

WEEKLY WEATHER AND CROP BULLETIN

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

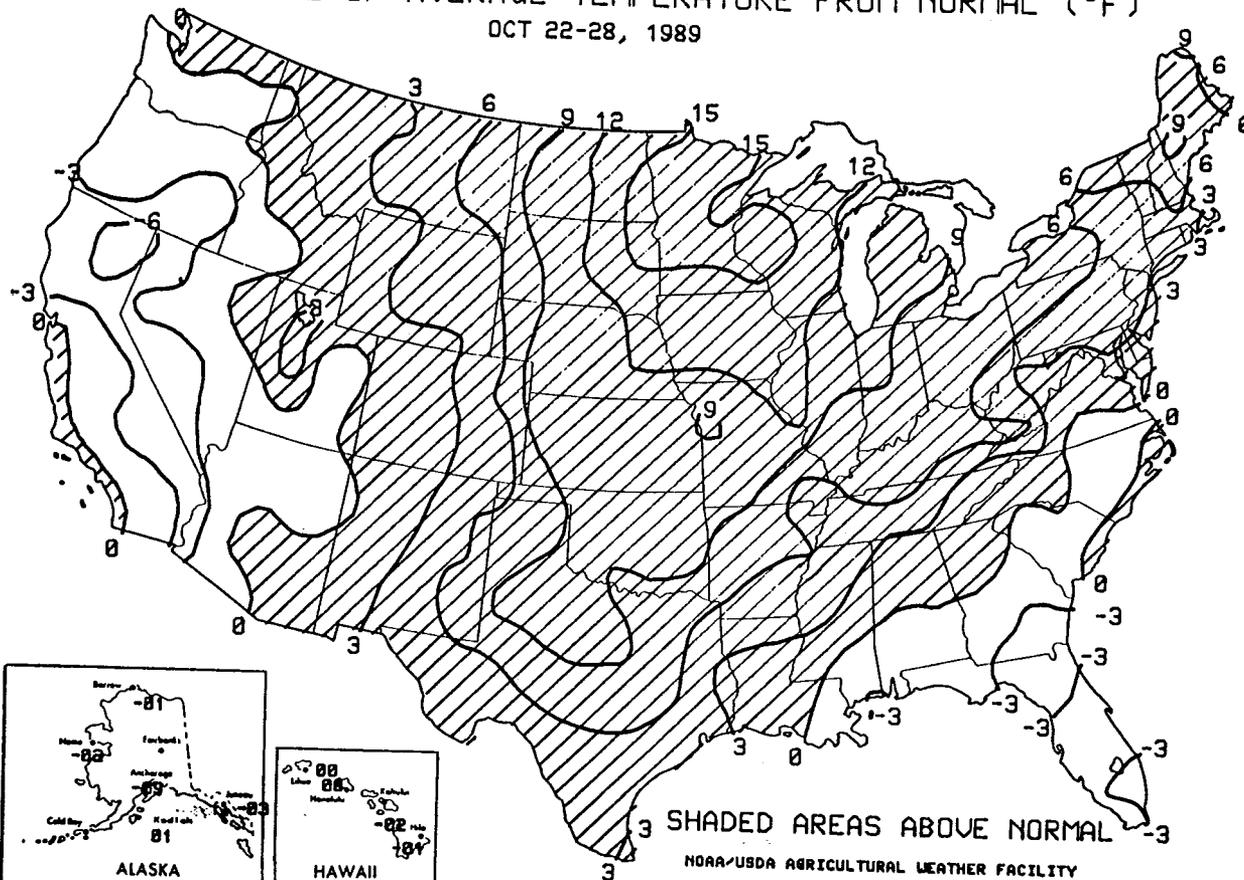
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DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F) OCT 22-28, 1989



Based on preliminary reports

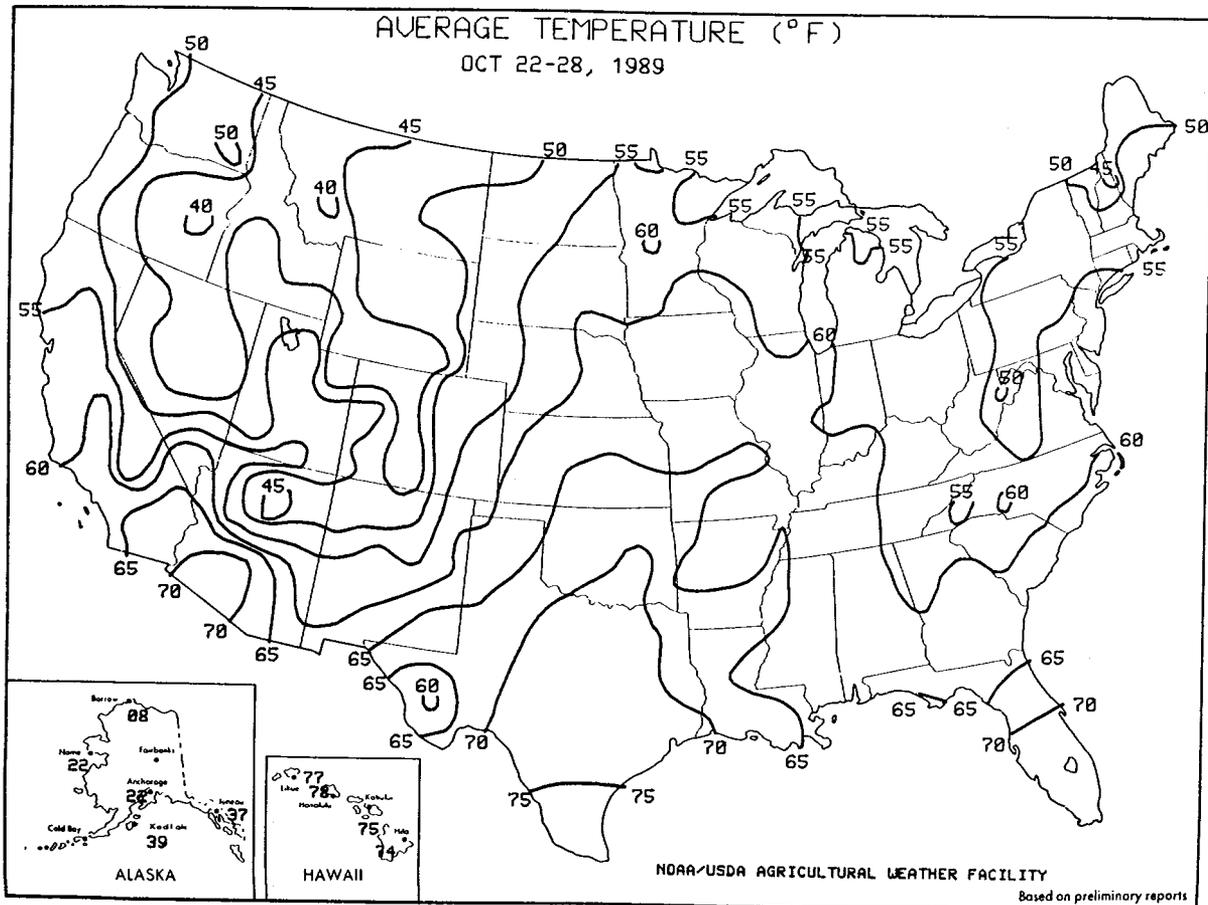
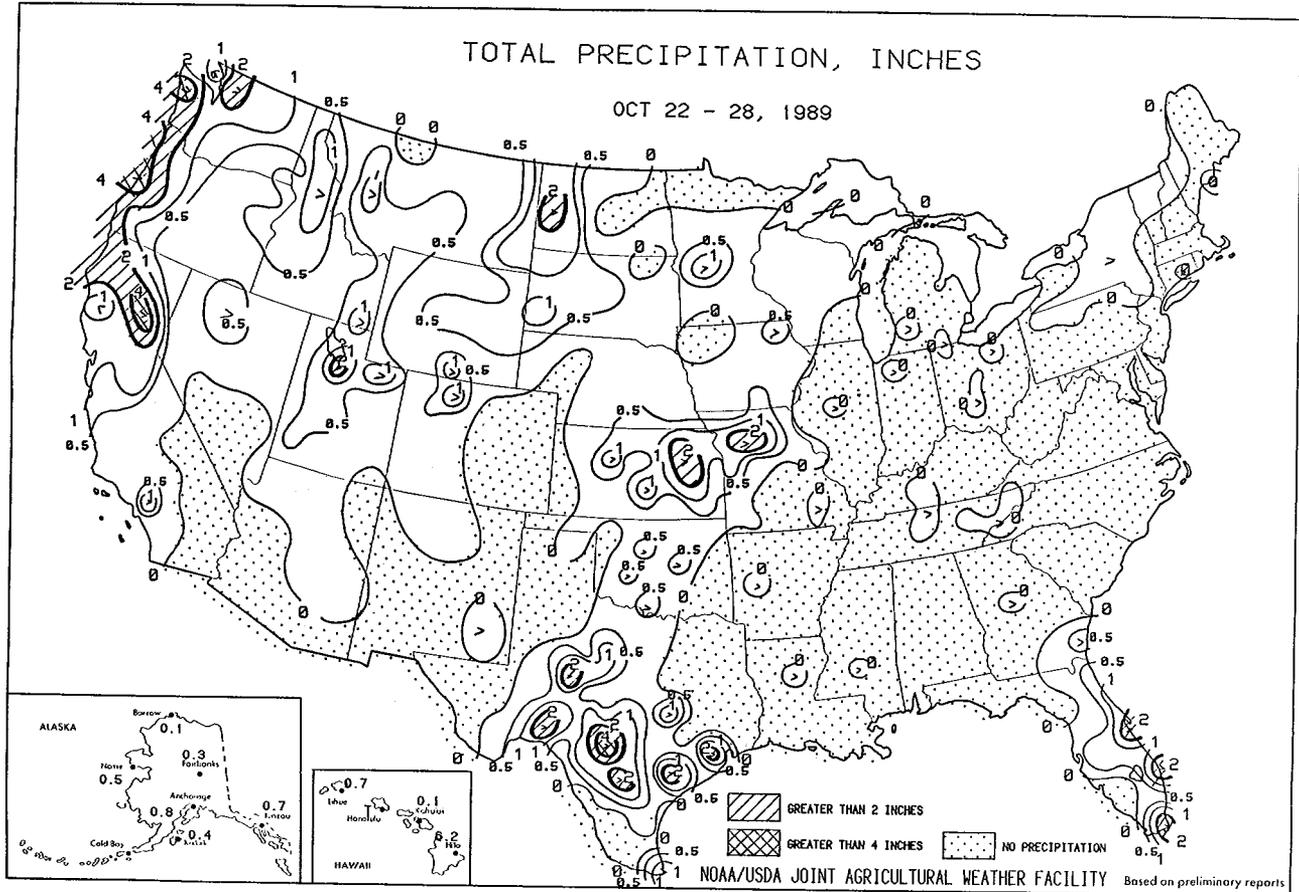
HIGHLIGHTS

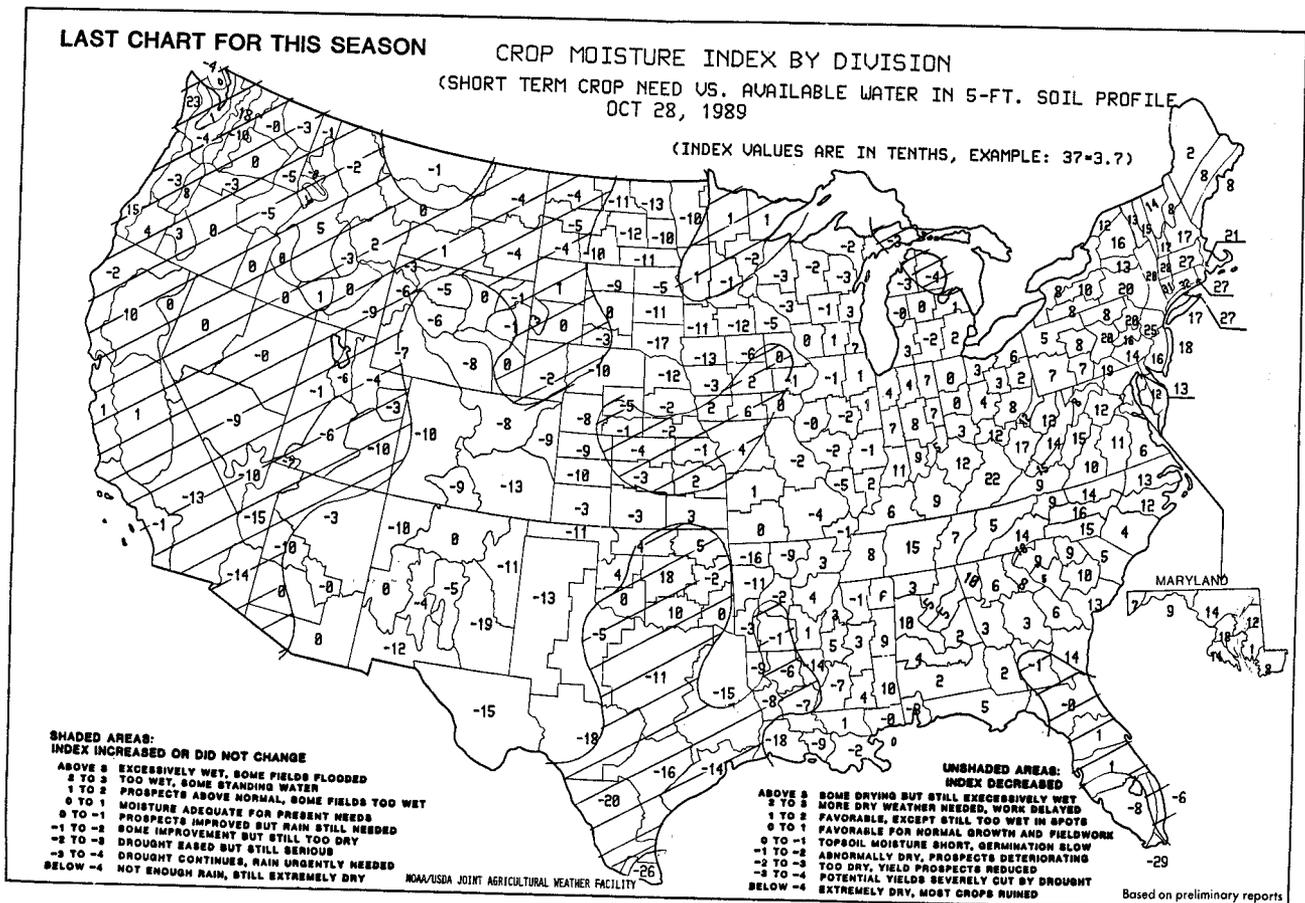
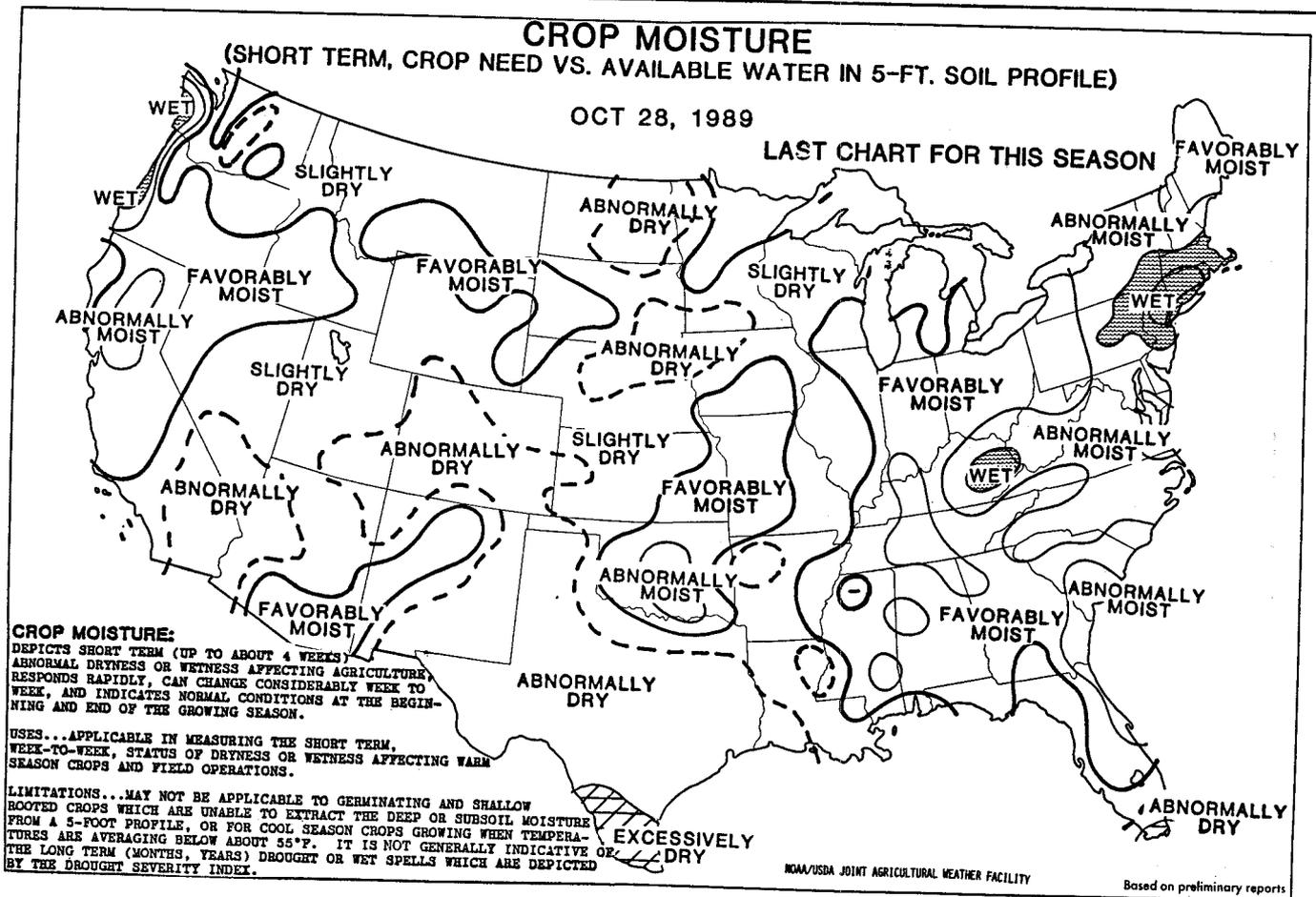
October 22-28, 1989

