

WEEKLY WEATHER AND CROP BULLETIN

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

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

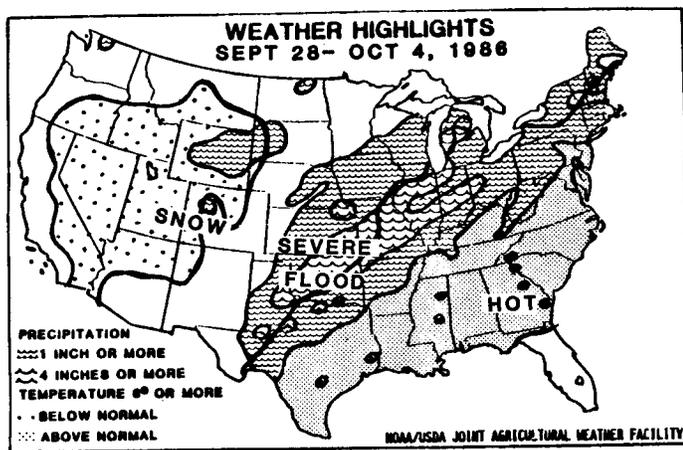
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Oct. 7, 1986

National Weather Summary

Sept. 28 - Oct. 4, 1986



HIGHLIGHTS: A storm system extending from the southern Plains to the Great Lakes and to the Northeast caused showers and thunderstorms. Record floods resulted from torrential rains in Texas, Oklahoma, Kansas, and Missouri. The eastern half of the Nation was warm, with record-high temperatures in the Southeast. Much of the West was unseasonably cool as snow fell in the Great Basin, Rockies, and high Plains.

SUNDAY...A line of severe thunderstorms developed from central Oklahoma and eastern Kansas to central lower Michigan. Heavy showers fell in Oklahoma and Kansas. Lighter showers fell through most of the Great Plains, the Northwest, and central Rockies. Cold air continued in the West and cooler air pushed into the northern Plains, but it was unusually warm in the rest of the Nation.

MONDAY...The line of severe weather remained near stationary from Oklahoma to northern New England. Abundant moisture fed into the line from the Pacific Ocean across Mexico and from the Gulf of Mexico, producing torrential rain in Oklahoma, Kansas, and Missouri. Moderate to heavy showers fell elsewhere along the line. It was much cooler in western parts of the Plains and through the Great Lakes, but hot weather remained from Texas to the mid-Atlantic States.

TUESDAY...Torrential rains continued in Oklahoma and Missouri, with heavy amounts along a line to New England. Cold weather continued in the West. Cool air remained to the north of the line of thunderstorms and warm air to the South.

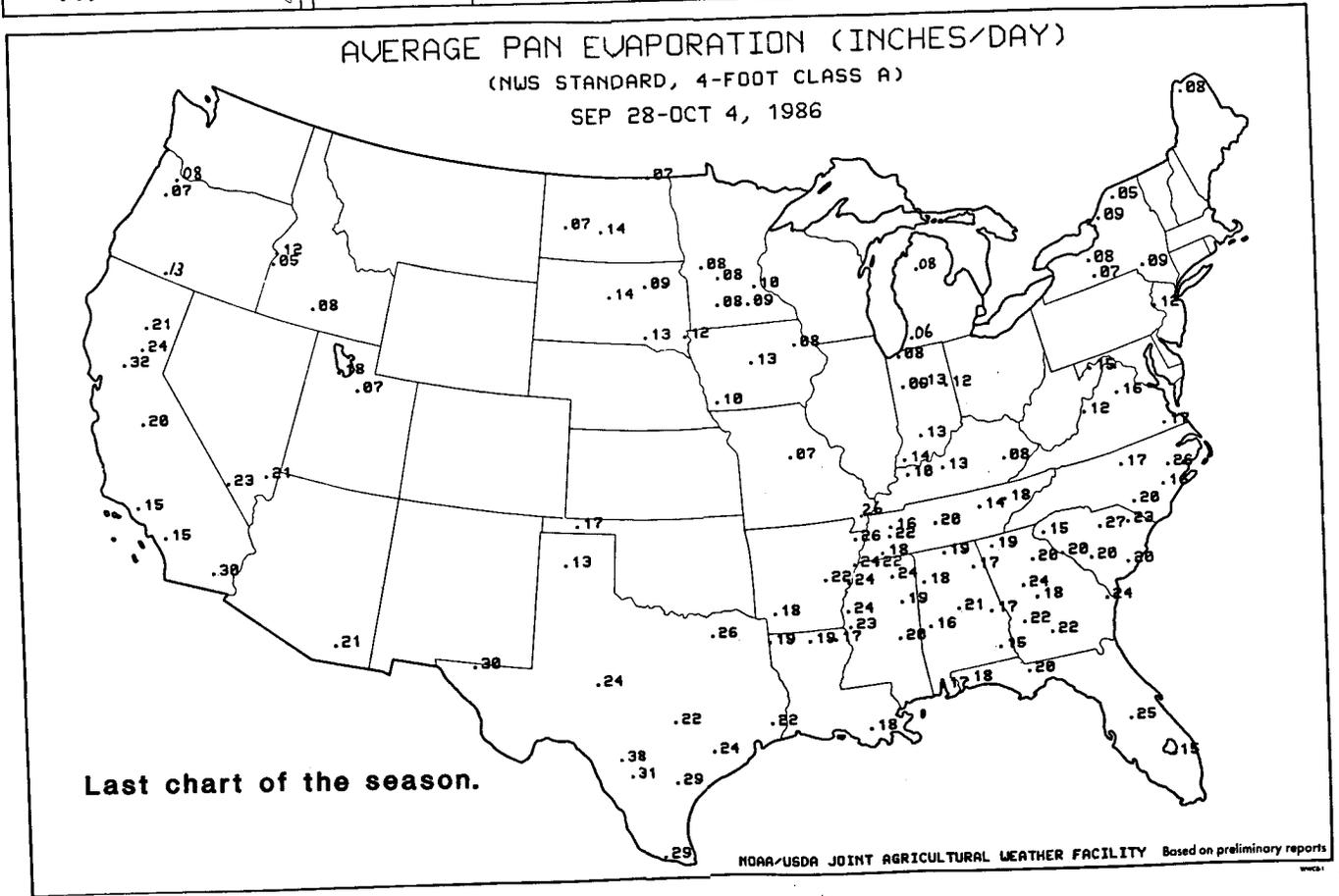
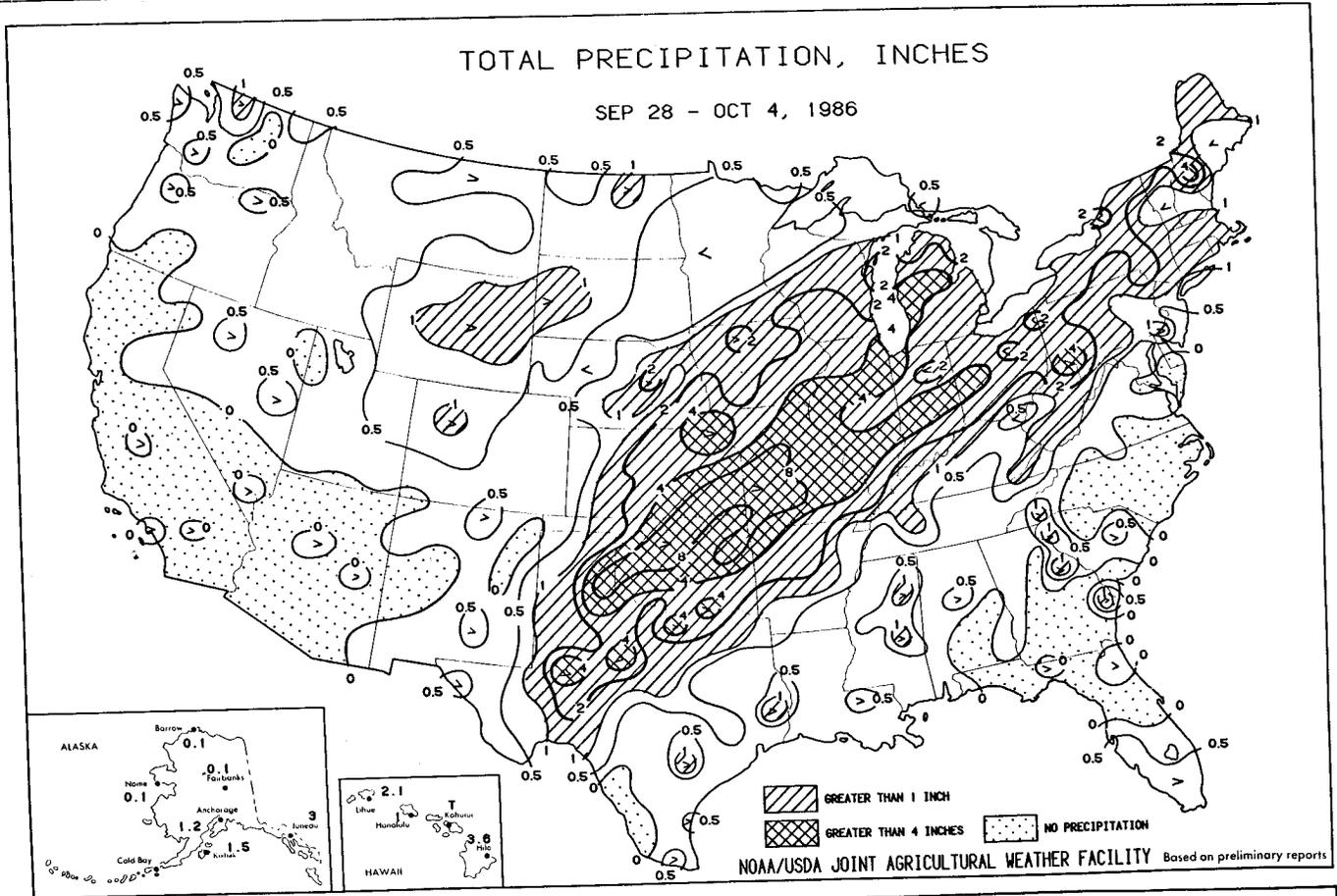
WEDNESDAY...The torrential rain moderated but more moisture from the Pacific brought moderate to heavy showers to parts of western Texas and southwestern Oklahoma. The line of thunderstorms eased southward a little and brought severe weather to northern Arkansas through the Ohio Valley. Lighter showers covered the Plains, the South, and much of the West.

