0	3	1				
BEAUMONT	83	65	90	59	74	-3	.6	.6	.4	10.9	90	28.5	139	100	60	1	0	3	0				
BROWNSVILLE	85	69	89	66	77	-4	3.0	2.5	1.5	9.8	236	15.3	221	95	63	0	0	3	2				
CORPUS CHRISTI	83	67	87	63	75	-4	.1	.7	.1	11.2	188	20.8	229	94	60	0	0	2	0				
DEL RIO	81	63	84	57	72	-8	1.0	.5	1.0	7.4	166	13.1	224	77	44	0	0	1	1				
EL PASO	80	55	84	53	68	-8	.2	.2	.1	5.0	728	6.3	419	90	32	0	0	5	0				
FORT WORTH	72	58	79	53	65	-11	1.1	.3	.8	12.3	115	18.0	126	96	67	0	0	3	1				
GALVESTON	81	68	88	64	75	-3	3.6	2.8	2.0	12.0	150	28.8	215	88	59	0	0	3	3				
HOUSTON	83	64	90	57	74	-4	2.8	1.7	2.5	17.0	153	30.7	171	94	57	1	0	2	1				
LUBBOCK	67	51	75	45	59	-13	2.0	1.4	1.6	7.9	175	11.2	207	99	67	0	0	5	2				
MIDLAND	71	53	82	49	62	-14	3.9	3.5	2.0	9.4	283	13.2	307	94	60	0	0	4	1				
SAN ANGELO	74	55	84	50	64	-12	.9	.3	.7	3.5	71	9.2	142	95	59	0	0	4	1				
SAN ANTONIO	83	63	89	55	73	-5	2.2	1.4	1.4	17.3	226	29.3	265	92	53	0	0	3	2				
VICTORIA	84	67	89	62	75	-3	.9	.2	.5	20.6	246	34.7	278	91	51	0	0	2	1				
WACO	78	60	88	53	69	-8	2.1	1.1	2.0	10.6	102	21.4	151	99	60	0	0	2	1				
WICHITA FALLS	70	54	76	50	62	-13	1.3	.4	1.0	5.8	64	8.8	80	94	61	0	0	4	1				
UT CEDAR CITY	72	47	77	43	60	0	.5	.3	.2	3.4	118	4.9	113	92	44	0	0	5	0				
SALT LAKE CITY	80	56	86	51	68	6	.1	.2	.1	3.9	74	6.0	75	73	28	0	0	1	0				
VT BURLINGTON	64	38	78	30	52	-8	.3	.4	.2	5.9	76	9.2	80	97	38	0	1	2	0				
VA NORFOLK	68	53	87	49	61	-9	1.3	.5	.7	7.1	69	13.7	79	92	59	0	0	3	2				
RICHMOND	68	52	90	48	60	-9	1.6	.8	1.2	12.9	131	17.4	106	99	59	1	0	4	1				
ROANOKE	62	50	78	44	56	-12	1.4	.6	.9	13.5	133	19.7	121	95	68	0	0	4	1				
WA QUILLAYUTE	65	51	82	49	58	5	.5	.5	.2	17.0	71	48.2	95	96	61	0	0	5	0				
SEATTLE-TACOMA	73	53	89	49	63	6	.1	.3	.0	5.9	80	16.9	95	90	45	0	0	2	0				
SPOKANE	78	49	89	44	64	7	.3	.0	.3	1.4	37	5.3	67	73	25	0	0	1	0				
YAKIMA	83	49	91	43	66	6	T	.1	T	1.1	71	2.0	55	76	24	1	0	0	0				
WV BECKLEY	59	45	66	40	52	-10	1.5	.7	.8	11.8	109	16.1	92	94	66	0	0	6	1				
CHARLESTON	63	47	68	41	55	-12	1.3	.5	1.1	12.4	112	17.0	96	95	62	0	0	3	1				
HUNTINGTON	65	48	69	43	56	-12	1.3	.5	.9	11.6	103	15.6	89	94	59	0	0	5	1				
PARKERSBURG	64	46	70	40	55	-12	1.2	.4	.8	10.3	100	13.0	82	96	58	0	0	3	1				
WI GREEN BAY	64	39	75	33	52	-8	.0	.7	.0	7.1	93	8.3	84	84	33	0	0	0	0				
LACROSSE	66	42	77	37	54	-9	.2	.7	.2	8.4	100	10.1	98	84	30	0	0	2	0				
MADISON	64	35	76	32	49	-12	T	.8	T	6.2	73	8.3	78	90	31	0	3	0	0				
MILWAUKEE	59	43	68	37	51	-8	T	.6	T	5.6	66	8.3	72	68	34	0	0	1	0				
WAUSAU	64	40	75	32	52	-8	.1	.8	.1	9.6	113	10.8	104	91	33	0	1	2	0				
WY CASPER	66	40	74	34	53	-3	.6	.2	.3	3.0	66	3.5	63	90	42	0	0	5	0				
CHEYENNE	59	38	72	32	48	-8	1.0	.4	.8	3.9	86	4.4	81	94	50	0	1	3	1				
LANDER	65	46	74	41	55	-1	1.3	.8	.6	4.8	80	5.4	76	94	45	0	0	5	1				
SHERIDAN	66	43	77	34	54	-2	.2	.4	.2	4.3	79	4.5	64	92	45	0	0	2	0				

Based on 1951-80 normals.

National Agricultural Summary

May 25 - 31, 1992

HIGHLIGHTS: Below-freezing temperatures were recorded in the northern Great Plains and upper Great Lakes, and temperatures averaged below normal in all regions except the West. The cooler weather slowed crop development, and continued dry weather in the central Corn Belt and much of the Great Plains stressed crops.

SMALL GRAINS: Winter wheat condition slipped further for the 19 major producing States, as predominately dry weather from the Northwest to Indiana diminished crop prospects. Crop condition remained good in California, the Gulf, and the Southeast. Winter wheat harvest was underway in the Southeast and far West with 1 percent (%) of the Nation's crop harvested. Heading of the winter wheat crop continued to progress ahead of normal, with 85% of the acreage showing grain heads in the 19 major States. This compares with 82% last year and 81% for the 5-year average. Heading was complete in the central Great Plains and beginning in the northern Rocky Mountains. Army worm infestations remained a problem in south-central and southwestern Missouri and north-central and northwestern Arkansas. Spring wheat emergence was 93% complete in the five major producing States, 1 percentage point ahead of last year and matching the historic average. Condition ratings for spring wheat remained mostly good to fair for the major States, but drying soils resulted in lower ratings for Montana. Emergence of spring barley was well advanced in the Rocky Mountains, Minnesota, and North Dakota. Emergence of oats was also well along and harvest was beginning in the Southeast.

CORN: Crop conditions dropped sharply as dry weather persisted in the central Corn Belt, and frost hit many of the northern and central corn-producing States. All major States except Texas showed significant reductions in condition ratings, with much of the acreage previously rated good was lowered to fair. Corn planting was nearly complete in the northern Corn Belt and was well along in the Northeast. Corn silking increased in the Southeast despite cooler temperatures. Some fields were lost to hail damage on the Texas Plains.

SOYBEANS: Soybean planting was well along in the northern producing States and active between rains in the South. Planting was 80% complete in the 19 major producing States, 27 points ahead of last year and 17 points ahead of the historic average. Progress was well ahead of schedule in the upper and middle Mississippi Valley and slightly ahead of schedule in the South.

COTTON: Cotton condition rated mostly fair to good for the 14 major producing States, with good crop prospects reported in the West and southern Delta. Planting of cotton was 83% complete, 10 points ahead of last year and 4 points ahead of the average. Cotton planting was in full swing in Oklahoma and Texas, and complete, or mostly complete, in the other major producing States. Squaring was evident on 5% of the cotton acreage, matching last year, but 2 points behind the historic average. Some replanting was undertaken due to rain and hail damage in southern and eastern Arizona. Thrips were reported in some fields in east-central Arkansas.

GRAIN SORGHUM: Grain sorghum planting was 66% complete in the 12 major States, compared with 53% last year and the average of 55%. Planting was slowed by heavy rains from eastern New Mexico to the Atlantic Coast, while good progress was made in the Central states. Planting was nearly complete in the Delta.

RICE: Rice planting was virtually complete and crop emergence advanced to 90% complete in the five major producing States, 22 points ahead of last year, and 8 points ahead of the historic average. Crop condition remained mostly fair in Arkansas and Mississippi, and mostly good in California, Louisiana, and Texas. Cold weather along Texas' Upper Coast, however, slowed crop development, and water weevils were causing severe damage in southwestern Louisiana.

OTHER FIELD CROPS: Cool, damp weather made haying difficult in the South Central and Eastern States, while first cutting was more active elsewhere. Spring potato harvest was in full swing in California and Florida. Seeding of potatoes for harvest in the fall was nearly complete in Washington and Idaho, and well along from Montana to Maine. Dry bean planting was in full swing in the Rocky Mountains and well along in the North Central States. Sugar beets were being thinned in the Northern States, and harvest of over-wintered beets was nearly complete in California. Sunflower and flaxseed planting continued and some emergence was noted in Minnesota and the Dakotas. Peanut planting was slowed by rains in the Southeast, and heavy rain and hail caused some damage to emerged plants in Texas. Sweetpotato planting in the Delta and North Carolina was also slowed by rains.

FRUIT AND NUTS: Oranges, grapefruit, tangerines, peaches, and grapes were being harvested in western and central Arizona. California cherry harvest slowed, while momentum picked up in other stonefruit. Freestone peach harvest was approximately 20% complete. Valencia orange harvest increased, mostly for export. Widely scattered showers in central Florida brought much-needed rain, but southern parts of the State were not as fortunate. Florida's grapefruit harvest was complete. New England apple, pear, and peach petals were falling, while blueberries remained in full bloom. New York reported good bloom on sweet and tart cherries, with good crop potential. Peaches appeared to be in good shape despite isolated frost damage.

VEGETABLES: Onion and lettuce harvests continued in central and eastern Arizona. Asparagus cutting remained active in California's Salinas Valley. California's broccoli and carrot harvests were slowing, while cauliflower and celery packing remained steady. Sweet corn harvest increased in the Coachella Valley, and lettuce volume was heavy in the Salinas-Watsonville and Santa Maria areas. Fresh market tomato harvest increased in southern California.

(Continued to p. 12)

Crop Progress

for the Week Ending May 31, 1992

COTTON (Percent Planted)

	Current	Last Wk	1991	Avg.
AL	98	96	86	96
AZ	99	98	100	100
AR	98	94	82	93
CA	100	100	100	100
GA	86	75	86	94
LA	100	100	74	90
MS	97	95	69	91
MO	99	95	81	93
NM	95	93	98	99
NC	92	89	100	94
OK	50	39	66	47
SC	97	92	93	95
TN	100	94	48	86
TX	70	64	64	65

14 States 83 79 73 79

These 14 States produced 99% of the 1991 cotton crop.

COTTON (Percent Squaring)

	Current	Last Wk	1991	Avg.
AL	3	NA	2	2
AZ	25	NA	12	36
AR	0	NA	0	1
CA	0	NA	1	1
GA	1	NA	9	8
LA	8	NA	0	3
MS	4	NA	0	7
MO	0	NA	0	0
NM	0	NA	0	0
NC	0	NA	0	0
OK	5	NA	0	0
SC	0	NA	0	0
TN	0	NA	0	0
TX	7	NA	9	9

14 States 5 NA 5 7

These 14 States produced 99% of the 1991 cotton crop.

RICE (Percent Emerged)

	Current	Last Wk	1991	Avg.
AR	94	88	63	78
CA	70	45	75	71
LA	94	92	76	89
MS	93	90	33	79
TX	89	78	90	95

5 States 90 83 68 82

These 5 States produced 97% of the 1991 rice crop.

GRAIN SORGHUM (Percent Planted)

	Current	Last Wk	1991	Avg.
AR	97	95	73	85
CO	27	19	29	24
IL	72	59	59	57
KS	40	35	35	35
LA	95	89	57	82
MS	90	88	54	83
MO	83	72	31	56
NE	95	68	67	66
NM	30	27	38	NA
OK	35	30	23	34
SD	64	41	13	34
TX	79	77	79	76

12 States 65 57 53 NA

Excl. States with NA 66 57 53 55

NA - not available.

These 12 States produced 98% of the 1991 grain sorghum crop.

SPRING WHEAT (Percent Emerged)

	Current	Last Wk	1991	Avg.
ID	99	98	84	95
MN	93	76	99	99
MT	86	76	80	87
ND	94	83	92	92
SD	100	100	100	100

5 States 93 83 92 93

These 5 States produced 87% of the 1991 spring wheat crop.

SOYBEANS (Percent Planted)

	Current	Last Wk	1991	Avg.
AL	50	38	22	43
AR	43	31	19	33
GA	42	26	29	52
IL	90	87	81	77
IN	92	81	83	69
IA	97	87	43	75
KS	50	40	45	40
KY	43	30	23	37
LA	65	61	12	36
MI	80	55	60	70
MN	97	86	47	78
MS	46	30	11	36
MO	68	58	24	45
NE	100	74	75	74
NC	47	32	53	42
OH	86	75	95	70
SC	33	23	28	38
SD	91	67	64	71
TN	44	28	6	31

19 States 80 68 53 63

These 19 States produced 95% of the 1991 soybean crop.

