

# WEEKLY WEATHER AND CROP BULLETIN

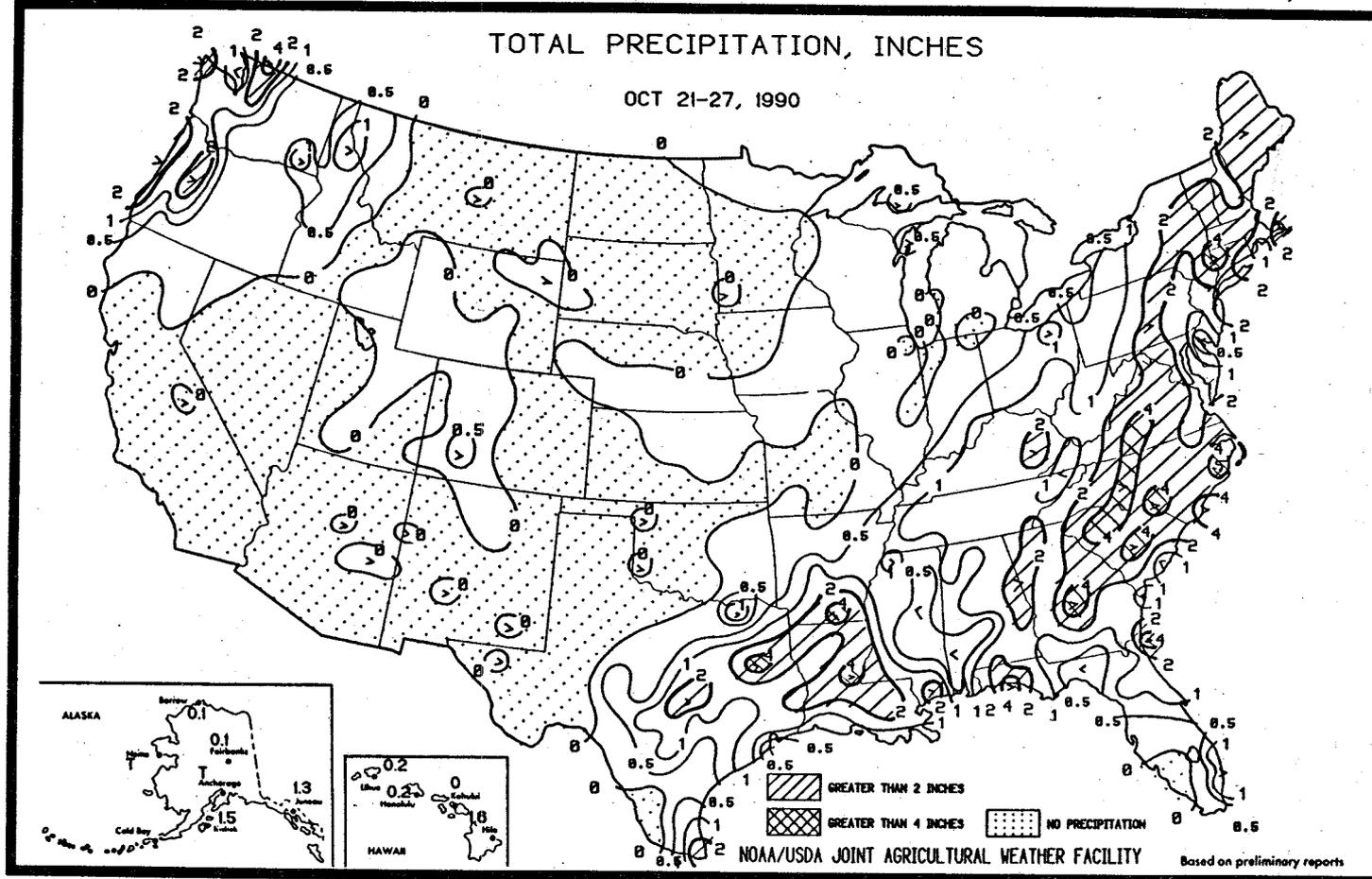
U.S. DEPARTMENT OF COMMERCE  
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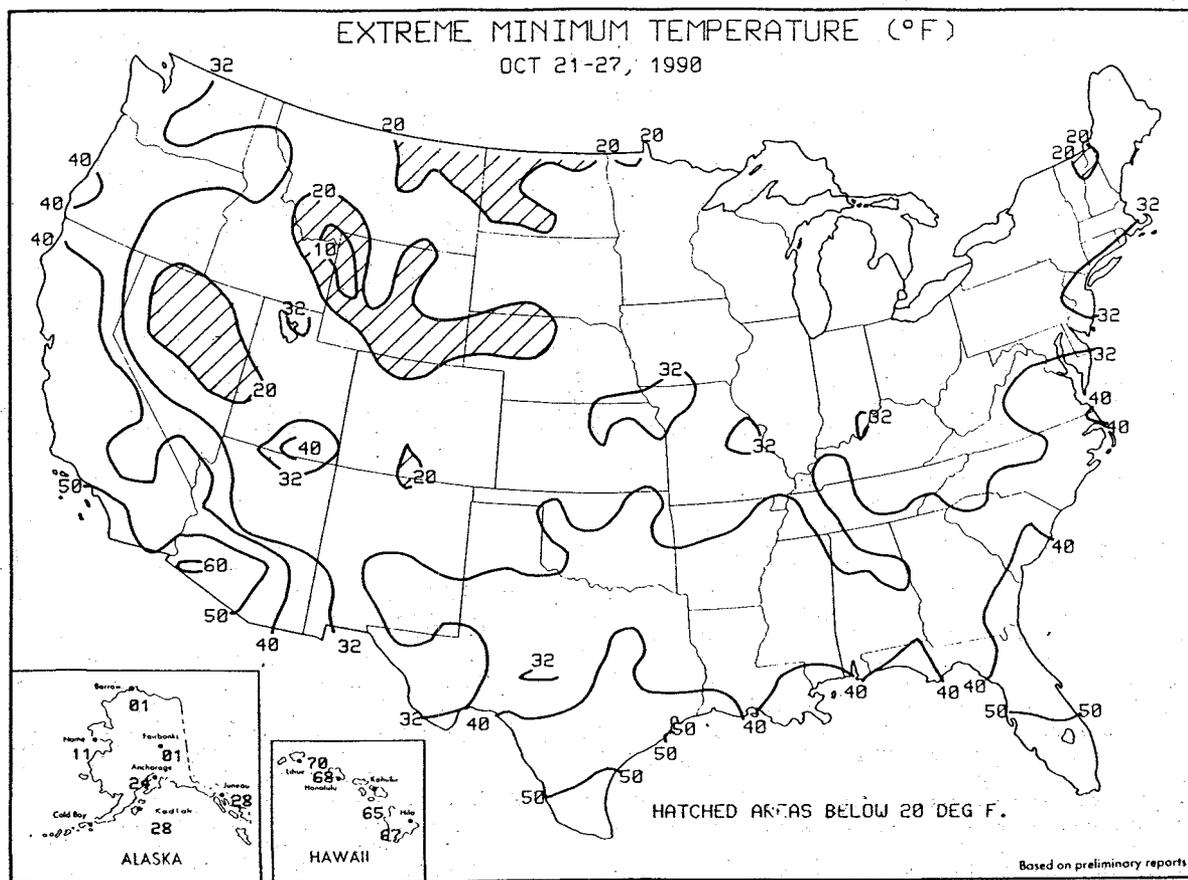
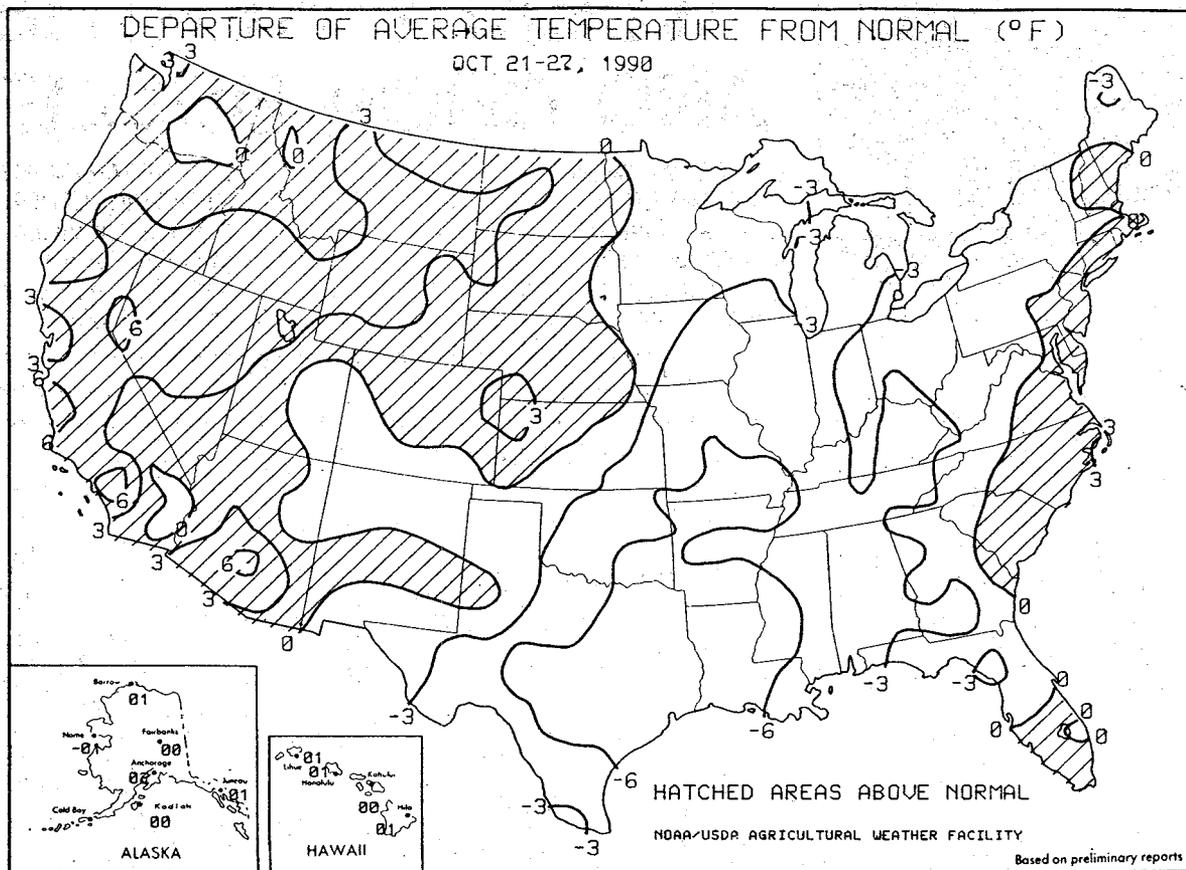
## HIGHLIGHTS

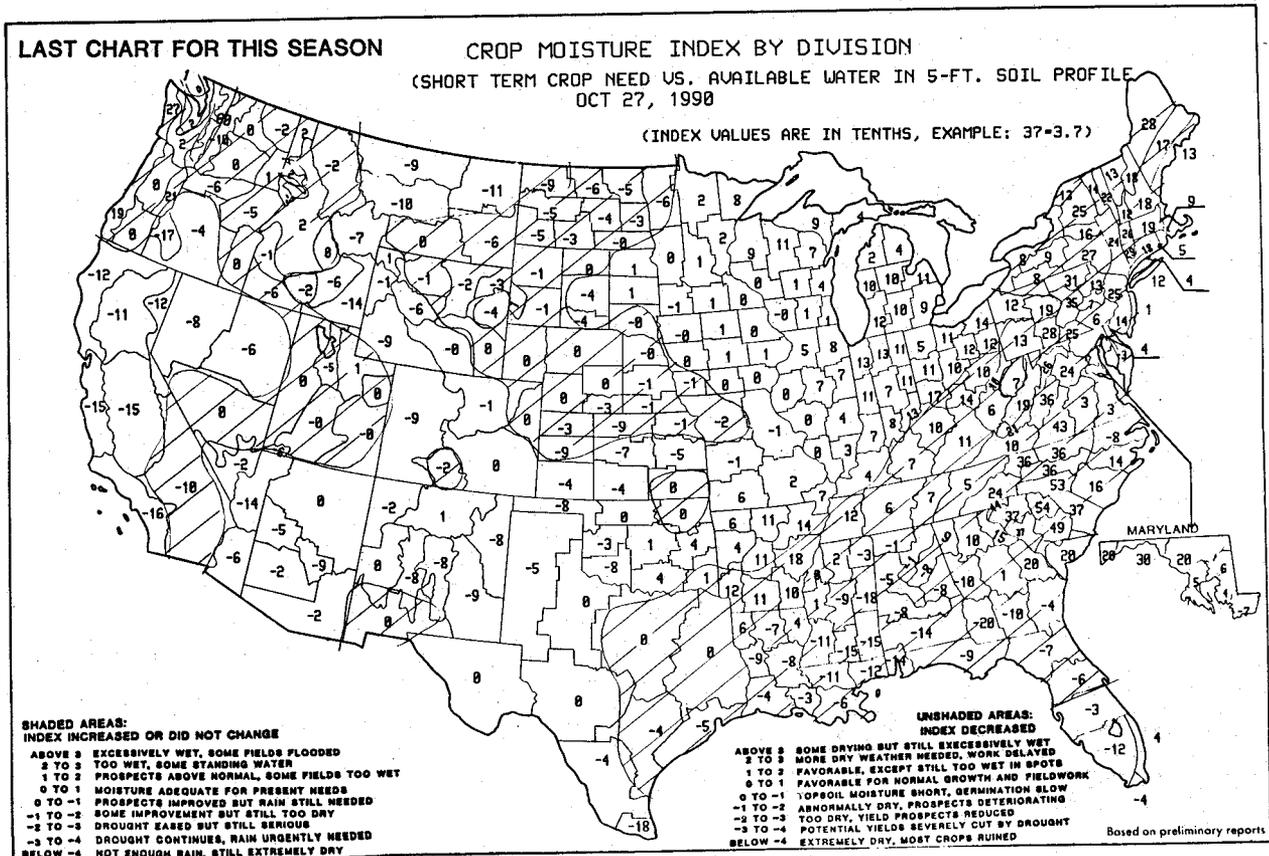
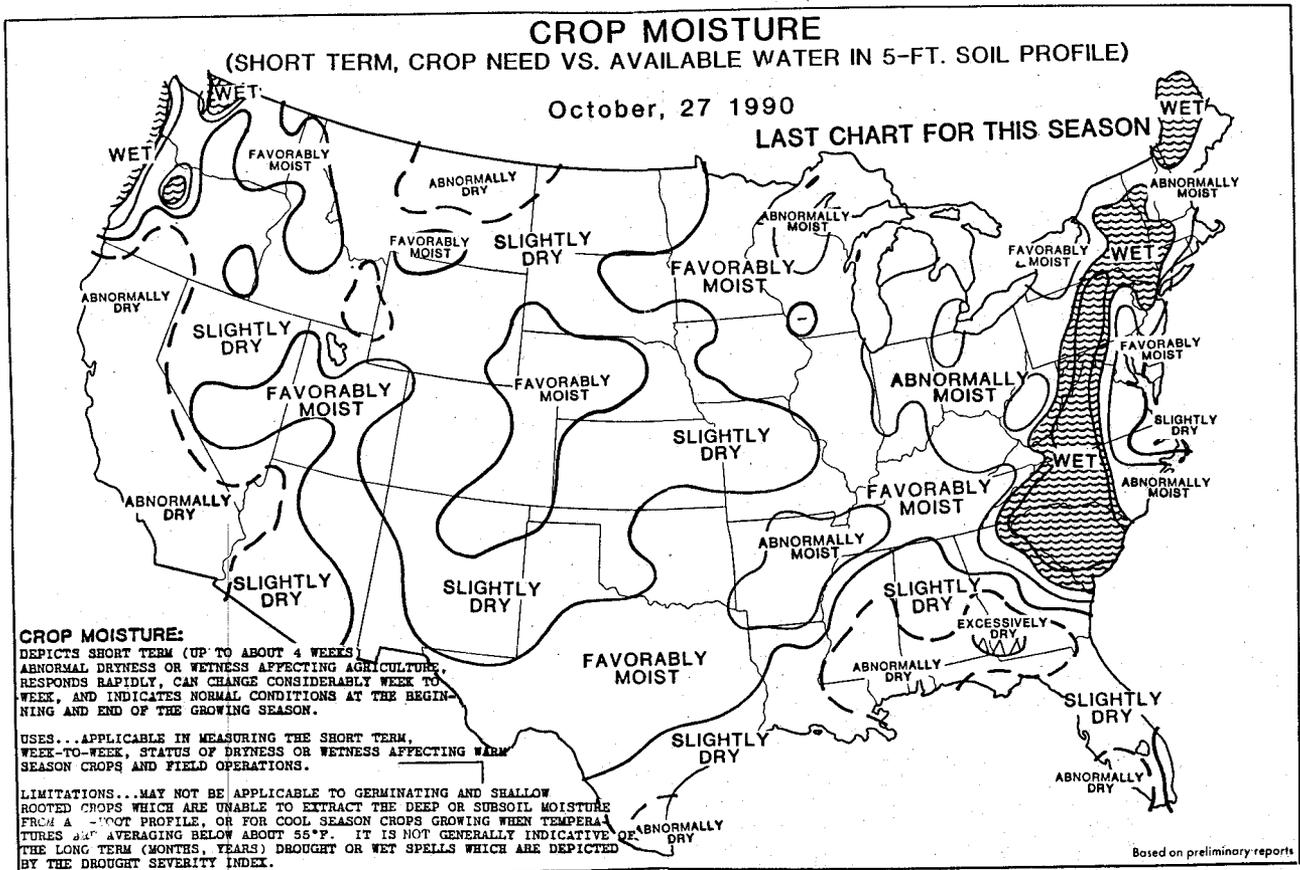
October 21-27, 1990