THURSDAY...More torrential rain fueled by moisture from the remnants of Hurricane Paine fell in western Texas, central Oklahoma, southeastern Kansas, and central Missouri. High water from flooded rivers closed many roads in these States. Except for the Northwest, precipitation was widespread across the northern half of the Nation with snow in the Great Basin, Rockies, and the High Plains. Rain also fell in southern California and along the Gulf coast. The Southeast remained warm, with several stations reporting record-high October temperatures.

FRIDAY...Rainfall continued in the northern half of the central and eastern United States, increasing the widespread flooding from Oklahoma to Ohio and Michigan. Snowshowers lingered in the central Rockies. Skies were mostly clear west of the Rockies and in the Southeast which remained unseasonably warm.

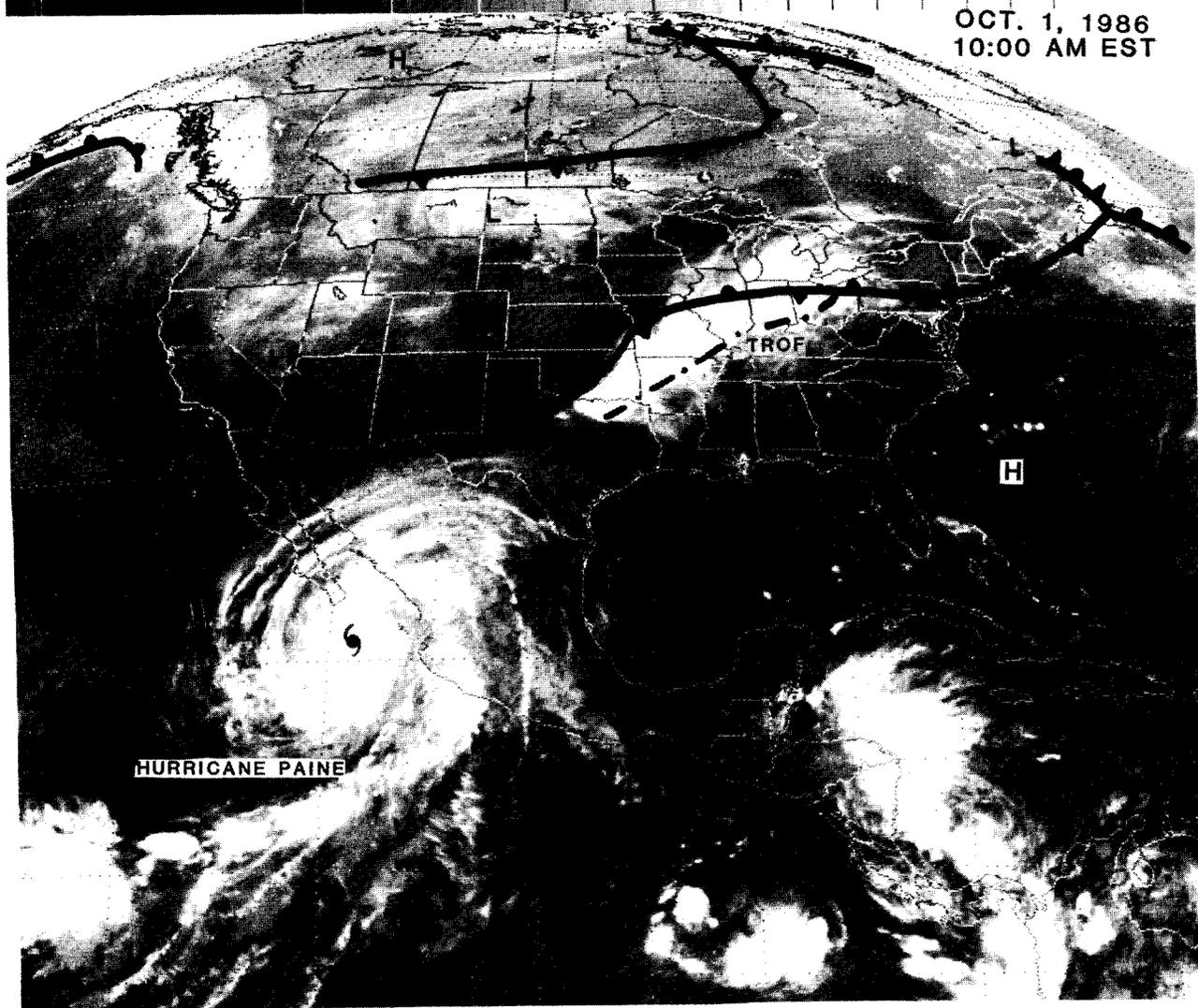
SATURDAY...Showers extended from Texas through the Ohio Valley to the Northeast. Rainfall was particularly heavy in parts of Texas. Colder and drier air moved into the central Plains, while summer-like weather continued in the Southeast.

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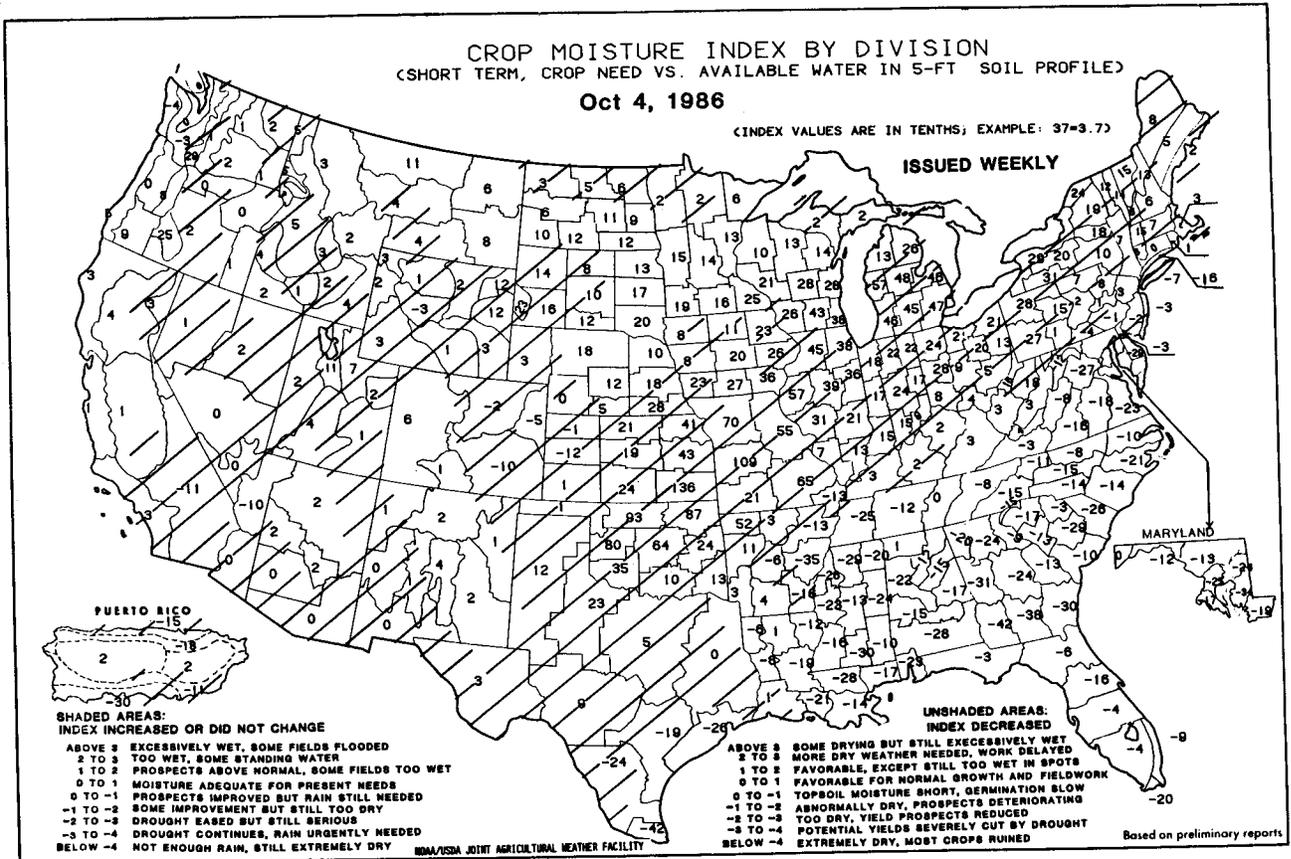
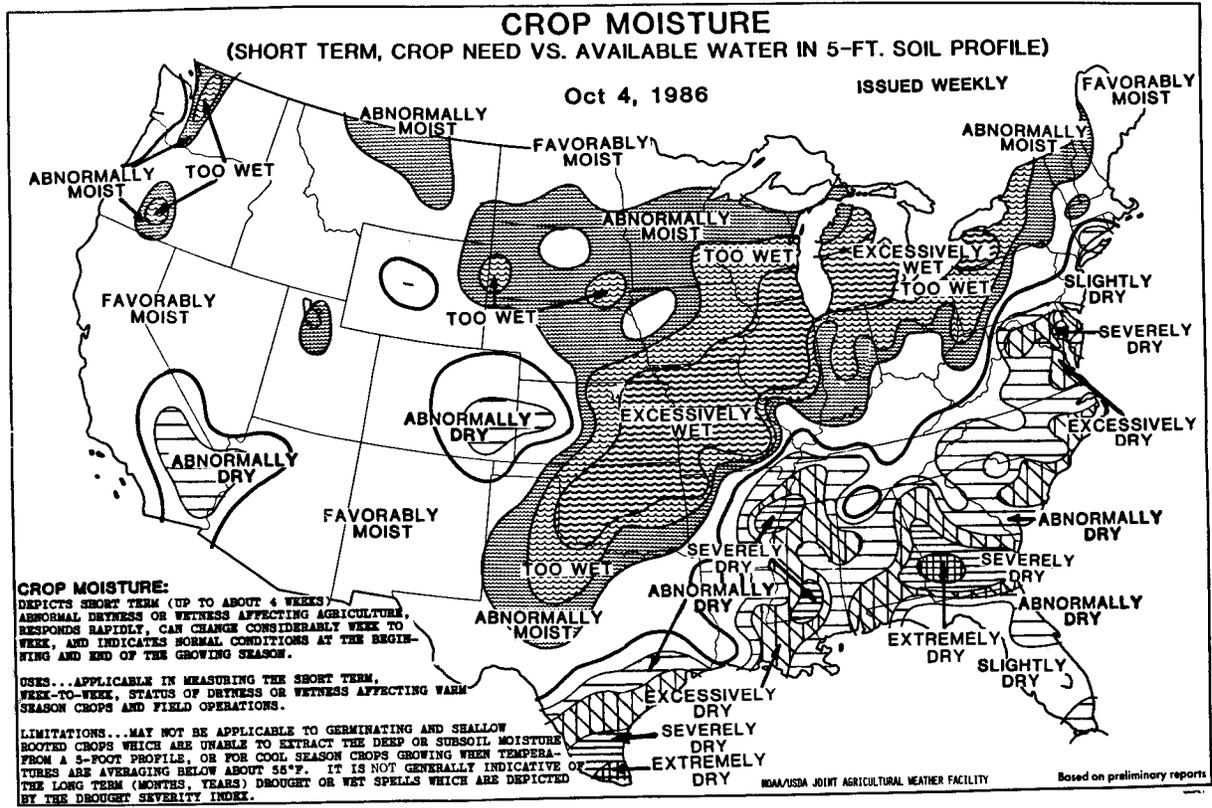