WINTER WHEAT (Percent Headed)

	Current	Last Wk	1991	Avg.
AR	100	99	100	100
CA	99	99	99	99
CO	83	80	55	48
GA	100	100	100	100
ID	27	12	2	12
IL	95	79	91	95
IN	78	48	91	83
KS	100	100	100	98
MI	5	0	45	30
MO	95	85	100	98
MT	9	2	0	7
NE	100	90	79	78
NC	98	93	100	99
OH	44	15	90	76
OK	100	100	100	100
OR	87	58	40	55
SD	47	14	31	32
TX	96	92	98	97
WA	60	26	50	44

19 States 85 78 82 81

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

WINTER WHEAT (Percent Harvested)

	Current	Last Wk	1991	Avg.
AR	1	NA	0	2
CA	1	NA	1	1
CO	0	NA	0	0
GA	13	NA	38	47
ID	0	NA	0	0
IL	0	NA	0	0
IN	0	NA	0	0
KS	0	NA	0	0
MI	0	NA	0	0
MO	0	NA	0	0
MT	0	NA	0	0
NE	0	NA	0	0
NC	1	NA	9	3
OH	0	NA	0	0
OK	0	NA	9	3
OR	0	NA	0	0
SD	0	NA	0	0
TX	6	NA	13	8
WA	0	NA	0	0

19 States 1 NA 3 2

These 19 States produced 92% of the 1991 winter wheat crop.

Crop Condition (Percent)

for the Week Ending May 31, 1992

COTTON

STATE	VP	P	F	G	EX
AL	0	6	70	24	0
AZ	0	0	12	75	13
AR	0	7	76	17	0
CA	0	0	5	85	10
GA	0	27	53	20	0
LA	0	0	50	40	10
MS	0	0	13	86	1
MO	0	25	67	8	0
NM	5	25	30	40	0
NC	2	15	48	35	0
OK	0	0	39	57	4
SC	0	1	81	18	0
TN	0	28	59	13	0
TX	0	2	61	29	8
14 State	0	5	50	39	6
Prev Week	N/A	N/A	N/A	N/A	N/A
Prev Year	1	5	35	54	5

RICE

State	VP	P	F	G	Ex
AR	0	6	64	30	0
CA	0	0	5	85	10
LA	0	0	42	58	0
MS	0	0	52	48	0
TX	0	0	17	53	30
5 State	0	3	46	46	5
Prev Week	0	6	45	46	3
Prev Year	1	7	47	42	3

CORN

State	VP	P	F	G	Ex
CO	1	5	26	60	8
GA	0	14	50	35	1
IL	0	10	59	30	1
IN	1	12	48	36	3
IA	1	2	43	50	4
KS	7	11	32	39	11
KY	1	2	40	56	1
MI	2	10	45	35	8
MN	1	8	41	47	3
MO	2	11	66	20	1
NE	1	9	41	43	6
NC	0	0	36	62	2
OH	0	3	29	55	13
PA	1	3	32	50	14
SD	2	19	48	29	2
TX	0	0	9	63	28
WI	1	10	41	46	2
17 State	1	8	44	42	5
Prev Week	0	3	26	61	10
Prev Year	1	2	16	61	20

SPRING WHEAT

State	VP	P	F	G	Ex
ID	1	7	29	50	13
MN	0	6	25	62	7
MT	15	19	27	34	5
ND	0	2	19	72	7
SD	1	16	43	39	1
5 State	3	8	25	58	6
Prev Week	1	6	28	61	4
Prev Year	0	0	12	75	13

WINTER WHEAT

State	VP	P	F	G	Ex
AR	0	0	14	62	24
CA	0	0	5	70	25
CO	11	21	44	21	3
GA	0	3	23	73	1
ID	1	9	35	46	9
IL	10	12	43	35	0
IN	7	22	46	24	1
KS	8	20	49	17	6
MI	2	8	30	45	15
MO	6	16	61	17	0
MT	23	25	32	17	3
NE	6	48	33	13	0
NC	0	0	16	82	2
OH	4	13	33	44	6
OK	0	2	53	45	0
OR	1	10	44	43	2
SD	4	55	30	10	1
TX	0	2	31	57	10
WA	0	44	42	14	0
19 State	5	17	41	32	5
Prev Week	4	15	44	32	5
Prev Year	6	14	38	36	6

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

(Continued from front cover)

May 14, in 1895). A day later, sub-freezing temperatures spread as far south as **western Kansas**, where **Goodland** dipped to 27°F, threatening flowering winter wheat. **North Platte, NE**, reported 30°F. In sharp contrast, early-week temperatures topped 90°F in parts of the **Northwest**, including a 93°F reading at **Walla Walla, WA**. At midweek, a strong disturbance tracked southeastward along the **crest of the Rockies**. Beneficial precipitation fell from **Montana** to the **west-central Plains**. Rain changed to wet snow in **Cheyenne, WY**, which received 4.3 inches. Precipitation remained all rain in **Goodland, KS**, on Wednesday, but the maximum temperature reached only 41°F. The storm reached the **southern Plains** with heavy rain and cool weather by Thursday morning. More than 3 inches of rain fell in **Lawton, OK**, and the mercury dipped to 39°F in **Amarillo, TX**. Late in the week, beneficial moisture spread into the **Southeast** and the **eastern Corn Belt**. More than 4 inches of rain soaked **Tallahassee, FL**, and **Valdosta, GA**. About 2 inches moistened **Columbus, OH**. On Saturday, rain overran cool air in the **Northeast**, and showers re-developed from **Montana** to **western Texas**.

(Continued from p. 10)

Florida's spring vegetable harvests were moving to the northern end of the State with watermelon, sweet corn, and tomatoes leading in volume. Green peas and strawberries were being picked in Maryland and Delaware. New Jersey harvests of squash, strawberries, and iceberg lettuce were starting, while early-season crop harvests continued. New Mexico's onion harvest was active, while lettuce harvest was slowing. Pea harvest was underway in Oregon and strawberry harvest was in full swing. Asparagus harvest was winding down in Washington.

PASTURES AND LIVESTOCK: Stockwater supplies are becoming scarce in the northern Great Plains, and lack of feed and water on some summer ranges was forcing movement of livestock. Forage growth was slowed by cooler weather across the eastern two-thirds of the Nation, but general rains from Texas to the Northeast improved prospects for good pasture.

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 0.50 in. north, over 1.00 in. isolated areas; 1.00 to 2.00 in. elsewhere, under 0.75 in. to over 4.00 in. local areas. Temperatures 9 to 11° below normal north; 5 to 7° below normal central south.

Days suitable for fieldwork 5.8. Soil moisture 31% very short, 45% short, 24% adequate. Scattered rainfall provided relief some areas central, south. Farmers provided supplemental feed to livestock drier areas. Corn 10% silked, 28% 1991, 31% avg.; 8% very poor, 28% poor, 40% fair, 21% good, 3% good. Sorghum 48% planted, 47% 1991, 60% avg.; 64% fair, 36% good. Cotton 98% planted, 86% 1991, 96% avg.; 6% poor, 70% fair, 24% good. Peanuts 90% planted, 87% 1991, 95% avg.; 84% fair, 16% good. Soybeans 50% planted, 22% 1991, 43% avg. Winter wheat 93% turning color, 98% 1991, 93% avg.; 18% harvested, 15% 1991, 36% avg.; 4% poor, 36% fair, 59% good, 1% excellent. First hay 68% harvested, 27% 1991, 52% avg. Pasture 2% very poor, 30% poor, 57% fair, 11% good. Livestock 2% poor, 41% fair, 57% good. Primary activities: Planting, cultivating row crops; harvesting wheat, hay, peaches, potatoes; applying fertilizer, herbicides, insecticides; irrigating fields; mowing pastures; scouting cotton; feeding cattle; general care of livestock, poultry, catfish.

ALASKA: Railbelt wide, moderately warm temperatures with scattered light rain showers combined to boost crop growth. Highs and lows 2 to 9° warmer than normal.

Days suitable for fieldwork 7.0. Topsoil 23% short, 73% adequate, 4% surplus. Subsoil 3% short, 94% adequate, 3% surplus. Farm work progress on schedule to up to 14 days behind. Barley, oat seeding 90% complete, commercial potato planting 60% complete. Rate of crop growth 34% slow, 50% moderate, 16% rapid.

ARIZONA: Showers, thunderstorms 24th to 26th, southeast, central; 27th to 28th north, east; 29th east; 30th northwest, southeast. Temperature 7° below to 4° above normal. Extremes 32°; 82° higher elevations, 51°; 100° deserts.

Cotton planted 99%, 100% 1991, 100% avg. Rain, hail damage east, south central. Cotton squaring 25%, 12% 1991, 36% avg.; 12% fair, 75% good, 13% excellent; weeds, insects, light to moderate. Replanting southeast. Alfalfa good to excellent; weeds, insects mostly light statewide; harvest, mostly moderate. Moderate rain damage east, northwest. Small grains turning color, 99%, 98% 1991, 96% avg.; harvested, 25%, 14% 1991, 34% avg. Rain, hail damage south, east; mostly good. Oranges, grapefruit, cantaloupe harvested west, central. Watermelon, honeydew, grapes harvested, west. Red, chipper potatoes, dry onions, peaches, mixed vegetables harvested central. Lettuce harvested east. Pasture, range conditions 100% of normal. Cattle, calves, good north, good to excellent central, southeast. Stockwater, soil moisture, mostly adequate statewide. Range, feed supplies average to above average north, above average central, average to above average southeast. Insect damage light.

ARKANSAS: Temperatures well below normal statewide, scattered showers throughout week. Extremes 39°; 82°. Rainfall 0.14 to 1.69.

Days suitable for fieldwork 4. Soil moisture 5% short, 73% adequate, 22% surplus. Main farming: Planting, land preparation, irrigating crops, fertilizing rice, harvesting wheat, cultivating cotton, sidedressing corn, pasture weed control, hay harvesting, sprigging bermuda, working cattle. Wheat good to excellent. Wheat harvest began during the week. Cotton emerged 93%, 68% 1991, 83% avg. Thrips some fields in east central. Soybeans emerged 30%, 11% 1991, 22% avg. Grain sorghum emerged 92%, 62% 1991, 74% avg.; 74% fair, 22% good, 4% excellent. Corn 2% poor, 30% fair, 68% good. Brown rot reported in some peach orchards. Livestock good. Producers continue seasonal spraying for ticks, flies. Cattle making good gains in west. Pastures in mostly good condition. Army worms reported heavy in northwest, north central. Cooler temperatures slowed bermuda growth. Hay harvesting slowed by wet conditions.

CALIFORNIA: Strong high pressure continued; most areas had above normal temperatures. Fog, low clouds blanketed coast, isolated thunder-showers popped up along the Sierra, northern mountains.

Field activities progressed, open weather. Barley, wheat harvested grain, seed. Alfalfa, oats, sudan cut hay, green chopped. Alfalfa irrigated, treated lygus. Cotton development normal; many fields irrigated, sprayed weeds. Rice planting nearly complete most areas, herbicide applications ongoing. Silage corn planted, sprayed mites, weeds, worms. Blackeye beans good growth. Garbanzo beans drying, harvest preparation. Safflower blooming most areas. Some fields sprayed lygus control. New crop sugarbeets treated mildew. Harvest overwintered sugarbeets nearly complete. Cherry harvest slowed, momentum picked up other stonefruit. Apricots, early plums picked, packed. Over ten percent nectarines harvested. Freestone peach harvest approximately twenty percent picked. Growers cultivating, irrigating, treating to control mites, worms. Grape growers irrigated, treated to control mildew, leaf hoppers, mealybugs, grapeleaf skeletonizer. Pomegranates still in bloom. Olive trees pruned. Valencia orange harvest increased, most for export. South Coast lemon harvest continued. Haas avocado harvest progressed. Asparagus harvest done Sacramento Valley, continued Salinas Valley good quality. Broccoli fairly light Salinas-Watsonville, Santa Maria, good quality. Carrot harvest nearly finished Imperial Valley, digging continued Coachella Valley. Cauliflower moderate Salinas-Watsonville, Santa Maria variable quality. Celery packing moderate Santa Maria, steady south district variable quality. Sweet corn harvest increased Coachella Valley good quality. Iceberg lettuce volume fairly heavy Salinas-Watsonville, Santa Maria variable quality. Leaf, Romaine lettuce harvests moderate, variable quality Salinas-Watsonville. Cantaloupe, honeydew, watermelon, mixed melon harvests started Coachella Valley very good quality, Imperial Valley harvest moving towards completion. Melons Kern-Tulare area growing well. Spring onion digging light central valley, desert growing areas. Spring potato harvest active Kern-Tulare district, Perris-Hemet area progressed well. Spring strawberry harvest slowly winding down Sacramento Valley, Eastside areas,

moderate central coast. Fresh market tomato harvest picked up volume desert, south district good quality. Other vegetables harvested: Beans, cabbage, cucumbers, garlic, peppers. Range, pasture fair to good most areas. Few areas poor. Water supplies variable. Supplemental feeding light to moderate. Cattle grazing sugarbeet tops. Sheep grazed grain stubble. Livestock movement heavy. Bees moved to seed alfalfa fields.

COLORADO: State was under influence of moist air. Rainfall generally greater west of Divide. River basins over 1.00 in. west of the Divide, 0.66 to 0.75 in. east. Temperatures below normal all areas; 7 to 10° below normal east of the Divide, 1 to 3° below normal west of Divide and San Luis Valley. Below-freezing temperatures extreme east central, northeast areas on 25th.