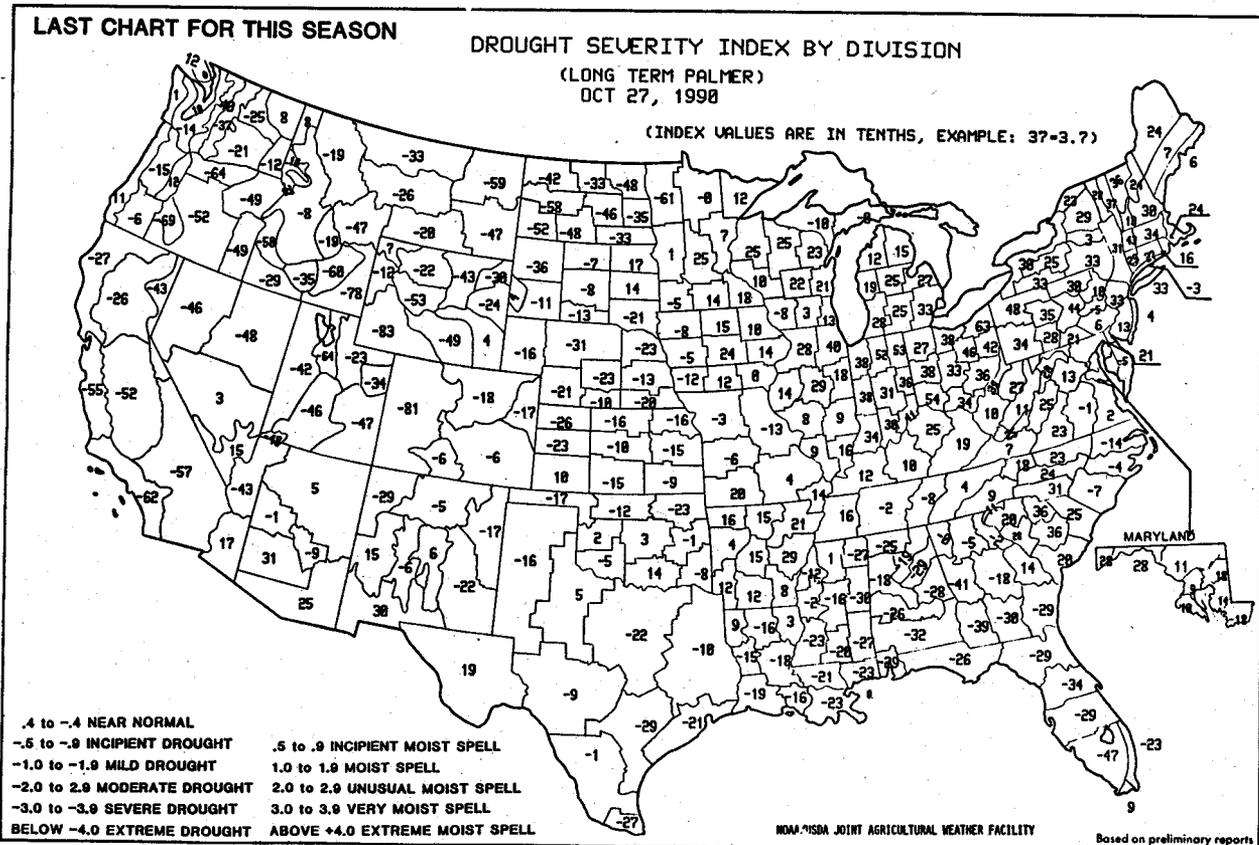
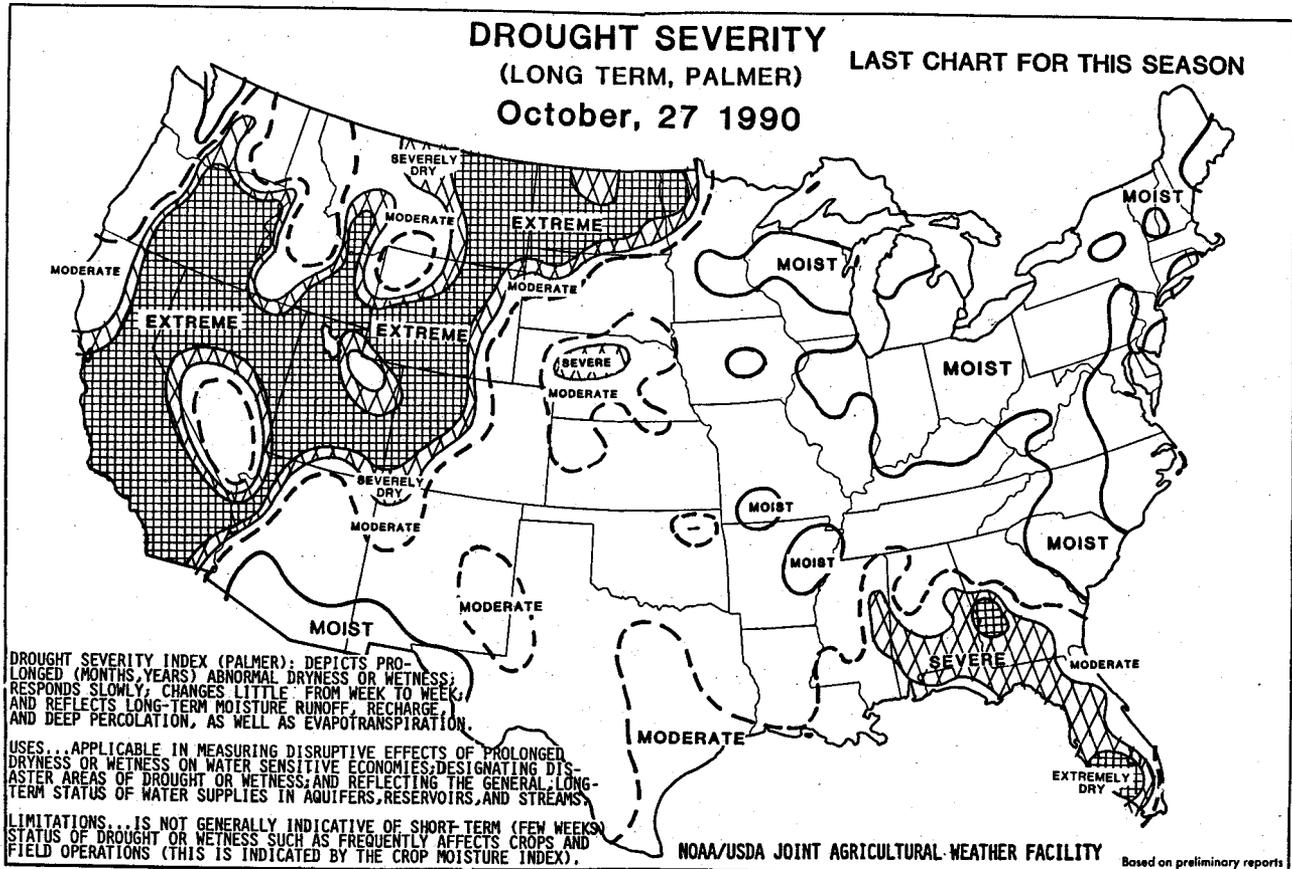
Intense thunderstorms developed along a slow moving frontal system and spread drenching rains across eastern Texas into the lower Mississippi Valley and up the Eastern Seaboard during the first half of the week. Amounts of more than 4 inches of rain soaked the middle and southern Atlantic coast States and produced local flooding. Dry harvest weather prevailed over most of the Nation during the remainder of the week, although a strong low pressure system brought gusty winds, mountain snows, and more heavy rain to the Carolinas on Thursday and Friday. Pacific fronts continued to bring seasonal rains into the Northwest throughout the week. At week's end, colder air surged southward into the East as temperatures dropped below freezing across the eastern Corn Belt and into the Piedmont and parts of the mid-Atlantic coast.

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# National Weather Data for Selected Cities

## Weather Data for the Week Ending October 27, 1990

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 Sep 1	PCT. NORMAL SINCE Sep 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
AL BIRMINGHAM	69	44	78	32	56	0.0	1.2	0.6	1.1	4.5	68	36.9	81	92	43	0	1	2	1
MOBILE	72	50	83	37	61	0.0	0.5	0.0	0.0	3.9	44	49.0	89	90	44	0	0	0	0
MONTGOMERY	71	47	82	33	59	0.0	0.4	0.0	0.4	3.1	47	48.7	119	92	44	0	0	0	0
AK ANCHORAGE	38	28	44	24	33	0.0	0.0	0.0	0.0	7.3	183	15.2	121	92	62	0	0	0	0
BARROW	15	7	19	1	11	0.0	0.0	0.0	0.0	0.9	90	4.3	107	91	75	0	0	0	0
FAIRBANKS	26	13	30	1	20	0.0	0.0	0.0	0.0	2.0	111	14.0	157	83	58	0	0	0	0
JUNEAU	45	37	48	28	41	0.0	0.0	0.0	0.0	16.9	128	48.7	115	98	72	0	0	0	0
KODIAK	44	32	50	28	38	0.0	0.0	0.0	0.0	14.3	116	58.7	121	93	66	0	0	0	0
NOME	28	18	32	11	23	0.0	0.0	0.0	0.0	4.1	120	19.5	152	78	52	0	0	0	0
AZ PHOENIX	92	61	96	56	76	0.0	0.0	0.0	0.0	1.2	98	7.1	129	38	11	0	0	0	0
PRESCOTT	77	33	82	24	55	0.0	0.0	0.0	0.0	2.4	93	14.9	95	52	9	0	0	0	0
TUCSON	90	52	94	44	71	0.0	0.0	0.0	0.0	2.2	106	13.1	140	43	12	0	0	0	0
YUMA	93	62	101	60	78	0.0	0.0	0.0	0.0	1.0	209	2.2	118	29	11	0	0	0	0
AR FORT SMITH	70	38	79	31	54	0.0	0.0	0.0	0.0	8.4	140	52.6	160	91	35	0	0	0	0
LITTLE ROCK	65	44	74	42	55	0.0	0.0	0.0	0.0	11.1	167	52.4	131	70	41	0	0	0	0
CA BAKERSFIELD	85	51	90	45	68	0.0	0.0	0.0	0.0	0.0	31	2.8	65	51	19	0	0	0	0
BURKKA	64	48	71	44	56	0.0	0.0	0.0	0.0	1.1	35	22.5	88	96	78	0	0	0	0
FRESNO	83	49	88	47	66	0.0	0.0	0.0	0.0	2.2	33	7.5	101	72	24	0	0	0	0
LOS ANGELES	83	59	92	56	71	0.0	0.0	0.0	0.0	0.0	0	5.1	88	88	29	0	0	0	0
REDDING	82	45	85	41	64	0.0	0.0	0.0	0.0	1.3	56	22.7	81	81	20	0	0	0	0
SACRAMENTO	85	48	86	44	65	0.0	0.0	0.0	0.0	0.0	4	11.6	99	84	23	0	0	0	0
SAN DIEGO	80	55	86	52	68	0.0	0.0	0.0	0.0	0.0	0	0	85	73	31	0	0	0	0
SAN FRANCISCO	73	51	78	48	62	0.0	0.0	0.0	0.0	2.2	20	8.1	60	92	45	0	0	0	0
CO DENVER	67	37	78	25	52	0.0	0.0	0.0	0.0	2.2	118	15.1	111	77	26	0	1	0	0
GRAND JUNCTION	64	36	73	30	50	0.0	0.0	0.0	0.0	2.2	148	6.8	104	77	29	0	0	0	0
FUEBLO	68	32	81	27	50	0.0	0.0	0.0	0.0	2.2	142	14.5	146	88	26	0	0	0	0
CT BRIDGEPORT	62	47	68	34	55	0.0	0.0	0.0	0.0	2.1	127	38.4	116	83	55	0	0	0	0
HARTFORD	61	41	66	30	51	0.0	0.0	0.0	0.0	1.8	140	44.5	125	91	55	0	0	0	0
DC WASHINGTON	64	48	71	35	56	0.0	0.0	0.0	0.0	3.2	73	33.9	105	85	52	0	0	0	0
FL APALACHICOLA	75	55	85	41	65	0.0	0.0	0.0	0.0	1.3	7.7	71	93	49	0	0	0	0	0
DAYTONA BEACH	80	61	87	46	71	0.0	0.0	0.0	0.0	1.0	6.5	56	34.2	81	93	54	0	0	0
JACKSONVILLE	77	57	86	43	67	0.0	0.0	0.0	0.0	1.4	7.4	68	34.8	81	93	54	0	0	0
KEY WEST	84	74	89	66	79	0.0	0.0	0.0	0.0	1.6	7.2	72	28.0	60	95	52	0	0	0
MIAMI	85	69	92	56	77	0.0	0.0	0.0	0.0	1.1	10.4	98	32.2	94	83	56	0	0	0
ORLANDO	81	62	88	48	72	0.0	0.0	0.0	0.0	2.0	8.3	58	49.0	94	87	52	2	2	1
TALLAHASSEE	81	62	88	48	72	0.0	0.0	0.0	0.0	0.6	4.6	50	29.9	66	91	50	0	0	0
TAMPA	76	51	85	33	64	0.0	0.0	0.0	0.0	0.5	7.4	80	40.8	73	97	45	0	0	0
WEST PALM BEACH	82	62	91	49	72	0.0	0.0	0.0	0.0	1.1	5.1	61	33.6	79	93	51	2	2	1
CA ATLANTA	84	67	91	53	76	0.0	0.0	0.0	0.0	1.3	15.0	92	52.5	99	89	53	1	1	1
AUGUSTA	65	49	75	38	57	0.0	0.0	0.0	0.0	1.9	9.1	172	53.3	132	88	57	0	0	0
MACON	71	50	82	35	61	0.0	0.0	0.0	0.0	2.2	15.9	301	36.1	97	96	56	0	0	0
SAVANNAH	70	50	78	34	60	0.0	0.0	0.0	0.0	4.8	8.2	161	31.1	82	95	53	0	0	0
HI HILO	75	55	84	41	65	0.0	0.0	0.0	0.0	1.1	13.8	190	38.5	86	92	49	0	0	0
HONOLULU	83	69	85	67	76	0.0	0.0	0.0	0.0	1.6	35.1	234	131.7	133	95	64	2	2	2
KAUAI	87	72	89	68	80	0.0	0.0	0.0	0.0	0.2	1.3	61	11.7	72	82	50	0	0	0
KAUAI	87	68	91	65	77	0.0	0.0	0.0	0.0	0.3	0.8	85	16.6	126	87	53	0	0	0
LIHUE	83	73	84	70	78	0.0	0.0	0.0	0.0	0.0	2.5	41	23.6	73	86	65	0	0	0
ID BOISE	68	37	81	32	53	0.0	0.0	0.0	0.0	1.1	76	10.4	119	78	25	0	0	0	0
LEWISTON	65	46	75	42	56	0.0	0.0	0.0	0.0	0.0	37	9.0	88	63	34	0	0	0	0
POCATELLO	65	31	75	24	48	0.0	0.0	0.0	0.0	0.0	45	8.1	93	78	22	0	0	0	0
IL CHICAGO	57	34	64	28	45	0.0	0.0	0.0	0.0	1.1	5.1	87	35.2	119	90	42	0	0	0
MOLINE	58	31	61	25	45	0.0	0.0	0.0	0.0	0.0	3.4	56	44.5	136	90	35	0	0	0
PEORIA	58	32	65	28	45	0.0	0.0	0.0	0.0	0.0	4.2	71	44.5	145	94	40	0	0	0
QUINCY	60	34	66	30	47	0.0	0.0	0.0	0.0	0.0	5.5	78	34.7	104	90	37	0	0	0
ROCKFORD	56	31	61	26	43	0.0	0.0	0.0	0.0	0.0	4.4	70	38.8	121	91	40	0	0	0
SPRINGFIELD	59	35	67	29	47	0.0	0.0	0.0	0.0	0.0	7.0	127	44.2	149	94	39	0	0	0
IN EVANSVILLE	62	36	69	30	49	0.0	0.0	0.0	0.0	0.0	7.3	151	42.1	122	97	45	0	0	0
FORT WAYNE	58	36	64	28	47	0.0	0.0	0.0	0.0	0.0	6.8	142	43.6	150	87	43	0	0	0
INDIANAPOLIS	59	36	65	29	48	0.0	0.0	0.0	0.0	0.0	7.3	150	39.5	122	94	45	0	0	0
SOUTH BEND	57	35	62	27	46	0.0	0.0	0.0	0.0	0.0	10.8	179	43.6	137	89	47	0	0	0
IA DES MOINES	60	34	69	27	47	0.0	0.0	0.0	0.0	0.0	3.2	64	39.2	141	82	38	0	0	0
SIoux CITY	62	32	73	26	47	0.0	0.0	0.0	0.0	0.0	2.3	58	23.0	98	89	32	0	0	0
WATERLOO	57	30	66	24	44	0.0	0.0	0.0	0.0	0.0	2.8	51	38.9	131	89	36	0	0	0
KS CONCORDIA	67	39	78	32	53	0.0	0.0	0.0	0.0	0.0	2.3	49	23.8	94	78	30	0	0	0
DODGE CITY	71	36	86	25	54	0.0	0.0	0.0	0.0	0.0	1.6	55	19.9	105	71	21	0	0	0
GOODLAND	68	39	82	26	53	0.0	0.0	0.0	0.0	0.0	2.3	106	17.8	118	77	27	0	0	0
TOPEKA	66	36	75	31	51	0.0	0.0	0.0	0.0	0.0	3.5	59	30.6	102	93	38	0	0	0
WICHITA	68	37	76	29	53	0.0	0.0	0.0	0.0	0.0	2.6	46	16.6	64	79	25	0	0	0
KY BOWLING GREEN	63	39	77	29	52	0.0	0.0	0.0	0.0	0.0	1.1	179	38.7	96	98	48	0	0	0
LEXINGTON	60	39	74	31	49	0.0	0.0	0.0	0.0	0.0	1.0	6.6	126	39.3	103	93	52	0	0
LOUISVILLE	63	41	76	33	52	0.0	0.0	0.0	0.0	0.0	6.5	117	46.3	129	92	47	0	0	0
LA ALEXANDRIA	69	46	74	39	58	0.0	0.0	0.0	0.0	0.0	7.1	128	48.6	113	95	44	0	0	0
BATON ROUGE	70	48	84	40	59	0.0	0.0	0.0	0.0	0.0	8.2	122	58.5	126	94	48	0	0	0
LAKE CHARLES	72	49	81	41	61	0.0	0.0	0.0	0.0	0.0	11.1	124	46.0	104	95	50	0	0	0
NEW ORLEANS	70	53	85	42	62	0.0	0.0	0.0	0.0	0.0	1.5	1.0	1.4	6.9	85	48.2	97	0	0