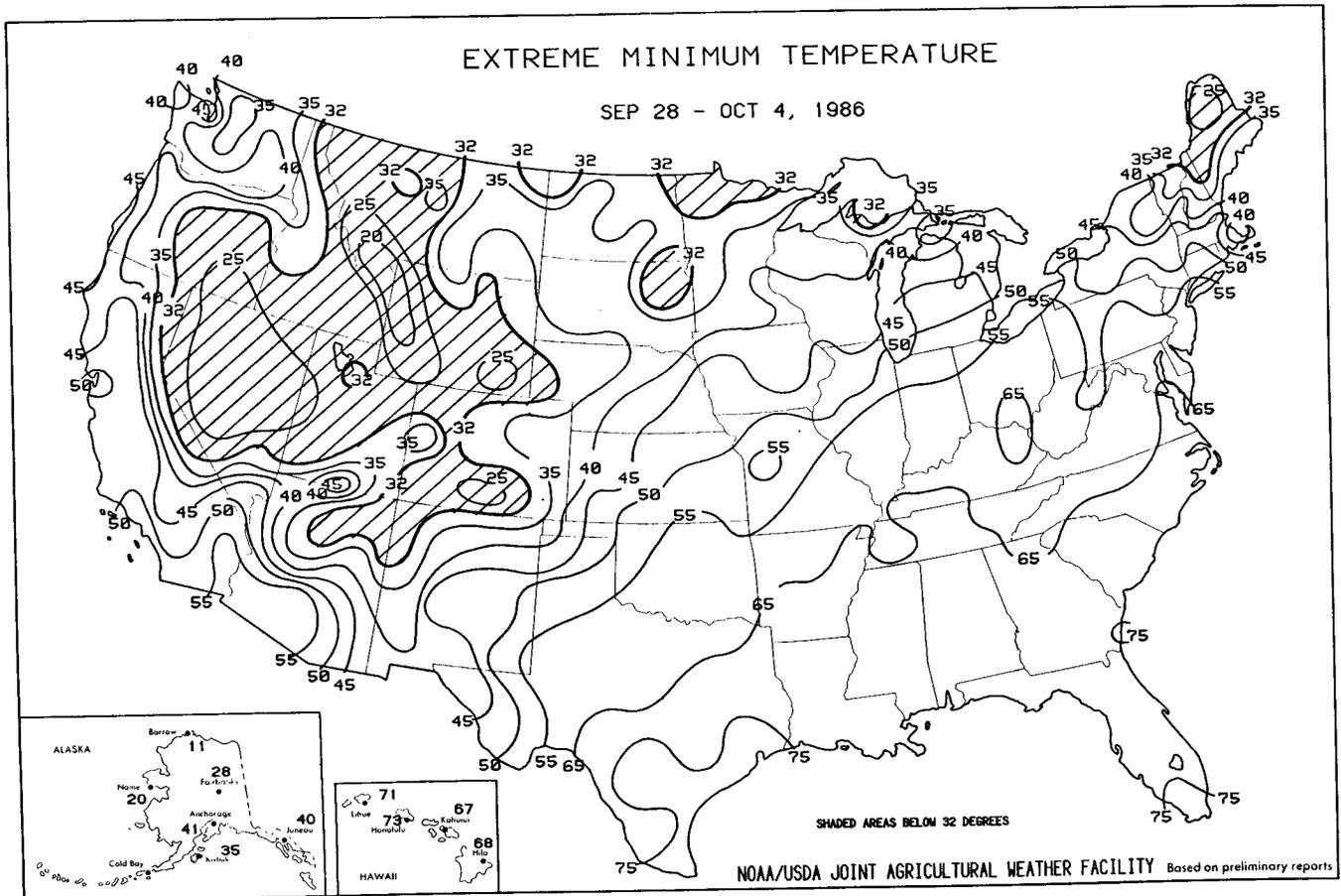
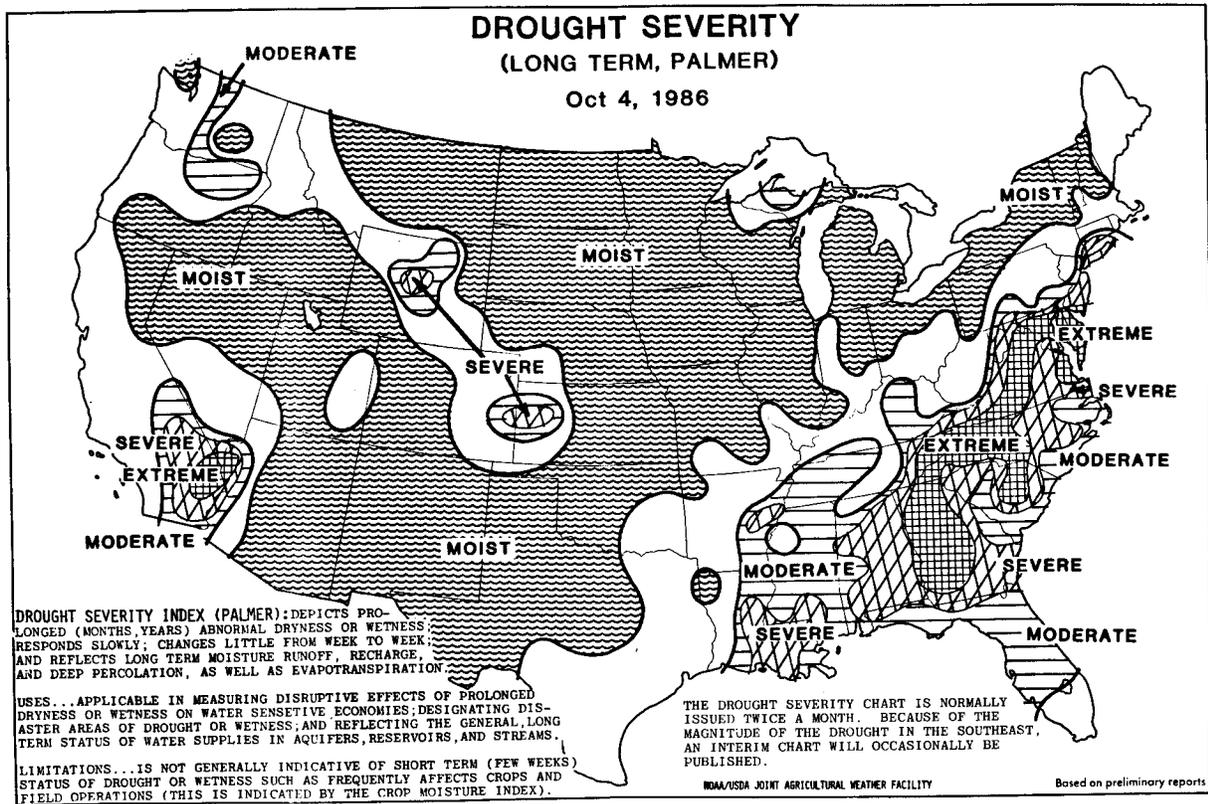
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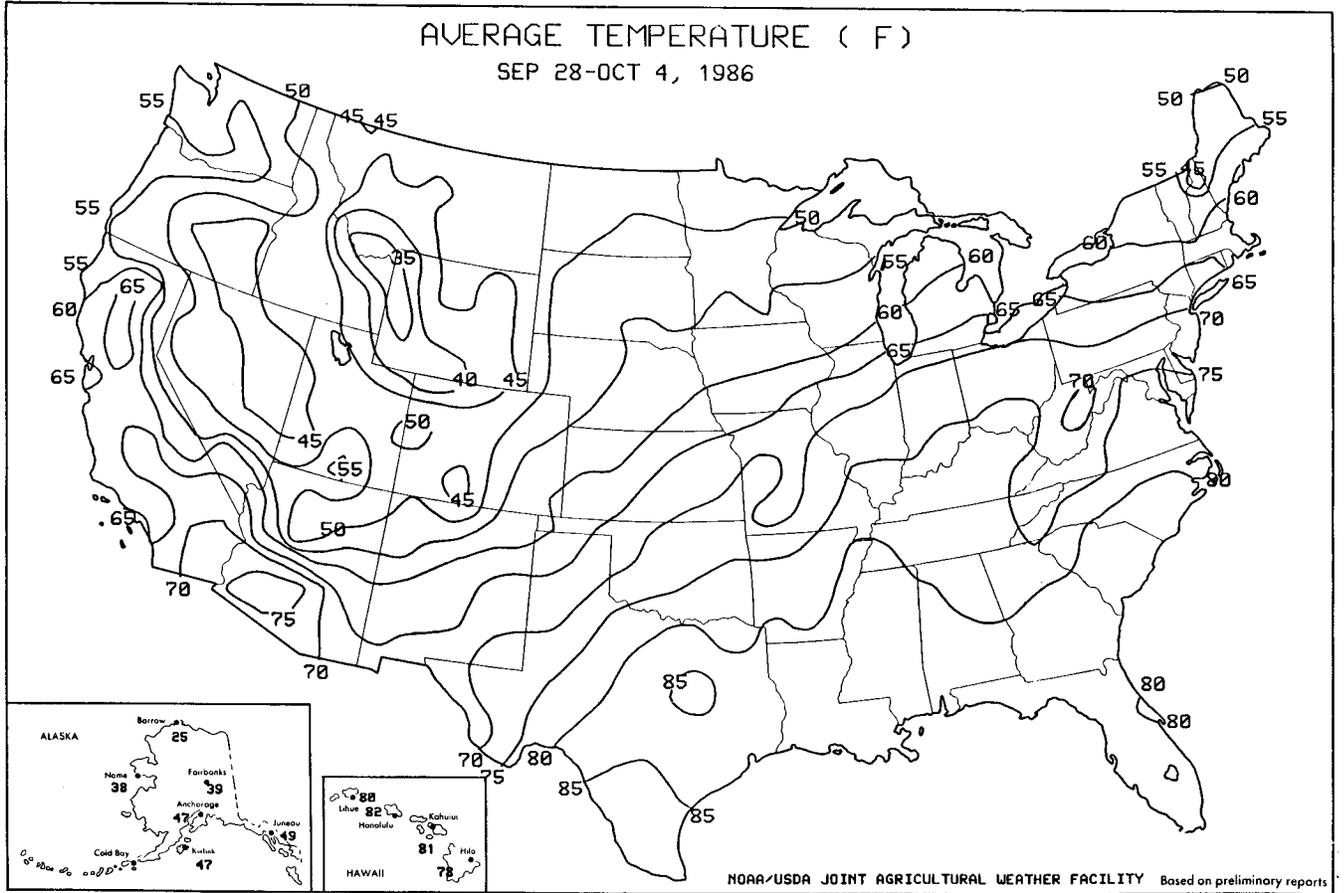
OCT. 1, 1986
10:00 AM EST