Days suitable for fieldwork 3.8. Soil moisture 23% very short, 31% short, 39% adequate, 7% surplus. Alfalfa 1st cutting 35%, 6% 1991, 7% avg. Barley emerged 99%, 88% 1991, 92% avg. Oats emerged 93%, 84% 1991, 86% avg. Spring wheat emerged 86%, 65% 1991, 85% avg. Dry beans planted 20%, 10% 1991, 13% avg.; emerged 4%. Sorghum planted 27%, 29% 1991, 24% avg.; emerged 12%. Corn emerged 91%, 76% 1991, 73% avg. Summer potatoes emerged 100%, 71% 1991, 58% avg. Fall potatoes emerged 5%, 3% 1991, 1% avg. Winter wheat headed 83%, 55 1991, 48% avg. Sugarbeets thinned 39%, 16% 1992, 21% avg. Winter wheat 11% very poor, 21% poor, 44% fair, 21% good, 3% excellent. Corn 1% very poor, 5% poor, 26% fair, 60% good, 8% excellent. Wheat, corn crops in extreme east central, northeast experienced below freezing temperatures on 25th. Full extent of damage has not yet been determined. Livestock mostly good. Pasture, range feed fair.

FLORIDA: Temperatures 2° below normal northwest to 2° above normal south. Highs, low to mid 90s all areas. Lows, upper 50s, lower 60s north, interior Peninsula to upper 60s, lower 70s lower southeast coast. Rainfall 1.00 to 3.00 in. Panhandle, some isolated 5.00 in. Rainfall widely scattered central areas, little or none southern areas.

Soil moisture is mostly short throughout State, except for northeast corner, scattered areas in southern Peninsula are adequate. Winter wheat harvest active. All dryland crops under stress from drought. Cotton, peanuts, soybeans, planting being delayed by dry soil. Tobacco, sugarcane making good progress. Citrus groves, dry. Rain needed, irrigation around clock all areas. Non-irrigated trees in stress. Valencia harvest slowing. Grapefruit harvest virtually complete. Caretakers cutting cover crops, spraying, fertilizing. Summer-like temperatures prevailed over major vegetable producing areas. Rainfall amounts variable: more abundant north, central. Spring harvest all crops, near complete southern areas; declining central area; increasing northern areas. Volume leaders: Potatoes, watermelon, tomatoes, sweet corn. Also available: Snap beans, cabbage, carrots, celery, cucumbers, eggplant, pepper, radishes, squash, cherry tomatoes. Harvest southwest tomatoes complete. State's pastures poor to good. Pasture 50% poor, 30% fair, 20% good. Moisture levels mostly short. State's cattle herds fair to good.

GEORGIA: Rain 1 to 2 days north, 2 to 5 days central, south. Amounts under 0.33 in. north, isolated spots over 1.00 in. Central, south 1.00 to 2.00 in., amounts vary to less than 0.50 in. Temperatures 7 to 10° below normal north, 2 to 6° below elsewhere. Warmest low 80s north, middle 90s extreme south. Coolest low 40s mountains, middle 50s central, 60s southeast.

Days suitable for fieldwork 5.4. Soil moisture 19% very short, 49% short, 28% adequate, 4% surplus. Corn 5% silked, 44% 1991, 26% avg.; dough 12% 1991, 5% avg. Sorghum 11% poor, 60% fair, 29% good; 57% planted, 59% 1991, 70% avg. Peanuts 3% very poor, 8% poor, 60% fair, 29% good; 94% planted, 94% 1991, 97% avg.; 4% blooming, 24% 1991, 17% avg.; pegging 3% 1991, 2% avg. Soybeans 6% poor, 53% fair, 41% good. Tobacco 8% poor, 53% fair, 39% good; Premature flowering problem some areas. Wheat harvest slowed by showers. Onions 99% fair, 1% good; 96% harvested, 100% 1991, NA avg. Watermelons 88% fair, 10% good, 2% excellent. Other vegetables 58% fair, 42% good. Apples 7% poor, 12% fair, 81% good. Peaches 3% very poor, 3% poor, 18% fair, 76% good; 18% harvested, 29% 1991, 29% avg. Hay, pastures variable poor to good. Haying slowed by showers late week. Cattle, hogs fair to good, mostly good. Activities: Replanting cotton, peanuts, planting soybeans where moisture available. Spraying vegetables, field crops.

HAWAII: Light trade winds encouraged hot, humid weather to linger. Record equaling or breaking high temperatures recorded on several days. Sparse rainfall fell early in week, more need to alleviate dry conditions. Low water supplies continued some areas. Temperatures mid 60s to low 90s. Rainfall none to 2.20 in.

Days suitable for fieldwork 7.0. Banana production continued at near normal levels. Papaya production increased, efforts to control outbreak mosaic ring spot virus continued. Pastures, major grazing areas Hawaii Island remained in poor condition. Supplemental feeding of livestock heavy. Some cattle deaths reported.

IDAHO: Temperatures 3 to 12° above normal. Precipitation fell in the north where Grangeville received 1.05 in.

Days suitable for fieldwork 7. Soil moisture 30% very short, 35% short, 35% adequate. Spring wheat 38% not yet jointed, 23% jointed, 23% boot, 16% headed. Spring barley emerged 99%, 83% 1991, 94% avg.; 42% not yet jointed, 29% jointed, 17% boot, 12% headed. Oats emerged 97%, 71% 1991, 88% avg. Sugarbeets thinned 71%, 37% 1991, 50% avg. Potatoes emerged 65%, 17% 1991, 37% avg. First cutting alfalfa 36%, 8% 1991, 11% avg. Lentils emerged 100%, 87% 1991, 94% avg. Dry peas emerged 100%, 81% 1991, 95% avg. Field corn planted 94%, 81% 1991, 92% avg.; emerged 72%, 40% 1991, 69% avg. Dry beans planted 58%, 28% 1991, 33% avg. Irrigation water supplies 22% very poor, 28% poor, 28% fair, 22% good. Activities: Cultivating, thinning sugarbeets, cutting alfalfa, irrigation, weed, insect control, fencing, planting. Pasture, range 64% of normal. Hay, roughage supplies mostly adequate. Livestock good.

ILLINOIS: Week began with record-breaking cold, ended at normal levels. Temperatures mid 40s to the mid 60s. Precipitation was little to none, with few areas 0.20 to 0.50 in.

Days suitable for fieldwork 6.0. Soil moisture 72% short, 24% adequate, 4% surplus. Corn average height 7 in., 11 in. 1991, 9 in. avg.; height advanced 11 in., 21 in. 1991, 15 in. avg. Soybeans full stand 73%; 36% good, 56% fair, 8% poor. Winter wheat filled 45%, 62% 1991, 59% avg. Turning yellow 3%, 19% 1991, 15% avg. Alfalfa first cutting 60%, 46% 1991, 49% avg.; 2% excellent, 52% good, 38% fair, 7% poor, 1% very poor. Red clover cut 35%, 33% 1991, 37% avg.; 1% excellent, 50% good, 38% fair, 11% poor. Oats headed 12%, 38% 1991, 26% avg.; filled 4%, 16% 1991, 7% avg.; 5% excellent, 52% good, 41% fair, 2% poor. Pasture 82% of normal.

INDIANA: Temperatures 7 to 15° below normal. Highs low 60s to low 70s. Lows, 40 to 50°.

Precipitation 0.30 to 1.00 in. mostly due to weekend rains.

Days suitable for fieldwork 5.3. Topsoil 52% short, 41% adequate, 7% surplus. Subsoil 44% short, 54% adequate, 2% surplus. Corn emerged 91%, 90% 1991, 78% avg.; height 6 in., 13 in. 1991, 8 in. avg. Soybeans emerged 70%, 73% 1991, 55% avg.; height 2 in., 2 in. 1991, 2 in. avg. Wheat in milk 21%, 45% 1991, 27% avg. Oats headed 16%, 72% 1991, 32% avg.; 10 in. high, 12 in. 1991, 11 in. avg. Tobacco set 44%. Alfalfa hay 1st cutting 40%, 41% 1991, 43% avg. Pasture 84%, 85% last week, 98% 1991. Soil moisture continues to drop. Cool weather has slowed plant growth.

IOWA: Temperatures 9 to 11° below normal. Extremes 31°; 83°. Precipitation none to 0.97 in; average 0.21 in. Frost reported in scattered areas statewide on 27th, in northeast on 28th.

Days suitable for fieldwork 4.6. Topsoil 46% short, 51% adequate, 3% surplus. Subsoil 9% short, 88% adequate, 3% surplus. Winter wheat 8% very poor, 23% poor, 36% fair, 31% good, 2% excellent. Hay 3% very poor, 15% poor, 31% fair, 45% good, 6% excellent. Oats 1% very poor, 5% poor, 26% fair, 62% good, 6% excellent. Soybeans 2% poor, 38% fair, 56% good, 4% excellent. Pasture 1% very poor, 8% poor, 36% fair, 47% good, 8% excellent. Corn 97% emerged, 64% 1991, 87% avg.; 8% cultivated first time, 4% 1991, 16% avg. Soybean 67% emerged, 24% 1991, 48% avg. Oats headed 4%, 1% 1991, 6% avg. First cutting alfalfa 11% harvested, 5% 1991, 12% avg. Livestock good.

KANSAS: Temperatures below normal; 9° below normal northwest, 12° below normal west central, 14 to 15° below normal remainder of State. Precipitation received all districts. Ranged 0.06 in. east central to 1.16 in. central. All districts received 0.50 in. or more rainfall except northeast, east central districts.

Days suitable for fieldwork 3.5. Surface moisture 41% short, 48% adequate, 11% surplus. Subsurface moisture 57% short, 4% adequate, 1% surplus. Wheat mostly fair to poor. Temperatures dipped to twenties early last week in northwest. Damage was sustained by wheat, corn; may be severe, but extent not known. Heavy infestations armyworms reported in east central, southeast wheat. Corn planting complete. Sorghum, soybean planting ahead of average. Pasture forage adequate many areas, but short in parts of west, central thirds of State. Stockwater short southwest, central third of State. Hauling water to cattle some areas. Approximately 65% alfalfa cut first time.

KENTUCKY: Temperatures 55 to 60°, 10° below normal. Highs 60s to 70s, overnight lows upper 30s, lower 40s. Heavy rain 29th, heaviest amounts Central. Rainfall 1.00 to 3.00 in.

Days suitable fieldwork 4.4. Soil moisture 4% very short, 26% short, 61% adequate, 9% surplus. Corn planting 96% complete, 84% 1991, 85% avg. Height emerged corn 10 in., some early fields over 3 ft. Tobacco transplanting active, burley 65% set, dark type 68% set. Condition of early set tobacco mostly good. Wheat 1% poor, 28% fair, 55% good, 16% excellent. Wheat harvest couple weeks away, barley harvest beginning. Cool, damp weather made haying difficult. Hay fair. Pasture mostly good.

LOUISIANA: Temperatures 1.6 to 8.4° below normal. Extremes 50°; 92°. Rainfall 1.14 in. northeast to 2.80 in. west central.

Days suitable for fieldwork 4.0. Soil moisture 19% short, 51% adequate, 30% surplus. Corn 7% poor, 30% fair, 54% good, 9% excellent; 20% silked, 30% 1991, 16% avg. Cotton 50% fair, 40% good, 10% excellent; 99% emerged, 65% 1991,

81% avg. Hay 52% first cutting, 10% 1991, 45% avg. Peaches 2% poor, 70% fair, 27% good, 1% excellent; 13% harvested, 6% 1991, 7% avg. Rice 99% planted, 82% 1991, 94% avg. Water weevils severe, southwest. Sorghum 8% poor, 38% fair, 54% good; 87% emerged, 53% 1991, 75% avg. Soybeans 56% emerged, 8% 1991, 32% avg. Spring plowing 100% complete, 80% 1991, 95% avg. Sugarcane 1% fair, 80% good, 19% excellent. Lay-by continued. Sweet potatoes 34% fair, 66% good; 29% planted, 28% 1991, 36% avg. Wheat 8% poor, 42% fair, 50% good; 100% turning color, 100% 1991, 99% avg.; 42% harvested, 37% 1991, 49% avg. Livestock 16% fair, 68% good, 16% excellent. Pastures 1% very poor, 4% poor, 5% fair, 90% good. Vegetables 18% fair, 77% good, 5% excellent. Rainfall helped all crops.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.60 in. Temperature 60.5°, normal 67.0°. Extremes 28°; 94°.

Days suitable for fieldwork 4.3. Topsoil 9% short, 68% adequate, 23% surplus. Subsoil 32% short, 68% adequate. Corn for grain 92% planted, 97% 1991, 90% avg. Sweet corn 72% planted, 83% 1991, 77% avg. Soybeans 37% planted, 50% 1991, 34% avg. Sorghum 24% seeded, 64% 1991. Small grains good, barley 34% turned, rye 30% turned. Wheat 92% headed, 99% 1991, 95% avg.; oats 23% headed 30% 1991, 26% avg. Spring oats fair to mostly good. Pastures in mostly excellent. Hay short to adequate supply. Active cutting, baling hay. Rye silage, hay mostly cut. Light to moderate disease, insect pressure on vegetables, wheat. Melon planting near normal, vegetable planting behind. Tobacco 58% transplanted, 59% 1991, 44% avg. Active planting of full season soybeans, sorghum. Picking green peas, strawberries.

DELAWARE: Precipitation 0.37 in. Temperature 61.0°, normal 67.4°. Extremes 42°; 93°.

Days suitable for fieldwork 5.3. Topsoil 78% adequate 22% surplus. Subsoil all areas adequate. Corn for grain virtually all planted. Sweet corn 90% planted, 68% 1991, 81% avg. Soybeans 24% planted, 38% 1991, 30% avg. Sorghum 44% seeded, 70% 1991. Small grains good, barley 58% turned, 99% 1991, 69% avg. Rye 4% turned, 68% 1991, 17% avg. Wheat virtually all headed, just beginning to turn. Oats 29% headed, 89% 1991, 57% avg. Rye silage, hay mostly cut. Pastures mostly excellent condition. A few strawberries, green peas being harvested. Activities for the week: finishing corn planting; very active planting melons, vegetables. Cutting, baling hay. Full-season soybean, sorghum planting active. Light to moderate disease, insect pressure on small grains, some spraying.