Based on 1951-80 normals

Weather Data for the Week Ending October 27, 1990

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 Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE		
SHREVEPORT	70	43	78	37	56	7	2.6	2.0	2.6	7.3	130	52.9	148	95	43	0	0	1	1		
ME CARIBOU	43	32	51	25	38	3	3.4	2.7	2.9	12.3	199	36.4	123	96	70	0	4	3	3		
PORTLAND	56	38	66	28	47	3	2.6	1.7	1.7	9.9	152	36.7	109	93	57	0	2	2	2		
MD BALTIMORE	64	44	72	30	54	0	1.3	1.2	1.2	3.6	59	34.9	100	87	50	0	1	1	1		
SALISBURY	66	44	78	32	55	0	1.1	1.1	1.1	6.2	85	34.1	89	95	54	0	1	1	1		
MA BOSTON	60	44	70	34	52	0	1.3	1.3	1.3	8.7	139	41.6	121	90	57	0	0	0	0		
CHATHAM	57	47	66	36	52	0	2.2	1.4	1.5	5.4	78	37.0	100	92	73	0	0	4	3		
MI ALPENA	50	31	59	24	40	4	1.1	1.1	1.1	4.6	94	26.4	108	92	55	0	5	2	2		
DETROIT	58	37	68	31	47	4	1.1	1.1	1.1	10.2	252	35.6	139	85	46	0	2	1	0		
FLINT	55	33	61	25	44	4	1.1	1.1	1.1	6.9	167	26.2	107	89	50	0	4	1	0		
GRAND RAPIDS	54	33	59	24	44	4	1.1	1.1	1.1	9.3	168	32.5	117	92	50	0	4	1	0		
HOUGHTON LAKE	49	31	56	19	40	4	1.1	1.1	1.1	5.3	110	25.8	110	95	55	0	5	1	0		
LANSING	54	33	60	23	44	4	1.1	1.1	1.1	9.6	208	29.4	119	90	49	0	3	2	0		
MARQUETTE	47	31	57	28	39	2	1.1	1.1	1.1	10.0	147	30.0	95	91	60	0	6	5	0		
MUSKOGON	54	33	57	23	44	4	1.1	1.1	1.1	8.1	152	29.3	115	93	51	0	4	1	0		
SAULT ST. MARIE	46	31	52	21	38	4	1.1	1.1	1.1	7.7	120	28.7	106	94	64	0	4	2	0		
MN ALEXANDRIA	52	31	69	26	42	1	1.1	1.1	1.1	3.1	79	20.4	91	89	44	0	5	0	0		
DULUTH	50	30	61	21	40	0	1.1	1.1	1.1	10.0	193	32.3	123	88	45	0	5	0	0		
INT'L FALLS	50	29	66	22	39	0	1.1	1.1	1.1	2.6	55	18.3	84	90	50	0	5	2	0		
MINNEAPOLIS	56	32	66	26	44	1	1.1	1.1	1.1	3.1	75	31.4	132	86	36	0	4	0	0		
ROCHESTER	54	30	62	24	42	3	1.1	1.1	1.1	3.2	58	41.9	163	87	40	0	4	3	0		
MS GREENWOOD	67	42	73	33	55	6	1.1	1.1	1.1	7.4	129	42.0	98	96	46	0	0	2	0		
JACKSON	69	41	82	32	55	7	1.1	1.1	1.1	6.1	109	44.3	105	100	46	0	2	2	0		
MERIDIAN	69	43	78	32	56	5	1.1	1.1	1.1	2.5	42	53.8	123	96	47	0	1	2	0		
MO CAPE GIRARDEAU	63	37	69	30	50	1	1.1	1.1	1.1	7.0	119	42.0	114	94	45	0	1	2	0		
COLUMBIA	62	35	70	29	48	6	1.1	1.1	1.1	3.5	52	47.2	147	81	29	0	3	0	0		
KANSAS CITY	64	37	73	32	51	5	1.1	1.1	1.1	3.7	52	36.5	112	79	29	0	1	1	0		
SAINT LOUIS	61	41	71	35	51	4	1.1	1.1	1.1	5.7	122	35.2	122	79	34	0	0	1	0		
SPRINGFIELD	64	35	74	29	49	5	1.1	1.1	1.1	10.9	153	54.7	163	84	34	0	1	1	0		
MT BILLINGS	63	36	75	26	50	4	1.1	1.1	1.1	1.1	50	10.4	80	58	24	0	3	0	0		
GLASGOW	62	28	80	19	45	2	1.1	1.1	1.1	3	18	5.9	58	76	23	0	5	0	0		
GREAT FALLS	62	34	76	27	48	3	1.1	1.1	1.1	2	9	12.6	94	57	21	0	4	0	0		
HAVRE	63	28	81	19	45	2	1.1	1.1	1.1	1	4	5.5	51	68	23	0	5	0	0		
HELENA	61	29	79	22	45	3	1.1	1.1	1.1	2	16	7.6	75	71	25	0	5	0	0		
KALISPELL	52	28	62	25	40	0	1.1	1.1	1.1	1.8	93	17.6	138	95	48	0	6	3	0		
MILES CITY	64	33	77	25	48	4	1.1	1.1	1.1	9	50	8.2	64	76	24	0	4	0	0		
MISSOULA	54	28	66	23	41	0	1.1	1.1	1.1	6	33	11.2	103	92	38	0	6	2	0		
NE GRAND ISLAND	67	35	82	28	51	2	1.1	1.1	1.1	1.6	47	25.1	117	82	25	0	1	1	0		
LINCOLN	67	36	79	29	51	1	1.1	1.1	1.1	2.1	48	24.6	98	79	28	0	1	1	0		
NORFOLK	65	33	78	26	49	1	1.1	1.1	1.1	2.5	76	25.1	113	86	28	0	4	0	0		
NORTH PLATTE	69	30	85	21	49	3	1.1	1.1	1.1	1.8	73	14.9	82	91	24	0	5	1	0		
OMAHA	63	39	75	32	51	0	1.1	1.1	1.1	2.8	53	22.1	79	65	35	0	1	0	0		
SCOTT'S BLUFF	65	30	77	20	48	1	1.1	1.1	1.1	2.0	113	16.1	119	81	24	0	5	1	0		
VALENTINE	65	30	83	19	48	2	1.1	1.1	1.1	1.2	54	16.2	99	84	23	0	4	0	0		
NV ELY	70	26	75	17	48	5	1.1	1.1	1.1	1.3	108	8.0	107	77	16	0	7	0	0		
LAS VEGAS	81	49	85	44	65	1	1.1	1.1	1.1	4	69	3.7	113	45	14	0	0	0	0		
RENO	76	34	82	28	55	8	1.1	1.1	1.1	4	74	4.7	87	78	19	0	2	0	0		
WINNEMUCCA	74	29	80	16	51	6	1.1	1.1	1.1	3	31	5.6	93	56	15	0	6	0	0		
NH CONCORD	58	34	64	24	46	0	1.7	1.0	1.0	7.2	124	33.9	117	96	56	0	3	2	2		
NJ ATLANTIC CITY	65	41	74	27	53	1	1.1	1.1	1.1	4.6	83	31.2	92	94	57	0	1	2	1		
NM ALBUQUERQUE	70	38	78	30	54	0	1.1	1.1	1.1	1.1	70	8.8	127	60	17	0	1	0	0		
CLOVIS	72	40	81	30	56	1	1.1	1.1	1.1	4.4	124	11.6	73	69	20	0	2	0	0		
ROSWELL	76	40	85	33	58	1	1.1	1.1	1.1	1.8	67	6.7	69	58	19	0	0	0	0		
NY ALBANY	56	37	65	27	46	1	2.6	2.0	1.9	6.4	111	38.8	133	95	57	0	2	2	2		
BINGHAMTON	52	37	59	25	45	1	3.0	2.3	2.9	9.9	166	37.5	123	95	66	0	2	2	1		
BUFFALO	54	39	69	27	46	1	7	1	1	8.1	139	39.5	132	90	60	0	2	5	0		
NEW YORK	63	50	71	37	57	2	2.5	1.7	2.5	7.6	122	44.2	127	82	55	0	0	1	1		
ROCHESTER	55	39	69	27	47	2	1.8	1.2	1.4	7.6	156	33.6	131	92	59	0	2	4	0		
SYRACUSE	56	39	66	25	48	1	2.7	2.0	1.5	9.2	154	40.6	128	92	56	0	2	3	1		
NC ASHEVILLE	60	43	67	29	52	0	6.0	5.4	3.0	10.4	160	50.0	135	98	61	0	1	4	2		
CHARLOTTE	67	50	76	35	58	0	4.1	3.4	3.0	16.6	280	43.8	121	89	52	0	0	3	2		
GREENSBORO	65	45	76	30	55	0	2.9	1.8	2.1	13.7	214	37.4	104	91	52	0	1	3	3		
HATTERAS	72	60	82	38	66	4	4.2	3.5	2.8	4.4	44	38.6	84	88	61	0	0	3	2		
NEW BERN	74	53	83	38	63	2	3.4	2.8	1.8	6.6	75	44.9	98	96	48	0	0	3	3		
RALEIGH	70	47	78	31	58	1	5.0	4.4	4.2	8.5	102	48.6	105	97	49	0	0	2	2		
WILMINGTON	75	53	83	36	64	2	1.1	1.1	1.1	1.5	74	12.2	87	84	24	0	7	0	0		
ND BISMARCK	61	26	80	19	43	1	1.1	1.1	1.1	3.0	99	16.2	91	78	34	0	5	0	0		
FARGO	57	30	76	25	44	1	1.1	1.1	1.1	2.2	71	15.4	92	82	30	0	6	0	0		
GRAND FORKS	58	28	80	23	43	2	1.1	1.1	1.1	4	20	8.8	71	83	24	0	5	0	0		
WILLISTON	60	27	75	15	44	2	1.1	1.1	1.1	16.1	330	56.8	188	93	57	0	2	3	1		
OH AKRON-CANTON	56	39	68	29	47	2	1.1	1.1	1.1	9.2	182	47.4	141	91	52	0	2	3	1		
CINCINNATI	60	39	72	32	49	3	1.1	1.1	1.1	12.2	243	43.0	146	92	57	0	2	3	1		
CLEVELAND	56	39	69	29	47	3	1.1	1.1	1.1	10.3	236	44.2	141	94	48	0	2	3	1		
COLUMBUS	59	39	72	29	49	2	1.1	1.1	1.1												