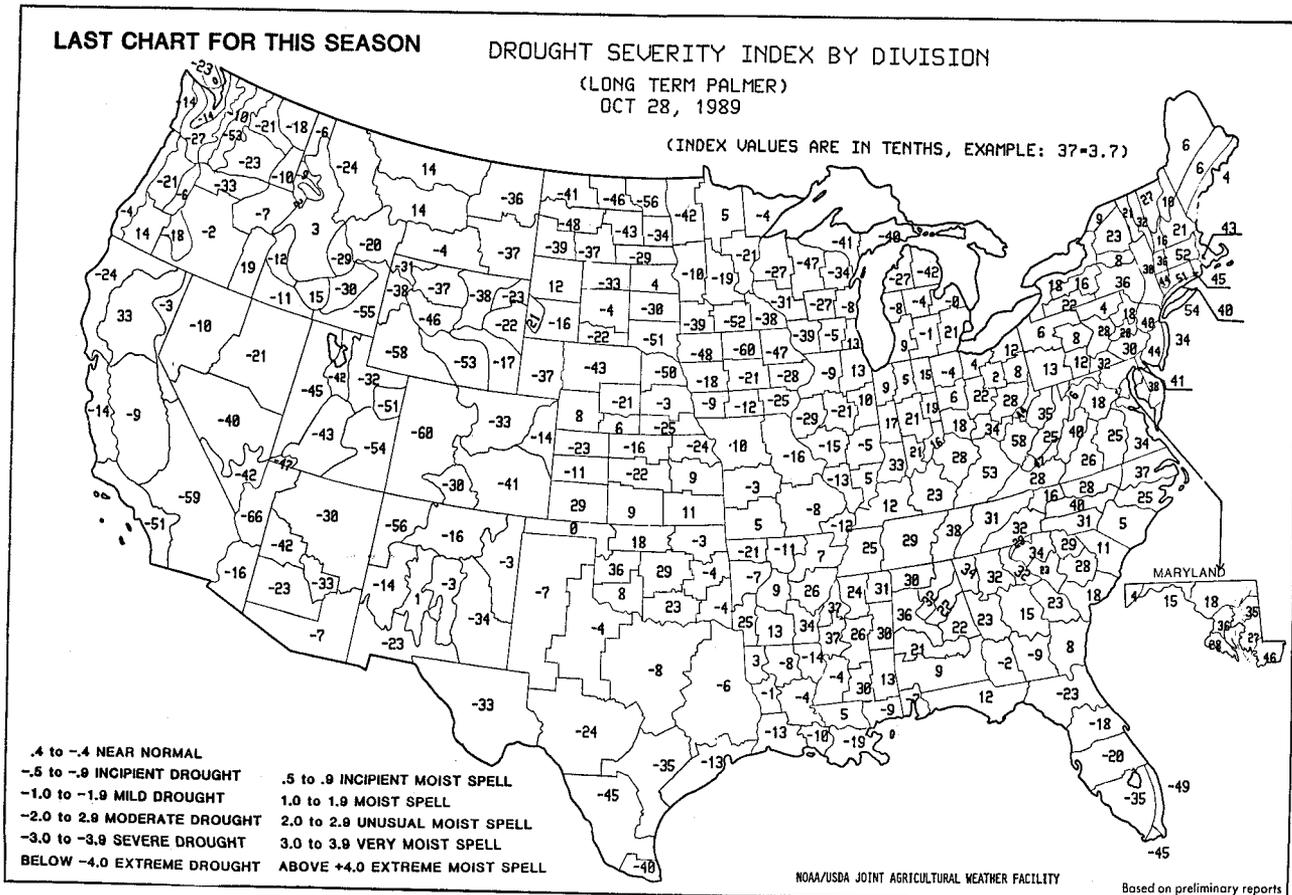
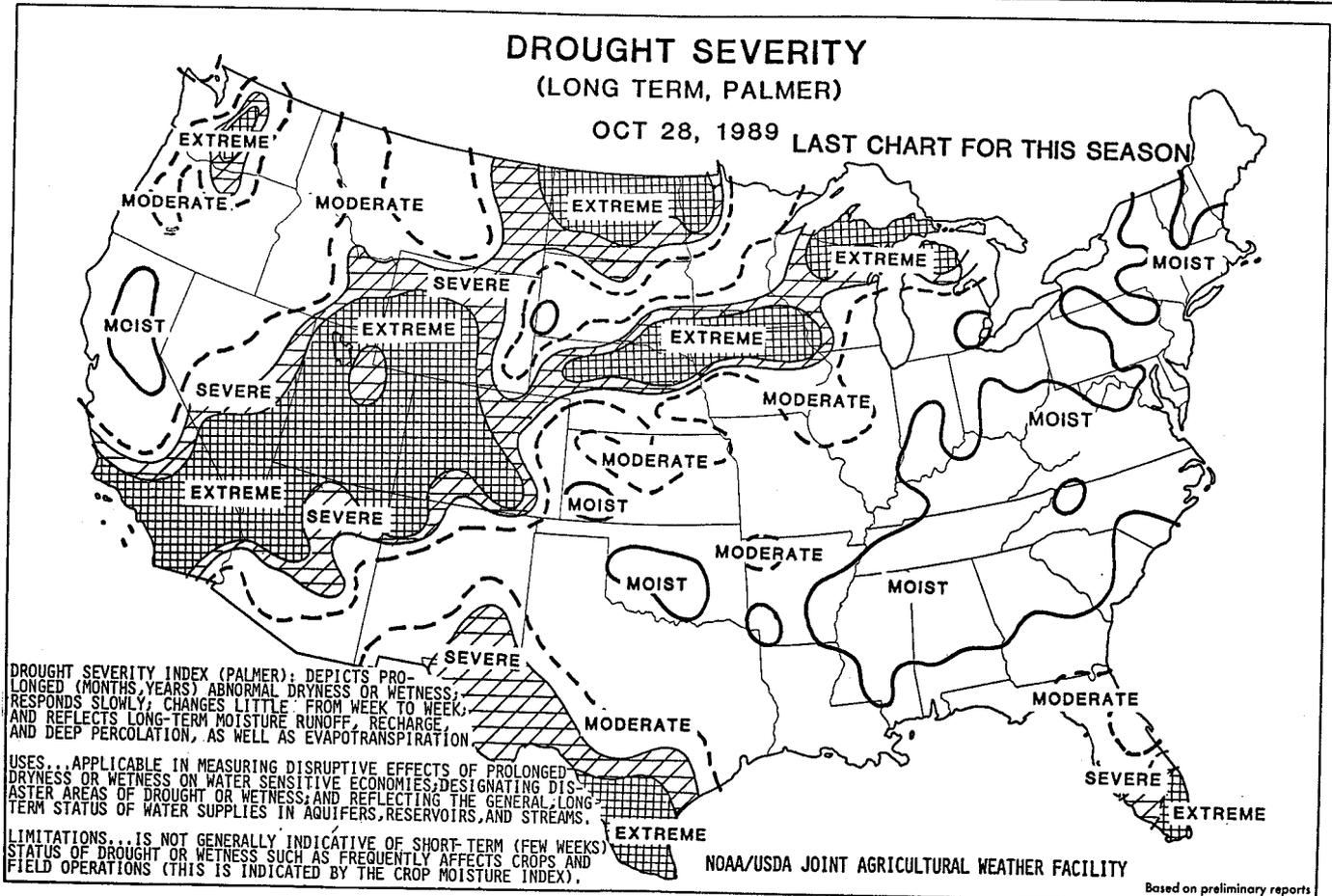
A huge area of high pressure remained anchored over the **East** and brought warm and sunny harvest weather to much of the **eastern two-thirds** of the Nation. Numerous high temperature records were broken across the **North Central States**. In **Florida**, however, record-low temperatures at the first of the week were followed by persistent showers along the **eastern half of the State**. A pair of Pacific storm systems spread rain with snow in the higher elevations across the **Western States**. During the latter part of the week, a strong cold front caused scattered showers and thunderstorms, with locally heavy rain from **Texas** to the **northern Plains** and **upper Mississippi Valley**. Cold air plunged into the **northern Rockies** at week's end.

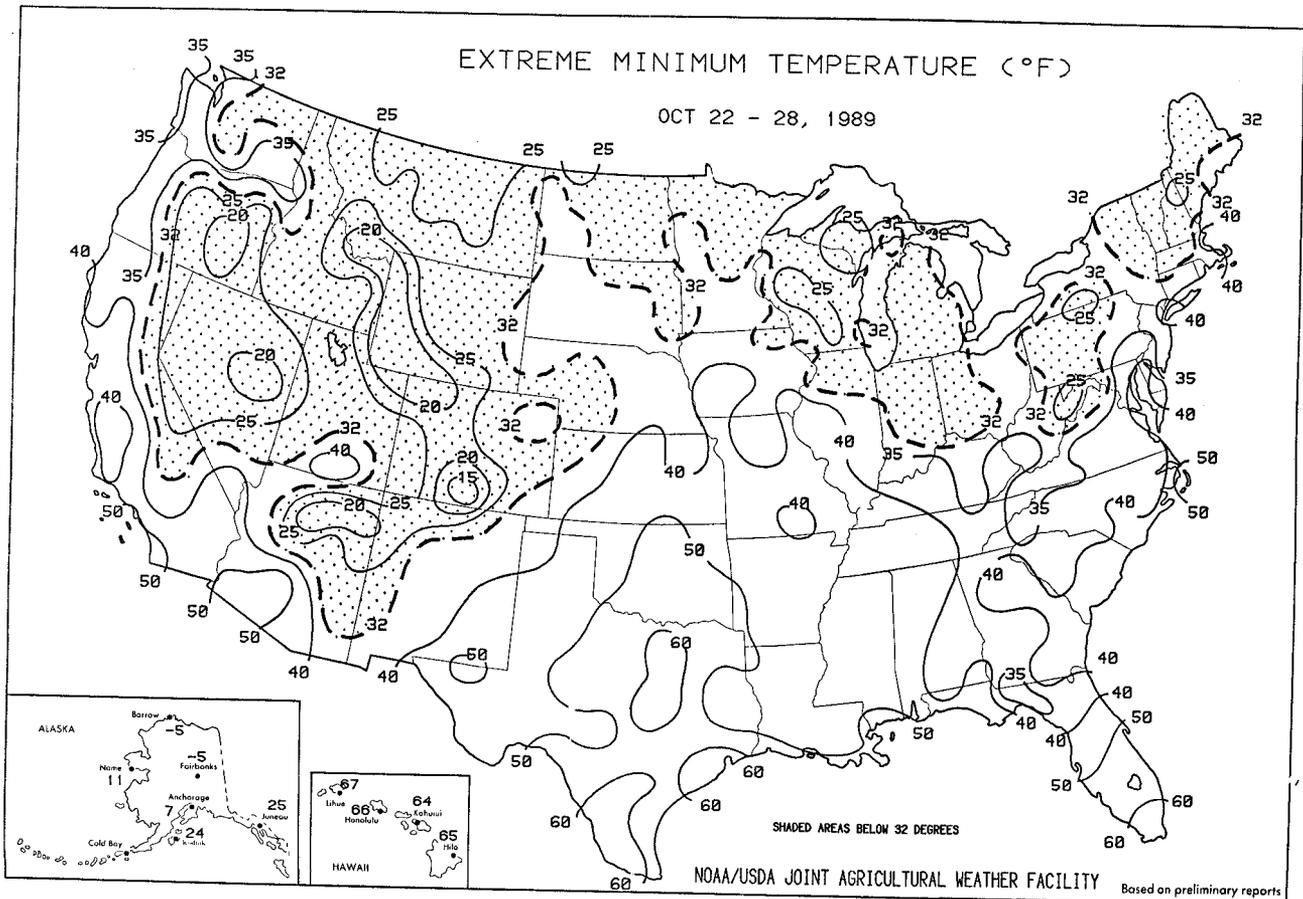
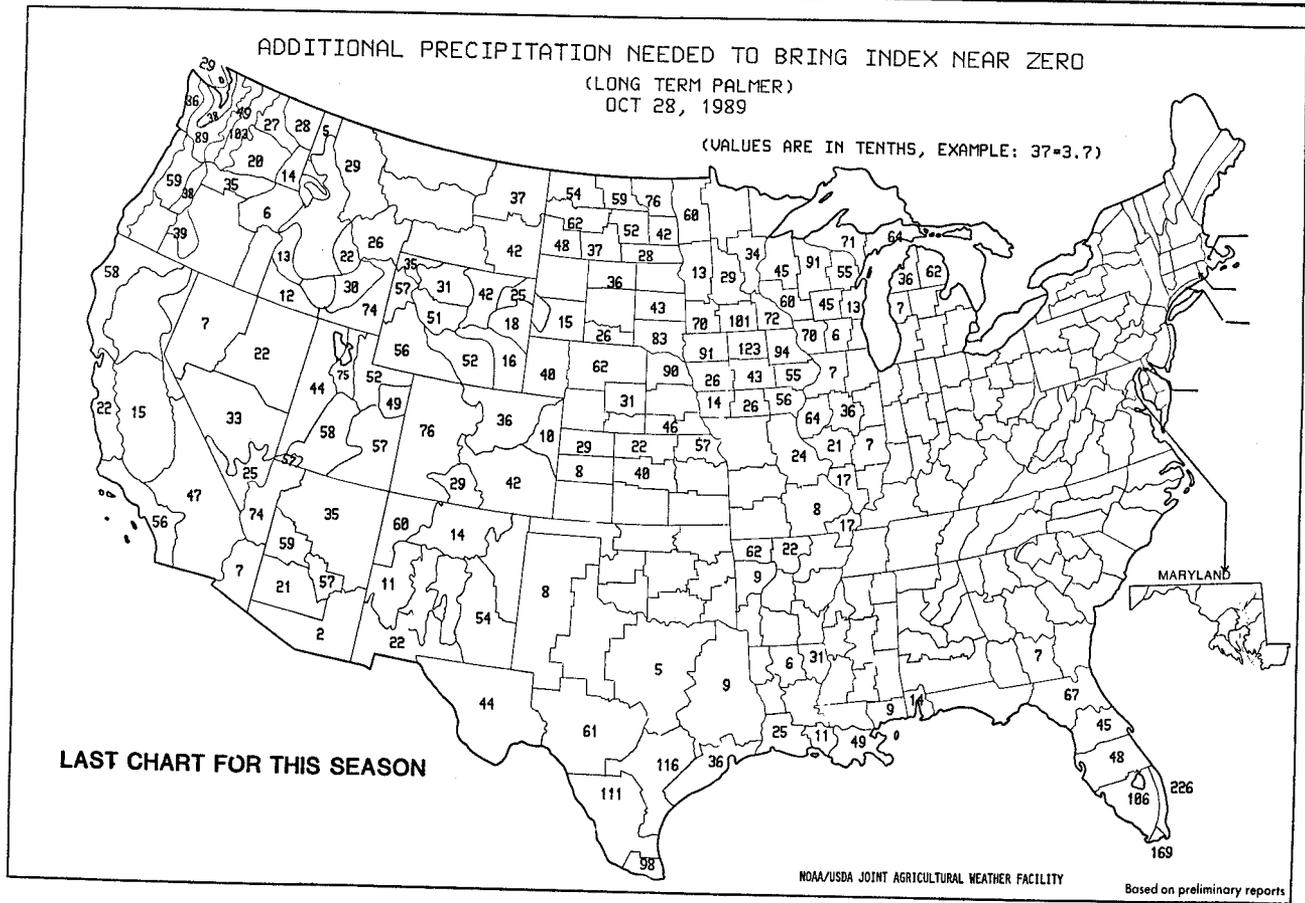
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National Weather Data for Selected Cities