MICHIGAN: Temperatures 4 to 12° below normal. Extremes 23°; 78°. Precipitation none to 1.61 in. across the State.

Days suitable for fieldwork 6.5. Soil moisture 80% short, 20% adequate. Corn 95% planted, 90% 1991, 95% avg.; 70% emerged, 70% 1991, 75% avg.; 2% very poor, 10% poor, 45% fair, 35% good, 8% excellent. Potatoes 90% planted, 85% 1991, 85% avg. Soybeans 80% planted, 60% 1991, 70% avg. Winter wheat 5% headed, 45% 1991, 30% avg.; 2% very poor, 8% poor, 30% fair, 45% good, 15% excellent. Pasture 70% of normal. Major activities: Spreading fertilizer, weed spraying, checking crop damage.

MINNESOTA: Temperatures 0 to 9° below normal. Extremes 27°; 84°. Precipitation none to 1.05 in. State, 0.07 in. above normal to 0.80 in. below normal. Greatest weekly total was 1.22 in.

Days suitable for fieldwork 5.0. Topsoil 7% very short, 29% short, 62% adequate, 2% surplus. Spring wheat 98% planted, 99% 1991, 99% avg.; 93% emerged, 99% 1991, 99% avg.; 14% jointing, 28% 1991, 22% avg. Oats 99% seeded, 99% 1991, 99%

avg.; 97% emerged, 96% 1991, 98% avg.; 17% jointing, 25% 1991, 28% avg. Barley 97% seeded, 99% 1991, 99% avg.; 81% emerged, 99% 1991, 99% avg.; 12% jointing, 26% 1991, 19% avg. Corn 99% planted 77% 1991 93% avg.; 95% emerged, 61% 1991, 79% avg., 11% cultivated once, 2% 1991, 11% avg. Soybean 97% planted, 47% 1991, 78% avg.; 75% emerged, 27% 1991, 45% avg.; 4% cultivated once, 0% 1991, 3% avg. Sunflower 83% planted, 92% 1991, 87% avg. Potatoes 88% planted, 92% 1991, 92% avg. Flaxseed 65% planted, 97% 1991, 89% avg. Dry beans 87% planted, 86% 1991, 87% avg. Sweet corn 83% planted, 48% 1991, 69% avg. Alfalfa hay 7% first cutting, 2% 1991, 8% avg.

MISSISSIPPI: Temperature 69°, 5.8 below normal. Extremes 46°; 92°. Near normal to above average rainfall across the State. Average 1.19 in., 0.20 above normal. Soil temperature 74°.

Days suitable for fieldwork 4.4, 1.8 1991, 3.2 avg. Soil moisture 12% very short, 47% short, 35% adequate, 6% surplus. Corn 98% emerged, 66% 1991, 90% avg.; 4% silked, 6% 1991, 5% avg.; 4% poor, 49% fair, 46% good, 1% excellent. Cotton 97% planted, 69% 1991, 91% avg.; 91% emerged, 59% 1991, 84% avg.; 4% squaring, 7% avg.; 4% poor, 67% fair, 29% good. Peanuts 70% planted, 57% 1991, 72% avg. Rice emerged 93%, 33% 1991, 79% avg.; 52% fair, 48% good. Sorghum 90% planted, 54% 1991, 83% avg.; 85% emerged, 45% 1991, 77% avg.; 5% poor, 54% fair, 41% good. Soybeans 46% planted, 11% 1991, 36% avg.; 32% emerged, 9% 1991, 24% avg.; 8% poor, 41% fair, 51% good. Sweet potatoes 48% planted, 43% 1991, 61% avg. Watermelons 92% planted, 86% 1991, 94% avg. Wheat 71% mature, 83% 1991, 71% avg.; 9% harvested, 6% 1991, 13% avg.; 1% very poor, 3% poor, 42% fair, 53% good, 1% excellent. Hay 42% harvested, 12% 1991, 24% avg. Peaches 24% harvested, 8% 1991, 7% avg.; 15% poor, 59% fair, 26% good. Pecans 6% very poor, 57% poor, 33% fair, 4% good. Livestock 13% fair, 86% fair, 1 excellent. Pasture 76% of normal. Activities: Planting soybeans, insect, weed control.

MISSOURI: Temperatures 12 to 15° below normal. Precipitation 0.30 in., less than 0.25 in. northern, central districts to 0.67 in. southern districts.

Days suitable for fieldwork 4.8. Topsoil 55% short, 42% adequate, 3% surplus. Cool, dry weather limiting crop, hay pasture growth. Soybean, sorghum planting both over 2 weeks ahead of avg. Winter wheat turning color 24%, 60% 1991, 43% avg., southeastern district 79% turning, northern districts just beginning. Severe infestation of army worms in wheat, fescue, primarily west central, southwestern districts, lesser extent central, south central. Alfalfa first cutting 52%, 39% 1991, 52% avg. Other hay cut 19%, 17% 1991, 24% avg. Pasture 4% very poor, 20% poor, 50% fair, 26% good.

MONTANA: Temperatures west, 3 to 6° above normal; east, normal to 5° below normal. Precipitation fell most areas, below normal most areas.

Days suitable for fieldwork 6.0. Topsoil 54% short, 46% adequate. Subsoil 65% short, 34% adequate 1% surplus. Barley 99% planted, 95% 1991, 97% avg. Barley 86% emerged, 79% 1991, 87% avg. Oats 97% planted, 92% 1991, 97% avg. Corn 95% planted, 85% 1991, 85% avg. Potatoes 89% planted, 62% 1991, 76% avg. Pasture, range feed conditions 64%. Cattle, calves moved to summer ranges 74%, sheep, lambs 69% moved. Stockwater supplies 63% short. Lack of feed, water on summer range causing livestock movement to other counties, cattle sales.

NEBRASKA: Temperatures 10 to 14° below normal. Scattered precipitation 0.20 in. north central to 1.00 in. southwest.

Days suitable for fieldwork 5.4. Topsoil 46% short, 54% adequate. Subsoil 37% short, 63% adequate. Wheat 6% very poor, 48% poor, 33% fair, 13% good; 100% headed, 79% 1991, 78% avg.; 1% turning, 1% 1991, 3% avg. Corn 1% very poor, 9% poor, 41% fair, 43% good, 6% excellent. Sorghum 95% planted, 67% 1991, 66% avg.; 57% emerged, 51% 1991, 46% avg. Alfalfa 7% poor, 43% fair, 47% good, 3% excellent; 46% first cutting harvested, 11% 1991, 26% avg. Pasture, range 74% of normal.

NEVADA: High pressure dominated. Thunderstorm activity over central, southern areas, precipitation light. Temperatures above normal, some new record highs set. Extremes 30°; 98°.

Planting about completed all crops, most have emerged. Condition most crops generally good, progress nearly two weeks ahead of normal. First cutting alfalfa hay well along central, northern areas; second cutting nearing completion southern counties. Most calving, lambing, shearing completed. Movement cattle to summer ranges continues, slightly behind normal.

NEW ENGLAND: Precipitation none to 1.10 in. north; 0.05 to 0.65 south. Temperatures low to mid 50s north, low to high 50s south; 2 to 8° below normal. Highest temperatures low 70s to low 80s; lowest temperatures high 20s to mid 40s.

Days suitable for fieldwork 6. Soil moisture 25% very short, 50% short, 22% adequate, 3% surplus. Available grazing 7% very short, 45% short, 45% adequate, 3% surplus. Fieldwork progress 4 days behind schedule. Maine potatoes 88% planted, 94% 1991, 85% avg.; 9% emerged, 20% 1991, 8% avg.; fair to good. Rhode Island potatoes 93% planted, 85% 1991, 95% avg.; 50% emerged, 63% 1991, 56% avg.; good. Connecticut River Valley potatoes 99% planted, 93% 1991, 93% avg.; 58% emerged, 70% 1991, 74% avg.; good. Maine oats 94% planted, 95% 1991, 86% avg.; 53% emerged; good. Field corn 85% planted, 84% 1991, 71% avg.; 45% emerged, 58% 1991, 43% avg.; fair to good. Sweet corn 80% planted, 74% 1991, 70% avg.; 50% emerged, 61% 1991, 47% avg.; fair to good. Hay fair to good. Shade tobacco 70% transplanted; fair. Outdoor tobacco 10% transplanted; fair. Apples, pears petal fall, peaches petal fall to fruit set. Cranberries bud stage. Strawberries, blueberries full bloom. Major farm activities: Plowing, making first cut of hay, finishing planting of field corn, potatoes, vegetables.

NEW JERSEY: Temperatures much below normal. Extremes 34°; 78°. Rainfall 2.07 in. north, 1.45 in. central, 1.38 in. south. Heaviest 24 hour total 2.16 in. on 31st, 1st. Estimated soil moisture, in percent field capacity, 86% north, 74% central, 62% south. Four-inch soil temperatures 58° north, 59° central, 60° south.

Heavy rain 31st very beneficial. Soil moisture content good. Harvest of squash, strawberries, iceberg lettuce just getting underway. Green onion, turnips, light to moderate supply. Asparagus, beets, Chinese cabbage, endive, leeks, parsley, radish, spinach, leafy greens, lettuce except iceberg, in moderate supply. Early-planted corn, soybeans 2 to 3". Previous week's frost caused some drop in peaches, heavy apple loss in some areas. Apples showing poor pollination. Cold slowing pepper, tomato development. Pastures look good.

NEW MEXICO: Another week of unusually cool, showery weather. Areas east of the Rio Grande River 6 to 10° cooler than normal; areas to the west 3 to 4° below normal. Once again, nearly all areas had measurable precipitation. Northeastern, southeastern plains averaged over 1.00 in.

Days suitable for fieldwork 3.4. Soil moisture 6% short, 71% adequate, 23% surplus. Crop conditions: Alfalfa, 7% poor, 21% fair, 72% good. Corn 6% poor, 6% fair, 88% good. Irrigated wheat, 5% poor, 5% fair, 90% good. Dryland wheat 17% poor, 17% fair, 66% good. Wheat 100% headed out with no harvest started yet. Onions 23% fair, 77% good with harvest underway. Lettuce harvest is wrapping up. Chile 9% poor, 36% fair, 55% good. Apples 10% fair, 80% good, 10% excellent. Reports of acreage losses to cotton, chile, corn due to hail, rain. Cattle, sheep fair to excellent. Range, pasture 95% of normal.

NEW YORK: Cool, wet week. Temperatures 7 to 14° below normal. Freezing temperatures common morning of 25th. Extremes 26°; 85°. Rainfall well above average. Most areas received 150 to 200% of normal. Exceptions were the Western Plateau with 73% of normal, the Coastal Division with 26%.

Days suitable for fieldwork 5.3. Soil moisture mostly adequate. Unprotected plants in many areas damaged by frost on morning of the 25th. Pastures 89% of normal. Hay, wheat good. Early planted corn reached 2 leaf stage. Corn 78% planted, 82% 1991, 67% avg. Oats 88% seeded, 100% 1991, 89% avg. Potato planting reached 94% finished. In Lake Ontario fruit growing region thinning on pears was active. Good bloom on sweet, tart cherries, good crop potential. Peaches exhibit good crop. Damage from frost very isolated. Damage to vegetables varied by crop, area. Growth for many vegetables crops running behind normal. Lettuce planting continued active. Sweet corn planting wound down.

NORTH CAROLINA: Temperatures 9° below normal in central areas to 5° below normal near the Coast. Precipitation 0.03 to 5.15.

Days suitable for fieldwork 4.4. Soil moisture 28% short, 63% adequate, 9% surplus. Crop condition: Wheat 16% fair, 82% good, 2% excellent; oats 19% fair, 80% good, 1% excellent; barley 20% fair, 80% good; rye 19% fair, 79% good, 2% excellent; pasture 1% poor, 21% fair, 74% good, 4% excellent; tobacco 45% fair, 54% good, 1% excellent; corn 36% fair, 62% good, 2% excellent; cotton 2% very poor, 15% poor, 48% fair, 35% good; peanuts 9% poor, 39% fair, 52% good; soybeans 5% poor, 23% fair, 72% good; hay 1% poor, 34% fair, 61% good, 4% excellent; Irish potatoes 18% fair, 73% good, 9% excellent; sweet potatoes 7% poor, 29% fair, 64% good; apples 6% poor, 56% fair, 38% good; peaches 8% very poor, 25% poor, 38% fair, 29% good; truck crops 2% poor, 33% fair, 65% good. Cotton planted 92%, 100% 1991, 94% avg.; peanuts planted 90%, 98% 1991, 90% avg.; sorghum planted 56%, 52% 1991, 45% avg.; soybeans planted 47%, 53% 1991, 42% avg. Burley tobacco transplanted 36%, 68% 1991, 41% avg.; sweet potatoes 50%, 57% 1991, 46% avg. Hay, roughage supplies 3% short, 87% adequate, 10% surplus. Hay first cutting 54%. Major activities: Planting cotton, sorghum, soybeans, peanuts, truck crops; transplanting flue cured tobacco, sweet potatoes. Other activities: Tending tobacco beds; topdressing, spraying small grains; fertilizing pastures; harvesting hay; tending livestock; cultivating, spraying field crops; equipment repair; general farm maintenance.

NORTH DAKOTA: Cool, light scattered showers across the State, warming by weekend. Temperatures 7° below normal south central, southeast to 4° below normal northwest, north central, northeast. Extremes 23° west central; 83° northeast, west central. Precipitation 0.02 in. south central to 0.66 in. east central.