Based on 1951-80 normals

Weather Data for the Week Ending October 27, 1990

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 Sep 1	PCT. NORMAL SINCE Sep 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	57	37	69	28	47	-4	.6	.1	.4	8.6	210	47.3	162	91	53	0	3	2	0	0	
TOLEDO	57	34	68	28	46	-3	.1	.4	4.4	105	30.5	116	92	46	0	0	3	2	0	0	
YOUNGSTOWN	55	39	69	28	47	-1	.4	.2	9.4	175	37.9	122	94	58	0	2	2	0	0	0	
OK OKLAHOMA CITY	69	42	76	35	55	-4	.0	.5	8.6	147	37.5	135	77	29	0	0	0	0	0	0	
TULSA	68	41	76	35	55	-5	.7	.4	6.3	86	33.5	99	80	29	0	0	0	0	0	0	
OR ASTORIA	61	42	67	38	51	0	1.6	.2	7.7	92	54.8	117	97	69	0	0	0	0	1	1	
BURNS	64	28	74	26	46	2	.1	.1	.3	29	4.2	57	85	26	0	6	6	1	1	1	
MEDFORD	68	42	77	37	55	4	.1	.4	.6	29	10.1	77	97	48	0	0	0	0	0	0	
PENDLETON	62	39	68	36	51	1	.2	.1	.5	35	7.4	85	86	43	0	0	0	0	1	1	
PORTLAND	63	45	68	39	54	2	1.2	.4	1.0	92	25.6	102	98	64	0	0	0	0	1	1	
SALEM	61	41	67	37	51	1	1.5	.6	.8	39	26.0	97	99	68	0	0	0	0	1	1	
PA ALLENTOWN	61	42	66	31	51	1	1.4	.8	1.4	5.1	35.0	97	91	57	1	1	1	1	1	1	
ERIE	56	42	70	32	49	0	.3	.5	11.7	165	42.1	130	88	57	0	0	0	0	3	3	
HARRISBURG	61	43	66	32	52	0	2.1	1.5	6.6	110	35.3	109	88	56	0	0	0	0	2	2	
PHILADELPHIA	64	47	72	34	55	2	.7	.1	3.6	61	31.0	91	90	58	0	0	0	0	1	1	
PITTSBURGH	57	40	69	27	48	-1	.7	.1	9.5	194	41.7	134	92	52	0	2	2	2	2	2	
SCRANTON	57	39	63	29	48	-1	1.3	.6	1.2	7.4	130	38.4	133	88	57	0	0	0	3	3	
RI PROVIDENCE	61	43	71	32	52	1	.9	.0	.6	7.0	36.6	102	92	57	0	0	0	0	1	1	
SC CHARLESTON	74	55	84	43	65	1	.7	.1	.5	7.5	99	37.4	82	99	50	0	0	0	2	2	
COLUMBIA	72	51	82	35	62	1	4.2	3.7	3.5	14.3	220	39.8	93	98	53	0	0	0	0	0	
FLORENCE	74	52	82	37	63	2	2.3	1.8	1.1	11.7	189	29.7	77	92	47	0	0	0	1	1	
SD GREENVILLE	65	47	75	31	56	-2	3.1	2.4	2.6	11.6	44.2	102	92	52	0	0	0	0	4	4	
ABERDEEN	60	30	78	21	45	2	.0	.2	.0	3.5	145	20.4	124	80	31	0	0	0	0	0	0
HURON	61	30	75	24	46	0	.7	.3	1.9	72	22.6	132	85	31	0	5	5	3	0	0	
RAPID CITY	64	34	81	24	49	3	.7	.1	3.1	178	15.7	105	70	24	0	0	0	0	1	1	
SIoux FALLS	59	31	71	21	45	0	.7	.3	2.3	55	18.0	81	84	34	0	4	4	0	0	0	
TN CHATTANOOGA	66	44	77	34	55	-2	1.5	.9	1.5	8.1	119	54.5	127	97	46	0	0	0	1	1	
KNOXVILLE	62	43	77	32	52	-4	.7	.1	.6	6.3	120	44.4	116	96	55	0	0	0	2	2	
MEMPHIS	66	43	71	37	54	-3	.7	.1	.4	8.2	146	44.3	106	91	46	0	0	0	1	1	
NASHVILLE	65	42	78	32	54	-5	1.6	1.0	1.4	6.5	110	32.0	81	96	46	0	1	1	1	1	
TX ABILENE	72	44	79	32	58	-5	.3	.2	.3	6.5	127	28.3	136	80	32	0	0	0	0	0	0
AMARILLO	70	38	81	29	54	-2	.0	.3	.0	3.2	108	16.8	95	70	23	0	2	2	0	0	
AUSTIN	75	48	80	43	62	-5	1.0	.3	1.0	5.1	78	23.9	90	85	37	0	0	0	0	1	1
BEAUMONT	72	47	82	42	60	-8	1.0	.2	1.0	9.7	113	57.2	126	98	48	0	0	0	0	1	1
BROWNSVILLE	81	57	90	55	69	-4	2.2	1.5	2.2	6.2	73	17.9	80	94	45	1	1	1	1	1	1
CORPUS CHRISTI	79	53	87	49	66	-6	.1	.3	.1	4.0	44	19.3	69	88	40	0	0	0	0	0	0
DEL RIO	78	49	82	44	63	-5	.0	.4	.7	7.7	162	24.3	155	65	28	0	0	0	0	1	1
EL PASO	78	40	85	31	59	-2	.0	.1	.0	4.1	200	11.2	164	71	19	0	1	1	0	0	0
FORT WORTH	72	43	82	36	58	-7	.1	.5	.1	3.9	64	40.0	149	87	33	0	0	0	0	1	1
CALVESTON	70	57	81	54	63	-3	.4	.1	.4	9.6	114	34.4	103	78	52	0	0	0	0	0	0
HOUSTON	73	47	79	41	60	-8	.8	.1	.8	5.4	63	35.6	92	92	43	0	0	0	0	1	1
LOUSBOCK	75	41	85	35	58	0	.0	.4	.0	3.2	87	14.2	87	70	19	0	0	0	0	0	0
MIDLAND	76	42	84	33	59	-3	.7	.3	.7	4.3	130	12.7	103	76	23	0	0	0	0	1	1
SAN ANGELO	73	39	80	33	56	-7	.6	.2	.6	8.6	178	26.1	161	96	35	0	0	0	0	1	1
SAN ANTONIO	76	46	80	41	61	-7	.8	.3	.8	7.4	119	35.0	141	91	40	0	0	0	0	1	1
VICTORIA	76	49	81	43	62	-7	.1	.5	.1	5.2	56	32.7	101	92	38	0	0	0	0	1	1
WACO	73	45	81	41	59	-7	1.2	.5	1.2	11.1	189	33.6	128	93	39	0	0	0	0	1	1
WICHITA FALLS	74	40	83	32	57	-5	.0	.5	.0	3.0	53	34.3	145	86	28	0	1	1	0	0	0
UT CEDAR CITY	69	33	76	22	51	2	.0	.2	.0	2.2	141	8.8	103	77	18	0	3	3	0	0	0
SALT LAKE CITY	65	39	74	30	52	2	.0	.3	.0	1.3	69	8.9	72	83	30	0	1	1	0	0	0
VT BURLINGTON	50	35	62	23	42	-3	1.7	1.1	1.1	8.0	141	34.0	122	94	61	0	4	4	0	0	0
VA NORFOLK	67	53	79	41	60	1	2.5	1.8	1.7	4.7	65	41.2	107	91	55	0	0	0	0	3	3
RICHMOND	67	47	75	34	57	1	2.1	1.2	1.9	5.8	86	37.7	103	88	49	0	0	0	0	2	2
ROANOKE	63	43	72	32	53	-1	2.8	2.0	2.3	11.8	191	38.8	117	91	55	0	1	1	1	1	1
WA QUILLAYUTE	56	43	59	37	50	1	3.8	1.3	1.5	14.8	98	76.3	103	100	73	0	0	0	0	6	6
SEATTLE-TACOMA	61	45	66	41	53	3	1.0	.2	.8	4.2	87	28.9	111	94	58	0	0	0	0	1	1
SPOKANE	56	36	64	30	46	2	.4	.1	.3	2.2	136	15.5	131	93	49	0	1	1	3	3	3
YAKIMA	61	29	68	25	45	-2	.7	.1	.2	2.1	5.6	103	90	40	0	5	5	1	1	0	0
WV BECKLEY	56	39	71	27	48	-1	1.7	1.1	1.5	7.9	132	34.9	97	94	59	0	2	2	1	1	1
CHARLESTON	61	42	77	29	52	-1	1.0	.4	.6	7.7	146	34.9	98	97	59	0	1	1	2	2	2
HUNTINGTON	59	39	75	29	49	-4	1.3	.8	1.1	8.8	175	41.4	120	94	54	0	0	0	0	1	1
PARKERSBURG	59	40	72	28	50	-3	1.0	.5	.8	7.4	150	41.8	129	95	55	0	2	2	1	1	1
WI GREEN BAY	52	33	57	27	43	-3	.3	.1	.3	7.5	149	32.9	135	88	50	0	3	3	1	1	1
LACROSSE	55	35	63	29	45	-3	.1	.3	.1	3.3	62	34.5	127	86	37	0	4	4	0	0	0
MADISON	55	30	59	24	42	-4	.7	.4	.7	3.9	78	31.4	116	86	41	0	5	5	1	1	1
MILWAUKEE	56	36	63	32	46	-2	.7	.5	.7	4.6	94	34.7	131	84	47	0	2	2	0	0	0
WAUSAU	51	31	59	25	41	-3	.2	.3	.1	7.3	124	32.2	114	94	48	0	5	5	2	2	2
WY CASPER	62	31	73	21	47	3	.7	.2	.7	1.4	97	10.7	108	79	23	0	4	4	0	0	0
CHEYENNE	60	34	72	22	47	3	.0	.1	.0	2.1	128	18.5	151	70	26	0	4	4	0	0	0
LANDER	63	32	73	23	47	4	.0	.3	.0	2.2	115	8.8	76	68	22	0	3	3	0	0	0
SHERIDAN	65	30	81	20	48	4	.1	.2	.1	1.8	84	11.8	89	79	27	0	4	4	1	1	1

Based on 1951-80 normals

## National Agricultural Summary

October 22-28, 1990

**HIGHLIGHTS:** Winter wheat was mostly good with 86 percent (%) of the crop planted, same as the 5-year average. Corn harvest was 64% complete, 6 points behind normal. Soybean harvest was 72% complete, 1 point ahead of normal. Fifty-five percent of the cotton was harvested, 7 points ahead of normal. Sorghum harvest was 79% complete, 12 points ahead of normal.

Rain in the **Southeastern** areas of the nation improved soil moisture and small grain development. Frost occurred as far south as the **Panhandle** of **Florida**, but did not damage the vegetable or fruit crops. The **western** areas remained dry, promoting harvest but hindering fall planted crops.

**SMALL GRAINS:** Winter wheat was mostly good with 86% of the crop planted, same as normal. Seventy-two percent of the crop was emerged, 1 point ahead of normal. Planting was 100% complete in Colorado, Montana, Nebraska, and South Dakota. Some Kansas acreage was planted dry and will need rain to germinate. Ohio plantings were delayed to the point that not all intended acreage will be planted.

**CORN:** Corn harvest was 64% complete, 6 points behind normal. Harvest progressed 17 points from last week. Harvest in Texas was 100% complete, while harvest in Georgia, Kansas, and North Carolina was 90% or more complete. Harvest progressed by 20 or more points in Colorado, Illinois, Iowa, Nebraska, and South Dakota. Ohio corn harvest was more than a week behind average due to wet weather.

**SOYBEANS:** Soybean harvest was 72% complete, 1 point ahead of normal. Harvest was 90% complete or more in Iowa, Kansas, Minnesota, Nebraska, and South Dakota. In Ohio and Tennessee, harvest was over 20 points behind normal. Harvest progressed 30 points from last week in Illinois, Kansas, and Michigan due to the dry weather.

**COTTON:** Fifty-five percent of the cotton was harvested, 7 points ahead of normal. Boles opening were 92%, 4 points ahead of normal. Alabama and Louisiana had over 90% harvested. Georgia and North Carolina harvests were more than 20 points ahead of normal. A freeze in the northern areas of Texas increased plant defoliation.

**SORGHUM:** Sorghum harvest was 79% complete, 12 points ahead of normal. Arkansas, Louisiana, Mississippi, Nebraska, and South Dakota had 90% or more harvested. Harvest was 15 points or more ahead of normal in Kansas, Nebraska, and South Dakota. Kansas progressed 25 points from last week. Twenty percent of the Illinois crop was harvested, 60 points behind normal.

**OTHER FIELD CROPS:** Alabama peanuts were 99% combined, 10 points ahead of normal. The fourth cutting of alfalfa hay was 62% complete in Pennsylvania and 97% complete in Utah. Montana sugarbeets were 93% harvested, 5 points ahead of normal. Texas peanuts were 45% harvested, 2 points ahead of normal. Peanuts in Georgia were mostly poor, with 96% of the crop threshed. New York dry bean harvest was delayed due to wetness, with the quality of the crop reduced. Michigan dry bean

harvest was nearly complete with excellent yield and quality. Oregon potato harvest was mostly complete except in Umatilla County. Colorado sugarbeet harvest was 81% complete. Florida sugarcane harvest increased with the opening of more mills. Louisiana sweetpotatoes were 81% harvested, 5 points behind average. Tennessee tobacco was 45% stripped, 8 points ahead of normal.

**FRUIT AND NUTS:** Apple and grape harvests in Pennsylvania were 87% and 89% complete, respectively. Delaware apples were fair to good with 94% harvested, 2 points behind normal. New Jersey apple and cranberry harvests were almost complete. Arizona lemon and grapefruit harvests and packing continued in the west, while lemons, navels, and tangerines were picked in the central areas. Packing continued for California granny Smith and fuji apples, desert grapefruit, lemons, and tangerines. Avocado harvest was winding down, while harvest of persimmons and kiwifruit continued. Florida citrus trees were mostly in excellent condition with increased harvest of oranges, grapefruits, tangerines, and tangelos and no excessive fruit droppage. Pecan harvest in Texas continued with yields fair to good in the north and high yields in the south. Louisiana pecan crop was poor to fair with harvest 22% complete, 11 points ahead of normal. Oregon hazelnut and walnut harvests were virtually complete.

**VEGETABLES:** Texas onion planting was nearly complete, and the pepper harvest continued. New York vegetable harvest was virtually complete. Arizona harvest continued in the west for asparagus and green onions, in the Salt River Valley for broccoli, and in the east for mixed vegetables. California celery and iceberg head lettuce were generally good quality and in heavy to moderate supply. Onion and garlic planting continued in the western areas. Florida fall vegetable harvest was near the peak in the northern areas and increasing in the southern areas.

**PASTURES AND LIVESTOCK:** Pastures and livestock were mostly fair to good. However, the West and the Northern Plains had very poor to fair pasture conditions. North Dakota stockwater supplies were 46% short and 38% adequate. Sheep in California continued to graze alfalfa fields in the Fresno area. Iowa cattle are being moved to stalk and stubble fields after harvest, and calves are being weaned. Variable temperatures caused some livestock health problems in Kansas.

Crop Progress

FOR WEEK ENDING OCTOBER 28, 1990

	WINTER WHEAT % PLANTED		
	1990	1989	AVG.
AR	21	50	47
CA	15	20	26
CO	100	100	99
GA	9	7	17
ID	96	97	96
IL	74	92	86
IN	68	84	86
KS	98	98	95
MI	85	100	85
MO	68	80	66
MT	100	99	93
NE	100	100	100
NC	23	25	30
OH	60	80	84
OK	95	95	85
OR	92	92	79
SD	100	100	100
TX	82	88	84
WA	98	97	95
19 STATES	86	90	86

THESE 19 STATES PRODUCED 91% OF THE 1990 WINTER WHEAT CROP.

	SOYBEANS % HARVESTED		
	1990	1989	AVG.
AL	50	41	43
AR	28	41	44
GA	29	20	28
IL	87	95	90
IN	67	78	82
IA	99	99	85
KS	90	75	60
KY	30	41	43
LA	67	79	60
MI	55	90	55
MN	99	99	88
MS	51	43	45
MO	62	76	62
NE	98	93	84
NC	18	9	13
OH	56	62	77
SC	14	7	11
SD	100	100	81
TN	20	40	45
19 STATES	72	76	71

THESE 19 STATES PRODUCED 95% OF THE 1989 SOYBEAN CROP.

	WINTER WHEAT % EMERGED		
	1990	1989	AVG.
AR	13	31	29
CA	1	5	4
CO	95	95	94
GA	6	5	11
ID	78	77	72
IL	32	68	63
IN	48	60	63
KS	90	85	80
MI	75	85	70
MO	44	56	49
MT	81	79	74
NE	100	100	100
NC	16	16	NA
OH	42	50	58
OK	70	75	60
OR	71	55	49
SD	95	95	98
TX	61	66	71
WA	89	90	79
19 STATES	71	74	NA

EXCL. STATES WITH NA 72 75 71

THESE 19 STATES PRODUCED 91% OF THE 1990 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

	CORN % HARVESTED		
	1990	1989	AVG.
CO	35	48	54
GA	99	98	98
IL	64	86	83
IN	35	49	67
IA	80	91	72
KS	95	85	85
KY	62	75	82
MI	20	55	40
MN	67	92	69
MO	80	90	81
NE	80	77	65
NC	92	89	89
OH	29	27	50
PA	18	25	36
SD	76	91	60
TX	100	98	97
WI	27	61	53
17 STATES	64	77	70

THESE 17 STATES PRODUCED 95% OF THE 1989 CORN CROP.