Weather Data for the Week Ending **October 28, 1989**

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	TEMPERATURE		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
AL BIRMINGHAM	76	46	78	42	61	2	0	-6	0	7.4	110	52.7	116	90	32	0	0	0	0	
MOBILE	78	49	80	44	63	2	0	-5	0	5.5	61	45.4	82	89	33	0	0	0	0	
MONTGOMERY	78	43	82	39	60	2	0	-4	0	8.5	126	59.1	144	98	31	0	0	0	0	
AK ANCHORAGE	28	16	33	7	22	-9	.8	.5	.5	7.4	185	25.1	199	91	65	0	0	7	3	
BARRROW	13	4	16	5	8	-7	.1	.1	.1	.9	85	7.1	174	94	80	0	0	7	1	
FAIRBANKS	19	5	29	-5	12	-7	.3	.2	.2	2.0	112	8.8	99	91	68	0	0	7	7	
JUNEAU	43	30	48	25	37	-3	.9	.6	.6	13.2	99	34.0	80	98	69	0	0	5	3	
KODIAK	46	31	53	24	39	1	.4	-1.1	.4	12.3	98	42.5	87	82	82	0	0	5	4	
NOME	27	18	39	11	22	-2	.5	.3	.3	3.6	103	18.8	146	85	61	0	0	4	1	
AZ PHOENIX	83	60	90	52	71	2	0	-1	0	.9	78	4.5	81	66	24	1	0	6	2	
PRESCOTT	67	36	77	28	52	0	0	-3	0	1.3	49	9.4	60	73	28	0	0	3	0	
TUCSON	82	51	89	43	67	0	0	-2	0	1.9	88	6.2	66	71	20	0	0	0	0	
YUMA	82	57	87	50	70	-3	0	-1	0	.1	20	6.9	366	73	26	0	0	0	0	
AR FORT SMITH	82	53	85	47	67	0	0	-7	0	3.8	62	45.6	138	93	40	0	0	0	0	
LITTLE ROCK	77	55	79	52	66	0	0	-6	0	5.9	87	45.3	113	77	50	0	0	0	0	
CA BAKERSFIELD	73	50	82	41	61	-3	0	-1	0	.5	138	2.8	66	83	38	0	0	1	2	
EUREKA	61	49	66	40	55	2	2.5	1.7	1.2	3.8	119	23.1	89	90	66	0	0	0	0	
FRESNO	70	51	77	41	60	-1	.2	.1	.1	1.5	306	6.4	85	98	47	0	0	5	5	
LOS ANGELES	71	57	73	50	64	-1	.3	.2	.3	.6	200	3.8	44	92	52	0	0	4	0	
REDDING	62	47	64	38	54	-8	3.4	2.8	1.5	8.5	309	28.4	101	97	59	0	0	2	0	
SACRAMENTO	66	49	75	43	58	-3	1.2	.9	.9	4.6	467	13.7	117	96	56	0	0	5	2	
SAN DIEGO	72	58	74	52	65	0	.4	.2	.3	.7	135	2.7	38	90	53	0	0	3	1	
SAN FRANCISCO	65	53	69	49	59	0	1.3	1.0	1.2	2.6	247	10.0	74	92	55	0	0	0	0	
CO DENVER	68	38	76	31	53	5	0	-2	0	2.1	101	14.3	105	70	21	0	1	0	1	
GRAND JUNCTION	64	41	75	30	53	2	0	-2	0	.5	31	5.5	83	72	26	0	0	3	1	
PUEBLO	74	33	80	24	54	4	0	-2	0	1.1	74	6.9	69	67	14	0	4	0	0	
CT BRIDGEPORT	66	44	72	37	55	2	0	-2	0	9.1	147	45.3	135	89	48	0	0	0	0	
HARTFORD	70	37	78	32	54	4	0	-8	0	11.8	167	49.7	140	94	35	0	2	0	0	
DC WASHINGTON	72	46	78	41	59	3	0	-6	0	11.9	204	45.5	140	91	38	0	0	0	0	
FL APALACHICOLA	79	53	82	45	66	-1	0	-5	0	13.0	112	47.4	98	84	40	0	0	0	0	
DAYTONA BEACH	78	61	82	44	69	-2	1.3	.4	.5	15.9	145	39.1	90	92	54	0	0	6	1	
JACKSONVILLE	74	53	78	40	64	-4	.4	-3	-4	15.7	157	47.5	101	93	56	0	0	3	0	
KEY WEST	80	71	81	68	76	-3	0	-1.0	0	5.8	54	22.9	68	81	59	0	0	0	0	
MIAMI	83	65	86	60	74	-3	.2	-1.2	.2	8.5	58	41.0	78	91	51	0	0	2	0	
ORLANDO	81	61	83	49	71	-2	.5	0	.4	12.0	130	39.7	87	93	46	0	0	5	0	
TALLAHASSEE	79	44	82	34	62	-4	0	-6	0	7.9	85	54.4	97	95	36	0	0	0	0	
TAMPA	83	58	85	48	71	-2	0	-3	0	8.0	96	36.9	87	91	44	0	0	1	0	
WEST PALM BEACH	81	64	83	57	73	-3	2.3	.8	1.7	8.4	51	34.0	64	95	54	0	0	4	1	
GA ATLANTA	74	50	77	45	62	3	0	-6	0	13.4	248	54.8	135	68	26	0	0	0	0	
AUGUSTA	77	42	79	38	59	-1	0	-4	0	5.9	110	43.2	115	94	28	0	0	0	0	
MACON	76	41	79	39	59	-3	0	-4	0	4.7	92	35.8	104	94	27	0	0	0	0	
SAVANNAH	75	52	78	44	63	-1	0	-4	0	12.7	174	40.2	89	77	39	0	0	0	0	
HI HILO	80	68	82	65	74	-1	6.7	4.1	4.2	4.1	23.3	151	159.5	161	98	72	0	0	6	2
HONOLULU	85	72	86	66	78	0	0	-5	0	5.8	262	21.0	128	83	58	0	0	0	0	
KAHULUI	83	67	85	64	75	-2	.1	-2	.1	4.3	432	33.0	251	88	59	0	0	1	0	
LIHUE	81	73	82	67	77	0	.7	-4	.6	4.9	78	46.0	142	85	64	0	0	2	1	
ID BOISE	56	40	71	31	48	0	0	.7	.5	2.5	204	9.8	111	90	51	0	2	6	0	
LEWISTON	59	44	71	37	52	3	.2	-1	.1	1.1	64	12.5	121	79	51	0	0	3	0	
POCATELLO	52	38	68	30	45	1	.7	.5	.4	1.4	99	8.6	98	88	55	0	3	5	0	
IL CHICAGO	73	47	77	31	60	10	0	-4	0	5.3	89	26.7	90	91	43	0	1	0	0	
MOLINE	76	47	80	30	62	12	0	-5	0	6.3	102	30.1	92	89	40	0	0	0	0	
PEORIA	74	50	77	38	62	12	0	-5	0	4.1	68	20.4	66	89	52	0	0	0	0	
QUINCY	76	51	79	42	64	12	0	-7	0	4.6	64	17.0	50	86	42	0	0	0	0	
ROCKFORD	73	44	78	25	58	10	0	-6	0	2.4	38	24.5	76	94	45	0	1	0	0	
SPRINGFIELD	74	52	78	41	63	11	0	-5	0	6.1	109	26.2	88	86	45	0	0	0	0	
IN EVANSVILLE	77	46	80	38	61	8	0	-6	0	4.3	89	44.3	128	97	40	0	0	0	0	
FORT WAYNE	72	42	76	27	57	8	0	-6	0	6.1	126	32.0	110	98	49	0	1	0	0	
INDIANAPOLIS	73	46	76	31	60	9	0	-6	0	10.9	219	45.7	140	92	43	0	1	0	0	
SOUTH BEND	73	45	77	30	59	9	0	-7	0	5.2	85	30.7	96	95	43	0	1	0	0	
IA DES MOINES	73	52	80	44	63	13	.3	-1	.2	6.7	133	27.4	98	89	50	0	0	2	0	
SIoux CITY	77	48	82	39	62	14	0	-3	0	4.4	107	18.5	79	80	33	0	0	0	0	
WATERLOO	73	48	81	33	61	14	.4	-1	.4	5.2	93	17.8	60	92	48	0	0	2	0	
KS CONCORDIA	76	52	84	41	64	11	.9	.5	.6	5.3	113	24.3	96	91	50	0	0	3	1	
DOJGE CITY	79	51	84	40	65	11	0	-2	0	2.4	80	20.2	106	89	32	0	0	1	0	
GOODLAND	76	42	83	31	59	10	0	-2	0	1.4	61	17.7	118	83	22	0	1	0	0	
TOPEKA	76	51	81	39	63	10	1.6	1.0	1.4	10.4	172	36.0	120	95	46	0	0	2	1	
WICHITA	78	55	82	45	67	12	.1	-4	.1	7.6	132	34.0	131	86	45	0	0	2	0	
KY BOWLING GREEN	77	45	79	38	61	7	0	-7	0	5.3	93	53.8	133	95	39	0	0	1	0	
LEXINGTON	73	45	77	34	59	6	0	-5	0	8.2	153	48.8	127	84	40	0	0	0	0	
LOUISVILLE	76	46	80	37	61	7	0	-6	0	4.8	85	46.7	129	97	43	0	0	0	0	
LA ALEXANDRIA	78	50	80	43	64	0	0	-7	0	.7	12	52.8	123	93	34	0	0	0	0	
BATON ROUGE	80	51	84	48	66	0	0	-6	0	6.6	97	67.4	145	97	42	0	0	0	0	
LAKE CHARLES	82	58	83	50	69	3	0	-8	0	.8	8	54.0	122	98	40	0	0	0	0	
NEW ORLEANS	78	50	80	47	64	-2	0	-5	0	5.1	61	41.4	83	99	43	0	0	0	0	