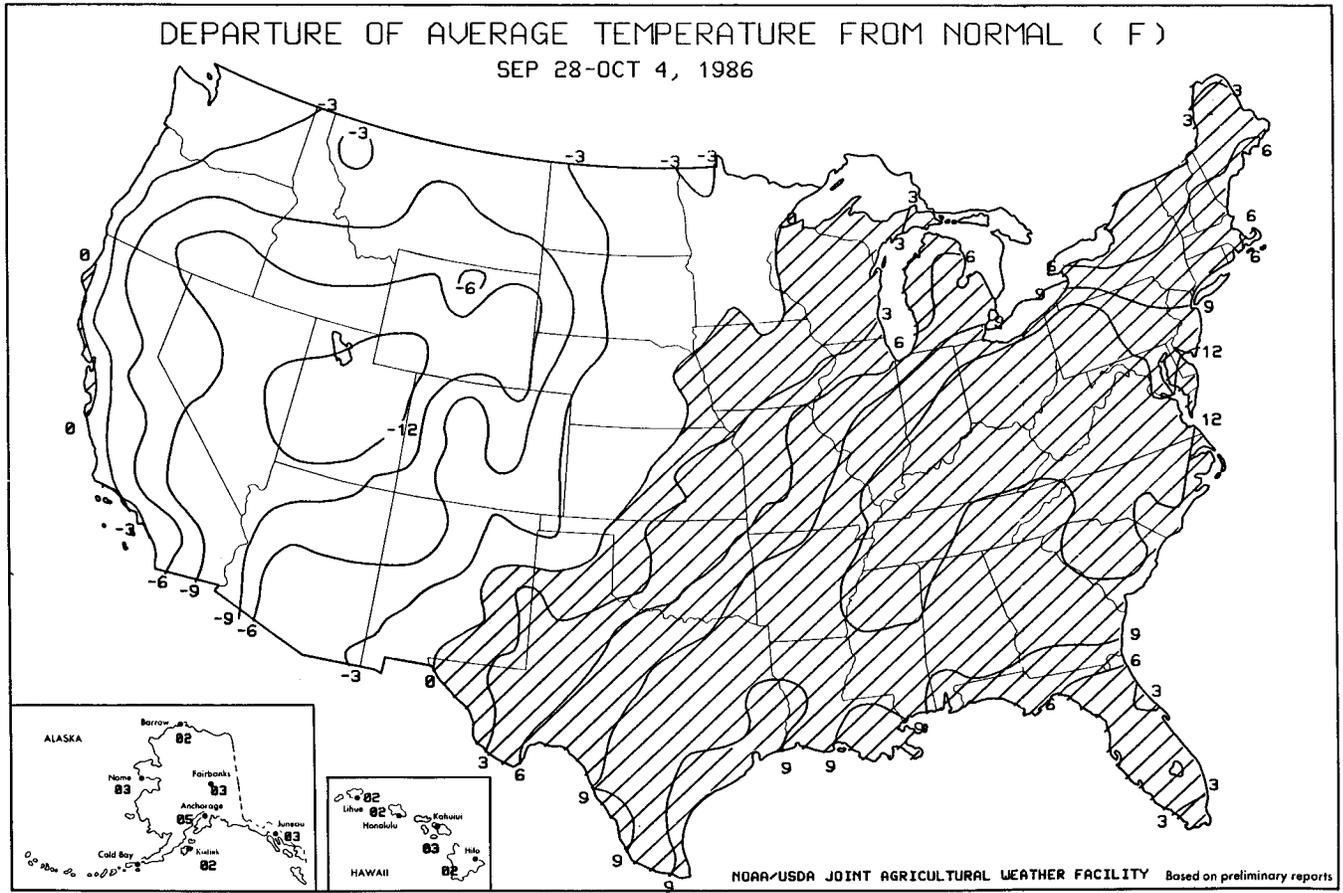
HURRICANE PAINE APPROACHES THE NORTHWESTERN COAST OF MEXICO. REMNANTS OF PAINE LATER ADDED MORE MOISTURE TO THE CENTRAL UNITED STATES, WHERE TORNADIAL RAINS FALL OVER SOUTHERN MISSOURI AND NORTHWESTERN ARKANSAS. RECORD FLOODING OCCURRED IN TEXAS, OKLAHOMA, KANSAS, AND MISSOURI.