COTTON			
% BOLLS OPENING			
	1990	1989	AVG.
AL	100	99	100
AZ	100	100	100
AR	100	96	99
CA	100	100	100
GA	98	90	95
LA	100	100	100
MS	100	99	99
MO	99	100	100
NM	100	100	99
NC	100	100	100
OK	95	75	85
SC	99	98	99
TN	100	100	100
TX	83	85	74
14 STATES	92	92	88

THESE 14 STATES PRODUCED 99%  
OF THE 1989 COTTON CROP.

COTTON			
% HARVESTED			
	1990	1989	AVG.
AL	92	52	74
AZ	60	44	42
AR	73	51	76
CA	50	55	52
GA	78	43	57
LA	96	82	87
MS	87	49	80
MO	72	80	83
NM	30	30	23
NC	64	31	42
OK	25	7	15
SC	73	41	61
TN	70	66	76
TX	32	28	24
14 STATES	55	43	48

THESE 14 STATES PRODUCED 99%  
OF THE 1989 COTTON CROP.

GRAIN SORGHUM			
% HARVESTED			
	1990	1989	AVG.
AR	94	98	98
CO	36	46	46
IL	20	78	80
KS	85	60	55
LA	97	100	100
MS	98	93	97
MO	62	85	77
NE	90	84	75
NM	45	NA	NA
OK	20	25	35
SD	97	93	71
TX	77	74	76
12 STATES	78	NA	NA
EXCL. STATES WITH NA	79	70	67

THESE 12 STATES PRODUCED 98%  
OF THE 1989 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

### Crop Condition PERCENT

FOR WEEK ENDING OCTOBER 28, 1990

WINTER WHEAT						
STATE	VP	P	F	G	EX	
AR	0	0	22	78	0	
CA	NA					
CO	0	3	13	71	13	
GA	0	9	58	33	0	
ID	0	4	33	48	15	
IL	0	0	27	71	2	
IN	0	2	41	52	5	
KS	0	2	15	50	33	
MI	1	4	25	50	20	
MO	0	1	47	49	3	
MT	2	20	41	31	6	
NE	0	8	38	52	2	
NC	NA					
OH	0	3	27	59	11	
OK	0	0	10	83	7	
OR	0	0	38	62	0	
SD	0	9	32	55	4	
TX	NA					
WA	0	10	50	40	0	
19 STATE	0	4	24	58	14	
PREV WEEK	0	6	39	41	14	
PREV YEAR	1	7	26	55	11	

NA - NOT AVAILABLE VP - VERY POOR  
P - POOR F - FAIR G - GOOD EX - EXCELLENT

## 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 mostly 1.00 to 2.00 in. north, east; 0.50 in. or less elsewhere. Temperatures 5 to 8° below normal; seasons first freeze many locations.

Days suitable for fieldwork 4.7. Soil moisture 3% very short, 51% short, 46% adequate. Scattered showers improved soil moisture; benefitted small grains. Sorghum 97% harvested, 87% 1989, 87% avg. Cotton 100% bolls opening, 99% 1989, 100% avg.; 92% harvested, 52% 1989, 74% avg. Peanuts 99% combined, 99% 1989, 89% avg. Soybeans 99% turning color, 97% 1989, 98% avg.; 93% dropping leaves, 88% 1989, 89% avg.; 88% mature, 81% 1989, 77% avg.; 50% harvested, 41% 1989, 43% avg.; 27% very poor, 38% poor, 21% fair, 14% good. Winter wheat 36% seeded, 50% 1989, 44% avg. Pastures 20% very poor, 31% poor, 37% fair, 12% good. Livestock 3% poor, 59% fair, 38% good. Primary activities: Harvesting cotton, soybeans, sorghum, sweetpotatoes; destroying cotton stalks; overseeding, fertilizing pastures; preparing land, seeding winter annuals; routine care of livestock, poultry, catfish.

**ARIZONA:** Sunny skies, dry statewide through 24th; warmer, high temperatures 25th to 27th. Temperatures 4° below normal to 6° above; no rain statewide.

Cotton harvested 60%, 44% 1989, 42% avg., defoliation continued active; weed infestations mostly light, insects moderate. Alfalfa harvest moderate to active; weed insect, disease infestations mostly light statewide; good. Lemon, grapefruit harvest, packing continued west; asparagus, cantaloupe, honeydews harvested west. Lemons, few navels, tangerines picked central; cantaloupe, honeydew, fall watermelon, mixed melon harvests continued central; green onions, few mixed greens, broccoli harvested Salt River Valley; apple, fall lettuce, pumpkins, mixed vegetables harvested east.

**ARKANSAS:** Below temperatures, scattered showers first part of week. Mid week weather dry and clear. Weekend dry, sunny. Extremes 25°; 82°. Rainfall none to 2.57 in.

Days suitable for fieldwork 5.0. Soil moisture 3% short, 80% adequate, 17% surplus. Main activities: Soybean, grain sorghum, rice, cotton harvest; bush hogging, disking cotton stalks, rice stubble; planting winter forages; working cattle. Rice 91% harvested, 99% 1989, 98% avg.; 100% ripe, 100% 1989, 100% avg.; 70% fair, 30% good. Cotton 73% harvested, 51% 1989, 76% avg.; 100% open bolls, 96% 1989, 99% avg.; 4% poor, 42% fair, 43% good, 11% excellent. Corn 100% harvested, 100% 1989, 100% avg. Sorghum 94% harvested, 98% 1989, 98% avg.; 86% fair, 14% good. Soybeans 28% harvested, 41% 1989, 44% avg.; 59% mature, 69% 1989, 68% avg.; 79% shedding, 86% 1989, 82% avg.; 2% very poor, 25% poor, 50% fair, 23% good. Wheat 21% planted, 50% 1989, 47% avg.; 13% emerged, 31% 1989, 29% avg.; 22% fair, 78% good. Oats 53% planted, 64% 1989, 51% avg. Pecan prospects very poor to poor. Pasture 15% poor, 80% fair, 5% good. Livestock good. Rain slowed crop harvest. Frost, colder temperatures hasten soybean leaf drop, maturity rates. Wheat seeding delayed due to late soybean harvest.

**CALIFORNIA:** High pressure prevailed with weather systems continuing to track well to the north, just dragging a few clouds through the north end of the

State. Two systems just brushed northern areas with light rain, otherwise the State remained dry. Temperatures were mostly above to much above normal.

Field activity progress good, warm, dry weather. Rice harvest good progress, nearly complete weekend. Stubble burning good progress, favorable conditions. Cotton harvest, shredding, discing for pink bollworm control, full swing. Corn, dry bean, sugarbeet, sunflower harvests active. Field preparation small grains active. Seeding gained momentum, mostly irrigated acreage. Some new alfalfa seeded. Alfalfa, sudan harvests normal. Packing Fuji, Granny Smith apples continued. Date harvest active. Susan avocado harvest winding down. Nearly all of raisin crop picked up, boxed. Several late season table grape varieties picked. Wine grape harvest virtually complete. Fumigating, treating vineyards for nematodes active. Stone fruit harvest essentially complete; pruning, post irrigating active. Wonderful pomegranates packed; good color, quality. Packing persimmons, kiwifruit continued. Almond, walnut harvests winding down; pecan growers preparing for harvest. Olive harvest continued. Valencia orange harvest winding down. Harvesting new crop Navel oranges low volume; color, maturity developing slowly. Packing desert grapefruit, lemons, tangerines continued. Broccoli moderate supply, generally good quality. Cauliflower light supply, variable quality. Celery seasonally heavy supply, generally good quality. Iceberg head lettuce moderate supply, variable quality, Huron area. Fresh market tomato harvest continued. Potato harvest continued Hemet Perris, nearing completion Tulelake Butte Valley areas. Sweetpotato harvest winding down. Onion, garlic planting continued westside. Livestock good statewide with feeding of hay, supplements. Range conditions very poor to fair. Water supplies extremely short southern areas. Fall calving continued most areas. Sheep continued grazing off alfalfa fields Fresno area.

**COLORADO:** Started out cool, damp followed by warmer weather later in the week. Precipitation trace to 1.35 in. Temperatures 1 to 3° below normal.

Days suitable for fieldwork 5.3. Soil moisture 1% very short, 22% short, 75% adequate, 2% surplus. Fourth cutting alfalfa 67% complete. Corn harvest 35% complete. Sorghum harvest 36% complete. Fall potato harvest 97% complete. Sugarbeet harvest 81% complete. Winter wheat 95% emerged. Pasture, range feed conditions 2% very poor, 8% poor, 35% fair, 48% good, 7% excellent. Livestock in mostly good to excellent.

**FLORIDA:** Temperatures cooled over the week; frost common, interior areas Panhandle, Big Bend. Temperatures 4 to 8° below normal north, 1 to 4° below, Peninsula. Extreme highs upper 70s Panhandle to mid 80s elsewhere in north to low 90s south. Coolest lows, low, mid 30s northern interior to mid 50s southeast coast. Most rain in first half of week. Amounts around 1.00 in. common over western Panhandle; 1.00 to 2.00 in. totals common lower east coast. Elsewhere, most totals under 0.25 in.; greater amounts only isolated locations. Soil moisture mostly short Panhandle, northern Peninsula; adequate central, southern Peninsula. Soybean, cotton harvests active; cotton harvest about 75 percent complete. Sugarcane harvest

increased with opening of more mills. Planting small grains, sugarcane active. Pastures 5% very poor, 5% poor, 40% fair, 35% good, 15% excellent. Cattle fair to good north, good to excellent south. Citrus trees in mostly excellent. Rainfall variable with cool front. Soil moisture only adequate. Fruit droppage not excessive. Harvest of oranges, grapefruit, tangerines, tangelos increasing. Cold front over vegetable producing areas generally welcomed. Very limited rainfall. Fall harvest near peak northern areas, gaining southern areas. Volume leaders: Cucumbers, tomatoes, sweet corn, squash, peppers, eggplant. Light harvest specialty types lettuce underway.

**GEORGIA:** Rain 1.00 to 3.00 in. northwest isolated heavier amounts. Rain on 22nd. Southeast under 0.25 in. Cool week, temperatures 3 to 6° below normal, except 2 to 4° below normal southeast. First frost, freeze. Coldest mostly 30s, mid 20s mountains to near 40° along coast. Warmest upper 60s extreme north, mid 80s extreme south.

Days suitable for fieldwork 4.1. Soil moisture 3% very short, 14% short, 62% adequate, 21% surplus. Rain slowed corn harvest. Cotton 20% very poor, 20% poor, 32% fair, 25% good, 3% excellent. Sorghum 5% very poor, 28% poor, 53% fair, 14% good; 82% harvested for grain, 82% 1989, 82% avg. Peanuts 34% very poor, 44% poor, 22% fair; 98% dug, 99% 1989, 98% avg.; 96% threshed, 95% 1989, 92% avg. Soybeans 27% very poor, 47% poor, 24% fair, 2% good. Wheat 9% poor, 58% fair, 33% good; Rain, cooler temperatures promoting small grain seeding. Rye 19% poor, 43% fair, 38% good; 55% planted, 63% 1989, 55% avg. Other small grains 34% planted, 36% 1989, 40% avg. Apples 1% very poor, 24% fair, 75% good; 98% harvested, 88% 1989, 97% avg. Pecans 2% very poor, 33% poor, 65% fair; 20% harvested, 18% 1989, 17% avg. Hay 7% very poor, 20% poor, 49% fair, 24% good. Pasture 3% very poor, 17% poor, 43% fair, 36% good, 1% excellent. Cattle, hogs fair to good, mostly good. Main activities: Harvesting cotton, peanuts, soybeans, pecans; seeding small grains; land preparation.

**HAWAII:** Fair weather dominated island weather. Days mostly sunny with scattered light to moderate showers. Winds variable 5 to 20 mph. Temperatures high 60s to low 90s. Rainfall none to 2.20 in.

Days suitable for farm work 7.0. Papaya orchards in fair condition. Sugar, pineapple harvest continuous. Early ginger root harvest underway.

**IDAHO:** Above normal temperatures, generally below normal precipitation.

Days suitable for fieldwork 6.0. Soil moisture 17% very short, 35% short, 48% adequate. Winter wheat mostly good. Potato harvest winding down; 99% harvested, 99% 1989, 97% avg. Sugarbeets 76% harvested, 72% 1989, 72% avg. Corn for grain 24% harvested, 36% 1989, 47% avg. Apple harvest finishing up; 99% harvested, 81% 1989, 93% avg. Farmers preparing land for next year. Rangeland, pasture 4% very poor, 20% poor, 45% fair, 28% good, 3% excellent. Hay, roughage supplies mostly adequate; short, south central. Gathering livestock, working cow herds, weaning, shipping calves to market.

**ILLINOIS:** Temperatures 4 to 7° below normal. Precipitation sparse, scattered showers less than 0.10 in.

Days suitable for fieldwork 6.50. Soil moisture 5% short, 82% adequate, 13% surplus. Sorghum 5% poor, 37% fair, 53% good, 5% excellent. Sorghum mature 94%, 100% 1989. Livestock roughage requirements from pasture 65%, 64% 1989, 58% avg. Pasture 33% fair, 61% good, 6% excellent.

**INDIANA:** Temperatures 4 to 8° below normal. Lows upper 20 to mid 30s, highs mid to upper 50s. First widespread hard freeze 26th morning. Precipitation none to 0.33 in.

Days suitable for fieldwork 5.6. Topsoil 71% adequate, 29% surplus. Subsoil 73% adequate, 27% surplus. Corn 23% moisture content; soybeans 13% moisture content. Apples 90% harvested. Pasture 1% poor, 41% fair, 51% good, 7% excellent. Harvesting advanced rapidly. Ideal weather for seeding, tilling.

**IOWA:** Temperatures 0 to 4° below normal. Extremes 20°; 75°. Precipitation none to 0.05 in.; average trace.

Days suitable for fieldwork 6.1. Topsoil 20% short, 80% adequate. Subsoil 12% short, 88% adequate. Pasture 11% poor, 33% fair, 52% good, 4% excellent. 1991 row crop acreage 25% tilled, 34% 1989, 28% avg. 1991 row crop acreage 20% fertilizer applied, 26% 1989, 21% avg. Livestock mostly good. Movement of cattle to stalk, stubble fields on the increase. Calves being weaned. Sale barns busy from cattle sales.

**KANSAS:** Temperatures near normal central third, northeast, east central. Above normal over rest of State. Precipitation light over State; largest amount northwest 0.39 in.; driest area south central.

Days suitable for fieldwork 6.5. Surface moisture 79% short, 21% adequate. Subsurface moisture 61% short, 39% adequate. Dry weather pushed corn, sorghum, soybean harvest to completion many districts. Wheat seeding complete central, western districts. Some dryland acreage dusted in; needs moisture to emerge. Range, pastures providing marginal grazing some areas. Movement livestock into irrigated wheat, corn, sorghum stubble increasing. Variable temperatures caused some livestock health problems. Stock ponds reaching low levels some districts.

**KENTUCKY:** Temperatures upper 40s, a 1 to 2° below normal. Many locations overnight lows below freezing, afternoon highs 60s. Heavy rain most areas early, some areas Eastern Kentucky nearly 3 in.

Days suitable fieldwork 3.2. Soil moisture 2% short, 77% adequate, 21% surplus. Killing freeze most areas. Wet fields limited harvesting; corn, soybean harvests behind normal. Burley 20% stripped, 17% 1989, 19% avg. Good weight, quality, some houseburn. Winter wheat 52% seeded, 61% 1989, 64% avg. Wheat for grain seeding active as corn, soybeans harvested. Pasture condition 1% poor, 9% fair, 75% good, 15% excellent. Overall feed supplies ample.