Days suitable for fieldwork 6.4. Topsoil 11% very short, 36% short, 53% adequate. Subsoil 11% very short, 30% short, 59% adequate. Small grain planting virtually complete, mostly good. Spring wheat 2% poor, 19% fair, 72% good, 7% excellent; 9% jointing and beyond, 14% 1991, 15% avg. Durum 3% poor, 16% fair, 77% good, 4% excellent; 5% jointing and beyond, 6% 1991, 7% avg. Winter wheat 3% poor, 29% fair, 68% good; 20% boot and beyond, 25% 1991, 34% avg. Oats 5% poor, 40% fair, 53% good, 2% excellent; 11% jointing and beyond, 19% 1991, 17% avg. Barley 2% poor, 15% fair, 77% good, 6% excellent; 9% jointing and beyond, 10% 1991, 13% avg. Sugarbeets 100% emerged, 2 in. avg. height. Corn 81% emerged, 3 in. avg.; 72%, 3 in. 1991; 61%, 3 in. avg. Flax 50% emerged, 2 in. avg. height; 56%, 2 in. 1991; 47%, 2 in. avg. Potatoes 12% emerged, 1 in. avg. height; 35%, 2 in. 1991; 42%, 2 in. avg. Soybeans 64% emerged, 2 in. avg. height; 62%, 2 in. 1991; 45%, 2 in. avg. Dry beans 44% emerged, 1 in. avg. height; 58%, 2 in. 1991; 39%, 2 in. avg. Sunflower 26% emerged, 1 in. avg. height; 38%, 2 in. 1991; 28%, N/A height avg. Post emerged herbicide applications for broadleaf control 33% complete, wild oats 52%. Range, pasture 79% of normal, furnished 91% roughage requirements. Stockwater supplies 4% very short, 34% short, 62% adequate.

OHIO: Unseasonably cool weather dominated last week. Pockets of frost, freezing over northern areas; one of the latest frosts or freezes on record. Temperatures 8 to 12° below normal with mean highs in the low 60s with average minimums in the 40s. Mean temperatures low 50s. Precipitation greatest in north, west. Slightly greater than 1.00 in. In western areas, were between 0.70 to 1.00 in. across the east. Northeast received only approximately 0.50 in. Since April 1st, sizable precipitation deficits have accumulated. Greatest deficits exist over central, east central areas with precipitation more than 3.00 in. below normal.

Days suitable for fieldwork 5.2. Soil moisture 25% short, 70% adequate, 5% surplus. Corn emerged 79%, 95% 1991, 70% avg. Soybeans emerged 51%, 80% 1991, 54% avg. Pasture 5% poor, 35% fair, 48% good, 12% excellent. Hay 1% very poor, 5% poor, 33% fair, 50% good, 11% excellent. Oats 1% very poor, 7% poor, 39% fair, 47% good, 6% excellent. First cutting alfalfa hay 35% complete, 68% 1991, 42% avg. First cutting other hay 22% complete, 52% 1991, 27% avg. Strawberry harvest is 4% complete, 34% 1991, 13% avg. Cool, cloudy weather is causing corn, beans to yellow. Amount of wheat headed continues to be much below normal.

OKLAHOMA: Temperatures 10° below normal east central to 14° below normal west central. Precipitation 1.02 in. northeast to 2.33 in. southwest.

Days suitable for fieldwork 3.3. Topsoil 11% short, 47% adequate, 42% surplus. Subsoil 10% short, 90% adequate. Wheat 2% poor, 53% fair, 45% good; 89% soft dough, 83% 1991, 72% avg.; 0% harvested, 9% 1991, 3% avg. Corn 99% emerged, 98% 1991, 93% avg. Crop insect activity mostly light. Cattle good; marketings average; prices steady to lower.

OREGON: Temperatures above normal statewide; except central coast 1° below normal due to foggy conditions. Greatest departures 4 to 11° above normal southwest, northeast. Virtually dry; rainfall none to 0.04 in.; except northeastern areas 0.30 in., central coast 0.20 in.

Soil moisture, 68% short, 32% adequate. Winter wheat 1% very poor, 10% poor, 44% fair, 43% good, 2% excellent. Barley planting complete. Winter wheat headed 87%. Some burning, moisture stress, cereal grains. Hay harvest ahead of normal, excellent haying conditions. Strawberry harvest

full swing, red raspberries beginning to ripen, blackberries in late bloom stage; Willamette Valley. Cherry harvest 1 week away southern Willamette Valley, picking sweets in Milton-Freewater district, sizing The Dallas district. Pear, apple thinning winding down, Hood River Valley. Blueberry harvest one week away southern Willamette Valley. Cranberry fruit setting, sizing, southern coast. Klamath Basin potato planting nearly complete. Columbia Basin fresh potatoes closing rows, late varieties laid by. Pea harvest underway. Eastern ranges, pastures continue to be extremely dry. Stockwater shortages continue, eastern areas. Pastures normal to near normal, western areas. Pasture, range 67% of normal.

PENNSYLVANIA: Temperature 56°, 3° below normal. Extremes 27°; 86°. Precipitation 1.25 in., 0.43 in. above normal.

Days suitable for fieldwork 5. Soil moisture 37% short, 59% adequate, 4% surplus. Plowing 95% complete, 96% 1991, 92% avg. Corn 82% planted, 88% 1991, 70% avg. Soybeans 50% planted, 61% 1991, 37% avg. Oats 99% planted, 100% 1991, 98% avg. Potatoes 87% planted, 94% 1991, 83% avg. Barley 14% pre-boot, 9% 1991, 13% avg.; 17% boot, 9% 1991, 12% avg.; 69% heading or headed, 82% 1991, 75% avg. Wheat 17% pre-boot, 9% 1991, 16% avg.; 29% boot, 18% 1991, 29% avg.; 54% heading or headed, 73% 1991, 55% avg. Wheat 1% very poor, 3% poor, 18% fair, 54% good, 24% excellent. Oats 1% very poor, 5% poor, 22% fair, 54% good, 18% excellent. Hay stands mostly good. Alfalfa first cutting 31% complete, 51% 1991, 25% avg. Quality of hay made 2% poor, 33% fair, 65% good. Feed from pastures 3% poor, 43% fair, 54% good. Peaches 0% pink, 0% 1991, 1% avg.; 100% full bloom or past, 100% 1991, 99% avg. Cherries 4% pink, 0% 1991, 1% avg.; 96% full bloom or past, 100% 1991, 99% avg. Apples 1% pink, 0% 1991, 3% avg.; 99% full bloom or past, 100% 1991, 97% avg. Activities: Spraying corn, small grains; spring plowing; planting; hauling manure; spreading fertilizer; maintaining machinery; cutting haylage; cutting, baling hay; caring for livestock.

PUERTO RICO: Standard Data Not Available. National Weather Service reports indicated that weekly rainfall exceeded 4.00 in. at San Juan, and that on the 26th, flooding and landslides closed several roads in Loiza.

SOUTH CAROLINA: Temperatures 2 to 4° below normal central, coastal areas to 8° below normal in the north. Average rainfall 0.50 in.

Days suitable for fieldwork 5.3. Soil moisture 61% short, 39% adequate. Tobacco fair; corn fair to good; cotton fair to good; 97% planted, 93% 1991, 95% avg. Soybeans 33% planted, 28% 1991, 38% avg. Peaches fair; 3% harvested, 4% 1991, 7% avg. Watermelons fair to good; 92% planted, 91% 1990, 93% avg. Cantaloupes fair to good; 88% planted, 86% 1991, 88% avg. Cucumbers fair to good; 92% planted, 94% 1991, 93% avg. Snap beans fair to good; 79% planted, 75% 1991, 85% avg. Oats fair to good; 92% turning color, 94% 1991, 90% avg.; 50% ripe, 68% 1991, 55% avg.; 8% harvested, 18% 1991, 16% avg. Wheat fair to good; 86% turning color, 96% 1991, 91% avg.; 36% ripe, 74% 1991, 54% avg. Rye fair to good; 82% turning color, 87% 1991, 84% avg.; 53% ripe, 65% 1991, 48% avg.; 9% harvested, 17% 1991, 11% avg. Barley fair to good; 84% turning color, 85% 1991, 79% avg.; 25% ripe, 50% 1991, 38% avg. Grain hay fair to good; 72% harvested, 68% 1991, 78% avg. Peanuts fair to good; 95% planted, 97% 1991, 91% avg. Sorghum 34% planted, 42% 1991, 44% avg. Pastures fair to good. Some concern about short soil moisture.

SOUTH DAKOTA: Temperatures 4 to 10° below normal. Extremes 21°; 83°. Precipitation 0.50 in. in the far west; a concentrated area in the east received up to 1.00 in. Maximum 1.08 in.

Days suitable for fieldwork 5.7. Topsoil 39% critical, 40% short, 21% adequate. Subsoil 39% critical, 43% short, 18% adequate. Rye 9% very poor, 18% poor, 43% fair, 29% good, 1% excellent. Barley 2% very poor, 12% poor, 52% fair, 31% good, 3% excellent. Oats 3% very poor, 14% poor, 40% fair, 36% good, 7% excellent. Flax 2% very poor, 20% poor, 38% fair, 34% good, 6% excellent. Sunflowers 46% planted, 16% 1991, 33% avg. Flax 87% planted, 77% 1991, 75% avg. Statewide frost, dry conditions are reducing crop conditions. Livestock 10% fair, 76% good, 14% excellent. Pasture 71% of normal, little growth due to dry conditions. Water supplies continue to be short in the west. Cattle moved to pasture 85%.

TENNESSEE: Temperatures 10 to 15° below normal statewide. Rainfall 0.50 in. above normal west, middle; 0.50 in. below normal east.

Days suitable for fieldwork 4.8. Soil moisture 9% very short, 39% short, 44% adequate, 8% surplus. Corn 100% planted, 77% 1991, 91% avg. Cotton 100% planted, 48% 1991, 86% avg. Sorghum 92% planted, 24% 1991, 62% avg. Soybeans 44% planted, 6% 1991, 31% avg. Tobacco 72% transplanted, 56% 1991, 61% avg.; 1% very poor, 33% fair, 65% good, 1% excellent. Wheat 78% turning color, 81% 1991, 70% avg.; 1% very poor, 2% poor, 39% fair, 55% good, 3% excellent. Alfalfa 82% 1st cutting, 62% 1991, 83% avg. Hay 2% very poor, 15% poor, 56% fair, 24% good, 3% excellent. Cattle 2% poor, 22% fair, 72% good 4% excellent.

TEXAS: Cold, moist airmass dominated. Heavy rains in many parts of State, especially south Texas. Heavy rains many locations were combined with a chill for a few days. Rice belt had temperatures in the 50s which affected young rice, added to the problems for cotton development. Temperatures were all below normal, reflecting the cool air mass that moved southward last week. High Plains, Rolling Plains furthest below normal. Rolling Plains 16° below normal. Upper Coast had temperature departure of -4°. On the other hand, the rainfall totals were all above normal. Greatest departure was south Texas where the weekly total was +1.78 in. above normal for this time of year.

Crops: Small grain harvest slowed by the wet conditions. In the Blacklands excess moisture reduced oats, wheat yields, caused some seed sprouting in the heads. Some fields had heavy lodging from rain, high winds. On the Plains maturity slowed by cool temperatures. Corn fields developing well with ample moisture, there is some concern with northern leaf blight, rust in South Central Texas, Coastal Bend. On the Plains, some fields lost to hail damage. Grain sorghum planting slowed another week by wet fields. Most planted fields benefited from moisture over the past few weeks, planting interrupted. In Concho County, wireworms causing some problems. Some fields on the Plains received hail damage. Cotton planting slowed another week by wet conditions. Cool, wet conditions slowed germination and early plant growth. On the Plains isolated hail damaged some young plants. Concern about widespread seedling disease due to the cool, wet conditions, extent of damage not determined. Rice planting completed along the Upper Coast. Armyworms caused damage in some fields. Peanut planting delayed by wet conditions. Heavy rain, hail caused some problems to emerged plants. Soybean planting halted in the Blacklands by wet conditions. Few fields planted in Rio Grande Valley.

Commercial Vegetables: In the Rio Grande Valley, onion harvest discouraged because of low prices. Melon harvest continued as conditions allowed. In East Texas, a few fields of tomatoes, peppers harvested. Cool, wet conditions slowed vegetative growth. Insect, disease problems increasing. In the High Plains, onions progressing well. Some areas had hail damage. In Trans Pecos, chili peppers growing good; however thrip damage some areas. Early peach varieties ripened, harvest continued where conditions allowed. Insect and disease problems increased. Pecan trees made good progress. Scabs continued to be a major concern with the wet conditions. Casebearer insects emerged in some areas. Spraying continued where conditions permitted.

Range and Livestock: Ranges, pastures provided ample forage for livestock, new growth slowed by cool temperatures. Young calves growing well. Marketing of cattle slowed by the wet conditions.

UTAH: Temperature maximums 1° less than normal; minimums 4° above normal. Moderate precipitation all divisions except north central, light.

Days suitable for fieldwork 5.8. Soil moisture 75% short, 25% adequate. Spring wheat jointed or better 89%, 47% 1991; booted or better 63%, 18% 1991; headed or better 25%, 2% 1991. Barley jointed or better 93%, 60% 1991; booted or better 69%, 42% 1991; headed or better 38%, 7% 1991. Oats emerged 95%, 82% 1991; jointed or better 60%, 30% 1991; booted or better 39%, 8% 1991; headed or better 6%. Winter wheat jointed or better 99%, 53% 1991; booted or better 82%, 41% 1991, 64% avg.; headed or better 49%, 14% 1991. Corn planted 95%, 87% 1991; emerged 85%, 41% 1991, 71% avg.; height 6 in. Alfalfa 1st cutting 39% complete, 5% 1991. Other hay cut 4%. Some cherries reported to be harvested 1st week June. Cattle moved to spring pasture 70%, 46% 1991, 56% avg. Sheep moved to spring pasture 59%, 25% 1991. Pasture, range good to excellent.