Based on 1951-80 normals

Weather Data for the Week Ending October 28, 1989

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	PCT. NORMAL SINCE Sep 1	TOTAL, IN., SINCE Sep 1	PCT. NORMAL SINCE Sep 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
ME SHREVEPORT	80	55	81	50	68	4	0	-6	0	2.1	36	54.7	153	95	41	0	0	0	0	
ME CARIBOU	60	37	71	30	49	9	T	-7	T	5.1	82	26.6	89	93	54	0	1	0	0	
MD PORTLAND	66	37	76	29	52	6	0	-9	0	8.6	129	34.7	103	97	49	0	3	0	0	
MD BALTIMORE	72	42	77	37	57	3	0	-7	0	8.2	132	47.4	136	95	41	0	0	0	0	
MA SALISBURY	71	41	77	37	56	2	0	-8	0	11.0	150	47.1	123	99	38	0	0	0	0	
MA BOSTON	67	46	76	41	56	4	0	-8	0	9.4	148	36.5	106	93	47	0	0	0	0	
MA CHATHAM	61	47	66	41	54	2	0	-9	0	8.4	119	39.3	106	95	73	0	0	0	0	
MI ALPENA	71	39	78	36	55	11	0	-4	0	4.0	80	18.0	73	98	45	0	0	0	0	
MI DETROIT	70	42	74	32	56	8	0	-5	0	4.6	111	25.2	98	99	55	0	1	0	0	
MI FLINT	71	42	75	29	57	9	0	-5	0	5.9	140	27.3	112	96	50	0	1	0	0	
MI GRAND RAPIDS	72	45	76	27	58	11	0	-6	0	6.4	114	28.1	101	95	46	0	1	0	0	
MI HOUGHTON LAKE	69	40	73	28	54	11	0	-5	0	2.2	45	17.1	72	94	46	0	1	0	0	
MI LANSING	71	42	75	29	57	10	0	-4	0	4.6	99	26.0	105	95	46	0	1	0	0	
MI MARQUETTE	68	43	76	24	56	15	0	-6	0	3.6	53	22.6	72	92	44	0	1	1	0	
MI MUSKOGON	68	43	72	26	55	8	0	-6	0	3.9	71	21.0	82	94	46	0	1	1	0	
MI SAULT ST. MARIE	66	40	75	30	53	11	0	-5	0	2.6	40	19.0	70	100	54	0	1	1	0	
MN ALEXANDRIA	73	46	81	36	60	17	0	-8	0	4.4	109	19.7	87	87	34	0	0	1	1	
MN DULUTH	69	40	75	31	55	14	T	-4	T	4.9	94	24.1	92	91	38	0	1	1	0	
MN INT'L FALLS	70	42	77	31	56	18	0	-3	0	2.7	56	19.1	87	82	37	0	2	0	0	
MN MINNEAPOLIS	74	47	82	40	61	15	0	-3	0	1.6	39	21.4	89	81	39	0	0	1	0	
MN ROCHESTER	71	49	78	33	60	15	T	-4	T	1.6	28	20.7	80	92	56	0	0	1	0	
MS GREENWOOD	79	52	81	45	66	5	0	-7	0	7.6	131	59.3	139	87	36	0	0	0	0	
MS JACKSON	79	46	81	40	63	1	0	-5	0	5.7	100	41.5	98	94	34	0	0	0	0	
MS MERIDIAN	77	43	80	41	60	0	0	-6	0	9.8	165	57.6	131	100	36	0	0	0	0	
MO CAPE GIRARDEAU	76	48	79	41	62	0	0	-5	0	3.8	64	46.3	126	95	41	0	0	0	0	
MO COLUMBIA	77	51	80	40	64	10	T	-7	T	2.7	39	33.2	103	87	41	0	0	0	0	
MO KANSAS CITY	74	54	80	42	64	9	0	-7	0	10.9	148	36.2	111	90	51	0	0	2	1	
MO SAINT LOUIS	77	56	79	46	66	12	T	-5	T	2.3	49	27.0	94	76	38	0	0	1	0	
MO SPRINGFIELD	76	55	80	46	65	11	0	-7	0	3.0	42	30.0	89	81	40	0	0	0	0	
MT BILLINGS	60	40	72	31	50	5	0	-6	0	2.7	118	13.5	102	78	36	0	1	2	1	
MT GLASGOW	60	36	71	24	48	6	T	-1	T	8	57	9.5	93	76	34	0	2	2	0	
MT GREAT FALLS	56	38	70	26	47	3	0	-1	0	2.3	134	20.6	153	72	38	0	1	3	0	
MT HAVRE	58	33	70	22	45	3	T	-1	T	1.2	75	10.3	97	84	34	0	2	1	0	
MT HELENA	55	34	70	26	45	3	0	-2	0	1.8	127	11.6	114	86	44	0	3	3	0	
MT KALISPELL	50	32	57	26	41	2	0	-3	0	2.4	121	16.6	130	94	55	0	6	4	0	
MT MILES CITY	63	41	74	30	52	8	0	-3	0	3	6	32	13.1	101	73	35	0	1	1	0
MT MISSOULA	51	33	59	27	42	1	0	-1	0	1.3	74	12.1	110	97	57	0	3	5	0	
NE GRAND ISLAND	76	45	83	37	61	11	0	-5	0	7.3	209	21.3	99	89	39	0	0	1	0	
NE LINCOLN	76	48	81	35	62	12	T	-3	T	9.1	202	23.2	92	92	42	0	0	1	0	
NE NORFOLK	77	43	83	37	60	13	0	-1	0	3.9	119	15.8	71	89	38	0	0	2	0	
NE NORTH PLATTE	76	37	83	30	56	10	0	-1	0	1.2	48	13.7	75	89	28	0	2	2	0	
NE OMAHA	74	55	80	45	64	14	T	-4	T	7.3	135	21.7	78	82	49	0	0	1	0	
NE SCOTTSBLUFF	69	36	78	33	53	6	0	-5	0	2.3	131	9.2	68	85	29	0	0	2	0	
NE VALENTINE	72	40	84	34	56	11	0	-1	0	2.2	97	11.6	72	70	30	0	0	1	0	
NV ELY	54	31	64	19	43	0	0	-2	0	1.1	61	6.5	87	86	30	0	4	1	0	
NV LAS VEGAS	73	51	82	40	62	-2	T	-1	T	0	0	2.2	67	54	23	0	0	0	0	
NV RENO	56	33	64	22	45	-2	T	-1	T	1.6	310	6.8	126	83	33	0	4	2	0	
NV WINNEMUCA	54	36	72	23	45	-1	0	-7	0	1.6	186	4.7	79	88	47	0	2	5	0	
NH CONCORD	68	33	76	27	51	6	0	-7	0	8.8	150	33.8	116	99	35	0	5	0	0	
NJ ATLANTIC CITY	71	38	78	33	55	2	0	-7	0	9.8	174	45.4	133	96	38	0	0	0	0	
NM ALBUQUERQUE	69	42	77	36	56	2	0	-2	0	1.3	81	4.7	68	58	19	0	0	0	0	
NM CLOVIS	75	44	78	41	60	4	0	-4	0	1.5	42	14.1	89	80	22	0	0	0	0	
NM ROSWELL	82	48	84	41	65	9	0	-1	0	2.2	79	6.2	64	58	16	0	0	1	0	
NY ALBANY	69	36	76	29	52	5	T	-7	T	7.6	130	36.3	124	98	44	0	2	0	0	
NY BINGHAMTON	65	41	69	34	53	7	T	-7	T	7.3	120	34.8	114	87	39	0	0	1	0	
NY BUFFALO	67	43	71	35	55	7	0	-7	0	6.4	107	33.6	112	92	43	0	0	0	0	
NY NEW YORK	69	50	76	43	59	5	0	-7	0	10.3	163	50.8	146	87	43	0	0	0	0	
NY ROCHESTER	70	42	74	37	56	7	0	-6	0	5.8	117	29.1	113	96	45	0	0	0	0	
NY SYRACUSE	68	38	73	33	53	5	0	-6	0	9.3	153	31.3	98	98	49	0	0	1	0	
NC ASHEVILLE	70	36	75	32	53	0	0	-7	0	11.1	167	52.8	142	98	29	0	1	0	0	
NC CHARLOTTE	73	47	75	39	60	2	0	-6	0	11.4	189	43.0	118	80	30	0	0	0	0	
NC GREENSBORO	71	39	74	36	55	-1	0	-7	0	11.0	168	44.0	122	90	32	0	0	0	0	
NC HATTERAS	69	60	70	56	65	2	0	-1.1	0	24.8	244	75.5	164	88	60	0	0	0	0	
NC NEW BERN	72	48	75	40	60	0	0	-7	0	13.1	148	55.6	121	96	40	0	0	0	0	
NC RALEIGH	71	41	75	38	56	0	0	-6	0	7.4	129	46.8	132	96	34	0	0	0	0	
NC WILMINGTON	75	49	78	41	62	0	0	-6	0	12.3	146	55.8	120	87	38	0	0	0	0	
ND BISMARCK	70	34	80	26	52	10	T	-1	T	1.3	64	10.3	73	78	32	0	3	0	0	
ND FARGO	73	44	83	33	59	17	T	-2	T	2.3	76	17.6	99	74	30	0	0	1	0	
ND GRAND FORKS	71	41	78	28	56	15	T	-2	T	0.9	29	11.0	66	71	36	0	1	0	0	
ND WILLISTON	63	37	77	33	50	9	1.5	1.3	-9	2.2	107	10.6	85	77	36	0	0	2	2	
OH AKRON-CANTON	69	44	74	33	57	7	0	-5	0	5.9	119	34.9	115	90	41	0	0	0	0	
OH CINCINNATI	73	45	77	31	59	7	0	-6	0	5.8	113	44.3	132	91	41	0	1	0	0	
OH CLEVELAND	71	41	75	35	56	6	0	-6	0	8.9	174	38.3	130	96	45	0	0	0	0	
OH COLUMBUS	73	41	78	30	57	7	0	-4	0	4.3	97	39.0	125	95	39	0	1	0	0	

Weather Data for the Week Ending October 28, 1989

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	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	72	44	76	30	58	7	0	0	0	6.9	167	43.6	149	96	44	0	0	0	0
TOLEDO	72	40	75	29	56	7	0	-1.5	0	4.5	107	34.2	130	99	42	0	0	0	0
YOUNGSTOWN	70	39	74	30	55	7	0	-1.4	0	8.7	160	39.1	125	95	36	1	2	0	0
OK OKLAHOMA CITY	78	57	80	53	68	7	0	-1.6	0	6.5	109	39.2	140	89	47	1	1	0	0
TULSA	80	58	84	50	69	9	0	-1.4	0	4.7	63	27.8	82	86	42	0	0	2	0
OR ASTORIA	56	43	57	33	50	10	0	-1.6	0	5.7	66	41.1	87	95	68	0	0	0	0
BURNS	47	26	59	18	37	-1	3.6	1.9	1.5	9	75	8.8	120	89	52	0	0	5	0
MEDFORD	57	41	67	35	49	-7	0	0	0	2.6	122	13.5	103	96	52	0	0	6	4
PENDLETON	58	40	73	35	52	-2	1.2	-1.1	1.1	1.0	70	10.9	124	96	53	0	0	4	4
PORTLAND	57	46	63	36	52	0	1.8	-1.1	1.1	3.3	76	23.0	91	80	42	0	0	0	0
SALEM	58	43	65	35	50	0	1.8	-1.1	1.1	3.6	80	20.8	91	84	64	0	0	1	1
PA ALLENTOWN	71	39	76	33	55	5	0	-1.7	0	9.8	146	41.4	114	96	66	0	0	5	6
ERIE	67	46	72	38	57	7	0	-1.7	0	6.6	92	34.9	107	95	40	0	0	0	0
HARRISBURG	70	41	76	35	55	4	0	-1.8	0	7.7	127	43.2	133	94	41	0	0	0	0
PHILADELPHIA	72	43	77	38	57	4	0	-1.6	0	8.4	141	45.6	133	97	49	0	0	0	0
PITTSBURGH	71	39	75	30	55	6	0	-1.6	0	6.5	130	38.3	123	93	36	0	0	0	0
SCRANTON	68	38	74	33	53	4	0	-1.6	0	8.3	144	34.0	117	94	41	0	1	0	0
RI PROVIDENCE	67	40	76	35	54	3	0	-1.6	0	11.2	163	48.0	133	96	45	0	0	0	0
SC CHARLESTON	75	53	80	45	64	1	0	-1.9	0	17.4	229	48.8	106	73	35	0	0	0	0
COLUMBIA	76	40	79	35	58	3	0	-1.6	0	7.4	112	44.7	104	97	28	0	0	0	0
FLORENCE	74	46	78	40	60	-1	0	-1.5	0	9.5	152	44.9	116	87	27	0	0	0	0
GREENVILLE	73	43	76	39	58	0	0	-1.7	0	8.5	109	42.0	96	82	27	0	0	0	0
SD ABERDEEN	75	42	83	29	58	15	0	-1.7	0	2.8	115	17.6	107	79	30	0	0	1	0
HURON	77	42	84	34	59	15	0	-1.2	0	1.9	71	13.2	77	77	28	0	0	0	0
RAPID CITY	67	41	79	34	54	8	0	-1.3	0	4.2	244	12.0	80	73	31	0	0	1	0
SIOUX FALLS	75	43	81	31	59	14	0	-1.1	0	3.5	83	14.6	66	81	36	0	0	2	1
TN CHATTANOOGA	75	42	78	40	59	2	0	-1.7	0	13.0	187	62.7	146	100	39	0	0	0	0
KNOXVILLE	74	41	76	38	57	1	0	-1.6	0	10.4	193	48.3	126	100	36	0	0	0	0
MEMPHIS	78	53	81	47	66	6	0	-1.6	0	8.4	148	53.2	127	86	38	0	0	0	0
NASHVILLE	78	47	80	42	62	6	0	-1.6	0	9.9	164	51.1	128	93	35	0	0	1	0
TX ABILENE	82	62	90	59	72	9	0	-1.6	0	5.0	96	27.2	130	79	40	1	0	0	0
AMARILLO	80	47	83	40	63	8	0	-1.3	0	2.5	85	19.0	107	82	22	0	0	0	0
AUSTIN	85	63	87	57	74	7	0	-1.4	0	1.4	22	23.5	88	97	44	0	0	2	0
BEAUMONT	82	59	85	55	71	4	0	-1.4	0	3.7	44	16.7	74	94	56	0	0	0	0
BROWNSVILLE	84	65	87	58	75	2	0	-1.4	0	2.1	23	15.5	55	94	54	0	0	1	1
CORPUS CHRISTI	85	65	87	57	75	2	1.1	-1.1	1.1	1.7	36	7.5	48	78	42	0	0	0	0
DEL RIO	81	63	86	51	72	5	0	-1.1	0	3.7	44	16.7	74	94	56	0	0	0	0
EL PASO	81	48	86	42	65	4	0	-1.1	0	2.1	23	15.5	55	94	54	0	0	1	1
FORT WORTH	82	63	86	57	72	8	0	-1.1	0	1.7	36	7.5	48	78	42	0	0	0	0
GALVESTON	78	70	81	69	74	4	0	-1.6	0	7	35	7.1	103	62	21	0	0	2	0
HOUSTON	83	60	85	57	71	4	0	-1.5	0	2.7	43	37.3	138	87	43	0	0	0	0
LUBBOCK	82	51	87	45	67	4	0	-1.8	0	2.8	33	37.8	112	90	66	0	0	0	0
MIDLAND	80	53	86	47	67	9	0	-1.4	0	3.7	32	53.0	137	95	46	0	0	0	0
SAN ANGELO	83	60	92	56	72	6	0	-1.2	0	3.0	88	14.7	89	78	32	0	0	0	0
SAN ANTONIO	84	63	88	54	73	6	0	-1.1	0	3.2	64	16.8	104	80	40	2	0	1	0
VICTORIA	84	63	86	58	73	4	1.1	-1.5	1.1	5.8	91	18.3	73	94	43	0	0	0	0
WACO	85	63	87	61	74	9	0	-1.1	0	5.4	58	21.8	68	97	47	0	0	3	1
WICHITA FALLS	83	58	90	54	70	9	0	-1.7	0	6	10	27.0	102	90	42	0	0	1	1
UT CEDAR CITY	61	36	68	27	48	0	0	-1.1	0	5.7	98	34.4	145	85	41	1	0	0	0
SALT LAKE CITY	65	39	73	31	51	2	1.8	-1.2	0	7	46	6.2	72	95	32	0	0	2	0
VT BURLINGTON	61	41	73	30	52	8	0	-1.7	0	2.3	123	9.9	79	86	36	0	3	2	0
VA NORFOLK	67	46	72	42	57	0	0	-1.6	0	8.7	152	32.0	114	94	47	0	1	4	2
RICHMOND	71	42	76	37	57	7	0	-1.7	0	7.3	99	49.2	127	98	52	0	1	1	0
ROANOKE	72	37	76	35	55	1	0	-1.8	0	8.0	116	43.3	117	94	35	0	0	0	0
WA QUILLAYUTE	55	42	60	34	48	0	0	-1.8	0	12.8	205	47.6	144	96	30	0	0	0	0
SEATTLE-TACOMA	56	45	60	42	51	1	3.2	-1.7	1.2	9.8	64	59.7	80	99	70	0	0	6	3
SPOKANE	51	35	57	26	43	0	1.8	-1.9	0.6	3.7	73	23.9	92	96	63	0	0	0	0
YAKIMA	56	35	58	27	46	-1	0	-1.6	0	1.8	107	11.4	96	98	66	0	0	6	2
WV BECKLEY	70	40	73	34	55	7	0	-1.5	0	7	92	4.5	82	98	53	0	2	5	0
CHARLESTON	73	40	77	35	56	4	0	-1.6	0	8.3	137	38.9	108	70	25	0	3	3	0
HUNTINGTON	74	41	78	33	57	4	0	-1.5	0	11.2	209	53.0	148	97	32	0	0	0	0
PARKERSBURG	72	39	76	33	56	3	0	-1.6	0	10.1	197	54.7	158	97	33	0	0	0	0
WI GREEN BAY	71	45	78	28	58	13	0	-1.6	0	10.9	215	49.9	154	97	33	0	0	0	0
LACROSSE	74	51	81	30	62	15	0	-1.3	0	4.2	84	17.5	72	93	45	0	1	1	0
MADISON	72	44	78	24	58	12	0	-1.2	0	4.0	76	20.5	75	92	46	0	1	3	0
MILWAUKEE	71	49	75	34	60	12	0	-1.5	0	2.5	49	22.8	84	89	44	0	1	3	0
WAUSAU	70	47	77	26	58	15	0	-1.5	0	5.6	115	27.8	105	91	46	0	1	0	0
WY CASPER	60	39	69	29	49	6	0	-1.2	0	2.4	41	18.7	66	95	50	0	0	0	0
CHEYENNE	60	36	68	27	48	4	0	-1.7	0	4.0	288	12.7	128	72	33	0	1	2	0
LANDER	57	36	68	27	47	4	0	-1.1	0	2.0	118	11.9	96	80	30	0	2	2	1
SHERIDAN	59	35	73	28	47	4	1.0	-1.3	0	2.9	149	14.3	123	77	32	0	2	2	0
										2.5	115	11.3	85	86	43	0	2	2	1

National Agricultural Summary

October 23-29, 1989

HIGHLIGHTS: Dry weather provided ideal harvest conditions in most areas. Rain was needed in the **Great Plains**, where soil moisture was mostly short to adequate. Soil moisture was mostly adequate in the **Delta** and the **East**. In the **West**, soil moisture was adequate to short. Rain slowed harvests in **northern California**.

Winter wheat was mostly good to fair with 77 percent (%) of the acres emerged, 7 percentage points ahead of the 5-year average. Planting was 91% complete, 7 points ahead of normal. Corn harvest advanced 16 points and was 79% complete, 12 points ahead of normal. Soybean harvest was 79% complete, 12 points ahead of normal. Cotton harvest was 43% complete, 1 point behind normal. Ninety-two percent of the acres was opening bolls, 6 points ahead of normal. Sorghum harvest was 72% complete, 3 points ahead of normal. Ninety-four percent of the acres was mature, 3 points behind normal.