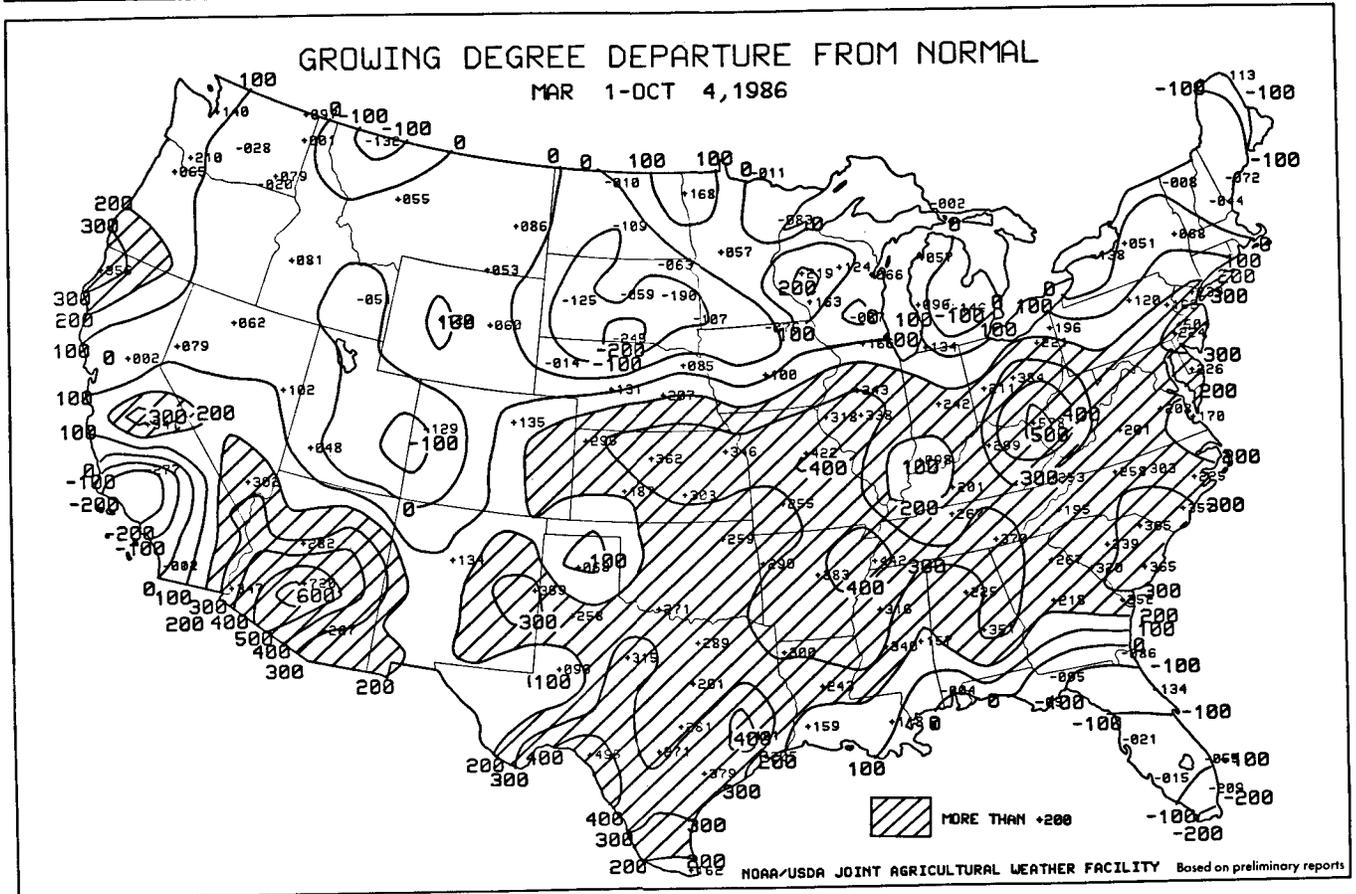
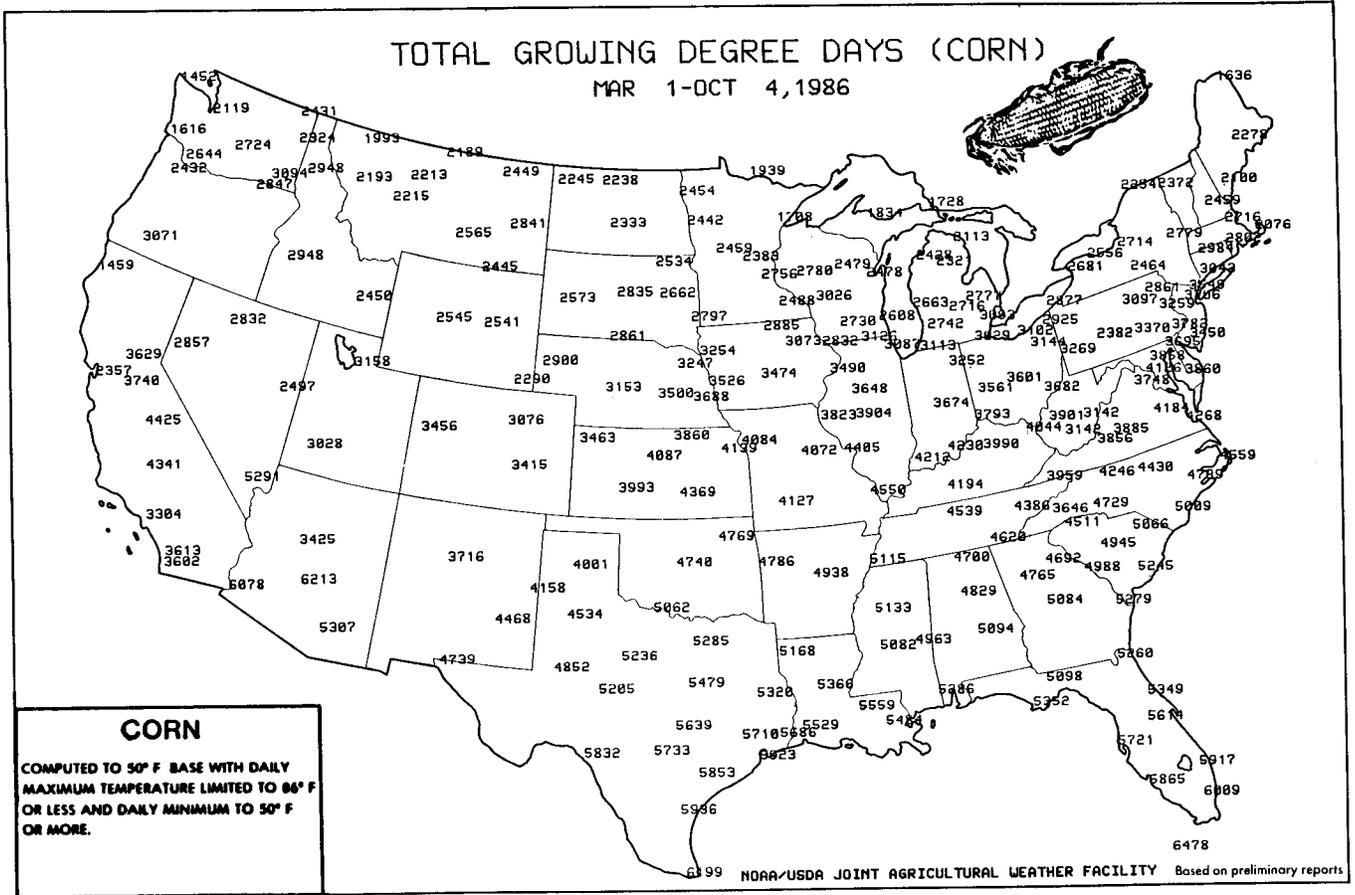






Point values may differ on these computerized maps from the reported values in the tables.