WASHINGTON: Temperatures 4 to 6° above normal west; 3 to 8° above normal east. Precipitation 0.07 to 0.48 in. west; none to 0.56 in. east.

Days suitable for fieldwork 6.7. Soil moisture 75% short, 25% adequate. Hay, other roughage 13% short, 77% adequate, 10% surplus. Range, pasture 53% very poor, 35% poor, 12% fair. Winter wheat 44% poor, 42% fair, 14% good; 60% headed, 50% 1991, 44% avg. Winter barley 40% poor, 52% fair, 8% good. Potatoes 100% planted, 100% 1991, 100% avg.; 88% emerged, 86% 1991, 88% avg. Spring wheat 100% emerged, 97% 1991, 99% avg.; 35% headed, 14% 1991, 16% avg. Barley emerged 100%, 98% 1991, 100% avg.; 35% headed, 22% 1991, 24% avg. Corn 96% planted, 85% 1991, 90% avg. Dry beans 70% planted, 64% 1991, 78% avg. Alfalfa hay first cut 60% complete, 32% 1991, 37% avg. Moisture stress to crops continues to intensify. Dry conditions had crops showing visible signs of moisture stress. Continued lack of moisture will become critical next 10 to 14 days. Eastside received limited precipitation, seasonal accumulations remain well below normal. Grain outlook still normal to date, is falling. Warm temperatures, wind have burned plants. Shallow seeded areas

drying, turning brown. Potatoes rapidly growing, harvest expected early. Rains needed for second cut of alfalfa. Cherries sizing well despite full crop. Harvest expected shortly, major areas. Strawberries ripe west; growers at peak of harvest. Asparagus harvest winding down. Pastures, ranges running out due to lack of moisture.

WEST VIRGINIA: Temperature 54°. Extremes 26°; 73°. Precipitation 1.18 in.

Days suitable for fieldwork 3.8. Soil moisture, 28% short, 64% adequate, 8% surplus. Tobacco, good; 100% planted, 100% emerged, 85% set. Gardens, fair to good; 67% planted, 50% emerged. Wheat, good, 65% jointed, 50% headed. Barley, excellent, 91% headed. Corn, good; 77% planted, 61% emerged. Oats, good; 60% planted, 57% emerged. Hay, 22% poor, 24% fair, 36% good, 18% excellent, 13% first cut. Apples, good. Peaches, good. Pastures, 15% poor, 8% fair, 54% good, 23% excellent; 85% of normal. Hay feed supplies, adequate. Other feed supplies, adequate. Cattle, 8% poor, 2% fair, 87% good, 3% excellent. Sheep, 4% poor, 1% fair, 95% good. Farm activities: General maintenance, planting soybeans, cutting hay, setting tobacco, fencing, fertilizing, working cattle.

WISCONSIN: Temperature 54°; 6° below normal. Extremes 23°; 87°. Frost many areas. Precipitation none to 0.20 in.

Days suitable for fieldwork 6.9. Soil moisture 44% short, 52% adequate, 4% surplus. Pasture 77% of normal, 89% 1991, 79% avg. General condition of crops 6% poor, 41% fair, 52% good, 1% excellent. Oats 1% very poor, 7% poor, 30% fair, 57% good, 5% excellent. Corn 95% planted, 87% 1991, 91% avg.; 1% very poor, 10% poor, 41% fair, 46% good, 2% excellent. Corn height 4 in., 4 in. 1991, 4 in. avg. Soybeans 86% planted, 69% 1991, 67% avg. First crop hay 10% harvested, 6% 1991, 8% avg. Winter wheat 47% very poor, 27% poor, 20% fair, 6% good.

WYOMING: Temperatures normal to slightly below normal across State with the exception of the west-central areas, where temperatures were slightly above normal. Precipitation over most of the State with exception of northeast.

Days suitable for fieldwork 4.9. Topsoil 39% short, 51% adequate, 10% surplus. Spring wheat 97% emerged, 81% 1991, 88% avg.; 31% jointed not in boot, 8% boot. Oats 87% emerged, 80% 1991, 81% avg.; 27% jointed not in boot, 2% boot. Barley 94% emerged, 90% 1991, 92% avg.; 39% jointed not in boot, 8% boot. Sugarbeets 88% emerged, 80% 1991, 92% avg. Corn 97% planted, 78% 1991, 88% avg.; 58% emerged, 51% 1991, 52% avg. Potatoes 79% planted, 91% 1991, 80% avg.; 54% emerged, 37% 1991, 49% avg. Dry beans 44% planted, 29% 1991, 43% avg.; 2% emerged, 7% 1991, 13% avg. Winter wheat 33% emerged not jointed, 29% jointed not in boot, 20% boot, 18% headed. Current winter wheat 16% poor, 84% fair. Sugarbeet acreage thinned 17%. Irrigation water supplies 67% short, 33% adequate. Cattle 10% fair, 87% good, 3% excellent. Calves 2% poor, 6% fair, 89% good, 3% excellent. Sheep 2% poor, 6% fair, 89% good, 3% excellent. Lambs 8% fair, 89% good, 3% excellent. Range livestock moved to summer ranges: Cattle, calves 62%; sheep, lambs 60%. Stockwater supplies 61% short, 39% adequate.

May 1992

MONTHLY DATA FROM SELECTED FOREIGN CITIES
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA

*** = DATA NOT AVAILABLE

International Weather and Crop Summary

HIGHLIGHTS

May 24 - 30, 1992

FSU: Although widespread rain in Ukraine and North Caucasus benefits crop growth, excessive rain in eastern Ukraine causes local flooding. In the New Lands, spring grain planting nears completion.

EUROPE: Beneficial rain for summer crops falls in the west and southeast.

EASTERN ASIA: Topsoils are becoming dry in the north and northeast as summer crop planting progresses.

SOUTHEAST ASIA: Dry pockets persist in central and northern Thailand. Showers finally reach the northern Philippines.

SOUTH ASIA: Beneficial showers in the south and east improve topsoil moisture for summer crop germination.

SOUTH AMERICA: Heavy rains cause flooding in southern Brazil. Continued dry weather favors fieldwork across Argentina.

AUSTRALIA: Rain aids topsoil moisture for winter grains.

CANADA: Cool, wet weather improves moisture for germination but slows fieldwork.

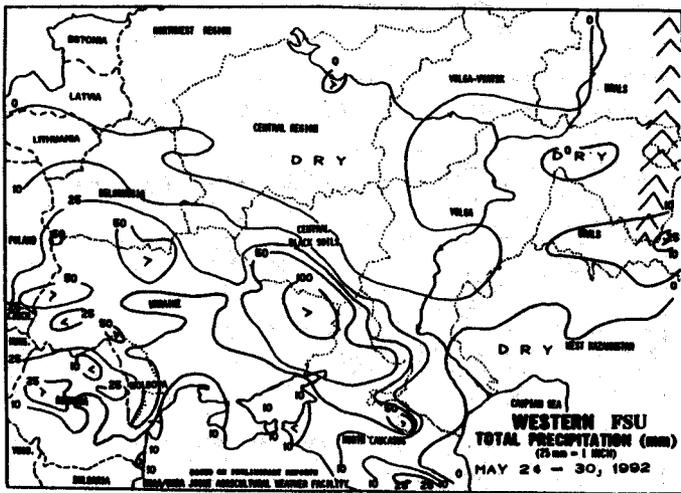
MEXICO: Favorable soil moisture exists throughout the country.

COUNTRY	CITY	TEMPERATURE					PRECIPITATION		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG DPART	F/NRM	TOTAL	DPART F/NRM
NORWAY	OSLO	19	6	27	-3	12	3.4	54	-8
SWEDEN	STOCKHOLM	20	8	29	0	14	3.5	12	-19
FINLAND	HELSINKI	17	5	27	1	11	1.9	19	-15
U KING	GLASGOW	17	8	27	-1	12	0.8	79	8
	EDINBURGH	15	7	29	1	11	1.1	23	-28
	BIRMINGHAM	19	8	26	0	14	2.8	78	23
	LONDON	20	9	26	0	14	3.3	32	-24
IRELAND	DUBLIN	16	9	20	3	12	1.8	40	-18
ICELAND	REYKJAVIK	8	3	13	-5	6	-0.7	75	35
DENMRK	COPENHAGEN	18	8	25	2	13	1.2	6	-36
LUXEMB	LUXEMBOURG	20	10	29	3	15	2.6	60	-7
SWITZL	ZURICH	20	10	27	4	15	2.8	27	-75
	GENEVA	21	11	29	2	16	2.5	57	-12
FRANCE	PARIS/ORLY	22	11	31	5	17	***	97	**
	STRASBOURG	23	11	31	3	17	3.0	29	-34
	BOURGES	23	10	31	3	16	2.7	61	-11
	BORDEAUX	24	12	34	6	18	3.6	47	-23
	TOULOUSE	23	12	32	6	17	2.7	65	-8
	MARSEILLE	24	14	29	8	19	2.3	52	9
SPAIN	VALLADOLID	24	10	33	3	17	3.3	40	-4
	MADRID	26	11	32	4	19	2.1	35	-5
GERMNY	LEIPZIG	**	**	**	*	**	***	**	**
	DRESDEN	**	**	**	*	**	***	**	**
	HAMBURG	19	9	28	0	14	2.4	41	-14
	BERLIN	20	10	27	4	15	1.7	24	-29
	DUSSELDORF	22	11	31	3	17	2.6	39	-21
	STUTTGART	21	9	28	2	15	2.0	34	-46
	NURNBERG	22	9	28	2	15	2.4	27	-33
	MUNICH	19	9	26	4	14	1.9	7	-93
AUSTRI	VIENNA	21	9	25	5	15	0.0	49	-13
	INNSBRUCK	23	9	29	4	16	2.4	11	-75
CZECH	PRAGUE	20	8	25	4	14	1.4	33	-34
POLAND	WARSAW	19	8	27	1	14	0.7	26	-26
	LODZ	19	8	26	2	14	0.7	14	-37
	KATOWICE	19	7	25	3	13	-0.1	32	-37
	PRZEMYSL	18	8	23	4	13	0.2	12	-58
HUNGAR	BUDAPEST	23	11	28	6	17	0.8	16	-32
YUGOSL	SARAJEVO	**	**	**	*	**	***	**	**
ROMANI	BUCHAREST	22	8	28	2	15	-1.6	33	-38
BULGAR	SOFIA	19	8	27	4	14	-0.8	56	-26
ITALY	MILAN	24	14	30	10	19	2.7	34	-53
	VERONA	26	13	33	10	19	2.4	27	-55
	VENICE	24	15	28	10	19	2.3	38	-33
	GENOA	24	17	31	12	20	2.6	14	-94
	ROME	24	13	29	8	19	1.3	7	-31
	NAPLES	24	14	28	10	19	2.1	4	-48
GREECE	THESSALONIKA	23	12	29	8	17	-2.1	49	-1
	LARISSA	23	11	30	5	17	-2.8	56	15
	ATHENS	23	15	26	13	19	-2.1	41	20
TURKEY	ISTANBUL	20	11	26	6	15	-0.5	21	-9
	ANKARA	21	6	27	-1	13	-3.5	6	-36
CYPRUS	LARNACA	25	15	32	11	20	-0.5	48	37
FSU	TALLINN	16	6	24	0	11	2.1	37	0
	LENINGRAD	16	7	25	3	11	1.1	27	-11
	KAUNAS	18	7	24	2	13	0.5	30	-23
	MINSK	17	8	24	4	13	0.3	51	-11
	KAZAN	16	5	26	-1	11	-2.3	36	-2
	MOSCOW	17	6	26	0	12	-0.8	33	-28
	SVERDLOVSK	15	3	27	-7	9	-2.2	24	-18
	OMSK	19	6	32	-3	13	0.5	28	1
	KUSTANAY	18	5	30	-7	12	-2.5	23	0
	KRASNOYARSK	18	7	31	-5	13	3.7	17	-26
	NOVOSIBIRSK	18	7	32	-5	13	3.2	13	-20
	BARNAUL	19	8	33	-4	14	1.8	16	-20
	KHABAROVSK	18	6	30	-1	12	0.3	93	31
	VLADIVOSTOK	14	8	22	5	11	1.4	72	-2
	KIEV	19	9	25	5	14	-0.8	72	21
	LVOV	17	7	24	2	12	-0.7	97	25
	KIROVOGRAD	20	7	26	3	14	-1.5	58	10
	ODESSA	19	11	26	5	15	0.1	34	-10