SMALL GRAIN: Winter wheat was mostly good to fair with 77% of the acres emerged, 7 points ahead of normal. Planting was 91% complete, 7 points ahead of normal. Planting was nearly complete in the central and northern Great Plains. Lack of moisture slowed emergence and growth in the Great Plains. Planting lagged behind normal in California and the Southeast. Condition was mostly good in Kansas and good to fair in Oklahoma, but rain was needed. In Texas, winter wheat was mostly fair. Rain was needed, especially in the High Plains and Cross Timbers area. Winter wheat was mostly good to fair in Colorado and Montana. In Oregon and Washington, Russian wheat aphids were a continuing problem. In western Nebraska, rain slowed Russian wheat aphid activity and improved crop condition.

CORN: Corn harvest advanced 16 points and was 79% complete, 12 points ahead of normal. Harvest progressed well and was ahead of normal in the western Corn Belt. Harvest progressed well in the eastern Corn Belt but still lagged behind normal. In Nebraska, some poorer dryland fields will not be harvested for grain. Harvest was 37 points ahead of normal in South Dakota.

SOYBEANS: Soybean harvest was 79% complete, 12 points ahead of normal. Harvest was ahead of normal except in the eastern Corn Belt and the Southeast. Harvest advanced 20 or more points in 7 of the 19 major producing States. Harvest was complete in South Dakota and nearly complete in Illinois, Iowa, Minnesota, and Nebraska. In Michigan, harvest was 90% complete, 40 points ahead of normal. Harvest lagged 14 points behind normal in Georgia.

COTTON: Cotton harvest was 43% complete, 1 point behind normal. Ninety-two percent of the acres was opening bolls, 6 points ahead of normal. Harvest progressed well but still lagged behind normal in most of the Delta and Southeast. Frost damaged some late planted fields in Louisiana and the Plains area of Texas. Cool weather slowed defoliating and harvest activities in Arizona. Rain slowed harvest in California.

SORGHUM: Sorghum harvest was 72% complete, 3 points ahead of normal. Ninety-four percent of the acres was mature, 3 points behind normal. In Kansas and Nebraska, producers harvested a fourth of their crop. Harvest lagged behind normal in Oklahoma but was near normal in Texas.

OTHER FIELD CROPS: Rice harvest was complete or nearly complete except in California, where it was slowed by rain. Peanut harvest was ahead of normal except in Texas. Frost speeded harvest activities in the Low Plains and Cross Timbers areas in Texas. Peanut harvest was nearly complete in Alabama, Georgia, and Virginia. In North Carolina, peanuts were mostly good to fair with harvest 84% complete. Burley tobacco stripping continued in Kentucky and Tennessee. Warm, dry weather slowed tobacco stripping in Kentucky.

FRUIT AND NUTS: Florida's citrus groves were in good condition. Scattered rains fell in most areas but low-volume irrigation continued. Fresh fruit harvest increased seasonably. Pecans were mostly fair to good, with harvest 18% complete in Georgia. In Mississippi, pecans were fair to poor with harvest 5% complete, 10 points behind normal. Pecan harvest was also active in Alabama, Louisiana, and Texas. Apple harvest was nearly complete in North Carolina. In Georgia, apple harvest was 88% complete, 11 points behind normal. In Michigan, apple harvest was nearly complete. Wine grape harvest was nearly complete in the Finger Lakes area of New York. Small fruit sizes slowed citrus harvests in the Rio Grande Valley, Texas. Lemon, grapefruit, and apple harvests were active in Arizona. In California, apple, raisin, almond, walnut, and pistachio harvests were winding down. Some new crop Navel oranges were harvested. In Oregon, fruit harvests were complete in the Hood River Valley. Hazelnut and apple harvests were nearly complete in the Willamette Valley. Apple harvest continued in Idaho.

VEGETABLES: Harvest of fall vegetable crops increased seasonably in Florida. Tomato harvest was underway in the southwest. In Texas, vegetable planting and harvesting progressed rapidly in the Rio Grande Valley. Cucumber and carrot harvests were active in the San Antonio-Winter Garden area. Frost ended vegetable production in the High Plains. Fall lettuce harvest continued in Arizona. In California, lettuce harvest was active in the westside area and was complete in the Salinas area. Potato harvest was complete in the Tulelake area. Tomato harvest was nearly complete in the Stockton area. In Oregon, vegetable harvests were nearly complete in the Willamette valley. Potato harvest was 90% complete in the Hermiston-Boardman area. Potato harvests were virtually complete in Colorado and Idaho. Some vegetable harvests continued in Washington.

PASTURES AND LIVESTOCK: Pastures were good to fair in the Delta and the East and fair to good in the West. In the northern Great Plains, pastures were fair to poor. Dry, dusty conditions caused pneumonia in some calves in northern Nebraska.

Crop Progress

FOR WEEK ENDING OCTOBER 29, 1989

	GRAIN SORGHUM % HARVESTED		
	1989	1988	AVG.
ARK	98	98	96
ILL	80	91	73
KANS	60	70	60
LA	100	100	100
MISS	94	97	97
MO	86	89	74
NEBR	89	94	72
OKLA	28	25	40
S DAK	97	93	71
TENN	100	100	100
TEX	75	87	77
11 STATES	72	80	69

THESE 11 STATES PRODUCED 96%
OF THE 1988 GRAIN SORGHUM CROP.

	GRAIN SORGHUM % MATURE		
	1989	1988	AVG.
ARK	100	100	NA
ILL	100	100	NA
KANS	90	96	95
LA	100	100	100
MISS	100	100	100
MO	100	100	100
NEBR	100	100	100
OKLA	85	75	95
S DAK	100	100	98
TENN	100	100	100
TEX	93	98	96
11 STATES	94	97	NA

EXCL. STATES
WITH NA 94 97 97

THESE 11 STATES PRODUCED 96%
OF THE 1988 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

	SOYBEANS % HARVESTED		
	1989	1988	AVG.
ALA	42	40	44
ARK	44	36	38
GA	20	28	34
ILL	96	97	84
IND	79	84	78
IOWA	99	100	83
KANS	80	85	55
KY	40	51	41
LA	82	55	53
MICH	90	50	50
MINN	99	99	87
MISS	45	33	41
MO	80	80	54
NEBR	95	98	78
N C	10	11	14
OHIO	70	76	76
S C	8	13	13
S DAK	100	100	82
TENN	46	49	40
19 STATES	79	78	67

THESE 19 STATES PRODUCED 95%
OF THE 1988 SOYBEANS CROP.

	WINTER WHEAT % PLANTED		
	1989	1988	AVG.
ARK	52	41	43
CALIF	20	15	25
COLO	100	100	100
GA	7	17	20
IDAHO	98	100	98
ILL	93	94	79
IND	85	90	81
KANS	99	97	90
MICH	100	95	85
MO	82	79	60
MONT	99	100	97
NEBR	100	100	100
N C	23	36	35
OHIO	85	94	86
OKLA	97	95	80
OREG	92	76	76
S DAK	100	100	100
TEX	89	94	84
WASH	97	95	96
19 STATES	91	91	84

THESE 19 STATES PRODUCED 87%
OF THE 1989 WINTER WHEAT CROP.

	WINTER WHEAT % EMERGED		
	1989	1988	AVG.
ARK	33	26	NA
CALIF	5	4	2
COLO	95	94	93
GA	5	11	12
IDAHO	77	77	76
ILL	70	73	59
IND	61	70	66
KANS	85	85	75
MICH	85	80	65
MO	58	63	49
MONT	80	87	71
NEBR	100	100	100
N C	15	23	NA
OHIO	56	62	62
OKLA	75	75	60
OREG	55	50	50
S DAK	100	90	99
TEX	66	85	70
WASH	91	81	80
19 STATES	75	77	NA

EXCL. STATES
WITH NA 77 79 70

THESE 19 STATES PRODUCED 87%
OF THE 1989 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

	COTTON		
	% BOLLS OPENING		
	1989	1988	AVG.
ALA	99	100	100
ARIZ	100	100	100
ARK	96	99	99
CALIF	100	100	100
GA	90	95	97
LA	100	100	100
MISS	99	100	100
MO	100	100	100
N MEX	98	90	95
N C	100	100	100
OKLA	80	93	80
S C	98	99	100
TENN	100	100	100
TEX	85	88	72
14 STATES	92	94	86

THESE 14 STATES PRODUCED 99% OF THE 1988 COTTON CROP.

	COTTON		
	% HARVESTED		
	1989	1988	AVG.
ALA	53	74	76
ARIZ	45	34	50
ARK	54	74	71
CALIF	55	50	52
GA	43	54	62
LA	86	85	79
MISS	52	81	76
MO	83	76	74
N MEX	30	25	22
N C	33	41	45
OKLA	7	20	10
S C	43	51	65
TENN	68	71	72
TEX	29	29	23
14 STATES	43	47	44

THESE 14 STATES PRODUCED 99% OF THE 1988 COTTON CROP.

Crop Condition

FOR WEEK ENDING OCTOBER 29, 1989

	CORN		
	% HARVESTED		
	1989	1988	AVG.
COLO	48	58	54
GA	98	97	98
ILL	88	96	79
IND	48	70	66
IOWA	93	98	68
KANS	85	95	85
KY	75	72	74
MICH	60	40	40
MINN	94	99	62
MO	91	95	77
NEBR	80	86	61
N C	89	86	90
OHIO	29	40	52
PA	26	26	37
S DAK	94	89	57
TEX	99	100	98
WIS	62	78	49

17 STATES 79 85 67

THESE 17 STATES PRODUCED 94% OF THE 1988 CORN CROP.

STATE	% WINTER WHEAT				
	VP	P	F	G	EX
ARK	0	0	10	81	9
CALIF	NA				
COLO	1	4	30	56	9
GA	0	2	12	72	14
IDAHO	0	4	9	75	12
ILL	0	0	12	72	16
IND	0	1	27	66	6
KANS	0	9	16	50	25
MICH	0	0	15	50	35
MO	2	9	47	42	0
MONT	0	4	25	64	7
NEB	1	0	42	54	3
N C	NA				
OHIO	0	3	32	54	11
OKLA	0	5	30	65	0
OREG	0	14	22	64	0
S DAK	0	11	46	38	5
TEX	8	20	31	32	9
WASH	0	0	30	70	0
19 STATE	1	7	26	55	11
PREV WEEK	0	2	25	59	14
PREV YEAR	1	5	33	51	10

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: Temperatures 2 to 4° above normal north; 1 to 3° below normal central, south.

Days suitable for fieldwork 6.2. Soil moisture 18% short, 82% adequate. Crop harvest, small grain seedings full swing; dry, mild conditions prevailed. Corn 93% harvested, 96% 1988, 97% avg. Cotton 99% bolls opened, 100% 1988, 100% avg.; 53% harvested, 74% 1988, 76% avg.; 1% poor, 54% fair, 45% good. Soybeans 97% turning color, 96% 1988, 98% avg.; 89% dropping leaves, 84% 1988, 91% avg.; 82% mature, 66% 1988, 78% avg.; 42% harvested, 40% 1988, 44% avg.; 12% poor, 44% fair, 44% good. Peanuts 99% combined, 92% 1988, 90% avg. Sorghum 87% harvested, 82% 1988, 86% avg. Winter wheat 52% seeded, 53% 1988, 40% avg. Livestock, pastures good to fair. Primary activities: Harvesting row crops, sweet potatoes, pecans; preparing land, planting winter annuals; applying fertilizer, lime to cropland; general care of livestock, poultry, catfish.

ARIZONA: Temperatures 3° below to 4° above normal. Extremes 10°; 90°. Sunny, desert; cloudy, mountains; mostly clear, dry, below normal temperatures, showers northwest, north central; light snow Flagstaff, Grand Canyon areas; rainfall none to 0.19 in.

Cooler temperatures hindered effectiveness of defoliants, cotton harvest activity slowed; insect infestations mostly moderate, light; weeds light to moderate. Alfalfa hay harvest continued moderate to active; new fall plantings, stand renovations normal; weeds, insects mostly light. Lemon, grapefruit harvest, packing continued. Cantaloupe, honeydew, mixed melons harvest continued. Lemon, grapefruit, navel harvest, packing progressed central; honeydew melons, cantaloupe, fall lettuce harvest continued Aguila. Apple harvest, packing progressed east; fall lettuce harvest continued.

ARKANSAS: Warm week. Extremes 34°; 85°. Rainfall none to 0.01 in.

Days suitable for fieldwork 7.0. Soil moisture 66% short, 34% adequate. Rice 99% harvested, 96% 1988, 94% avg. Soybeans 99% yellowing, 93% 1988, 93% avg.; shedding 88%, 78% 1988, 81% avg.; mature 72%, 62% 1988, 65% avg. Soybean 4% poor, 82% fair, 14% good. Cotton 74% fair, 26% good. Oats 68% planted, 61% 1988, 53% avg. Main activities: Corn, cotton, rice, sorghum, soybean harvest; seeding wheat, oats; disking rice stubble; fertilizing pastures, small grains; bush hogging pastures; hay baling. Crop growth moderate. Gins becoming backlogged. Early freeze has shut down some late soybeans. Lack of moisture hindering wheat emergence. Peas, squash killed by early freeze. Livestock good.

CALIFORNIA: Deep low pressure trough off northwest coast brought series of weather systems, produced periods of rain showers over northern area, south coast through much of week. High pressure built over the Pacific northwest late 26th, brought gradual return fair weather by weekend.

Field activities curtailed by general rains early week. Rice harvest slowed. Preparations small grains as soil moisture allowed. Few fields seeded. Cotton harvest slowed, generally good progress. Shredding, discing, pink bollworm control active. Corn, sugarbeet, dry bean,

sunflower harvests progressed as soils dried. Alfalfa, Sudan harvests continued. Windrowed hay, dry beans rained on, turned. Some quality loss likely. Picking apples winding down. Date harvest ongoing. Raisin harvest near completion. Late table grapes packed. Packing of figs, kiwi, persimmons, pomegranates continued. Almond, walnut, pistachio harvests winding down. Olive harvest active. Fall cultural practices active. Desert grapefruit, lemon harvests ongoing. Old crop valencia orange harvest near completion. New crop navel oranges harvested. Tangerine harvest slowed. Broccoli Salinas, Santa Maria heavy, good quality. Transplanting occurred Riverside. Cauliflower heavy Salinas area, moderate, variable quality, Santa Maria. Celery heavy Salinas, Santa Maria areas, good quality. Sweet corn harvest continued San Joaquin Valley. Lettuce harvest full swing, Westside; harvest Salinas area concluded; supplies Santa Maria moderate. Cantaloupe, honeydew harvests continued Palo Verde, good yield, quality. Potato harvest completed good quality, Tullake, light San Joaquin Valley. Pumpkin harvest heavy desert area. Fresh market tomatoes harvested, processing tomato fields being prepared for next years crop, San Joaquin Valley. Stockton tomato movement light, nearing completion. Livestock good. Movement from summer pastures. Supplemental feeding, cattle movement to feedlots continued. Recent rains helped pastures, improved water supplies.

COLORADO: Mostly warm seasonal weather with some snow over mountains. No precipitation eastern, western areas. Precipitation trace to 0.10 in. remaining areas. Temperature 4 to 6° above normal.

Days suitable for fieldwork 6.2. Soil moisture 16% very short, 66% short, 18% adequate. Alfalfa 91% cut third time 51% cut forth time. Corn harvest 48% complete. Sorghum harvest 46% complete. Sugarbeets 74% complete. Dry beans, dry onion, potatoes all harvested. Livestock good with ranges, pastures fair to good.

FLORIDA: Showers occurred almost daily along Atlantic Coast; rainfall 1.00 to 3.00 in. Rains much lighter, interior, western areas Peninsula; no rain across Panhandle. Temperatures near to slightly cooler than normal. Coolest readings 40s north to 50s, 60s elsewhere. Warmest temperatures near 80° north to mid 80s south.