Weather Data for the Week Ending October 4, 1986

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 SEPT. 1	PCT. NORMAL SINCE SEPT. 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	90	70	94	66	80	11	.3	-.5	.3	4.4	91	26.0	59	95	48	4	6	0	1	0
MOBILE	91	72	92	70	82	8	.3	-1.0	.3	4.4	62	42.4	79	97	53	4	6	0	1	0
AK ANCHORAGE	93	68	96	67	81	9	0	-.8	0	5.0	97	35.7	90	100	50	7	7	0	0	0
BARROW	50	44	54	41	47	5	1.2	.7	0	3.8	138	13.1	114	94	69	0	0	0	6	1
FAIRBANKS	28	21	32	11	25	2	.1	-.1	0	1.6	237	3.6	95	92	76	0	0	7	3	0
JUNEAU	45	32	52	28	39	3	.1	-.1	0	.7	59	7.3	87	88	56	0	0	5	2	0
KODIAK	52	47	59	40	50	4	3.0	1.3	.8	5.0	67	39.3	108	98	84	0	0	0	7	3
NOME	53	42	56	35	47	2	1.5	-.7	.7	3.6	41	50.9	97	95	72	0	0	0	4	3
AZ PHOENIX	45	32	50	20	38	3	.1	-.3	.1	7.5	294	15.0	124	82	52	0	0	3	1	0
PRESCOTT	88	66	95	61	77	3	.1	-.1	.1	.5	65	5.8	112	47	17	1	0	0	0	0
TUCSON	69	40	72	34	55	-6	-.1	-.2	0	1.9	115	10.0	68	71	25	0	0	0	0	0
YUMA	86	57	91	54	71	-5	0	-.3	0	.3	21	9.6	109	58	18	1	0	0	0	0
AR FORT SMITH	87	62	93	57	74	-8	0	-.1	0	.4	128	1.5	79	50	21	2	2	0	0	0
LITTLE ROCK	88	69	92	59	78	10	2.4	1.7	1.3	4.2	116	32.3	105	93	55	4	4	0	3	2
CA BAKERSFIELD	88	71	93	65	79	10	2.2	1.7	1.7	3.1	72	30.6	87	90	60	2	0	0	3	1
EUREKA	78	52	84	49	65	-8	0	0	0	.1	43	4.3	105	69	28	0	0	0	0	0
FRESNO	63	49	68	45	56	0	0	0	0	2.8	252	30.1	126	93	69	0	0	0	0	0
FRESNO	79	51	85	49	65	-5	0	0	0	.4	190	10.1	138	81	28	0	0	0	0	0
LOS ANGELES	73	56	89	53	65	-3	.1	.1	.1	1.5	-	14.5	167	92	55	0	0	0	1	0
REDDING	79	52	89	46	66	-1	T	0	T	2.2	-	2.2	65	23	0	0	0	0	0	0
SACRAMENTO	80	50	87	45	65	-3	.1	0	.1	.7	213	17.0	152	78	22	0	0	0	1	0
SAN DIEGO	72	59	80	56	66	-4	0	0	0	1.0	520	8.7	134	87	52	0	0	0	0	0
SAN FRANCISCO	76	54	84	51	65	2	T	-.1	T	.5	174	19.1	149	82	37	0	0	0	0	0
CO DENVER	63	38	70	35	50	-7	.3	0	.2	.7	49	9.1	69	84	37	0	0	0	3	0
GRAND JUNCTION	59	43	68	37	51	-10	-.7	.5	.3	1.9	249	6.5	108	92	49	0	0	0	5	0
PUEBLO	69	38	82	30	54	-7	.1	-.1	.1	.5	51	8.9	95	91	29	0	1	1	3	0
CT BRIDGEPORT	74	63	83	54	68	7	1.3	.5	1.1	2.1	57	23.4	75	90	61	0	0	0	2	1
HARTFORD	74	57	91	51	65	8	1.4	.5	.9	2.1	47	31.8	96	96	60	1	0	0	6	1
DC WASHINGTON	85	69	91	63	77	12	.1	-.7	0	.6	17	20.4	67	91	55	2	2	0	2	0
FL APALACHICOLA	90	74	93	72	82	7	T	0	T	9.4	100	42.7	92	96	64	3	0	0	0	0
DAYTONA BEACH	90	69	92	66	79	7	0	0	0	3.6	48	36.2	91	100	57	3	0	0	0	0
JACKSONVILLE	92	71	94	68	81	7	T	0	T	2.0	25	34.9	77	98	51	6	0	0	0	0
KEY WEST	88	80	89	79	84	3	.2	-.1	.2	4.8	66	26.4	87	81	65	0	0	0	4	0
MIAMI	89	76	91	74	83	3	.8	-.1	.5	4.7	51	55.4	118	88	57	4	0	0	2	1
ORLANDO	93	73	94	71	83	4	0	-1.0	0	4.5	73	38.9	93	99	47	7	0	0	0	0
TALLAHASSEE	93	69	94	66	81	7	.5	-.6	.2	4.5	65	53.7	99	99	47	7	0	0	3	0
TAMPA	92	74	93	72	83	5	.4	-.6	.4	4.2	63	32.2	79	95	50	7	0	0	2	0
WEST PALM BEACH	89	77	89	74	83	3	.5	-1.7	.4	4.5	43	44.6	94	89	59	0	0	0	2	0
GA ATLANTA	88	69	93	69	79	11	.1	-.6	.1	3.7	106	26.2	68	94	52	1	0	1	1	0
AUGUSTA	93	68	97	67	81	11	.2	-.4	.2	.7	19	33.8	94	100	44	7	0	0	1	0
MACON	93	69	96	67	81	10	0	-.6	0	5.4	149	25.8	70	97	44	7	0	0	0	0
SAVANNAH	95	72	98	69	83	11	.2	-.7	.2	.5	9	34.3	79	97	45	7	0	0	1	0
HI HILO	85	71	87	68	78	2	3.6	1.9	1.2	15.9	209	18.5	130	95	67	0	0	0	5	3
HONOLULU	89	75	92	73	82	2	1.0	.8	.6	2.2	281	7.4	49	91	59	4	0	0	4	1
KAHULUI	90	71	92	67	81	3	T	0	T	.8	8	10.7	78	89	53	4	0	0	1	0
LIHUE	85	74	88	71	80	2	2.1	1.3	1.1	2.9	107	17.6	61	95	69	0	0	1	5	2
ID BOISE	61	37	67	32	49	-9	-.2	.1	-.1	2.9	439	12.9	154	97	43	0	0	1	2	0
LEWISTON	63	45	73	39	54	-4	.1	-.1	.1	.9	116	8.5	91	85	49	0	0	1	1	0
POCATELLO	54	33	62	30	44	-10	.5	.3	.5	1.3	175	11.0	134	95	47	0	0	3	1	0
IL CHICAGO	70	59	82	50	64	5	4.3	3.6	1.8	9.7	263	28.1	103	97	77	0	0	0	7	3
MOLINE	71	58	86	46	64	5	3.1	2.3	1.1	7.2	172	35.0	113	100	81	0	0	0	7	3
PEORIA	75	61	89	50	68	8	4.3	3.6	2.0	9.1	225	31.6	110	100	76	0	0	0	6	3
QUINCY	76	63	89	50	69	8	4.7	3.8	2.2	13.1	278	35.8	115	98	74	0	0	0	6	3
ROCKFORD	68	55	82	44	61	3	2.6	1.8	1.2	10.5	253	30.7	102	98	82	0	0	0	7	2
SPRINGFIELD	78	65	90	55	71	9	2.0	1.4	.7	10.0	292	30.1	109	99	72	1	0	0	6	1
IN EVANSVILLE	85	66	92	60	76	12	1.2	.7	.5	4.9	162	31.0	95	97	60	2	0	0	4	1
FORT WAYNE	78	64	88	54	71	12	2.2	1.6	1.0	6.5	228	37.8	139	100	70	0	0	0	5	2
INDIANAPOLIS	81	65	88	57	73	12	6.3	5.8	2.7	11.7	381	40.4	131	98	64	0	0	0	5	3
SOUTH BEND	73	60	84	52	67	8	3.8	3.1	2.3	7.1	195	31.3	106	97	78	0	0	0	6	2
IA DES MOINES	68	54	85	44	61	1	1.8	1.2	.8	6.8	200	37.1	141	98	70	0	0	0	6	1
SIOUX CITY	68	49	84	45	59	-1	1.0	.5	.5	5.9	210	29.2	131	93	57	0	0	0	4	1
WATERLOO	67	49	78	41	58	1	1.5	.8	.5	5.6	146	31.6	112	99	67	0	0	0	6	1
KS CONCORDIA	69	54	89	48	62	-1	3.7	3.1	1.8	7.0	211	35.2	148	98	73	0	0	0	4	2
DODGE CITY	70	55	88	45	62	-2	-.7	.4	.6	1.3	61	17.8	97	99	68	0	0	0	3	1
GOODLAND	69	46	77	38	57	-2	.1	-.2	.1	1.4	86	13.2	90	92	43	0	0	0	3	0
TOPEKA	72	61	89	49	67	4	3.1	2.3	1.3	7.6	195	33.3	119	99	76	0	0	0	5	2
WICHITA	73	62	90	52	67	2	5.1	4.4	2.3	6.5	169	28.5	118	99	75	1	0	0	3	3
KY BOWLING GREEN	88	68	93	65	78	14	.5	-.2	.4	5.0	140	24.0	63	96	56	3	0	0	3	0
LEXINGTON	84	69	88	64	76	13	.7	.1	.5	3.8	105	23.6	64	92	60	0	0	0	2	1
LOUISVILLE	86	69	91	63	78	14	1.8	1.1	.5	4.5	121	28.9	84	95	58	0	0	0	2	0
LA ALEXANDRIA	90	74	92	73	82	9	.3	-.5	.2	2.9	92	29.2	70	96	57	6	0	0	2	0
BATON ROUGE	92	73	93	71	82	9	.6	-.2	.6	1.9	40	36.3	81	97	53	7	0	0	3	1
LAKE CHARLES	91	75	92	73	83	9	T	-1.0	T	6.3	109	35.5	86	97	59	7	0	0	1	0
NEW ORLEANS	91	74	92	72	83	8	.2	-.8	.1	1.4	22	32.0	66	97	57	7	0	0	3	0

Based on 1951-80 normals.