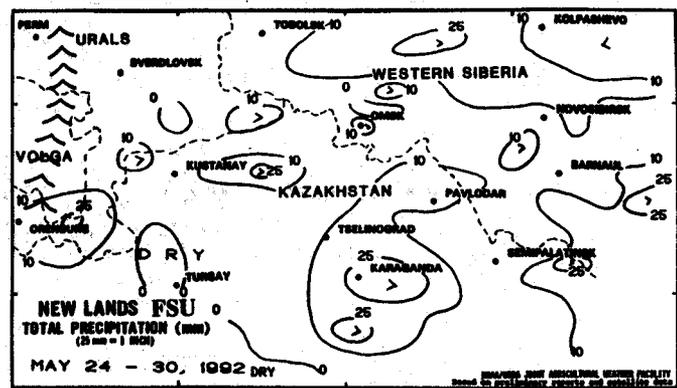
Based on Preliminary Reports

May 1992

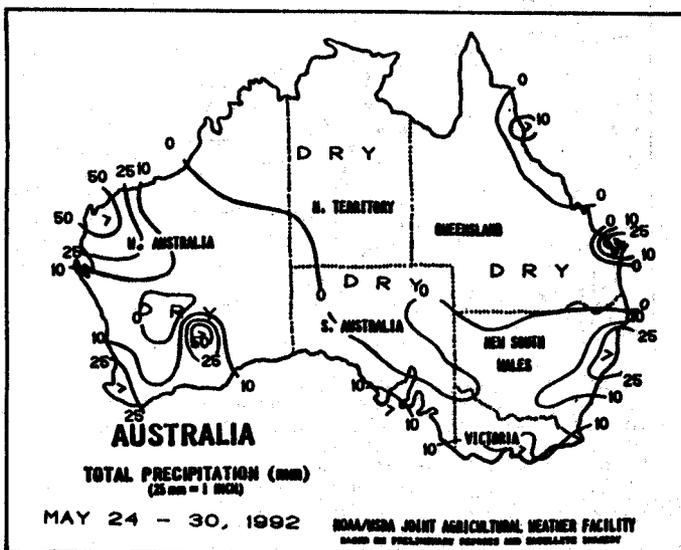
COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)										
		AVG	AVG	HI	LO	DPART	AVG	DPART			AVG	AVG	HI	LO	DPART	AVG	DPART									
		MAX	MIN	MAX	MIN	F/NRM	TOTAL	F/NRM			MAX	MIN	MAX	MIN	F/NRM	TOTAL	F/NRM			MAX	MIN	MAX	MIN	F/NRM	TOTAL	F/NRM
FSU	YALTA	19	12	23	8	16	-0.6	27	2	TANZAN	DAR ES SALAAM	30	22	32	19	26	0.3	273	108							
	VORONEZH	19	8	25	2	13	-1.2	7	-4	GABON	LIBREVILLE	29	24	31	21	27	-0.1	215	-53							
	SARATOV	18	9	24	1	14	-1.3	33	-10	TOGO	LOME	31	25	33	22	28	1.1	244	96							
	KHARKOV	18	8	25	1	13	-2.2	81	34	B FASO	OUGADOUGOU	37	26	41	22	31	0.0	23	-63							
	VOLGOGRAD	19	8	27	-2	14	-3.2	15	-17	IVRY C	ABIDJAN	31	25	32	23	28	0.8	377	55							
	ROSTOV	20	10	26	4	15	-2.1	84	35	MOZAMB	MAPUTO	29	17	35	12	23	2.0	4	-25							
	ASTRAKHAN	22	11	30	1	16	-2.1	31	11	ZAMBIA	KAEWE	26	13	30	2	19	1.6	12	7							
	KRASNODAR	21	10	27	4	15	-1.9	91	28	ZIMBAB	HARARE	24	12	27	10	18	2.5	4	-8							
	ORENBURG	20	6	30	-2	13	-3.0	30	2	S AFRI	PRETORIA	24	8	28	4	16	2.4	0	-21							
	TSELINOGRAD	18	8	31	-5	13	0.3	40	13		KROONSTAD	23	1	28	-5	12	-0.2	0	-23							
	KARAGANDA	18	7	31	-9	12	-1.0	45	14		JOHANNESBURG	21	6	24	-1	14	1.4	0	-21							
	TBILISI	22	11	37	2	16	-1.6	75	-4		BETHAL	22	1	25	-4	11	-0.4	0	-19							
	TASHKENT	23	12	31	2	17	-2.8	81	36		DURBAN	27	13	35	7	20	1.3	1	-56							
	ASHKHABAD	25	13	36	2	19	-4.3	70	42		CAPE TOWN	19	9	30	2	14	0.1	50	-26							
SYRIA	DAMASCUS	28	10	37	3	19	-2.1	7	1	CANADA	TORONTO	18	6	30	1	12	0.1	70	4							
ISRAEL	JERUSALEM	24	12	39	7	18	-1.6	6	2		MONTREAL	20	7	29	-1	13	0.2	56	-10							
PAKIST	KARACHI	36	27	42	23	31	0.7	0	0		WINNIPEG	20	5	34	-3	13	1.3	20	-46							
INDIA	AMRITSAR	36	21	41	16	28	-1.8	39	25		REGINA	19	4	33	-3	11	0.3	32	-14							
	NEW DELHI	38	27	43	22	32	-0.6	1	-16		SASKATOON	17	4	32	-1	10	-0.7	46	7							
	AHMEDABAD	42	27	44	25	35	0.7	0	-6		LEATHERIDGE	20	5	31	-4	12	1.2	15	-36							
	INDORE	41	24	48	5	32	0.0	13	4		CALGARY	16	3	28	-3	10	0.1	46	-3							
	CALCUTTA	35	25	40	19	30	-1.7	261	178		EDMONTON	16	5	28	-3	10	-1.0	25	-18							
	VERAVAL	32	27	40	24	29	0.7	0	-2		VANCOUVER	18	9	25	4	14	1.4	16	-36							
	BOMBAY	33	26	35	17	30	-0.1	0	-20	MEXICO	GUADALAJARA	29	13	32	-3	21	-2.7	72	45							
	POONA	38	23	40	17	30	0.2	1	-45		MEXICO CITY	23	12	27	10	18	-0.7	212	160							
	BEGAMPET	40	26	42	21	33	0.7	55	17		ACAPULCO	34	25	36	22	30	1.4	0	-31							
	MADRAS	38	28	43	23	33	-0.2	19	-26	BERMUD	ST. GEORGES	25	21	27	16	23	1.5	112	10							
	MANGALORE	34	25	36	20	29	0.1	128	-105	BAHAMA	NASSAU	29	21	32	15	25	-0.6	34	-83							
H KONG	HONG KONG	27	24	31	20	25	-0.7	602	299	CUBA	HAVANA	28	22	32	18	25	-0.6	11	-104							
N KREA	PYONGYANG	20	9	29	1	14	0.0	139	62	JAMAIC	KINGSTON	32	24	33	21	28	0.7	60	-36							
S KREA	SEOUL	22	12	30	7	17	0.7	153	67	P RICO	SAN JUAN	31	24	33	22	27	0.7	222	73							
JAPAN	SAPPORO	16	8	24	4	12	0.3	58	-2	GUADEL	RAIZET	31	24	33	23	27	1.3	111	16							
	NAGOYA	23	13	29	9	18	-0.2	154	-8	MARINQ	LAMENTIN	31	24	32	22	27	1.6	65	-39							
	TOKYO	21	14	28	9	18	-0.8	139	-9	BARBAD	BRIDGETOWN	30	25	31	17	27	0.1	108	53							
	YOKOHAMA	21	14	27	9	17	-0.5	173	9	TRINID	PORT OF SPAIN	32	24	35	23	28	1.5	53	-57							
	KYOTO	23	13	29	8	18	0.3	187	44	COLOMB	BOGOTA	19	9	22	6	14	0.6	78	-7							
	OSAKA	23	15	27	11	19	-0.1	191	50	VENEZU	CARACAS	32	25	35	23	29	2.0	20	-13							
THAIIN	PHETCHABUN	37	26	40	23	31	1.8	62	-89	F GUIA	CAYENNE	30	23	32	22	27	1.2	364	-221							
	BANGKOK	37	27	39	24	32	2.2	80	-105	BRAZIL	FORTALEZA	29	24	31	22	26	-0.4	80	-204							
MALAYS	KUALA LUMPUR	33	24	34	22	29	1.6	358	161	RECIFE		28	22	29	20	25	0.1	137	-175							
VIETNM	HANOI	31	25	38	21	28	0.4	147	-48	BELO H	HORIZONTE	27	18	29	13	22	2.8	11	-14							
CHINA	HARBIN	21	7	32	-2	14	0.1	38	0	CAMPO	GRANDE	28	19	31	13	23	2.9	245	164							
	HAMI	27	11	35	3	19	-1.4	1	-1	FRANCA		25	17	27	13	21	2.6	30	-10							
	LANCHOW	22	12	28	7	17	0.2	30	-6	LONDRINA		24	15	29	12	20	1.5	271	181							
	BEIJING	26	15	36	10	20	0.3	52	19	SANTA	MARIA	21	13	31	2	17	0.1	158	-5							
	TIENTSI	26	14	37	9	20	0.1	12	-19	PERU	LIMA	25	19	29	16	22	3.7	0	-1							
	LHASA	18	5	25	1	12	-0.8	33	11	BOLIVI	LA PAZ	16	-1	18	-3	8	-0.4	0	-14							
	KUNMING	25	14	29	10	20	0.6	58	-35	CHILE	SANTIAGO	16	7	21	1	11	0.3	77	33							
	CHENGCHOW	27	15	36	9	21	-0.5	146	103	ARGENT	IGUAZU	23	15	29	6	19	***	332	**							
	YEHCHANG	27	18	32	6	22	0.9	267	131	FORMOSA		24	17	31	8	21	1.9	49	-68							
	HANKOW	27	19	33	15	23	1.3	142	-20	CERES		20	11	25	-1	16	-0.5	18	-14							
	CHIHKIANG	24	18	31	14	21	-0.1	233	-2	CORDOBA		20	8	29	-3	14	-0.4	20	-3							
	SHANGHAI	25	17	32	12	21	***	54	**	RIO CUARTO		18	7	25	-1	13	-0.5	57	32							
	NANCHANG	26	20	32	16	23	0.4	226	-76	ROSARIO		19	9	26	-3	14	0.5	40	-5							
	TAIPEI	27	21	32	16	24	-0.2	226	7	BUENOS	AIRES	18	9	26	-2	13	0.6	127	50							
	CANTON	29	23	33	21	26	-0.1	306	31	SANTA	ROSA	16	6	22	-5	11	-0.1	65	42							
	NANNING	30	23	34	19	26	0.1	221	34	N CALD	NOUMEA	26	20	30	17	23	0.5	49	-46							
CNRY I	LAS PALMAS	23	17	26	15	20	0.3	0	-3	FIJI	NAUSORI	26	22	29	17	24	-0.4	189	-70							
MOROCC	CASABLANCA	25	17	35	10	21	2.6	2	-17	SAMOA	PAGO PAGO	30	26	31	24	28	1.3	323	42							
	MARRAKECH	30	16	37	10	23	2.6	8	-14	TAHITI	PAPEETE	31	23	33	21	27	1.5	30	-76							
ALGERI	ALGER	24	13	29	8	18	0.3	62	27	N ZEAL	AUCKLAND	16	10	19	3	13	-1.3	84	-34							
	BATNA	23	9	33	-2	16	-0.2	83	44	PA N G	PORT MORESBY	31	24	32	23	27	0.6	14	-51							
TUNISI	TUNIS	26	13	38	9	19	0.5	35	9	AUSTRL	DARWIN	32	24	34	20	28	1.1	1	-23							
NIGER	NIAMEY	39	28	42	25	34	0.2	23	-13		MOREE	21	10	26	2	16	0.6	15	-24							
MALI	TIMBUKTU	41	25	44	21	33	-1.0	0	-5		BRISBANE	22	15	26	10	18	-0.3	79	-3							
	BAMAKO	37	26	40	21	32	0.8	30	-25		PERTH	20	10	25	6	15	-0.8	72	-37							
MAURIT	NOUAKCHOTT	33	20	42	16	27	0.7	0	0		CEDUNA	19	9	31	3	14	-0.4	36	-8							
SENEGL	DAKAR	26	21	31	19	23	0.3	1	0		ADELAIDE	17	10	24	4	13	-0.6	69	5							
CHAG A	DIEGO GARCIA	30	26	31	25	28	0.7	158	-32		MELBOURNE	16	8	23	4	12	-0.2	52	-5							
LIBYA	TRIPOLI	27	15	39	8	21	-0.8	3	-2		WAGGA	17	7	23	0	12	0.3	23	-32							
	BENGHAZI	26	16	36	9	21	-1.7	3	0		CANBERRA	15	4	21	-2	10	0.8	37	-9							
EGYPT	CAIRO	31	18	40	13	24	-0.6	0	-2	PHILIP	MANILA	34	25	37	22	30	0.2	129	5							
	ASWAN	38	24	44	14	31	-0.5	0	0																	
ETHIOP	ADDIS ABABA	26	10	29	6	18	-0.6	55	-22																	
KENYA	NAIROBI	25	14	27	8	19	-0.1	35	-92																	



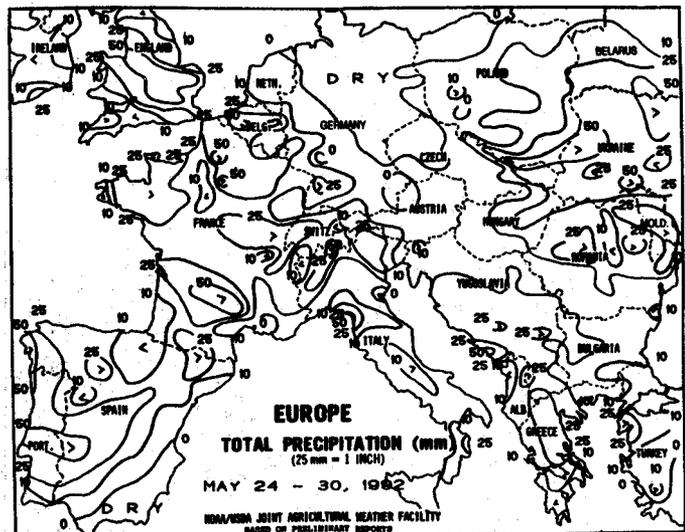
FSU: In western crop areas of the former Soviet Union (FSU), winter grains were heading in southern Ukraine and North Caucasus and jointing over remaining crop areas. Spring grains were in the jointing stage while corn, sunflowers, and sugar beets ranged from emergence to early vegetative growth. Widespread rain covered Ukraine and North Caucasus, interrupting final summer crop planting efforts. Although the rain (precipitation amounts ranging from 13 to 80 mm) was mostly beneficial to crop growth, moderate to excessive rain in eastern Ukraine (precipitation in excess of 100 mm) likely caused some flooding. Further north, dry weather covered the Baltic States, Central Region, Black Soils Region, Volga, and Volga Vyatsk. While moisture supplies over most of these areas were adequate to meet increasing crop water requirements, persistent dryness in the eastern Black Soils Region and western Volga has diminished moisture reserves, increasing stress on crops. Average temperatures were 4-6 degrees Celsius (C) below normal in Ukraine, and 2-4 degrees C below normal over the remainder of the region.