**LOUISIANA:** Temperatures 6 to 8° below normal. Extremes 33°; 88°. Rainfall 1.09 to 2.84 in.

Days suitable for fieldwork 4.8. Soil moisture 17% short, 77% adequate, 6% surplus. Cotton harvested 96%, 82% 1989, 87% avg. Hay final cutting 97%, 100% 1989, 98% avg. Pecans harvested 22%, 16% 1989, 11% avg. 50% poor, 50% fair. Rice harvested 100%, 100% 1989, 100% avg. Sorghum harvested 97%, 100% 1989, 100% avg. Soybeans turning color 100%, 100% 1989, 98% avg.; shedding leaves 75%, 100% 1989, 92% avg.; harvested 67%, 79% 1989, 60% avg. Sugarcane planted 99%, 100% 1989, 98% avg.; harvested 4%, 28% 1989, 23% avg.; 12% poor, 50% fair, 38% good. Sweetpotatoes harvested 81%, 79% 1989, 86% avg. Wheat planted 9%, 24% 1989, 20% avg.; emerged 5%, 9% 1989, 11% avg. Livestock 39% fair, 61% good. Pasture 4% very poor, 9% poor, 59% fair, 28% good. Vegetable 8% poor, 54% fair; 38% good.

**MARYLAND & DELAWARE:** **MARYLAND:** Precipitation 1.63 in. Temperature 55°, normal 54°. Extremes 24°; 78°.

Days suitable for fieldwork 4.2. Topsoil 5% short, 72% adequate, 23% surplus. Subsoil 14% short, 77% adequate, 9% surplus. Corn good; grain 74% harvested, 67% 1989, 80% avg. Soybeans good; 94% shedding leaves, 86% 1989, 92% avg.; 40% harvested, 38% 1989, 39% avg. Small grains good condition. Wheat 53% seeded, 51% 1989, 64% avg. Oats 42% seeded, 19% 1989, 62% avg. Barley 90% seeded, 81% 1989, 86% avg. Rye 81% seeded, 63% 1989, 76% avg. Sweetpotatoes 95% harvested, 91% 1989, 91% avg. Hay supplies adequate. Alfalfa hay fourth cut 94% complete, 79% 1989, 90% avg. Other hay third cut 87% complete, 68% 1989, NA% avg. Pasture good.

**DELAWARE:** Precipitation 0.92 in. Temperature 58°, normal 55°. Extremes 29°; 77°.

Days suitable for fieldwork 5.1. Topsoil 100% adequate. Subsoil 33% short, 67% adequate. Corn good; grain 91% harvested, 89% 1989, 91% avg. Soybeans good; 97% shedding leaves, 87% 1989, 93% avg.; 50% harvested, 26% 1989, 36% avg. Small grains good. Wheat 43% seeded, 40% 1989, 44% avg. Barley 87% seeded, 69% 1989, 79% avg. Rye 69% seeded, 56% 1989, 56% avg. Hay supplies adequate. Apples fair to good; 94% harvested, 97% 1989, 96% avg. Pasture good.

**MICHIGAN:** Temperatures 2 to 7° below normal. Extremes 18°; 68°. Precipitation none to 0.54 in. across State.

Days suitable for fieldwork 5.0. Soil moisture 40% adequate, 60% surplus. Corn 95% mature, 100% 1989, 99% avg.; 20% harvested, 55% 1989, 40% avg.; soybeans, 55% harvested, 90% 1989, 55% avg.; winter wheat 85% seeded, 100% 1989, 85% avg.; 75% emerged, 85% 1989, 70% avg; 1% very poor, 4% poor, 25% fair, 50% good, 20% excellent. Dry bean harvest is nearly complete. Excellent yield, quality has been reported. Major activities: Harvesting soybeans, corn, sugarbeets, potatoes, planting winter wheat. Fruit, vegetable harvest is nearly complete.

**MINNESOTA:** Temperatures 1 to 2° below normal. Extremes 18°; 80°. Precipitation none to 0.01 in., greatest weekly total 0.41 in.

Days suitable for fieldwork 5.3. Topsoil 9% very short, 22% short, 65% adequate, 4% surplus. Corn 67% combined, 92% 1989, 69% avg. Field Corn 28% plowed, tilled, 45% 1989, 40% avg. Soybeans 55% plowed, tilled, 63% 1989, 54% avg. Corn 21% moisture, 17% 1989, 20% avg.

**MISSISSIPPI:** Temperatures 6° below normal. Extremes 28°; 87°. Mostly dry statewide, with little rainfall. Rainfall 0.71 in., 0.11 in. above normal. Soil temperatures 60°.

Days suitable for fieldwork 5.5, 6.4 1989, 4.2 avg. Soil moisture 16% very short, 24% short, 52% adequate, 8% surplus. Cotton 87% harvested, 49% 1989, 80% avg.; 5% very poor, 9% poor, 46% fair, 30% good, 10% excellent. Corn 97% harvested, 90% 1989, 94% avg.; 3% very poor, 5% poor, 44% fair, 36% good, 12% excellent. Rice, 95% harvested, 97% 1989, 98% avg.; 14% very poor, 15% poor, 26% fair, 34% good, 11% excellent. Soybeans 97% shedding leaves, 94% 1989, 97% avg.; 51% harvested, 43% 1989, 45% avg.; 16% very poor, 32% poor, 26% fair, 25% good, 1% excellent. Sorghum 98% harvested, 93% 1989, 97% avg.; 5% poor, 39% fair, 44% good, 12% excellent. Hay 98% harvested, 97% 1989, 97% avg. Peanuts 97% harvested, 95% 1989, 96% avg. Sweetpotatoes 91% harvested, 75% 1989, 84% avg. Wheat 31% planted, 50% 1989, 37% avg.; 25% emerged, 32% 1989, 35% avg.; 4% very poor, 7% poor, 49%

fair, 40% good. Pasture, livestock fair to good. Activities: Harvesting crops, planting wheat.

**MISSOURI:** Temperatures 5° below normal. Virtually no rain except parts of Bootheel 0.50 in.

Days suitable for fieldwork 6.1. Topsoil 21% short, 75% adequate, 4% surplus. Southeastern district at 27% surplus is the only area with excess moisture. Corn harvest most advanced southeastern district 93%, northwest 86%, least advanced east central 69%. Soybean harvest varies 35% southern districts to 75% or more northern districts. Sorghum harvest ranges 30% east central to 85% southeast. Ground worked at least once for spring crops 24%, 31% 1989, 28% avg. Pasture 6% poor, 47% fair, 45% good, 2% excellent.

**MONTANA:** Light precipitation west. Temperatures above normal with central, south central 5° above normal.

Days suitable for fieldwork 6.7. Topsoil 72% short, 27% adequate, 1% surplus. Subsoil 76% short, 24% adequate. Dry beans 99% harvested, 100% 1989, 96% avg. Potatoes 96% harvested, 95% 1989, 90% avg. Sugarbeets 93% harvested, 88% 1989, 88% avg. Pasture, range feed 6% very poor, 19% poor, 35% fair, 37% good, 3% excellent.

**NEBRASKA:** Temperatures 1° above normal east up to 5° above west. Extremes 19°; 85°. Only light precipitation first half of week.

Days suitable for fieldwork 6.2. Topsoil 79% short, 21% adequate. Subsoil 86% short, 14% adequate. Eastern growers field losses surprisingly low considering the amount of corn borer damage. Sorghum producers were able to pick up most of crop that was knocked down by recent high winds. Winter wheat growth was slow due to cool weather, last weeks warmer days helped it catch up to normal in some areas. Light rain helped some areas, a good rain needed statewide. Sugarbeet harvest continued, Panhandle. Clinch bug populations extremely high for this time of year, some eastern counties. Farmers fencing harvested fields, working fall tillage after completing harvest. Pasture, range 12% very poor, 37% poor, 38% fair, 13% good. Most cattle in harvested fields, winter pastures. Others receiving supplemental feedings. Calves, yearlings, culls moving to market, western part of State.

**NEVADA:** Light showers north early. Indian summer returned remainder of week with warm, dry days, fair nights. Temperatures on cool side early, quickly warmed to well above normal remainder. Extremes 8°; 94°.

Main ranch, farm activities included irrigating winter grains, garlic, leveling land, fixing fences, controlling rodents, weeds, working on machinery, moving, sorting cattle, preparing for winter. Harvesting operations essentially completed for 1990 season. Marketing 1990 crop potatoes slow due to low prices.

**NEW ENGLAND:** Precipitation 1.60 to 2.70 in. north, 1.60 to 2.85 in. central, 1.50 to 3.35 in. south. Temperatures mid 30s northern Maine to low 50s south. Temperatures above normal north, coast; normal elsewhere.

Maine potato harvest 90% complete. Major farm activities: Spreading manure, plowing fields, finishing chopping corn.

**NEW JERSEY:** Temperatures near normal. Extremes 26°; 76°. Rainfall 1.77 in. north, 1.46 in. central, 1.03 in. south. Heaviest 24 hour total 2.33 in. on 23rd, 24th. Estimated soil moisture percent field

capacity averaged 98% north, 96% central, 94% south. Four inch soil temperatures averaged 52° north, 55° central, 56° south.

Soil moisture adequate to excessive. Fall vegetable harvest well advanced. Harvest of apples, cranberries, sweetpotatoes nearing completion. Corn silage making complete in most areas. Harvest of soybeans, corn for grain active as conditions permit. Fall sown grains have made good growth. Limited pasture growth continues. Soil preparation, seeding of grains, cover crops continue as field conditions permit.

**NEW MEXICO:** Temperatures well above normal. No precipitation.

Days suitable for fieldwork 6. Soil moisture 40% short, 57% adequate, 3% surplus. Apple harvest almost complete, fair to good condition. Peanut harvest underway with good yields. Cattle fair to excellent; sheep fair to good. Range 2% poor, 57% fair, 41% good.

**NEW YORK:** Extremely wet. Rain fell every day, 0.60 in. at Buffalo to 3.12 in. at Poughkeepsie. Temperatures near normal. Extremes 16° at Ellenburg Depot; 71° at New York City.

Days suitable for fieldwork 3.8. Soil moisture surplus to excessive. Wetness continued to delay fieldwork. Pastures 16% poor, 38% fair, 46% good. Corn mostly good. Silage corn 83% harvested, 86% 1989, 84% avg. Grain corn 20% harvested, 27% 1989, 27% avg. Growing season finished. Corn will begin rapidly drying down with sunshine, warmth. Dry bean harvest delayed. Quality of beans left in field reduced by wetness. Cover crop in very good condition. Vegetable harvest virtually complete. Few late season crops remain for harvest. Fields, equipment being prepared for winter.

**NORTH CAROLINA:** Temperatures normal to 3° above in the Piedmont, 3° to 4° above normal in the Coastal Plain, 2° below normal in the Mountains. Precipitation 1.36 to 5.95 in.

Days suitable for fieldwork 3.0. Soil moisture 7% short, 55% adequate, 38% surplus. Pasture 2% poor, 44% fair, 48% good, 6% excellent. Livestock feed from pasture 72%. Harvested: Corn for grain 92%; sweetpotatoes 90%; apples 98%; sorghum 74%; soybeans 18%; peanuts dug 87%; peanuts threshed 82%; cotton 64%. Soybeans dropping leaves 89%; wheat emerged 16%. Planted: Wheat 23%; oats 42%; barley 49%; rye 41%. Crop condition: Cotton 3% poor, 28% fair, 61% good, 8% excellent; soybeans 16% poor, 56% fair, 27% good, 1% excellent; peanuts 37% fair, 63% good; sweetpotatoes, 2% poor, 33% fair, 60% good, 5% excellent. Major activities: Harvesting corn, cotton, peanuts, soybeans, sweet potatoes; planting small grains; tending livestock; land preparation. Other activities included: Seeding pastures; harvesting sorghum; hay harvest; cutting wood; general farm maintenance.

**NORTH DAKOTA:** Temperatures 2 to 4° above normal. Precipitation less than 0.10 in. north central, northeast with none for other districts.

Days suitable for fieldwork 7.0. Topsoil 58% very short, 38% short, 4% adequate. Subsoil 65% very short, 35% short. Sunflower 96% harvested, 98% 1989, 75% avg. Corn for grain 80% harvested, 94% 1989, 74% avg. Soybeans 99% harvested, 100% 1989, 95% avg. Pastures 35% very poor, 45% poor, 20% fair. Stockwater supplies 16% very short, 46% short, 38% adequate.

**OHIO:** High temperatures low to upper 50s; 3 to 8° subnormal. Low temperatures low to upper 30s; near

to 5° subnormal. Extremes 23°; 65°. Precipitation 0.10 to 1.20 in., near average statewide.

Days suitable for fieldwork 4.0. Soil moisture 50% adequate, 50% surplus. Ability to perform field activities depended on how quickly fields drained, soils dried. Corn harvest more than a week behind average. Moisture content of harvested corn was 24%. Soybeans tested at 14% moisture. Winter wheat planting delayed to the point not all intended acreage may be planted. Emerged wheat rated good. Fall apple harvest 86% complete, potatoes 90%, sugarbeets 43%. Tobacco stripping continued.

**OKLAHOMA:** Temperatures 2° below normal Panhandle to 9° below normal southeast. No precipitation.

Days suitable for fieldwork 6.5. Topsoil 30% short, 70% adequate. Subsoil 5% short, 95% adequate. Wheat 10% fair, 83% good, 7% excellent; 95% planted, 95% 1989, 85% avg.; 70% emerged, 75% 1989, 60% avg. Cotton 95% open bolls, 75% 1989, 85% avg.; 25% harvested, 7% 1989, 15% avg. Sorghum 20% harvested, 25% 1989, 35% avg. Soybeans 40% harvested, 40% 1989, 30% avg. Peanuts 40% harvested, 55% 1989, 45% avg. Pastures 45% fair, 50% good, 5% excellent. Cattle good; marketings stable, prices mixed from preceding week.

**OREGON:** Warm, wet, windy west. Precipitation 1.00 to 4.00 in. coast, coastal range, Willamette Valley, Columbia Gorge. Temperatures normal to 7° above entire State except northeast, north central mostly normal to 3° below. Largest departure from normal central area, southwest 3 to 7° above. Most eastern areas received 0.66 in. to 2.25 in. northeast mountains, 0.33 to 1.00 in. other parts of east.

Soil moisture 63% short, 34% adequate, 3% surplus. Barley 49% planted, 70% 1989, 58% avg. Other activities: Late grass seed, other grain planting; herbicide applications, fall tillage. Hazelnut harvest virtually completed Willamette Valley; walnut harvest nearly completed. Fall sprays applied in green fruit orchards. Tree fruit harvest complete all areas. Cranberry harvest continued south coast. Wine grape picking continued. Potato harvest winding down most areas, except late season digging in full swing Umatilla Co. Some fall vegetable harvesting continued west. Livestock good to excellent. Gathering, weaning, shipping calves; fall cow work. Range, pasture 40% poor, 42% fair, 18% good.

**PENNSYLVANIA:** Near normal temperatures, above normal rainfall. Temperature 48°, 1° below normal. Extremes 19°; 74°. Precipitation 1.40 in, 0.74 in above normal.

Days suitable for fieldwork 3. Soil moisture 20% adequate, 80% surplus. Corn 76% mature, 82% 1989, 90% avg.; 18% harvested, 25% 1989, 36% avg. Ensilage corn 79% harvested, 88% 1989, 92% avg. Corn 1% very poor, 5% poor, 20% fair, 45% good, 29% excellent. Soybean harvest 15% complete, 28% 1989, 33% avg. Soybean 1% very poor, 5% poor, 23% fair, 49% good, 22% excellent. Potato harvest 89% complete, 95% 1989, 95% avg. Fall plowing 79% complete, 82% 1989, 91% avg. Winter wheat 80% planted, 86% 1989, 90% avg. Barley 93% planted, 97% 1989, 97% avg. Third cutting alfalfa 90% complete, 95% 1989. Fourth cutting alfalfa 62% complete, 66% 1989. Second cutting timothy clover 98% complete, 100% 1989, 100% avg. Quality of hay made during week mostly poor to fair. Quality of feed being obtained from pasture 9% poor, 51% fair, 40% good. Apple harvest 87% complete, 85% 1989. Grapes harvest 89% complete, 89% 1989. Activities: Harvesting hay, haylage, potatoes, corn, corn

silage, soybeans, fruits, vegetables; fall plowing, planting; maintaining machinery; fixing fences.