Weather Data for the Week Ending October 4, 1986

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 SEPT. 1	PCT. NORMAL SINCE SEPT. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	PRECIPITATION	
																		.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	92	72	93	70	82	10	.2	-.5	.1	3.6	99	37.8	112	99	49	7	0	2	0
ME CARIBOU	61	41	67	32	51	3	1.1	-.3	.6	3.7	95	27.5	100	97	57	0	1	4	1
PORTLAND	69	48	85	35	59	5	.9	-.2	.5	3.6	96	32.2	104	98	60	0	1	5	0
MD BALTIMORE	83	67	92	61	75	12	1.7	-.7	.6	16	20.3	62	97	59	1	0	1	0	0
SALISBURY	84	66	90	58	75	12	0	-.8	0	1.6	36	21.7	61	95	55	1	1	0	0
MA BOSTON	74	57	87	47	66	6	1.4	-.6	.9	2.4	64	30.0	93	89	57	0	0	3	1
CHATHAM	69	56	79	43	62	4	1.1	-.6	.5	2.4	56	35.6	104	95	77	0	0	3	0
MI ALPENA	66	48	81	40	57	5	1.9	1.4	1.3	8.8	273	27.9	122	99	70	0	0	4	1
DETROIT	73	59	87	51	66	8	2.4	1.9	1.2	9.1	365	31.9	132	98	74	0	0	5	1
FLINT	70	57	82	48	64	4	3.0	2.5	1.0	12.0	456	34.2	148	98	77	0	0	7	2
GRAND RAPIDS	68	56	81	48	62	5	3.2	2.5	1.0	13.8	390	44.8	170	97	81	0	0	7	4
HOUGHTON LAKE	66	52	79	44	59	7	2.2	1.6	1.2	10.4	335	31.6	144	96	73	0	0	5	2
LANSING	69	57	81	48	63	6	3.5	3.0	1.1	9.9	351	34.0	147	98	82	0	0	6	3
MARQUETTE	62	40	72	29	51	2	.6	-.2	.3	3.1	70	24.5	84	97	59	0	1	4	0
MUSKEGON	67	54	77	46	60	4	4.6	4.0	2.1	15.0	456	32.2	136	98	74	0	0	6	3
SAULT STE. MARIE	62	44	72	36	53	3	.5	-.3	.3	5.6	129	30.1	119	96	66	0	0	3	0
MN ALEXANDRIA	61	45	67	34	53	0	-.2	-.3	-.1	4.4	173	32.2	154	95	54	0	0	2	0
DURBETH	59	41	67	37	50	0	-.1	-.5	-.1	6.4	176	33.3	134	97	58	0	0	3	0
INT'L FALLS	56	39	62	28	47	-1	-.4	-.2	.3	2.8	81	16.4	79	97	59	0	3	3	0
MINNEAPOLIS	64	46	70	43	55	0	.2	-.3	.2	7.1	256	34.1	151	97	58	0	0	3	0
ROCHESTER	63	44	73	40	54	-1	1.4	-.8	.7	11.7	345	36.5	150	98	65	0	0	3	1
MS GREENWOOD	93	73	95	71	83	13	.2	-.5	.2	2.1	57	22.2	55	93	43	7	0	1	0
JACKSON	94	70	96	68	82	11	.1	-.5	.1	2.7	70	30.8	75	100	46	7	0	2	0
MEKIDIAN	92	70	95	67	81	11	.3	-.5	.3	2.8	70	30.4	72	98	50	6	0	1	0
MO CAPE GIRARDEAU	87	69	92	64	78	—	2.4	1.7	2.0	3.3	80	33.4	95	92	58	2	0	4	1
COLUMBIA	76	64	88	52	70	7	5.7	4.9	2.4	12.0	291	33.6	115	97	79	0	0	6	4
KANSAS CITY	72	61	89	50	67	4	3.8	2.9	1.9	11.8	254	35.1	119	99	81	0	0	4	3
SAINT LOUIS	79	66	90	58	73	8	7.2	6.6	2.7	11.7	386	30.6	113	95	69	1	0	5	4
SPRINGFIELD	77	64	87	54	70	6	9.6	8.7	3.8	14.6	307	34.9	112	99	74	0	0	5	3
MT BILLINGS	57	40	65	37	48	-6	.5	-.3	.2	1.5	106	12.9	104	82	43	0	0	5	0
GLASGOW	58	41	63	35	49	-3	.6	.5	.6	4.5	459	12.5	120	92	54	0	0	2	1
GREAT FALLS	55	39	67	33	47	-6	.6	-.4	-.3	2.1	183	12.9	99	84	51	0	0	3	0
HAVRE	54	40	62	31	47	-5	.1	-.1	0	5.8	581	16.4	169	73	48	0	1	2	0
HELENA	54	38	62	27	46	-5	-.1	-.1	0	2.5	262	11.1	114	88	49	0	1	2	0
KALISPELL	53	40	60	30	47	-2	.1	-.1	.1	3.8	227	14.6	120	97	62	0	1	4	0
MILES CITY	57	41	66	35	49	-6	.2	-.1	.1	2.8	295	15.0	124	92	55	0	0	2	0
MISSOULA	53	39	60	27	46	-4	.3	.1	.2	3.5	309	14.5	138	96	59	0	1	3	0
NE GRAND ISLAND	68	48	84	44	58	-1	.9	.5	.5	4.1	149	21.5	102	95	54	0	0	3	0
LINCOLN	69	52	86	48	60	0	2.3	1.8	.7	6.3	197	32.7	137	96	69	0	0	5	3
NORFOLK	68	47	88	42	58	0	.7	.3	.5	4.3	184	28.0	131	93	53	0	0	3	1
NORTH PLATTE	66	44	75	39	55	-2	1.0	.7	.7	2.0	109	15.9	90	92	47	0	0	3	1
OMAHA	67	52	84	46	60	0	2.0	1.4	.7	7.7	207	31.8	121	98	69	0	0	6	2
SCOTTSBLUFF	59	39	66	31	49	-7	.4	.2	.3	2.1	178	19.4	150	95	45	0	1	3	0
VALENTINE	65	41	74	33	53	-3	.1	-.1	.1	2.8	181	18.2	116	80	42	0	0	1	0
NV ELY	52	28	60	21	40	-12	.7	.5	.5	2.1	268	7.7	107	93	50	0	6	3	1
LAS VEGAS	75	53	82	48	64	-10	T	0	T	.1	22	1.3	41	50	21	0	0	1	0
RENO	63	34	69	28	48	-7	.1	0	.1	.3	100	8.8	163	88	29	0	4	1	0
WINNEMUCCA	60	30	68	24	45	-9	.7	.6	.7	1.5	374	5.2	91	92	33	0	4	1	1
NH CONCORD	71	50	86	36	61	7	.8	.1	.4	3.1	87	30.5	114	97	58	0	0	5	0
NJ ATLANTIC CITY	80	64	88	58	72	11	.3	-.3	.2	2.7	84	27.3	86	95	63	0	0	4	0
NM ALBUQUERQUE	72	47	80	41	59	-4	T	-.2	T	.5	53	9.8	151	73	22	0	0	0	0
CLOVIS	80	57	87	52	68	4	.9	.4	.7	2.5	117	14.4	99	76	32	0	0	3	1
ROSWELL	82	54	88	47	68	0	.2	-.2	.1	4.1	214	15.9	192	83	26	0	0	2	0
NY ALBANY	70	55	81	46	62	6	1.1	.4	.6	3.4	93	34.1	125	99	77	0	0	7	1
BINGHAMTON	69	57	83	50	63	9	1.4	.7	1.0	4.5	120	35.0	124	93	76	0	0	6	1
BUFFALO	71	56	78	50	64	7	3.8	3.2	1.7	6.0	159	30.3	109	99	73	0	0	4	3
NEW YORK	77	65	88	60	71	8	.7	0	.7	2.6	66	26.7	82	90	61	0	0	2	1
ROCHESTER	69	55	77	49	62	5	2.9	2.4	1.5	5.9	196	28.0	118	99	76	0	0	5	3
SYRACUSE	69	54	78	48	62	5	2.8	2.1	1.5	6.5	177	33.5	113	98	74	0	0	6	2
NC ASHEVILLE	84	60	86	56	72	10	T	-.8	T	3.2	72	20.9	55	100	54	0	0	2	0
CHARLOTTE	90	70	93	68	80	13	0	-.7	0	.9	21	16.8	49	92	47	5	0	0	0
GREENSBORO	88	66	92	63	77	13	0	-.8	0	1.0	25	19.4	57	100	53	4	0	0	0
HATTERAS	86	71	89	68	79	9	0	-1.2	0	.1	1	35.8	85	98	61	0	0	0	0
NEW BERN	90	70	94	65	80	11	T	-1.1	T	1.0	15	35.9	83	99	52	4	0	0	0
RALEIGH	89	67	93	64	78	12	T	-.6	T	1.0	26	29.8	89	97	50	4	0	0	0
WILMINGTON	91	71	95	67	81	11	T	-1.0	T	.7	11	45.4	102	96	51	5	0	0	0
ND BISMARCK	58	41	68	33	50	-3	.6	.4	.4	4.7	306	22.0	161	96	59	0	0	3	0
FARGO	60	40	69	33	50	-3	.2	-.2	.2	3.7	179	21.8	127	97	62	0	0	2	0
GRAND FORKS	59	40	63	31	50	-2	.5	.1	.2	2.6	116	13.9	87	96	63	0	2	4	0
WILLISTON	57	38	64	30	47	-4	.5	.2	.4	3.6	239	20.2	166	97	61	0	1	2	0
OH AKRON-CANTON	78	64	85	58	71	12	2.1	1.5	1.0	5.3	161	23.8	83	99	77	0	0	4	1
CINCINNATI	83	66	88	60	75	13	2.1	1.5	1.4	5.6	172	26.2	82	93	60	0	0	4	2
CLEVELAND	78	64	88	58	71	12	3.0	2.5	1.4	8.1	250	33.7	121	96	60	0	0	4	2
COLUMBUS	82	66	89	61	74	14	3.3	2.8	1.7	6.7	221	28.3	94	97	60	0	0	4	3

Based on 1951-80 normals.