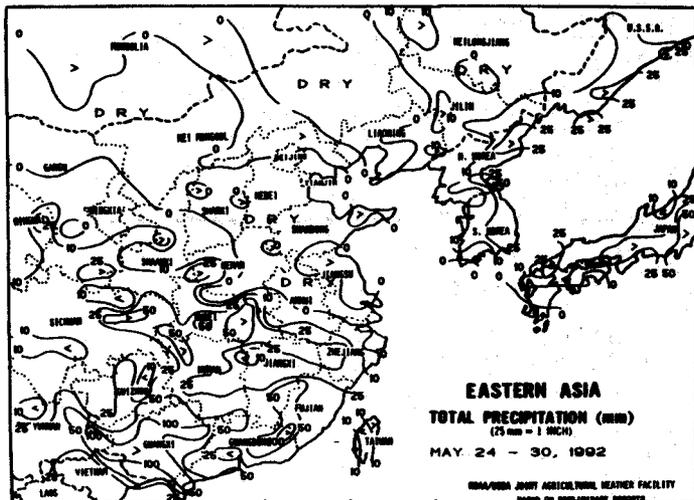
In the **New Lands**, cooler weather covered spring grain areas, accompanied by light precipitation (1-15 mm), with localized amounts in excess of 20 mm). Spring grain planting is usually complete in southern areas and nearing completion in the north. Average temperatures were 3-6 degrees C below normal, slowing crop emergence and early growth. In South Central FSU cotton areas, dry weather covered most of Uzbekistan, while light showers (7-21 mm) covered cotton in Turkmenistan and Tajikistan. Unseasonably cool weather (average temperatures ranging 2-4 degrees C below normal) slowed early crop growth.



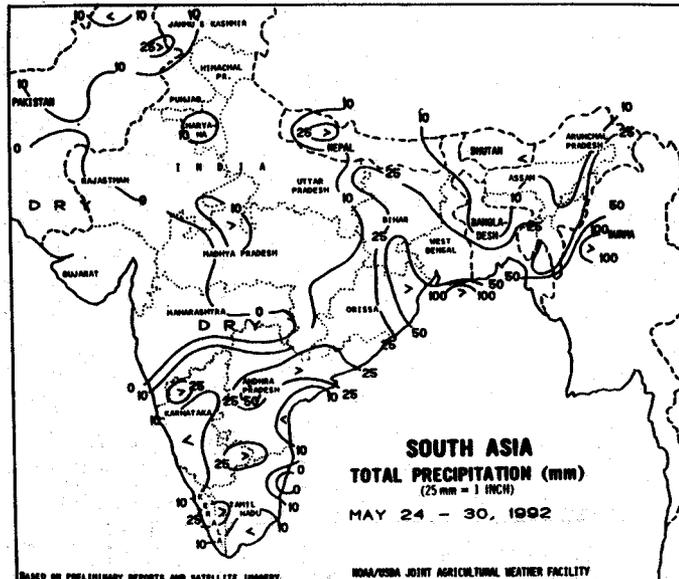
AUSTRALIA: Light rain (1-21 mm) fell across the major winter grain areas of the country, favoring topsoil moisture. Winter wheat planting should be progressing on schedule. Interior areas of southern Queensland need moisture for pasture, which has not fully recovered from last year's drought. Temperatures averaged near normal across the winter grain regions.



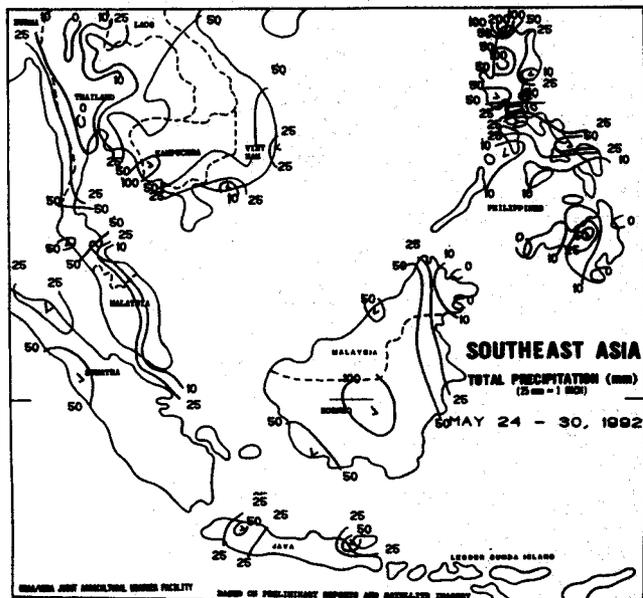
EUROPE: Several consecutive days of showery weather produced substantial rainfall in southern England, France, and much of the Iberian Peninsula. In England, 10-65 mm of rain benefited immature winter grains and newly sown summer crops. Similar rainfall over most of France was especially beneficial for corn and oilseed development, but winter grains in the south are filling to maturing. Substantial rain (25-79 mm) in western Spain and Portugal brought irrigation water for summer crops but disrupted winter grain harvesting. Variable rainfall covered much of the Mediterranean region, slowing early winter crop development. Some much needed moisture (10-30 mm) fell in eastern Hungary and northern Romania, where long-term moisture deficiencies have stressed winter grains and newly emerging summer crops. Dry weather prevailed again in north-central Europe. Temperatures generally averaged above normal in the west and below normal in the southeast.



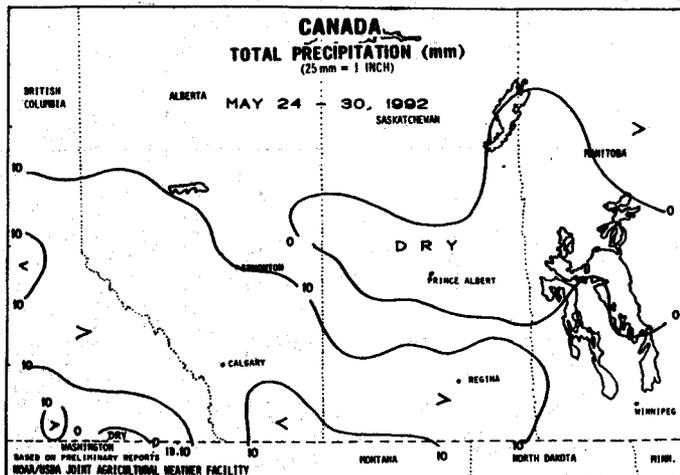
EASTERN ASIA: Little or no rain fell across the North China Plain, favoring summer crop planting, but topsoils are becoming dry for germination. Winter wheat should be entering the grain-filling stage and additional moisture would still be beneficial. A significant portion of the winter wheat crop is irrigated with estimates ranging from 50 to 75 percent. But yields should be below last year due to growing-season dryness. Manchuria received scattered light rain (3-16 mm), favoring corn and soybean germination. Topsoil moisture is diminishing across Heilongjiang (northern Manchuria). Scattered showers (24-88 mm) covered central and southern China, benefiting the lower Yangtze basin, which has been tending dry. Widespread heavy rains (106-172 mm) covered Guangxi, (southwestern China) causing some flooding. Moisture levels remained adequate to abundant across the south. Temperatures averaged 1-3 degrees C below normal across southern China and slightly above normal elsewhere.



SOUTH ASIA: Light to moderate showers (10-52 mm) covered much of India's southern interior, improving topsoil moisture for summer crop planting and germination. Beneficial, light to moderate rain (10-78 mm) also fell over primary rice areas from Orissa northward and eastward, improving planting prospects in rainfed areas. Rainfall elsewhere in India and Pakistan was generally light and widely scattered. Temperatures averaged near normal over southern and eastern India and below normal over central and northern India and Pakistan. However, periodic high temperatures (40-47 degrees C), mainly in areas that received the lightest rainfall, maintained stressful conditions. The southwest monsoon usually arrives in southern and eastern India by early June. While beneficial rains have reached these areas in recent weeks, the weather patterns associated with the monsoon are not fully established.



SOUTHEAST ASIA: Widespread, seasonable showers (25-100 mm) covered much of Indochina, but dry pockets persisted in central and northern Thailand and developed over southern and northernmost Vietnam. Thailand's northern rice and western corn areas have not received consistent rainfall, and temperatures have been consistently hotter than normal, threatening yield potential. Rainfall, usually diminishing this time of year, increased over Malaysia and Indonesia, with amounts of 25-50 mm or more in many primary crop areas. In the Philippines, much needed rain (25-50 mm or more) fell over most primary crop areas of Luzon. However, rainfall continued unfavorably light (10mm or less) elsewhere, worsening prospects for main-season rice, corn, and sugarcane.



CANADA: Light to moderate rain (5-23 mm) swept across the Prairies, improving moisture for germination in all but the eastern and northernmost crop areas but slowing fieldwork. Temperatures averaged near normal in western and northern crop areas and below normal in central and southern Saskatchewan and Manitoba. Freezing temperatures were reported daily until the 27th, causing some damage to newly emerged crops. However, the average date of the last spring frost ranges from late-May to early June. Dry, warmer weather is now needed to complete spring wheat planting and hasten germination. Crops planted after the optimal period (May-early June) are at higher risk of autumn freeze damage as well as the potential for summer heat during reproduction. In Ontario, cool weather prevailed, accompanied by mostly light showers (4-17 mm). Frost was limited to only isolated areas.

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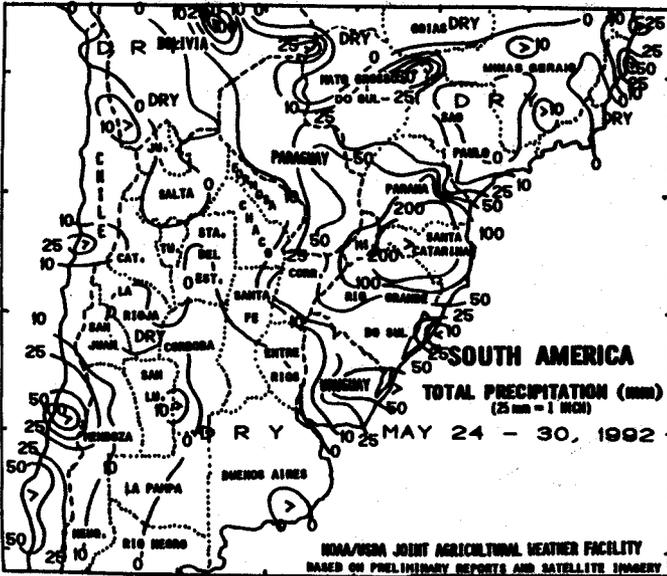
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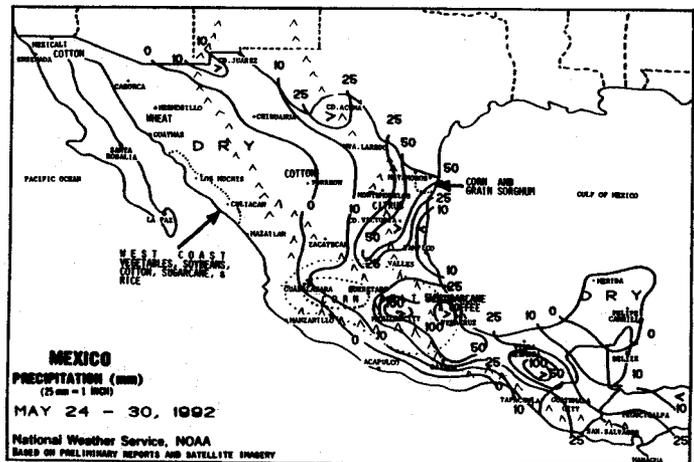
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SOUTH AMERICA: Late-week, extremely heavy rain (100-277 mm) fell across northern Rio Grande do Sul, Santa Catarina, and southern Parana, causing flooding and possible damage to vegetative winter wheat. The wheat crop still has time to recover. The majority of soybean harvesting should be completed. Dry weather prevailed across northern Sao Paulo and south-central Minas Gerais, aiding coffee and citrus harvesting. Dry weather continued across Argentina, aiding corn, cotton, and soybean harvesting and winter wheat planting.

Late in the week, minimum temperatures ranged from -2 to -4 degrees C across Buenos Aires and southern Santa Fe, ending the summer growing season. Southern Paraguay received moderate showers (28-54 mm), slowing cotton and soybean harvesting. Temperatures averaged 1-3 degrees C below normal across central Argentina and 2-3 degrees C above normal across southern Brazil.



MEXICO: Moderate to heavy showers (52-126 mm) fell across the eastern Southern Plateau corn belt, favoring germinating corn. Moderate showers (14-64 mm) across the northeast delayed citrus harvesting, but aided soil moisture for summer grains. The main-season rains have started across the southern portions of the country.

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