Soil moisture Panhandle, southern Peninsula adequate; northern, central Peninsula short to adequate. Cotton, soybean harvests, haying active. Sugarcane harvest underway. Sugarcane planting winding down. Seeding fall crops continued. Panhandle pastures poor to good; northern Peninsula remained fair to good; central Peninsula good. Southern Peninsula pastures declined, vary, fair to excellent. Cattle good. Citrus groves very good. Scattered rain most areas; low volume irrigation continued. Early fruit coloring well. Fresh fruit harvest increased. Caretakers busy winterizing groves. Mild days, cool nights prevailed over major vegetable producing areas. Precipitation limited. Excellent planting conditions winter crops. Harvest fall crops increased. Volume leaders: Cucumbers, sweet corn, squash, peppers, eggplant, snap beans, radishes. Tomato harvest southwest underway.

GEORGIA: Dry week. Temperatures around normal, 2° below normal to 3° above normal. Extremes highs upper 70s north, mid 70s mountains, 80° central, south. Coldest low 30s mountains, around 40° central, upper 40s extreme south.

Days suitable for fieldwork 6.3. Soil moisture 25% short, 74% adequate, 1% surplus. Cotton 14% fair, 80% good, 6% excellent; Harvest very active, excellent weather. Sorghum Grain 82% harvested, 77% 1988, 82% avg. Peanuts 99% dug, 98% 1988, 98% avg.; 95% threshed, 91% 1988, 92% avg. Soybeans 8% poor, 29% fair, 60% good, 3% excellent; excellent for harvest. Rye 20% fair, 76% good, 4% excellent; 63% planted, 55% 1988, 51% avg. Other small grains 36% planted, 44% 1988, 40% avg. Apples 88% harvested, 100% 1988, 99% avg. Pecans 5% very poor, 12% poor, 51% fair, 32% good; 18% harvested, 14% 1988, 18% avg.; excellent for harvest. Pasture, hay fair to good. Cattle, hogs good.

HAWAII: High pressure system maintained favorable weather for agriculture. Warm, sunny, beneficial showers enhanced crop production, growth. Temperatures mid 60s to mid 80s, variable winds up to 25 mph. Rainfall none to 5.10 in.

Days suitable for farm work 7.0. Papaya production active. Sugar, pineapple harvesting continuous.

IDAHO: Temperatures, precipitation above normal Statewide.

Days suitable for fieldwork 5.0. Soil moisture 5% very short, 9% short, 85% adequate, 1% surplus. Snow higher elevations improved outlook for water availability next year. Winter wheat 98% planted, 100% 1988, 98% avg.; 77% emerged, 77% 1988, 76% avg.; 4% poor, 9% fair, 75% good, 12% excellent. Potatoes 99% harvested, 100% 1988, 97% avg. Sugarbeets 75% harvested, 78% 1988, 74% avg. Corn harvested for grain 37% harvested. Apples 82% harvested, 91% 1988, 96% avg. Fall forage growth finished. Short hay supplies some areas of north. Cattle, calves good to excellent.

ILLINOIS: Temperatures 8 to 15° above normal. Light showers northwest, mostly none elsewhere.

Days suitable for fieldwork 6.75. Soil moisture 50% short, 50% adequate. Pasture 4% poor, 40% fair, 53% good, 3% excellent. Livestock roughage requirements from pasture 64%, 46% 1988, 58% avg.

INDIANA: Temperatures 4 to 16° above normal. Lows mid to upper 40s, highs mid to upper 70s.

Days suitable for fieldwork 5.7. Topsoil 12% short, 82% adequate, 6% surplus. Subsoil 11% short, 88% adequate, 1% surplus. Corn 21% moisture content, soybeans 13% moisture content. Rye 94% seeded, 94% 1988, 89% avg. Pasture 7% poor, 37% fair, 51% good, 5% excellent. Corn, soybean harvest advanced rapidly this past week.

IOWA: Temperatures 12 to 16° above normal. Extremes 34°; 83°. Rainfall 0.04 to 1.92 in., average 0.54 in.

Days suitable for fieldwork 6.9. Topsoil 87% short, 13% adequate. Subsoil 95% short, 5% adequate. Corn good. Soybeans good. Row crop acreage fall tilled 35%, 49% 1988, 26% avg. Row crop acreage with fall fertilizer applied 28%, 39% 1988, 20% avg. Livestock good. Pasture 4% very poor, 29% poor, 48% fair, 19% good.

KANSAS: Temperatures mid to upper 60s, 10 to 15° warmer than normal. Precipitation most areas 0.02 in. southwest, high 0.67 in. east central, 0.32 in. overall.

Days suitable for fieldwork 6.0. Topsoil 89% short, 11% adequate. Subsoil 34% short, 66%

adequate. Corn, sorghum, soybean harvest good progress, generally behind last years schedule. Corn harvest nearing completion, central, southern areas. Wheat seeding good progress, nearing completion ahead of schedule. Scattered showers over the weekend provided much needed moisture for wheat crop. Range, pasture fair to good. Movement of livestock to corn, sorghum stubble relieving pressure on native pastures. Grazing on volunteer wheat.

KENTUCKY: Indian summer, clear, mild nights. Sunny warm days. Afternoon highs mid to upper 70s, 10 to 15° above normal.

Days suitable for fieldwork 5.4. Soil moisture 5% short, 90% adequate, 5% surplus. Corn harvest 75% complete, nearly finished some western counties. Soybean harvest active; yields good, frost, earlier dry weather reduced production in Purchase area. Burley stripping 17% completed, 1988 17%, 19% avg. Warm, dry weather limited stripping. Quality burley fair to mostly good. Wheat 62% seeded, early seeded wheat good. Pastures 1% poor, 8% fair, 68% good, 23% excellent.

LOUISIANA: Temperatures 3 to 4° above normal northwest, 3 to 4° below normal southeast. Extremes 31°; 93°.

Days suitable for fieldwork 6.8. Soil moisture 33% very short, 39% short, 28% adequate. Cotton harvested 86%, 85% 1988, 79% avg. Some fields heavily damaged due to freezing temperatures. Hay final cutting 100%, 97% 1988, 98% avg. Pecans harvested 17%, 9% 1988, 11% avg. Soybeans shedding leaves 100%, 90% 1988, 91% avg.; harvested 82%, 55% 1988, 53% avg. Sugarcane harvested 30%, 27% 1988, 19% avg. Sweet potatoes harvested 80%, 88% 1988, 87% avg. Wheat planted 25%, 20% 1988, 20% avg.; emerged 9%, 12% 1988, 13% avg. Dry conditions have slowed planting operations. Livestock 36% fair, 64% good. Pasture 4% very poor, 24% poor, 47% fair, 25% good. Vegetable 11% very poor, 16% poor, 47% fair, 26% good.

MARYLAND & DELAWARE: MARYLAND: Precipitation 0.05 in. Temperature 53°, normal 53°. Extremes 25°; 80°.

Days suitable for fieldwork 6.6. Topsoil 10% short, 90% adequate. Subsoil 90% adequate, 10% surplus. Field corn good; harvested for grain 68%, 84% 1988, 83% avg. Soybeans good; 89% shedding leaves, 98% 1988, 94% avg.; 40% harvested, 47% 1988, 40% avg. Pasture good. All hay adequate. Wheat 53% seeded, 74% 1988, 69% avg. Barley 84% seeded, 92% 1988, 88% avg. Rye 64% seeded, 76% 1988, 81% avg. Oats 20% seeded, 57% 1988, 75% avg.

DELAWARE: Precipitation 0.02 in. Temperature 53°, normal 53°. Extremes 35°; 76°.

Days suitable for fieldwork 6.4. Topsoil 86% adequate, 14% surplus. Subsoil 71% adequate, 29% surplus. Field corn fair to good; harvested for grain 90%, 92% 1988, 91% avg. Soybeans good: 89% shedding leaves, 98% 1988, 94% avg.; 28% harvested, 44% 1988, 38% avg. Apples 97% harvested, 92% 1988, 94% avg. Pasture good. All hay adequate. Wheat 42% seeded, 56% 1988, 48% avg. Barley 72% seeded, 94% 1988, 85% avg. Rye 74% seeded, 59% 1988, 58% avg.

MICHIGAN: Temperatures 8 to 16° above normal. Extremes 28°; 78°. Precipitation none to 0.10 in. across State.

Days suitable for fieldwork 6.5. Soil moisture 25% short, 75% adequate. Corn 60% harvested, 40% 1988, 40% avg. Soybeans 90% harvested, 50% 1988, 50% avg. Winter wheat 100% planted, 95% 1988, 85%

avg.; 85% emerged, 80% 1988, 65% avg.; 15% fair, 50% good, 35% excellent. Major activities: Corn for grain, soybean, sugarbeet harvesting. Apple harvest winding down.

MINNESOTA: Temperatures 11 to 17° above normal. Extremes 24°; 85°. Precipitation 0.04 to 0.88 in. Greatest weekly total 1.65 in.

Days suitable for fieldwork 6.7. Topsoil 61% very short, 30% short, 9% adequate. Subsoil 52% very short, 41% short, 7% adequate. Corn 94% harvested, 99% 1988, 62% avg. Corn 17% moisture, 16% 1988, 22% avg. Corn 47% land plowed/tilled, 73% 1988, 35% avg.

MISSISSIPPI: Dry, no rainfall. Temperature normal. Extremes 29°; 84°.

Days suitable for fieldwork 6.4, 3.3 1988, 3.7 avg. Soil moisture 35% short, 65% adequate. Corn harvested 90%, 90% 1988, 96% avg. Cotton fair; 52% harvested, 81% 1988, 76% avg. Hay 97% harvested, 96% 1988, 97% avg. Pecans fair to poor; 5% harvested, 8% 1988, 15% avg. Rice 97% harvested, 95% 1988, 98% avg. Sorghum 94% harvested, 97% 1988, 97% avg. Soybeans fair; 45% harvested, 33% 1988, 41% avg. Sweet potatoes 75% harvested, 91% 1988, 86% avg. Wheat 52% planted, 46% 1988, 32% avg. Pastures, livestock good. Perfect weather for harvesting soybeans, cotton, planting wheat.

MISSOURI: Temperatures 5° above normal southeast to 11° above normal elsewhere. Rainfall 2.00 in. northwest, west central, over 1.00 north central, minor elsewhere.

Days suitable for fieldwork 6.4. Topsoil 66% short, 34% adequate. Corn harvesting complete southeast, other areas 85% southwest to 92% central. Soybean harvest 59% southwest to 90% northeast. Sorghum harvest 98% southeast, other areas 73% to 84%. Wheat, pastures need rain. Pasture 2% very poor, 20% poor, 50% fair, 28% good. Ground worked at least once for spring crops 33%, 34% 1988, 29% avg.

MONTANA: Temperatures 1 to 8° above normal. Nearly all areas received some moisture, trace to 1.75 in.

Days suitable for fieldwork 6.3. Topsoil 41% short, 58% adequate, 1% surplus. Subsoil 45% short, 54% adequate, 1% surplus. Potatoes 95% harvested, 100% 1988, 97% avg. Sugarbeets 88% harvested, 100% 1988, 99% avg. Pasture, range feed 3% very poor, 11% poor, 29% fair, 51% good, 6% excellent. Cattle, calves moved from summer ranges 73%, 93% 1988, 83% avg. Sheep, lambs move from summer ranges 71%, 95% 1988, 87% avg.

NEBRASKA: Temperatures 3° above normal northwest to 15° above east central. Extremes 28°; 83°. Precipitation occurred latter half of week, traces up to 0.06 in.

Days suitable for fieldwork 6.7. Topsoil 78% short, 22% adequate. Subsoil 82% short, 18% adequate. Corn, Sorghum harvest 10 days ahead of average, Soybeans 11 days ahead. Some dryland corn fields in southeast too poor to harvest, will be grazed. Excellent fall drying weather has reduced the need for most crop drying. Rain in the west gave the winter wheat crop a boost, slowed the development of Russian wheat aphids. Scattered rains over the weekend will help wheat in the east, southeast. Sugar beet harvest was nearing completion, west. Pasture, range feed 18% very short, 60% short, 22% adequate. Hay, roughage 7% very short, 30% short, 63% adequate. Cattle continued to graze stalks, making excellent gains, southwest. In north, cases of pneumonia in calves, caused by dust from dry conditions. Calves being worked, marketed around State.

NEVADA: Strong cold upper level trough from Gulf of Alaska moved across State. Precipitation varying nearly all parts of State. Austin area heaviest nearly 1.50 in. Second trough from eastern Pacific moved across State late in period. Precipitation this system light, limited northern areas. Cooler temperatures, minimums dropped low 20s upper teens northern, central areas. Minimums southern areas mostly upper 20s, 30s.

Main farm, ranch activities moving, sorting cattle, preparing for winter. Harvesting operations essentially completed for the 1989 season.

NEW ENGLAND: Dry week. No precipitation except for trace amounts near Canadian border. Unseasonably warm temperatures upper 40s north to mid 50s south coast.

Cranberry harvest nearly complete. Major farm activities: Fall cleanup, harvesting remainder of fall vegetables.

NEW JERSEY: Temperatures much above normal. Extremes 30°; 80°. Estimated soil moisture percent field capacity averaged 94% north, 90% central, 86% south. Four inch soil temperatures averaged 53° north, 54° central, 55° south.

Soil moisture adequate all areas of State. Weather conditions ideal for crop germination, growth. Fieldwork very active. Cabbage, lettuce, spinach, broccoli, cauliflower, fall greens moved to market. Apple, cranberry harvest well advanced. Harvest of soybeans, corn for grain very active. Grain, cover crop planting active. Pasture growth seasonally good.

NEW MEXICO: Temperatures varied widely over State; precipitation limited to scattered areas.

Days suitable for fieldwork 6.8. Soil moisture 70% short, 30% adequate. Cotton bolls open 98%, 30% harvested. Wheat planted 100%, 98% emerged. Cattle 50% fair, 40% good, 10% excellent. Sheep 44% fair, 56% good. Ranges, pastures 30% poor, 50% fair, 20% good.

NEW YORK: Temperatures well above normal. Daytime highs 15 to 20° above normal, nighttime lows near normal to 10° above normal. Extremes 23° Jamestown; 79° Poughkeepsie. Very little precipitation. Greatest amount 0.14 in. Jamestown.

Days suitable for fieldwork 5.9. Soil moisture adequate to surplus. Weather ideal for drying fields. Pastures, hay good. Corn fair to good. Third-cutting alfalfa 90% complete. Silage corn 86% harvested, 94% 1988, 82% avg. Grain corn 27% harvested, 30% 1988, 26% avg. Finger Lakes wine grape harvest nearing completion.

NORTH CAROLINA: Temperatures none to 3° above normal across State. Extremes 31°; 79°. No precipitation.

Days suitable for fieldwork 6.1. Soil moisture 3% short, 94% adequate, 3% surplus. Pasture 19% fair, 70% good, 11% excellent. Livestock feed from pasture 85%. Crop condition: Sweet potatoes 6% poor, 21% fair, 76% good, 6% excellent; peanuts 44% fair, 56% good; sorghum 26% fair, 71% good, 3% excellent; cotton 22% fair, 70% good, 8% excellent; soybeans 28% fair, 69% good, 3% excellent; hay, roughage 84% adequate, 16% surplus. Harvesting completed: Corn silage 98%; apples 95%, 98% 1988, 92% avg.; sorghum 52%, 77% 1988, 71% avg.; sweet potatoes 72%, 87% 1988, 80% avg.; peanut dug 95%, 91% 1988, 92% avg.; peanuts threshed 84%, 74% 1988, 80% avg. Plantings completed: Wheat 23%, 36% 1988, 35% avg.; oats 47%, 63% 1988, 56% avg.; barley 47%, 64% 1988, 58% avg.; rye 45%, 55% 1988, 53% avg. Major activities: Harvest of corn grain. Other

activities: Harvesting apples, peanuts, cotton, soybeans, sorghum; small grain planting; cutting wood; pruning, tagging Christmas trees; tending livestock; general farm maintenance.