**PUERTO RICO:** Rainfall of 5.25 in. was 3.51 in. above normal. Highest weekly total 13.60 in. at Guayama, 11.64 in. at Corral Viejo, 10.30 in. at Aguirre. Highest 24 hour total 5.60 in. at Guayama. Divisional temperature 79 to 80° on the Coasts, 73 to 76° in the Interior with mean station temperature 66° at Pico Del Este Luquillo to 82° at Roosevelt Roads N.S. Extremes 62°; 93°.

**SOUTH CAROLINA:** Temperatures varied 50 to 70° for period. Rainfall 1.50 in. in southern part of the State to 4.80 in. in north central.

Days suitable for fieldwork 3.6. Soil moisture 9% short, 71% adequate. 20% surplus. Cotton 2% very poor, 42% poor, 56% fair, 73% harvested, 41% 1989, 61% avg. Soybeans 7% very poor, 8% poor, 69% fair, 16% good, 95% leaves turning, 93% 1989, 95% avg.; 74% shedding leaves, 71% 1989, 75% avg.; 60% matured, 57% 1989, 56% avg.; 14% harvested, 7% 1989, 11% avg. Sorghum fair to good, 76% harvested, 57% 1989, 65% avg. Tobacco 94% stalks destroyed, 85% 1989, 89% avg. Peanuts poor to fair, 71% harvested, 78% 1989, 75% avg. Pastures 11% poor, 41% fair, 48% good.

**SOUTH DAKOTA:** Temperatures generally 0° to 4° above normal. Extremes 10°; 83°. Precipitation mainly confined to Black Hills, some southeast, maximum 0.43 in. Harvest season precipitation generally below normal, 2.03 in. below to 1.95 in. above normal.

Days suitable for fieldwork 5.5. Subsoil 28% critically short, 48% short, 24% adequate. Topsoil 12% critically short, 56% short, 31% adequate, 1% surplus. Range, pasture 3% very poor, 22% poor, 45% fair, 26% good, 4% excellent. Winter grains mostly good. Dry facilitated corn, other row crop harvest. Major activities: Combining, fieldwork, fencing.

**TENNESSEE:** Frontal system 23rd, 24th produced rain statewide. Weaker system 25th, 26th brought lesser amounts of rain. Temperatures considerably below normal, most stations 5 to 10° below normal. Rainfall was above average statewide.

Days suitable for fieldwork 4.4. Soil moisture 1% short, 89% adequate, 10% surplus. Corn 80% harvested for grain, 98% 1989, 91% avg. Cotton 70% harvested, 66% 1989, 76% avg. Sorghum 80% harvested, 100% 1989, 96% avg. Soybeans 90% shedding leaves, 96% 1989, 99% avg.; 55% mature, 80% 1989, 85% avg.; 2% very poor, 17% poor, 69% fair, 12% good. Tobacco 45% stripped, 36% 1989, 38% avg. Pastures 1% very poor, 1% poor, 28% fair, 65% good, 5% excellent. Cattle 1% very poor, 1% poor, 20% fair, 75% good, 3% excellent. Harvest, seeding confined to weekend.

**TEXAS:** Fine fall weather rule across State as upper level high pressure blocked entry of major weather systems. Few showers near coast early week as strong cold front headed into gulf. Surge of cold air behind front brought first freeze of season much of south Plains, parts Permian Basin. Freeze week to ten days earlier than normal. Minor cool surges hampered warming during week, pleasant conditions common by weekend. Temperatures below normal statewide. Only few light showers Upper Coast.

**Crops:** Corn harvest virtually complete except few fields High Plains. Continued open conditions allowed good harvest progress. Yields good. Grain sorghum harvest continued Plains, average yields. Harvest continued Hill country, some minor frost

damage. Harvest virtually complete Blackland. Sorghum 100% mature, 93% 1989, 95% avg. Cotton harvest full swing northern part state. Last week's freeze helped plant defoliation. Harvest virtually complete Blacklands, cool, dry conditions aided operations Trans Pecos. Because frost not hit Hill Country, producers applying harvest aids. Small grain planting active Plains, irrigated fields emerging well. Wheat planting winding down Cross Timbers, Blacklands, seeded fields making good progress. Planting continued south-central, coastal regions. Emergence fair to good. Soybean harvest continued, few delays. Yields fair to good. Peanut harvest continued Cross Timbers, Blacklands, Hill Country, fair to good yields. Harvest underway central, cool weather slowed maturity south. Other field crops: Peanuts 45% harvested, 35% 1989, 43% avg. Pecans 10% harvested, 10% 1989, 16% avg. Soybeans harvested 57% harvested, 71% 1989, 55% avg. Sugarbeets 17% harvested, 41% 1989, 31% avg. Sunflowers harvested 44%, 39% 1989, 52% avg. Oats planted 54%, 71% 1989, 70% avg.

**Commercial Vegetables:** Rio Grande Valley, fall season vegetables progression. Onion planting winding down. Pepper harvest continued. San Antonio Winter Garden, planting winter vegetables continued. Cabbage, cucumber, pepper harvest continued. Eastern State, sweetpotato harvest winding down. Fall planting continued. High Plains, pumpkin, carrot harvest winding down. Some other vegetables lost to freeze. Trans Pecos, bell pepper harvest slowed because frost. Red chile harvest continued. Pecan harvest continued most of State. Frost northern part of State helped harvest activities. Yields vary fair to good, producers south report high quality crop.

**Range and Livestock:** Pastures good to excellent most areas State. Cool, mild temperatures, coupled with few scattered showers, aided emergence winter pastures throughout state. Haying operations wind down.

**UTAH:** Temperatures 2° below normal. Precipitation moderate to heavy northern, southern central parts; light elsewhere.

Days suitable for fieldwork 6.0. Soil moisture 80% short, 20% adequate. Winter wheat 96% seeded. Fourth crop alfalfa 97% cut. Corn for grain harvest 67% complete. Apples 99% picked. Potatoes 98% harvested. Movement of cattle, sheep from summer ranges nearing completion. Range, pasture conditions 3% very poor, 44 percent poor, 53% fair.

**VIRGINIA:** Heavy rainfall caused minor to moderate flooding along portions of the James River. Temperatures 2° above normal. Extremes 20°; 79°.

Days suitable for fieldwork 2.3. Topsoil 4% short, 29% adequate, 67% surplus. Corn for grain 74% harvested, 76% 1989, 76% avg. Soybeans 21% harvested, 27% 1989, 17% avg. Peanuts 90% dug, 100% 1989, 93% avg. Peanuts combined 81%, 97% 1989, 84% avg. Winter wheat 31% seeded, 31% 1989, 32% avg. Barley 75% seeded, 70% 1989, 73% avg. Oats 82% seeded, 70% 1989, 77% avg. Pasture 4% poor, 35% fair, 46% good, 15% excellent. Apple harvest continued, fall vegetable harvest was nearing completion. Producers prepared burley, dark tobacco for marketing.

**WASHINGTON:** Temperatures 1 to 6° below normal, east; 6° below normal to 2° above normal, west. Precipitation none to 1.23 in., east; 0.46 in. to 2.03 in., west.

Days suitable for fieldwork 5.6. Soil moisture 40% short, 60% adequate. Range, pasture 2% very

poor, 28% poor, 25% fair, 45% good. Hay, other roughage 1% short, 97% adequate, 2% surplus. Winter wheat planted 98%, 97% 1989, 95% avg. Winter wheat emerged 89%, 90% 1989, 79% avg. Potatoes harvested 93%, 90% 1989, 79% avg. Corn silage harvested 98%, 98% 1989, 99% avg. Corn grain harvested 39%, 26% 1989, 49% avg. Emerged wheat 10% poor, 50% fair, 40% good. Barley 5% poor, 75% fair, 20% good. Fall fieldwork, seeding were nearing completion. Irrigation water has been shut off for the year in most areas. Only late varieties of apples continued to be harvested. The caning of raspberry fields continued. The cranberry harvest was progressing. Orchards were being renovated, including tree removal, fall planting, soil preparation, fumigation, rodent and weed control, mowing. The cattle roundup continued across the State. Calves were being weaned, marketed. Pasture growth continued in western areas.

Corn 2% fair, 49% good, 49% excellent; 86% mature, 46% harvested. Hay 29% fair, 70% good, 1% excellent; third cutting 87% complete. Wheat 87% planted. Farm activities: Hay, corn harvesting, livestock marketing, wheat seeding, stripping tobacco.

**WISCONSIN:** Temperature 43°, 1° below normal. Extremes 17°; 68°. Precipitation none to 0.10 in.

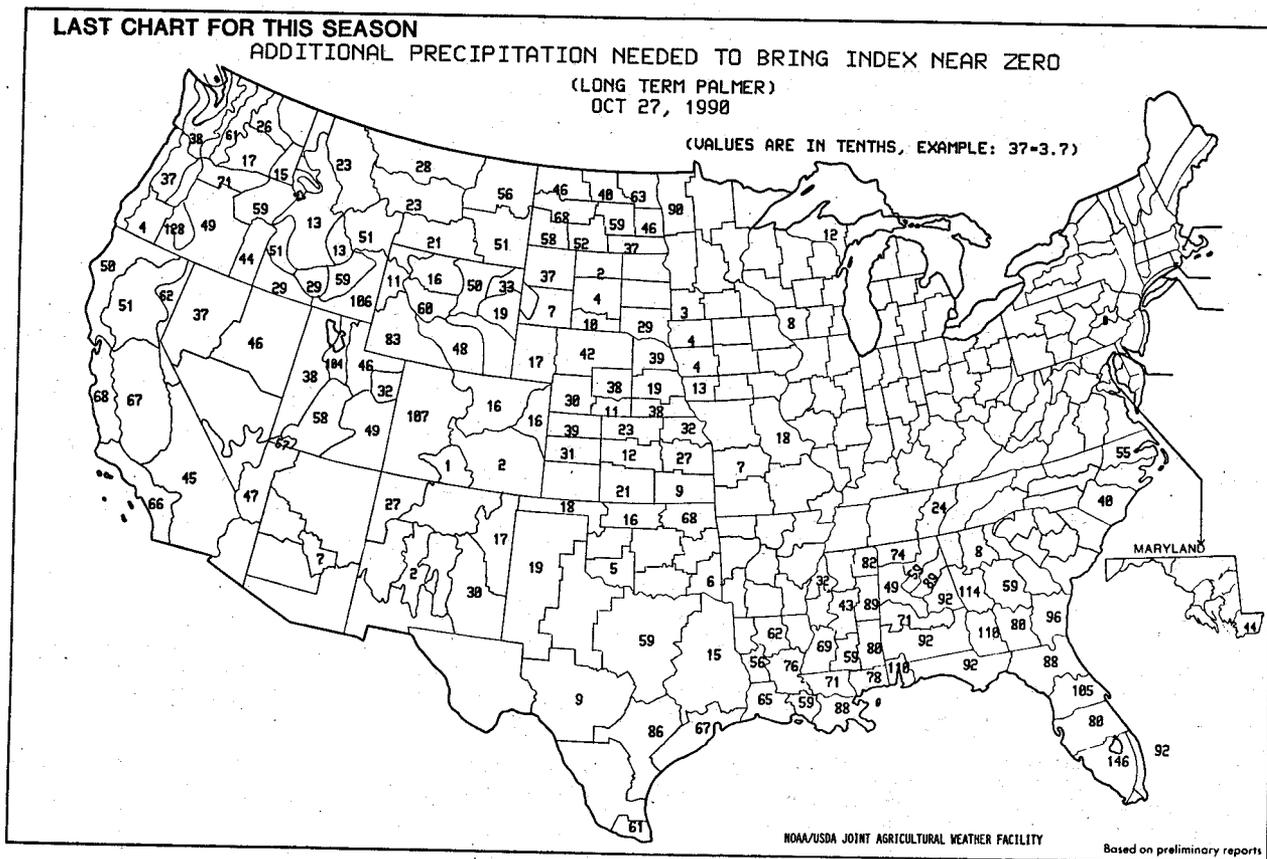
Days suitable for fieldwork 6.5. Soil moisture 3% short, 68% adequate, 29% surplus. Pasture 5% poor, 11% fair, 73% good, 11% excellent. General condition of crops 7% fair, 84% good, 9% excellent. Soybeans 62% harvested, 86% 1989, 64% avg. Corn condition 7% fair, 85% good, 8% excellent. Corn for grain 27% harvested, 61% 1989, 53% avg. Corn silo filling 91% complete, 98% 1989, 91% avg. Fall tillage 29% complete, 35% 1989, 36% avg.

**WEST VIRGINIA:** Temperature 48°, 3° below to 2° above normal. Extremes 16°; 70°. Precipitation 1.30 in.

Days suitable for fieldwork 2.4. Soil moisture 8% short, 63% adequate, 29% surplus. Pasture 42% fair, 53% good, 5% excellent. Cattle, sheep good.

**WYOMING:** Temperatures slightly above normal. Precipitation below normal.

Corn, sugarbeet harvest continuing. 1991 winter wheat fair to good. Additional moisture needed for continued favorable development. Livestock mostly good. Livestock movement to winter pastures, markets continuing.



## International Weather and Crop Summary

### HIGHLIGHTS

October 21-27, 1990

**WESTERN USSR** ... Unseasonable cold over the south prompts cold hardening in winter grains as far south as the Black Sea Coast. Several days of dryness help summer crop harvests.

**NORTHWESTERN AFRICA** ... The first significant rains of the growing season moisten Moroccan winter grain areas. Dry weather covers winter grain areas in Algeria and Tunisia.

**EUROPE** ... Widespread rain helps ease long term dryness across the south. Freezing temperatures end the growing season across the northeast.

**EASTERN ASIA** ... Moderate to heavy rain causes harvest delays in southern China and Japan.

**SOUTH ASIA** ... Showers in southern India are timely for fall plantings but cause some coastal flooding and crop damage.

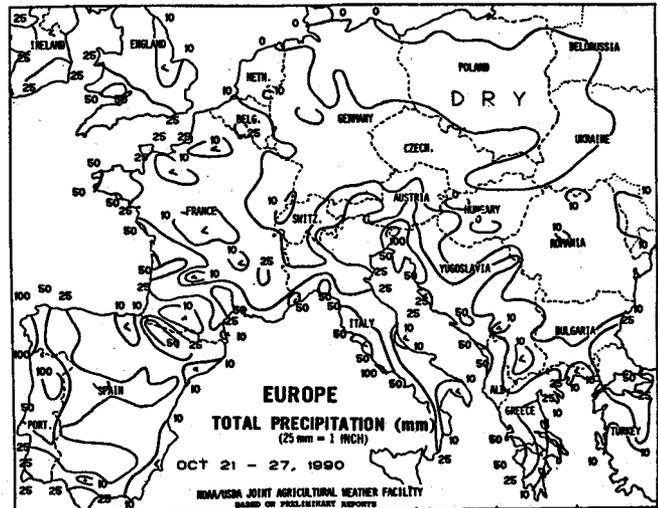
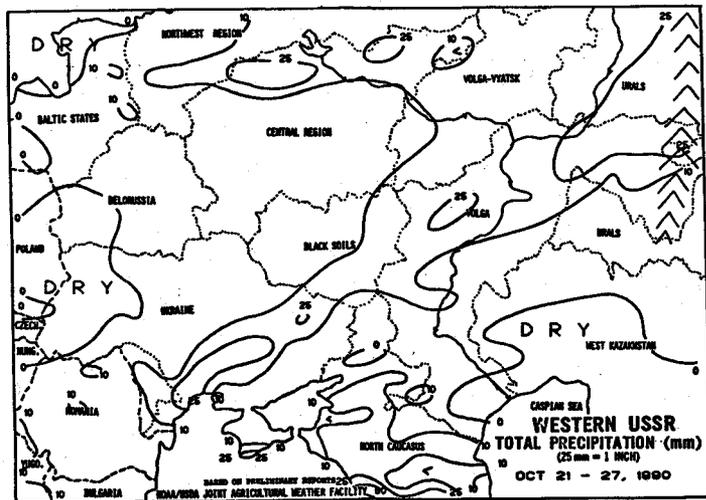
**SOUTHEAST ASIA** ... Drier weather in central and eastern Thailand benefits maturing rice and favors growth of immature late-season crops.