NORTH DAKOTA: Temperatures 10 to 15° above normal. Extremes 23° north central; 85° southeast. Western area 0.75 in. to 1.05 in. of precipitation, very little rain rest of State.

Days suitable for fieldwork 6.0. Soil moisture still very short. Topsoil 51% very short, 41% short, 8% adequate. Subsoil 62% very short, 36% short, 2% adequate. Harvest complete except for isolated fields. Sunflower 99% harvested, 96% 1988, 69% avg.; corn 96%, 97% 1988, 72% avg. Fall tillage, hay hauling are main activities. Pasture 12% very poor, 70% poor, 15% fair, 3% good; furnished 73% roughage requirements.

OHIO: High temperatures mid to upper 70s; 10 to 16° above normal. Low temperatures upper 30s to low 40s; 3 to 8° above normal. No rain. Soil temperatures averaged on 50s; 2 to 5° above normal.

Days suitable for fieldwork 5.7. Soil moisture 5% short, 87% adequate, 8% surplus. Late crop harvest pace quickened; most action focused on soybeans. Moisture in harvested corn 25%; in soybeans 14%. Winter wheat mostly good; planting progress close to average pace. Some hay harvested, best quality of season.

OKLAHOMA: Temperatures 2° above normal Panhandle to 9° above normal northeast. Precipitation none Panhandle to 1.92 in. central.

Days suitable for fieldwork 6.8. Topsoil 80% short, 20% adequate. Subsoil 30% short, 70% adequate. Wheat 5% poor, 30% fair, 65% good; 97% planted, 95% 1988, 80% avg.; 75% emerged, 75% 1988, 60% avg. Month long dryness hindered growth. Cotton 5% poor, 65% fair, 30% good; 80% open bolls, 93% 1988, 80% avg.; 7% harvested, 20% 1988, 10% avg. Dry weather, late planting slowed development. Sorghum 28% harvested, 25% 1988, 40% avg. Soybeans 40% harvested, 30% 1988, 35% avg. Peanuts 55% harvested, 45% 1988, 40% avg. Pastures good. Cattle good; marketings, prices up from preceding week.

OREGON: Temperatures near normal except extreme south central area 4 to 5° below normal. Heavy precipitation west: 2.50 to 3.50 in. along coast, northern Cascades, high plateau; up to 5.00 in. coast; western valleys 1.80 in. Precipitation on east side 0.20 to 0.50 in.; except northeast mountains, Klamath Falls 0.80 to 1.00 in.

Soil moisture 17% short, 78% adequate, 5% surplus. Some Russian wheat aphids in early planted wheat fields Columbia Basin Counties. Barley 70% seeded, 38% 1988. Little ryegrass still to be seeded mid Willamette Valley. Field corn harvest well underway Hermiston-Boardman, silage corn completed. Sugarbeet harvest continued Malheur County. All major fruit harvesting complete Hood River, Medford; latter area spraying for pear psylla control. Hazelnut, apple harvest winding down Willamette Valley; walnuts 50% completed. Weed control, root rot, nematode control continued in berry fields. Cranberries 75% harvested; yield, quality good south coast. Carrots, cole crops harvested Willamette Valley; finishing squash, sweet corn, broccoli. Potato harvest 90% completed Hermiston-Boardman; almost done Malheur, Klamath Counties; completed Baker, Jefferson Counties. Onion harvest also nearly completed Malheur. Livestock good to excellent. Range, pasture fair to good. Cattle on corn stalks, turnips Boardman area; being moved to lower elevations throughout the east. Weaning, shipping calves.

PENNSYLVANIA: Temperatures above normal except for first day of week. Temperature 54°, 5° above normal. Extremes 22°, 79°. Precipitation none in., 0.61 in. below normal.

Days suitable for fieldwork 6. Soil moisture 5% short, 85% adequate, 10% surplus. Corn 84% mature, 81% 1988, 92% avg.; 26% harvested, 28% 1988, 37% avg. Ensilage corn 89% harvested, 90% 1988, 94% avg. Corn 1% very poor, 8% poor, 21% fair, 44% good, 26% excellent. Soybean harvest 29% complete, 28% 1988, 34% avg. Soybean 6% poor, 28% fair, 51% good, 15% excellent. Potato harvest 96% complete, 90% 1988, 96% avg. Fall plowing 82% complete, 92% 1988, 95% avg. Winter wheat 86% planted, 91% 1988, 92% avg. Barley 97% planted, 97% 1988, 98% avg. Third cutting alfalfa 95% complete, 99% 1988. Fourth cutting alfalfa 67% complete, 79% 1988. Quality of hay made during week good to fair. Amount of feed being obtained from pastures average. Apple harvest 86% complete, 84% 1988. Grape harvest 90% complete, 90% 1988. Activities: Harvesting hay, haylage, potatoes, vegetables, corn, corn silage, fall plowing, planting; maintaining machinery, caring for livestock.

SOUTH CAROLINA: Temperatures slightly cooler than normal.

Days suitable for fieldwork 6.1. Soil moisture 31% short, 69% adequate. Cotton 1% very poor, 15% poor, 63% fair, 21% good, 98% open bolls, 99% 1988, 100% avg.; 43% harvested, 51% 1988, 65% avg. Soybeans 3% poor, 64% fair, 33% good, 94% leaves turning, 96% 1988, 96% avg.; 74% shedding leaves, 71% 1988, 78% avg.; 60% matured, 56% 1988, 57% avg.; 8% harvested, 13% 1988, 13% avg. Tobacco 85% stalks destroyed, 88% 1988, 91% avg. Corn fair, 96% harvested, 96% 1988, 99% avg. Sorghum fair to good, 58% harvested, 62% 1988, 69% avg. Peanuts fair to good, 79% harvested, 77% 1988, 77% avg. Pasture, hay fair to good. Livestock good.

SOUTH DAKOTA: Temperatures 8 to 17° above normal. West colder by weekend. Extremes 21°, 89°. Precipitation since September 3rd generally above normal, 4.32 in. above normal to 2.20 in. below normal. Weekly precipitation light east, heavier west, maximum 1.32 in.

Days suitable for fieldwork 6.2. Topsoil 31% critically short, 57% short, 12% adequate. Subsoil 48% critically short, 44% short, 8% adequate. Winter rye good to fair. Winter wheat fair to good. Major activities: Harvesting row crops, working cattle, fencing, general winter preparation.

TENNESSEE: Warm, dry week. Temperatures slightly above normal Statewide. Precipitation very light, scattered.

Days suitable for fieldwork 6.2. Soil moisture 3% short, 95% adequate, 2% surplus. Burley tobacco 38% stripped, 46% 1988, 37% avg. Wheat 52% seeded, 63% 1988, 48% avg. Harvest made good progress. Soybeans lacking maturity at harvest. Pastures, cattle mostly good.

TEXAS: Fair, dry weather beginning last week. Atmosphere more unstable late week, weekend. Widely scattered to scattered showers, thunderstorms developed west central, southwest, spread into north, central areas. Cooler air moved into west over weekend, cold front moved southward. Precipitation totals most areas below normal. Above normal departures south central, Cross Timbers. Temperatures generally above normal, except one or two degrees below normal southern High Plains, Coastal Bend.

Crops: Corn producers High Plains trying finish up harvest under open conditions. Freeze two weeks ago little effect remaining fields.

Grain sorghum harvest increased Plains, Cross Timbers. Yields good; freeze reduced potential some late fields. Cooler weather speed up maturing. Cotton producers Plains resumed harvest. Frost killed some early fields, help speed up harvest. Cooler weather cut production late fields. Irrigated yields good. Some damage Trans-Pecos, harvest continued. Harvest almost complete Blacklands. Small grain seeding remained slow Blacklands, central because dry conditions. Poor germination many planted fields. Warmer temperatures helped growth progress High Plains; many dryland fields need rain. Rain needed to establish stands Cross Timbers. Irrigated fields good progress, provide some stocker grazing. Recent frost increased peanut digging Low Plains, Cross Timbers. Most yields good, some low grades. Harvest continuing central, south. Irrigated yields good, dryland yields poor. Frost nipped many fields throughout Cross Timbers, central. Soybean harvest good progress last week. Yields Plains, northeast mostly good. Later varieties Upper Coast low yields. Sugarbeet harvest continued High Plains. Frost did not seem to hurt beets very much. Other crops: Peanuts harvested 37%; 58% 1988, 45% avg. Pecans 11%, 15% 1988, 16% avg. Soybeans harvested 72%, 69% 1988, 50% avg. Sugarbeets 41%, 39% 1988, 35% avg. Sunflowers harvested 41%, 56% 1988, 55% avg. Oats planted 72%, 66% 1988, 72% avg.

Commercial Vegetables: Rio Grande Valley, vegetable planting, harvesting proceeded without delays. Irrigation steady. Harvest citrus slow because small sizes. Fruit quality good. San Antonio-Winter Garden, cucumber, carrot harvest continued. Other vegetables good progress. Eastern area, frost two weeks ago did some damage to tender vegetables. High Plains, frost ended most production. Some pumpkins, carrots still being harvested. Trans-Pecos, bell, chile pepper harvest continued. Some minor damage because frost. Pecan harvest increased with open weather. Crop light many areas. Many nuts still falling prematurely. Trees drier areas losing leaves much too early.

Range and Livestock: Ranges, pastures short throughout much State. Frost hurt forage growth Plains. Some stockers beginning graze irrigated wheat Plains. Livestock producers many areas continued feed hay steadily. Livestock varied. Markets down slightly.

UTAH: Temperatures 7° above normal central, north, 2° above normal south. Heavy precipitation north central, moderate south central, northern mountains, western divisions, light south eastern parts.

Corn grain, apple harvest nearing completion. Irrigation, stockwater supplies remain short. Cattle, sheep movement from summer range virtually complete. Fall season farm activities continue as normal.

VIRGINIA: Temperatures below normal for the period. Days dry, cool. Extremes 27°; 76°. Very little or no precipitation.

Days suitable for fieldwork 6.1. Topsoil 8% surplus, 88% adequate, 4% short. Corn for grain

80% harvested, 73% 1988, 74% avg. Soybean harvest 27% complete, 13% 1988, 15% avg. Peanuts dug complete, 86% 1988, 93% avg. Peanuts combined virtually complete 71% 1988, 84% avg. Winter wheat seeding 32% complete, 29% 1988, 34% avg. Winter oats seeding 71% complete, 69% 1988, 81% avg. Barley seeding 72% complete, 68% 1988, 73% avg. Apple, vegetable, sweet potato harvest continues.

WASHINGTON: Temperatures 3° above to 4° below normal, east; 1 to 4° above normal, west. Precipitation 0.43 to 1.26 in., east; 1.02 to 3.44 in., west.

Days suitable for fieldwork 3.8. Soil moisture 55% short, 45% adequate. Range, pasture 50% short, 50% adequate. Hay, other roughage 10% short, 85% adequate, 5% surplus. Planting of winter wheat continued, nearing completion. Rain fell in many areas, moisture stress appearing in some early plantings. Russian wheat aphids widespread, control programs in place. Winter wheat planted 97%, 95% 1988, 96% avg.; emerged 91%, 81% 1988, 80% avg. Progress of other crop harvests: Potatoes 99%, 92% 1988, 91% avg.; corn silage 98%, 99% 1988, 99% avg.; corn grain 27%, 45% 1988, 56% avg. Harvests of apples, carrots, pumpkins, celery, cabbage continued. Cranberry harvest was progressing rapidly. Pruning, cleaning of caneberry fields continued. Orchardists were cleaning up orchards, fumigating for next year. Cattle were worked, calves continued to be marketed.

WEST VIRGINIA: Temperature 55°, 5° above normal. Extremes 20°; 82°.

Days suitable for fieldwork 5.5. Soil moisture 4% short, 83% adequate, 13% surplus. Corn good to excellent; harvest 54% complete. Wheat seeding 69% complete. Hay good to fair; 3rd cut 78% complete. Pastures good to excellent. Cattle, calves good to excellent. Sheep, lambs good. Farm activities: Corn, hay harvest, clipping pastures, marketing cattle, stripping tobacco.

WISCONSIN: Balmy weather. Temperature 58°, 14° above normal. Extremes 25°; 81°. Precipitation trace to 0.70, most southwest.

Days suitable for fieldwork 6.6. Soil moisture 78% short, 22% adequate. Pasture 59% of normal, 65% 1988, 83% avg. Rapid harvest progress. Yields generally good. Corn grain 62% harvested, 78% 1988, 49% avg. Corn silo filling 98% complete, 98% 1988, 91% avg. Soybeans 87% harvested, 83% 1988, 58% avg. Fall plowing 35% complete, 56% 1988, 36% avg.

WYOMING: Temperatures 5 to 10° above normal. Precipitation mostly below normal.

Days suitable for fieldwork 6.0. Topsoil 47% short, 53% adequate. 1990 winter wheat fair to mostly good. Corn for grain 30% harvested, 25% 1988, 35% avg. Dry bean harvest continues, most normally harvested. Sugarbeets 70% dug, 80% 1988, 85% avg. Sugar content 17.0%. Potatoes 95% harvested, 100% 1988. Livestock fair to good. Producers continue to move stock to winter pastures, markets. Hay supplies for wintering stock adequate or better 60% of State.

International Weather and Crop Summary

October 22-28, 1989

HIGHLIGHTS

USSR ... Dry weather helps summer crop harvests advance toward completion. Winter grains continue to add on growth prior to dormancy.

EUROPE ... Warm, dry weather speeds late summer harvest in central and eastern crop areas. Widespread rain covers the west.

SOUTH ASIA ... Dry, warm weather dominates most regions.

EASTERN ASIA ... Rain continues in the Yangtze Valley. Dryness favors rice harvest in the east.

SOUTHEAST ASIA ... Drier weather covers Thailand. Mostly moderate rain covers Indonesia and the Philippines.

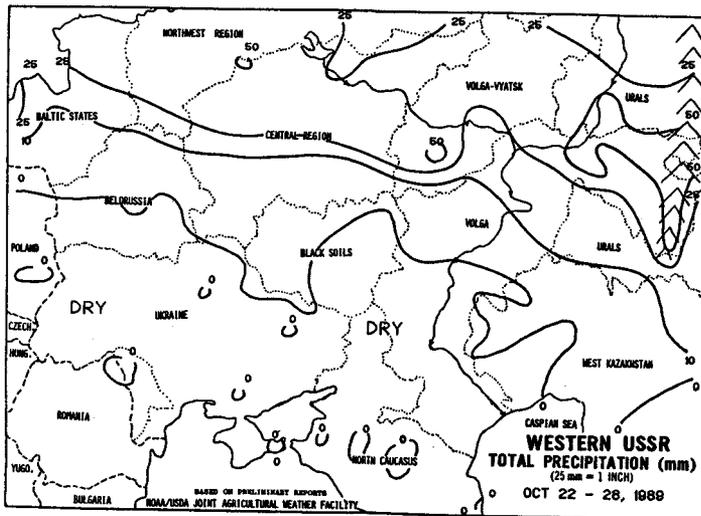
SOUTH AFRICA ... Scattered showers continue across primary corn regions, improving planting conditions.

SOUTH AMERICA ... Widespread rain generally helps Argentina's crop areas but slows fieldwork in south-central Brazil.

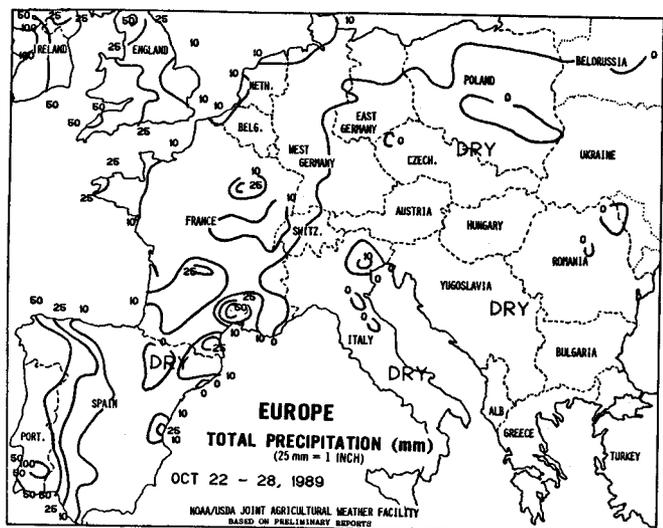
AUSTRALIA ... Heavy rain helps ease dryness in the east.

MEXICO ... Mostly dry weather prevails, with only widely scattered showers across the country.

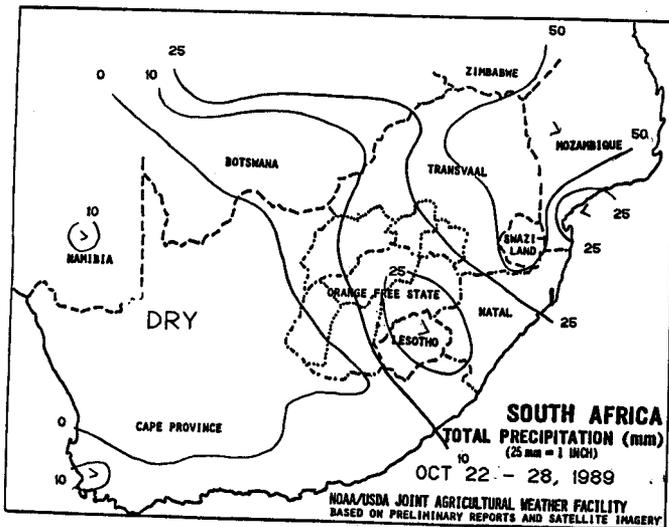
NORTHWESTERN AFRICA ... Early season fieldwork continues.



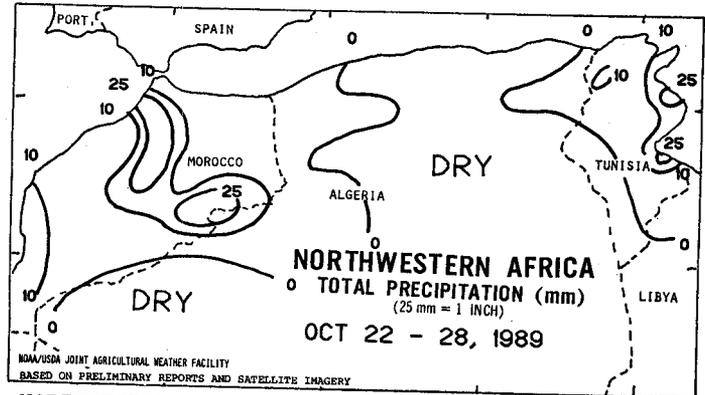
WESTERN USSR ... Dry weather covered southern Belorussia, the Ukraine, the southern portion of the Black Soils Region, the North Caucasus, and the lower Volga, helping the corn, sunflower, and sugarbeet harvests advance toward completion without delays. Substantial precipitation (25-50mm, with isolated amounts in excess of 50mm) over the northern Baltic States, the Northwest Region, the northern portion of the Central Region, the Volga Vyatsk, and the Urals increased moisture reserves and benefited winter grain establishment. Unseasonably warm weather covered the entire region, with weekly average temperatures ranging from 3 to 7 degrees Celsius (C) above normal. As a result, winter grains over the northern portion of the region continued slow growth at a time when they are usually entering dormancy. Winter grains in the south usually enter dormancy in mid-November.



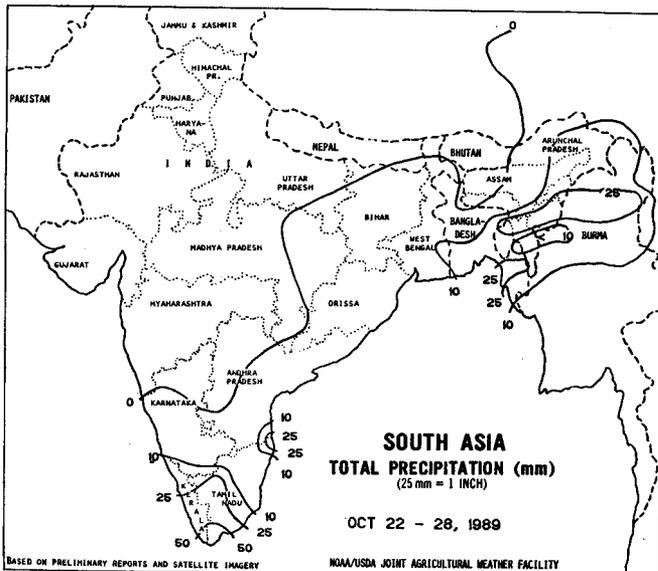
EUROPE ... Mostly dry and warm weather covered much of central and eastern Europe, favoring late harvest of summer crops. Much-above-normal temperatures (2-9 degrees C above normal) over all but extreme southeastern crop areas accelerated early vegetative growth of winter grains. Elsewhere, widespread rain (5-30mm, with scattered amounts in excess of 40mm) fell from Spain northward to Great Britain, causing delays in sugarbeet lifting, but increasing soil moisture for vegetative winter grains following a drier-than-normal summer and early fall. In Portugal and western Spain, heavy seasonal rains (50-100mm, with isolated amounts greater than 100mm) helped end dryness but may have caused localized flooding.



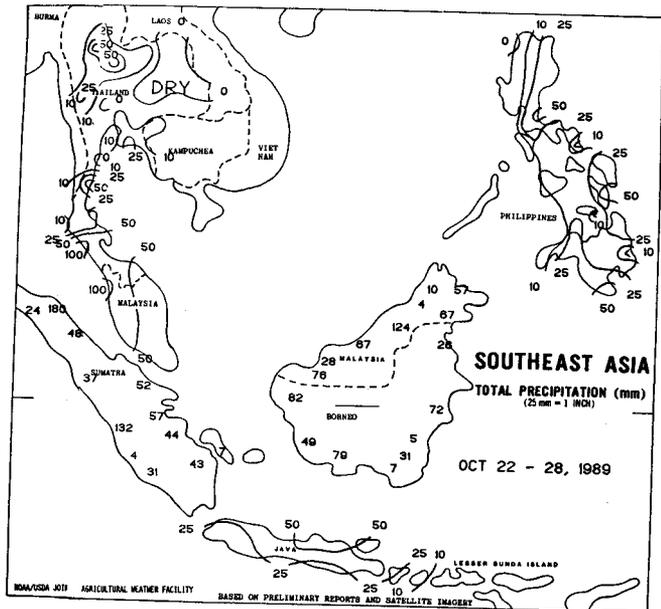
SOUTH AFRICA ... Scattered showers continued across South Africa's primary corn regions, improving planting conditions. Heaviest rain (25-50mm or more) covered the eastern tip of the Maize Triangle and nearby regions of central and southern Transvaal, reflecting the recent pattern of beneficial preplanting rainfall. Light to moderate rain (10-33mm) fell over much of the western and central Maize Triangle, Natal, and the eastern Cape Province. The rainfall in the western third of the Maize Triangle was the heaviest of the season in most areas, but many outlying areas were still too dry for planting, which is usually well underway by middle to late November. Temperatures averaged 1-3 degrees C below normal over most crop regions. Minimum temperatures continued to dip below 5 degrees C over local areas of the Maize Triangle.



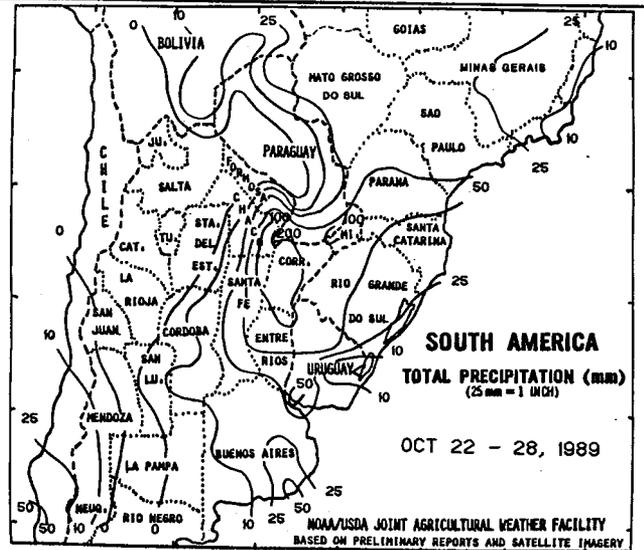
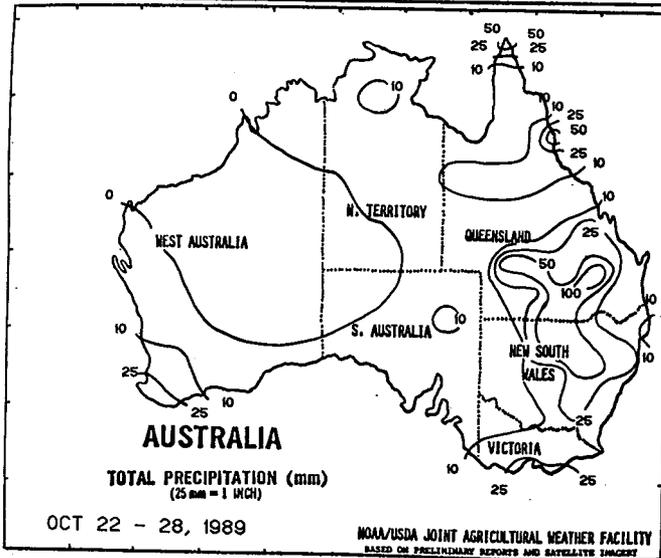
NORTHWESTERN AFRICA ... Early preparations for winter grain planting continued over most of the region. In Morocco, widespread significant precipitation (10-38mm) over northern winter grain areas helped to condition soils, favoring fieldwork in preparation for planting. Farmers in western Algeria continued to await the onset of significant autumn rain before beginning fieldwork. Elsewhere, light, scattered showers (precipitation less than 10mm) covered winter grain areas in eastern Algeria and Tunisia. Weekly average temperatures were near normal in eastern Algeria and Tunisia, and 3-5 degrees C above normal in western Algeria and Morocco.



SOUTH ASIA ... Dry, warm weather again dominated all but the eastern and southernmost primary crop regions, favoring summer crop harvests and fall plantings. Winter wheat planting is usually well underway by late October across the primary growing regions of the north that are mostly irrigated. Secondary rice planting usually begins in southern and eastern India in November and Bangladesh in December. Light, scattered rain (1-25mm or more) in the east and southern tip boosted local irrigation reserves.

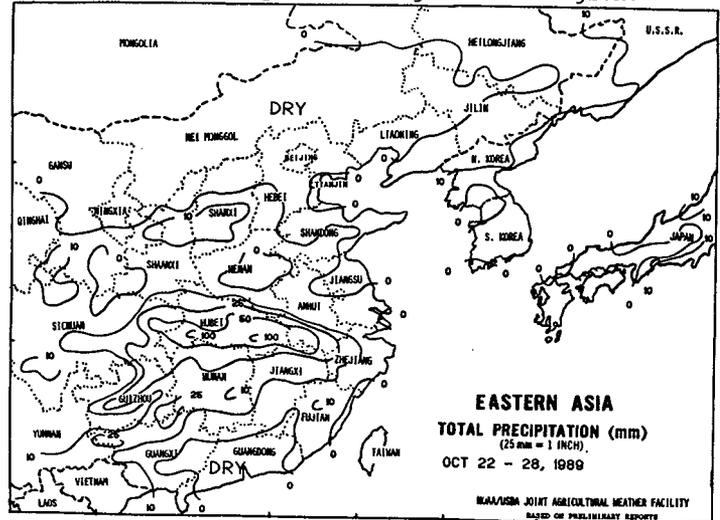
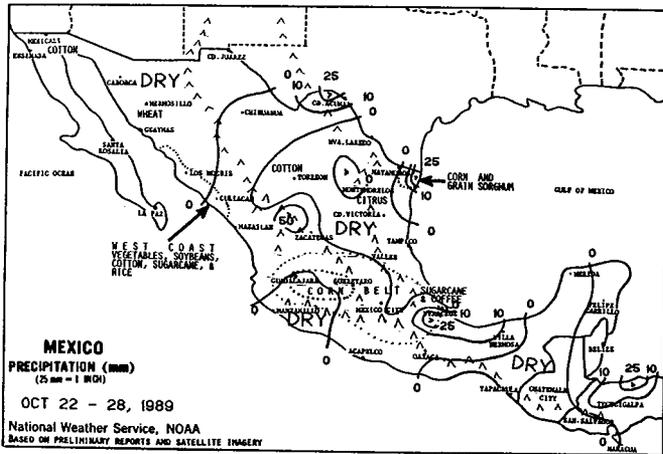


SOUTHEAST ASIA ... Minimal rain and seasonably warm weather covered most Thai rainfed grain regions, benefiting mature crops. Scattered, locally heavy showers (10-50mm or more) in north-central Thailand and in the areas surrounding Bangkok boosted irrigation reserves for secondary crops. In the Philippines, much needed drier weather covered Luzon's west coast, but moderate rain (25-50mm or more) in the east and south maintained unfavorably wet conditions. Elsewhere, moderate rain (25-50mm or more) covered all but the west-central islands. Further south, mostly moderate to heavy rain (25-50mm or more) continued over Malaysia and Indonesia, including portions of Java that had been chronically dry for much of the early rainy season. More widespread rain is needed across Java for main season rice planting, usually underway during November.



AUSTRALIA ... Moderate to heavy rain (15-50mm, with scattered amounts in excess of 50mm) fell over much of southeastern Queensland and eastern New South Wales, helping to ease dryness that has persisted in much of the region since early August. Very heavy rain (100-198mm) in southeastern Queensland may have caused localized flooding. The rain generally came too late to benefit filling to maturing winter grains and caused harvest delays in Queensland. It greatly improved conditions, however, for recently planted dryland summer crops. Elsewhere, light to moderate rain (10-20mm) benefited winter grains in crop areas of Western Australia and Victoria, while light rain (less than 10mm) covered southern South Australia. Below-normal temperatures slowed growth and development of winter grains in most southern crop areas.

SOUTH AMERICA ... Locally heavy rain (75-142mm) fell in northeastern Argentina, including extreme southern Chaco in the northern cotton growing region. Widespread showers fell over Argentina's primary crop areas, with 10-14mm in eastern and southern Cordoba, 20-29mm in southern Santa Fe, and 10-51mm in all but extreme southwestern Buenos Aires. The moisture was especially beneficial in Cordoba and Santa Fe, where recent dryness hampered wheat development and early corn planting. Topsoil moisture was limited in northwestern Buenos Aires as well, but favorable conditions prevailed throughout the remainder of Buenos Aires. In south-central Brazil, widespread rain (25-56mm) fell over most all crop areas. The moisture slowed wheat harvesting and early soybean planting. Moisture was adequate for early crop development throughout the region.



MEXICO ... Mostly dry weather prevailed throughout Mexico except for widely scattered showers. Rainfall amounts were also highly variable, mostly ranging from 1 to 9mm. Isolated heavier showers produced 56mm in eastern Zacatecas along the Sierra Madre Occidental range, 33mm in the interior of Veracruz, and about 25mm at Matamoros in the far northeast. Showers tapered off in southern Mexico, with dry weather covering much of the Yucatan peninsula except along the east coast where 5-9mm of rain fell.

EASTERN ASIA ... Moderate to heavy rain (15-60mm, with scattered amounts in excess of 60mm) continued in sections of the middle and upper Yangtze Valley, prolonging delays in late summer crop harvest. Very heavy rainfall (75-127mm) in southern sections of Hubei may have caused localized flooding. In contrast, warm and mostly dry weather favored late double crop rice harvest in Guangxi, Guangdong, Fujian, and Taiwan. Mostly dry weather also favored rice harvest in southern Japan, the Korean Peninsula, and much of the North China Plain, although soil moisture in sections of the Yellow River Valley remains short for establishment of winter grains. Above-normal mean temperatures covered nearly all growing areas.

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