**SOUTH AFRICA** ... Drier weather covers the region.

**SOUTH AMERICA** ... Mild weather and showers favor Argentina's crops. Drier weather improves soybean planting conditions in south-central Brazil.

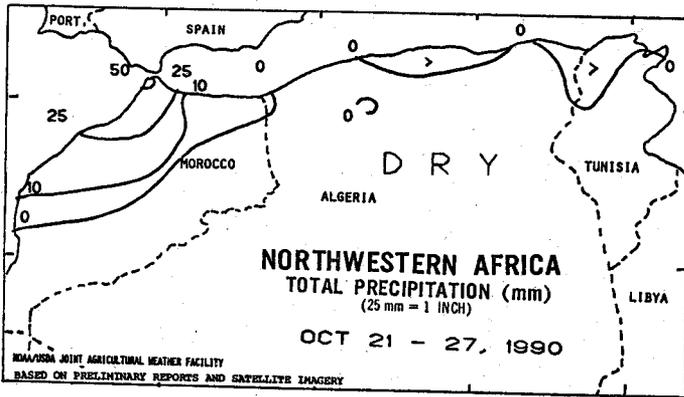
**AUSTRALIA** ... Dryness returns to eastern crop areas. Light rain favors winter grains in the southeast and southwest.

**MEXICO** ... Locally heavy showers slow harvesting in the Southern Plateau. Dryness persists in the Yucatan peninsula.

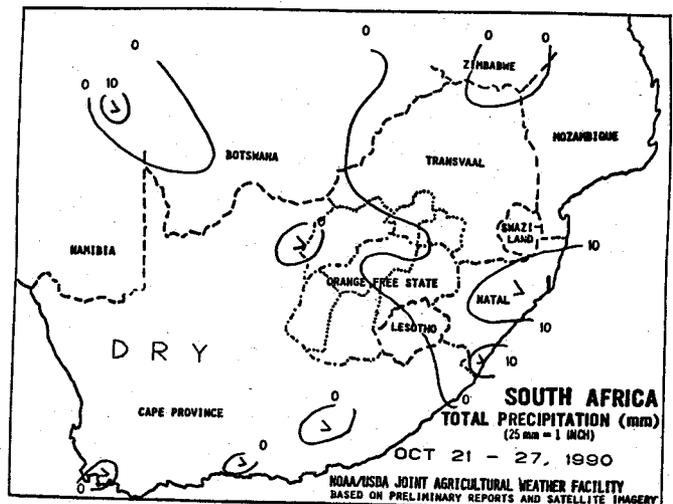


**WESTERN USSR** ... Unseasonable cold over the southern half of the region prompted cold hardening in winter grains as far south as the Black Sea Coast. Furthermore, the autumn vegetative growth of winter grains virtually ended north of a line which stretched northeastward from the southwestern Ukraine through the lower Volga. Early-week beneficial precipitation (10-28mm) covered the southwestern Ukraine, North Caucasus, eastern Black Soils Region, the upper Volga, and the southern Volga Vyatsk Region. Summer crop harvests continued to progress, however, helped by several days of late-week dry weather. By October 22, reports indicated the sunflower and sugarbeet harvests were 71 and 80 percent complete, respectively. Weekly average temperatures were near-normal in the north and 2 to 4 degrees C below normal in the south.

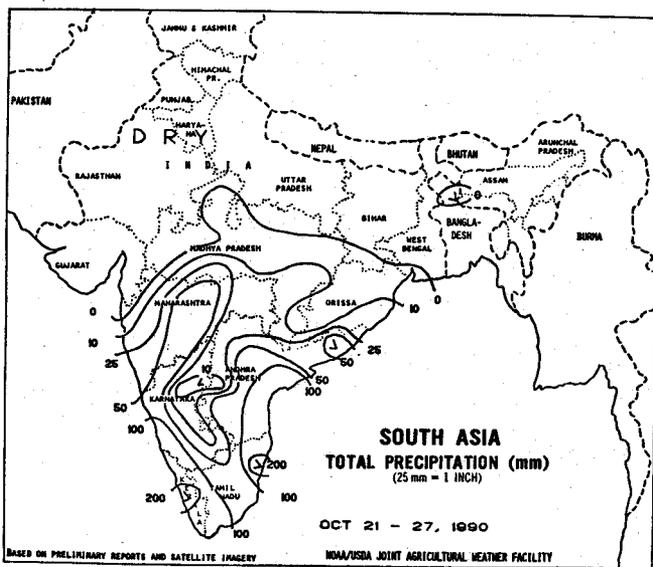
**EUROPE** ... Widespread rain (10-50mm, with scattered amounts in excess of 50mm) fell over much of southern Europe, helping to replenish irrigation reservoir levels which were abnormally low because of extended below normal rainfall. It was the heaviest rain in southern sections of the Balkans since early summer. In the northwest, occasional rain (10-30mm, with isolated amounts greater than 30mm) continued to improve soil moisture for vegetative winter grains across growing areas of England and northern France. Mostly dry and cool (mean temperatures 2 to 4 degrees C below normal) weather favored sugarbeet lifting across much of northeastern Europe. Below freezing minimum temperatures (0 to -6 degrees C) ended the growing season from Germany and Poland southeastward to northern Romania.



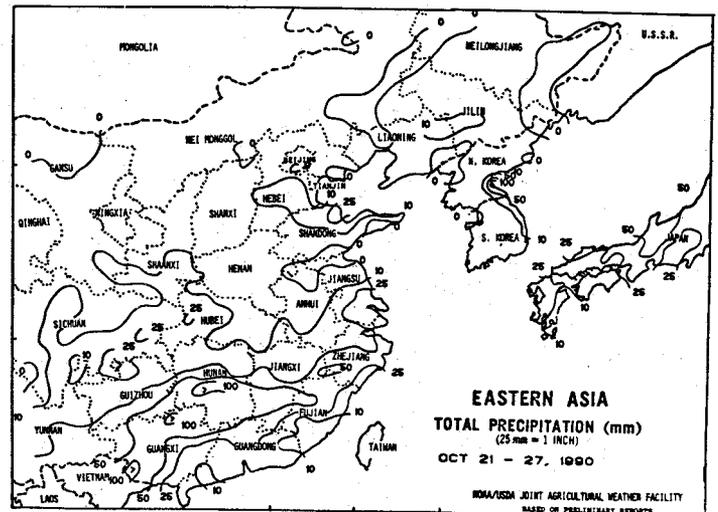
**NORTHWESTERN AFRICA** ... The first significant rain of the growing season (10-25mm) covered Moroccan winter grain areas, moistening topsoils prior to winter grain planting. In Morocco, the bulk of winter grains are planted from mid-November to mid-December. Further east, dry weather covered winter grain areas in Algeria and Tunisia. Weekly average temperatures were near- to below normal in Morocco and 1 to 3 degrees C above normal in eastern Algeria and Tunisia.



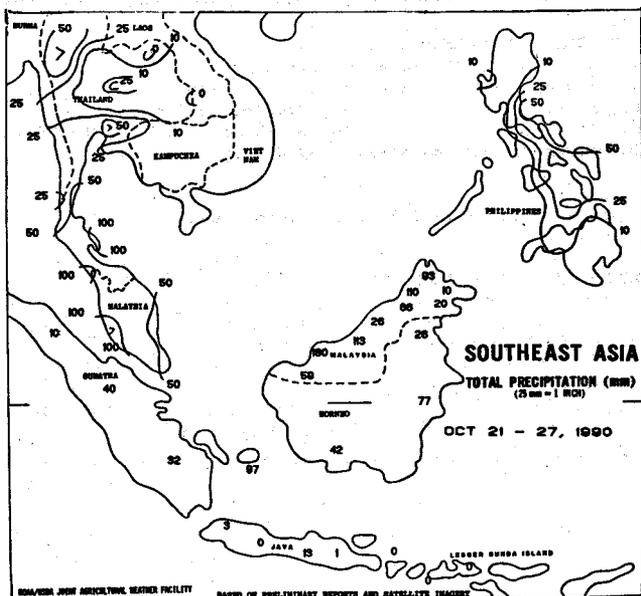
**SOUTH AFRICA** ... Mostly dry, slightly warmer-than-normal weather covered South Africa's primary grain regions, favoring maturing wheat. Light rain (5mm or less) in the eastern Maize Triangle caused minor delays in preplanting fieldwork. Rainfall ranged from 10 to 25mm over Natal's sugarcane region.



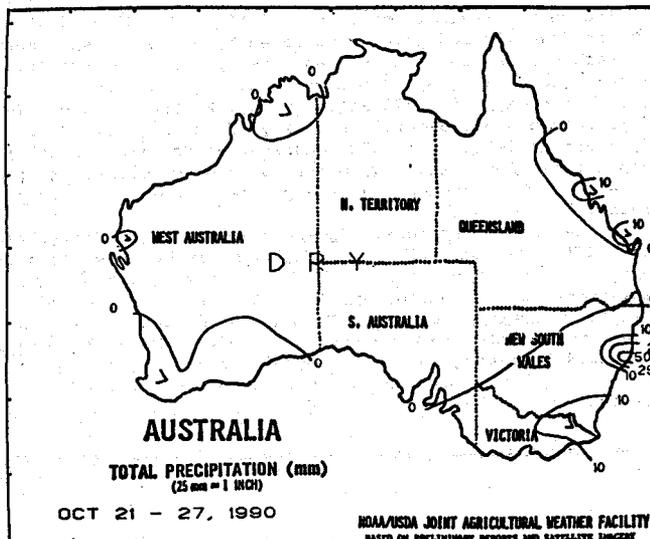
**SOUTH ASIA** ... Widespread showers over southern India increased reservoir levels but caused some flooding in coastal areas. Rainfall totaled 10-25mm or more from Maharashtra and Orissa southward, with large areas of central Maharashtra and western Andhra Pradesh receiving at least 50mm. The rainfall was timely for fall crop planting, usually well underway by November. However, very heavy rains (100-250mm) over coastal areas of Kerala, Tamil Nadu, and Andhra Pradesh caused some flooding and possibly damaged unharvested rice. Dry, mild weather across Pakistan and northern India favored winter wheat planting. Mostly dry weather continued for the second week in the east, benefiting maturing rice.



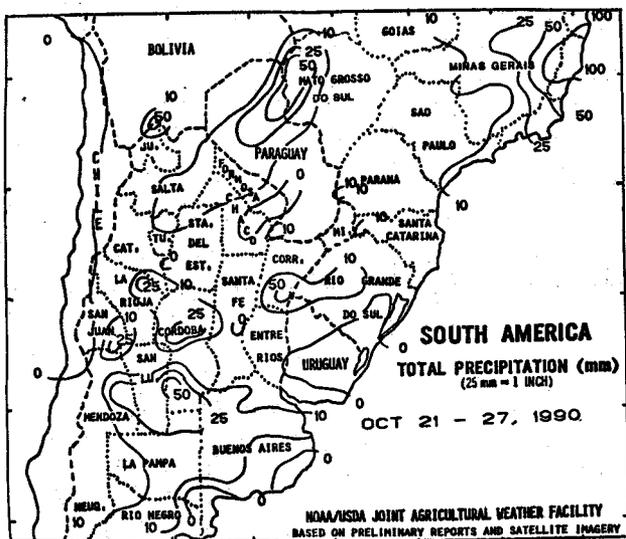
**EASTERN ASIA** ... Moderate to heavy rain (15-70mm, with scattered amounts in excess of 70mm) fell over southern China, helping to reduce dryness in some interior areas but causing overall delays in late rice harvest. Very heavy rain (100-150mm) in sections of Hunan may have caused localized flooding. Scattered light to moderate rain (5-15mm, with isolated amounts greater than 15mm) in the North China Plain benefited germination and early establishment of winter crops following 4 weeks of dry or mostly dry weather. In Japan, an area of low pressure brought widespread rain (10-60mm, with isolated amounts greater than 60mm) to most of Honshu late in the week, causing delays in rice harvest.



**SOUTHEAST ASIA** ... Mostly dry, warm weather covered primary crop areas of central and eastern Thailand, benefiting maturing main season rice and favoring growth of immature secondary crops. Moderate showers (25-50mm or more) continued over the Northern Hills and Bangkok regions. Heavier showers (50-100mm or more) continued over peninsular Thailand and extended southward through Malaysia, reflecting the recent seasonal increase in rainfall. Rainfall also exceeded 100mm over local areas of Vietnam, continuing weeks of excessive wetness. In the Philippines, data were missing for much of the week but satellite imagery depicted a decrease of shower activity from recent weeks. However, the incomplete reports indicated at least 50-100mm fell in previously flooded regions of southern Luzon.



**AUSTRALIA** ... Mostly dry and cool (mean temperatures 3-4 degrees C below normal) weather covered crop areas of interior southeastern Queensland and northeastern New South Wales, favoring winter grain harvest but delaying planting of summer crops. Scattered light to moderate showers (5-20mm) favored newly planted sugarcane in eastern coastal Queensland. Further south, mostly light rain (less than 10mm) benefited reproductive to filling winter grains in central New South Wales, Victoria, and Western Australia. Crop areas in South Australia turned mostly dry. Mean temperatures ranged from much below normal in the east to above normal across the south.



**SOUTH AMERICA** ... In Argentina, a generally favorable weather pattern continued, with a broad area of showers (10-54mm) spreading into western and southern corn and wheat areas late in the week. Light rain (less than 10mm) fell in southeastern Cordoba, southern Santa Fe, extreme northeastern Buenos Aires, and northern cotton areas through the reporting period. Weekly temperatures averaged 2 to 4 degrees C above normal, with high temperatures reaching 30 to 31 degrees C late in the week. The moisture and warmth promoted early summer crop growth and wheat development. In south-central Brazil, beneficial drier weather prevailed over most corn and soybean areas, improving planting conditions. Two localized areas of substantial rainfall (25-50mm or more) were concentrated in western Mato Grosso do Sul and eastern Minas Gerais. Coffee trees are now in the flowering period.

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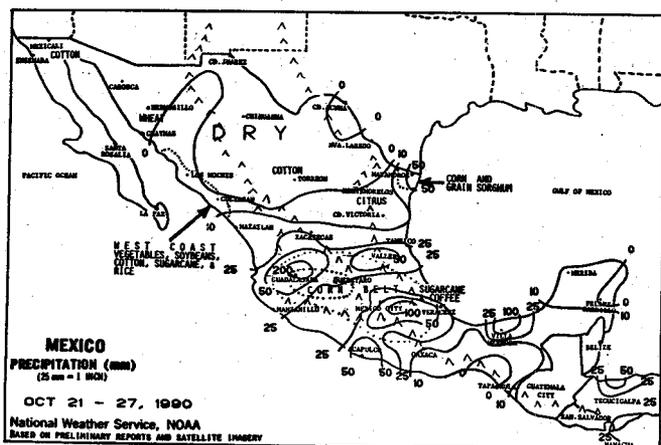
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**MEXICO** ... Seasonably dry weather prevailed across the northwest and north-central portions, favoring crop harvests. In the Southern Plateau, locally heavy tropical showers (50-100mm or more) soaked western, northeastern and southeastern corn areas, slowing harvesting. Variable rainfall amounts (10-45mm) covered the remainder of the Plateau corn belt continuing an ample rainfall season. Sporadic showers over southern Mexico left the Yucatan peninsula mostly dry, while isolated heavy rain produced 120mm at Villahermosa. The harvest season is well underway in the Plateau corn belt, but immature corn in the Yucatan may be short of moisture.

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