Weather Data for the Week Ending October 4, 1986

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 SEPT. 1	PCT. NORMAL SINCE SEPT. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	81	66	87	59	73	12	5.5	5.1	3.2	8.2	308	35.8	129	92	64	0	0	4	4
TOLEDO	76	61	88	53	69	11	3.4	2.9	2.5	7.8	278	33.5	133	99	74	0	0	5	2
YOUNGSTOWN	76	62	86	57	69	12	1.9	1.3	1.3	7.6	221	38.5	131	100	75	0	0	3	2
OK OKLAHOMA CITY	80	66	86	56	73	5	9.7	8.9	3.9	14.8	385	36.6	141	99	73	0	0	6	4
TULSA	78	66	87	57	72	4	4.3	3.3	3.0	11.6	237	36.6	116	96	74	0	0	6	2
OR ASTORIA	62	49	67	40	55	-1	.2	.8	.1	3.6	98	39.3	92	96	71	0	0	0	0
BURNS	58	31	72	28	44	-10	T	T	T	1.8	259	9.4	177	--	--	0	5	3	0
MEDFORD	68	40	76	35	54	-6	T	T	T	2.3	254	12.5	105	96	38	0	0	0	0
PENDLETON	62	46	71	41	54	-5	.5	.4	.3	1.4	218	8.9	109	85	49	0	0	3	0
PORTLAND	65	49	71	44	57	-2	.4	.1	.3	4.3	226	22.5	98	95	56	0	0	2	0
SALEM	64	45	68	37	55	-3	.6	.1	.5	3.1	163	25.6	104	96	58	0	0	2	0
PA ALLENTOWN	78	61	87	55	69	10	.7	.1	.5	3.8	84	31.3	92	96	66	0	0	4	1
ERIE	75	62	87	58	68	11	2.5	1.7	1.3	10.0	231	37.2	126	95	74	0	0	6	0
HARRISBURG	78	64	90	59	71	10	1.2	.4	.6	2.8	70	32.0	106	98	64	1	0	3	0
PHILADELPHIA	80	65	87	59	73	10	.5	-.2	-.4	2.8	74	26.5	82	96	62	0	0	4	1
PITTSBURGH	80	64	87	61	72	13	2.3	1.7	.9	4.3	138	29.1	100	91	59	0	0	4	2
SCRANTON	73	58	84	53	66	8	1.6	1.0	1.2	4.5	119	37.0	137	96	70	0	0	5	1
RI PROVIDENCE	74	57	85	40	65	7	1.1	.3	.4	2.0	49	30.7	92	95	60	0	0	4	0
SC CHARLESTON	92	73	94	71	83	12	0	-.8	.1	4.6	85	36.1	82	98	51	6	0	1	0
COLUMBIA	94	68	96	66	81	12	0	-.7	0	.6	12	19.5	48	95	40	7	0	0	0
FLORENCE	94	70	96	68	82	13	T	T	T	.5	11	19.9	54	97	41	7	0	0	0
GREENVILLE	89	66	92	65	78	11	T	-.9	T	2.6	53	23.7	59	96	49	4	0	0	0
SD ABERDEEN	63	41	69	29	52	-2	.1	-.2	.1	2.9	175	24.9	157	98	52	0	1	3	0
HURON	65	43	73	31	54	-1	.3	0	.1	4.3	282	26.8	165	96	53	0	1	4	0
RAPID CITY	59	36	66	31	48	-8	1.5	1.3	1.0	4.6	396	19.9	136	91	47	0	1	4	1
SIoux FALLS	64	44	71	37	54	-2	.3	-.2	.3	9.6	312	28.7	135	96	58	0	0	3	0
TN CHATTANOOGA	89	68	92	67	78	12	.1	-.8	0	5.9	123	23.3	57	100	54	2	0	2	0
KNOXVILLE	88	66	92	63	77	11	.3	-.4	.2	3.7	109	20.9	57	97	52	2	0	2	0
MEMPHIS	93	73	97	69	83	14	.4	-.2	.3	1.6	41	22.8	56	92	49	7	0	2	0
NASHVILLE	89	70	94	68	80	13	.2	-.5	.2	2.4	58	18.8	49	93	52	2	0	2	0
TX ARLIENE	85	71	88	58	78	7	4.5	3.8	2.1	5.8	170	23.3	122	90	56	0	0	3	2
AMARILLO	74	56	82	49	65	0	.9	.5	.5	1.9	101	21.3	127	98	59	0	0	2	0
AUSTIN	92	76	93	73	84	9	.2	-.7	.1	4.9	120	19.6	81	93	53	7	0	3	0
BEAUMONT	90	78	92	75	84	9	.2	-.9	.2	3.4	51	38.3	94	91	61	7	0	2	0
BROWNSVILLE	93	80	94	77	87	8	.1	-1.1	0	1.7	29	13.0	65	86	54	7	0	2	0
CORPUS CHRISTI	92	78	93	75	85	7	.1	-1.1	.1	1.9	27	18.8	76	88	55	7	0	1	0
DEL RIO	90	76	92	69	83	7	.8	.1	.8	4.5	144	17.7	126	78	48	5	0	1	1
EL PASO	84	55	87	45	69	0	.1	-.2	.1	.9	60	9.2	142	77	24	0	0	2	0
FORT WORTH	90	75	93	69	82	9	1.2	.5	.7	5.3	143	25.6	107	88	52	6	0	4	1
GALVESTON	89	82	91	80	85	9	.1	-.9	0	3.0	47	18.4	59	81	63	1	0	2	0
HOUSTON	92	77	93	76	84	10	.3	-.8	.2	3.8	68	25.8	75	88	50	6	0	3	0
LUBBOCK	78	62	84	55	70	3	1.9	1.4	1.6	8.6	368	22.4	147	100	72	0	0	5	1
MIDLAND	82	66	86	57	74	4	4.6	4.1	2.9	11.1	480	24.0	209	95	56	0	0	4	2
SAN ANGELO	87	72	89	64	79	7	1.5	.8	1.0	9.0	264	24.2	162	88	53	0	0	4	1
SAN ANTONIO	93	77	94	76	85	10	.4	-.4	.2	3.0	71	27.4	119	89	46	7	0	3	0
VICTORIA	91	77	93	75	84	7	.1	-1.1	.1	3.6	52	25.4	85	93	56	7	0	2	0
WACO	95	76	96	68	85	11	.1	-.7	.1	3.9	108	23.6	98	89	45	7	0	1	0
WICHITA FALLS	86	70	91	59	78	7	1.7	.9	.7	7.9	206	27.4	125	96	58	1	0	6	1
UT BLANDING	61	38	67	32	49	-9	.1	-.2	0	2.4	229	12.1	148	88	48	0	1	3	0
CEDAR CITY	56	34	65	30	45	-13	.3	.1	.2	1.5	148	9.5	119	91	46	0	3	3	0
SALT LAKE CITY	55	39	59	33	47	-12	.4	.2	.1	3.0	294	18.0	154	93	50	0	0	4	0
VT BURLINGTON	66	51	77	43	59	5	2.9	2.3	1.7	5.7	159	34.2	132	97	68	0	0	6	2
VA NORFOLK	88	69	94	65	79	12	0	-.9	0	.3	5	19.8	55	93	49	4	0	0	0
RICHMOND	88	68	94	63	78	14	T	-.8	T	.6	16	26.5	78	94	50	5	0	1	0
ROANOKE	86	64	89	57	75	12	T	-.7	T	3.1	86	21.9	72	96	53	0	0	1	0
WA COLVILLE	59	40	67	33	50	-3	.6	.4	.5	3.1	309	18.0	150	95	66	0	0	3	1
QUILLAYUTE	60	46	62	35	53	-1	.8	-1.0	.4	3.8	60	69.0	106	100	76	0	0	5	0
SEATTLE-TACOMA	61	50	69	46	55	-2	.2	-.4	.2	1.9	80	22.5	95	95	66	0	0	3	0
SPOKANE	56	39	66	34	48	-6	.4	.2	.2	1.6	195	11.7	104	98	61	0	0	3	0
YAKIMA	67	39	74	36	53	-3	T	-.1	T	2.1	559	7.4	140	92	40	0	0	0	0
WV BECKLEY	79	63	82	60	71	13	1.5	.8	1.0	5.2	140	29.5	87	94	60	0	0	3	1
CHARLESTON	85	66	88	63	76	14	.6	-.1	.4	4.1	120	33.3	98	97	59	0	0	3	0
HUNTINGTON	85	68	88	65	76	14	.4	-.2	.4	4.1	121	27.7	85	97	60	0	0	2	0
PARKERSBURG	83	67	88	64	75	13	1.9	1.4	1.0	6.1	194	29.3	86	98	63	0	0	3	2
WI GREEN BAY	65	47	79	40	56	2	1.8	1.2	.6	8.5	242	28.6	124	99	69	0	0	6	1
LA CROSSE	66	50	75	44	58	1	2.7	2.1	1.0	9.6	252	28.9	111	97	58	0	0	5	2
MADISON	65	50	78	41	57	2	3.0	2.4	1.5	7.8	232	29.2	114	99	82	0	0	3	2
MILWAUKEE	66	55	79	44	60	3	1.8	1.2	.7	8.0	251	38.4	154	97	75	0	0	7	1
WAUSAU	64	46	76	40	55	2	1.5	.8	.8	10.2	239	27.3	102	96	53	0	0	6	2
WY CASPER	53	32	59	28	43	-11	1.7	1.5	1.6	3.0	341	13.4	141	83	45	0	5	2	1
CHEYENNE	52	34	59	29	43	-10	1.0	.8	.4	3.3	279	12.7	107	93	55	0	2	6	0
LANDER	53	33	59	31	43	-10	1.2	.9	1.1	1.6	155	9.1	84	78	43	0	3	3	1
SHERIDAN	55	36	64	31	46	-7	1.0	.7	.6	3.3	253	13.8	111	82	39	0	3	4	1
PR SAN JUAN	89	75	89	73	82	0	.1	-1.2	.1	2.1	31	36.6	95	93	63	0	0	2	0

Based on 1951-80 normals.

September Weather Summary

SEPTEMBER WEATHER SUMMARY

HIGHLIGHTS: Severe weather and heavy rain from southern Minnesota across the lower Great Lakes caused serious flooding. Wet weather continued for most of the month from the northern Great Plains eastward to the Lake Ontario region. Heavy thunderstorms early in the month also brought a variety of severe weather to much of Texas, including heavy rain. However, little rain fell in the southern tip of Texas. Above-normal rain fell across the Corn Belt and in the central and southern Appalachian Mountains. The rainy season seemed to have begun in the West when rain or snow fell in most areas west of the Rockies in the last week. In the last days of the month, a line of thunderstorms developed from Oklahoma to northern New England. Torrential rain fell in Oklahoma, Kansas, and Missouri. Average temperatures were cool in the West and northern Great Plains and warm in the South and Southeast.

FIRST WEEK...Heavy rain drenched much of Texas, causing severe flooding. The heavy rain reached into southern Oklahoma and across northern Louisiana and southern Arkansas. Heavy showers also fell from much of Alabama and Georgia to the central Appalachians. Scattered thunderstorms produced some moderate rain in the central and northern Great Plains, but the Midwest had only light showers. It was much cooler than normal in the northern Great Plains and the western part of the central and southern Plains. The far West was warmer than normal.

SECOND WEEK...Thunderstorms in south-central Texas early in the week caused local flooding. A mid-week line of severe thunderstorms reached from eastern Kansas to the upper Mississippi Valley and eastward to Lake Ontario. Torrential rain fell in lower Michigan, flooding rivers and threatening dams. Thunderstorms reached to the western Appalachians, but only light showers fell east of the Range. Snow fell in the northern Rockies as very cold air plunged into the West. Cool air spread into the Plains and covered most of the Nation by week's end. Record-cold temperatures were observed from the Great Lakes to the mid-Atlantic States and to the Tennessee Valley.

THIRD WEEK...Showers and thunderstorms covered most of the Nation except the far Southwest. Snow fell in parts of the Plateau, Rockies, and northern Appalachians. Heavy rain fell from the upper Mississippi Valley through upper Michigan and from eastern Nebraska to central Indiana. Showers were light in most of the East Coast States, but isolated, heavy showers fell in the Southeast. Heavy thunderstorms also covered the area from the Texas Panhandle to southwestern Missouri. It was much cooler than normal in the West and northern Great Plains, but warmer from the central and southern Rockies to the lower Ohio Valley and to Florida.

FOURTH WEEK...Seasonal precipitation began in the West, and rain or snow fell almost everywhere west of the Rockies. Thunderstorms dropped very heavy rain in eastern Montana and North Dakota at midweek and the heavy rain covered adjacent parts of Canada the following day. Streams ran out of their banks and flooded many areas. Severe thunderstorms continued plaguing the area from the upper Mississippi Valley across the Great Lakes. Little or no rain fell in the drought-stricken Southeast

from Georgia to Maryland. The weather was unusually cold in the West and warm in the East.

In the last three days of the month, a line of severe weather established from Oklahoma and eastern Kansas to upper New England. Moderate to heavy showers fell throughout this area but torrential rains fell in Kansas, Missouri, Oklahoma, and Arkansas. The heavy storms continued as the month ended.

SEPTEMBER ROW CROP DEVELOPMENT

Below-normal temperatures slowed crop development across the eastern half of the Nation during most of September. Rain early in the month, provided moisture which aided late-planted soybeans in the Delta and the Southeast. Temperatures returned to normal the last week of the month which hastened crop maturity across the eastern half of the Nation. Rain hindered harvest activities in the Corn Belt, the northern Great Plains and the Rocky Mountain States during most of September.

Corn was 81 percent mature by September 28, compared with 81 percent last year and 79 percent normally. In Minnesota and Michigan, crop maturity lagged 28 and 40 points behind normal, respectively. South Dakota's corn crop was 66 percent mature compared with 85 percent average. Maturity was 23 points below average in Wisconsin. Harvest was 14 percent finished in the 17 major producing States, slightly ahead of last year and average. Harvest lagged behind normal in some Corn Belt, northern Great Plains and Rocky Mountain States, where wetness persisted most of the month.

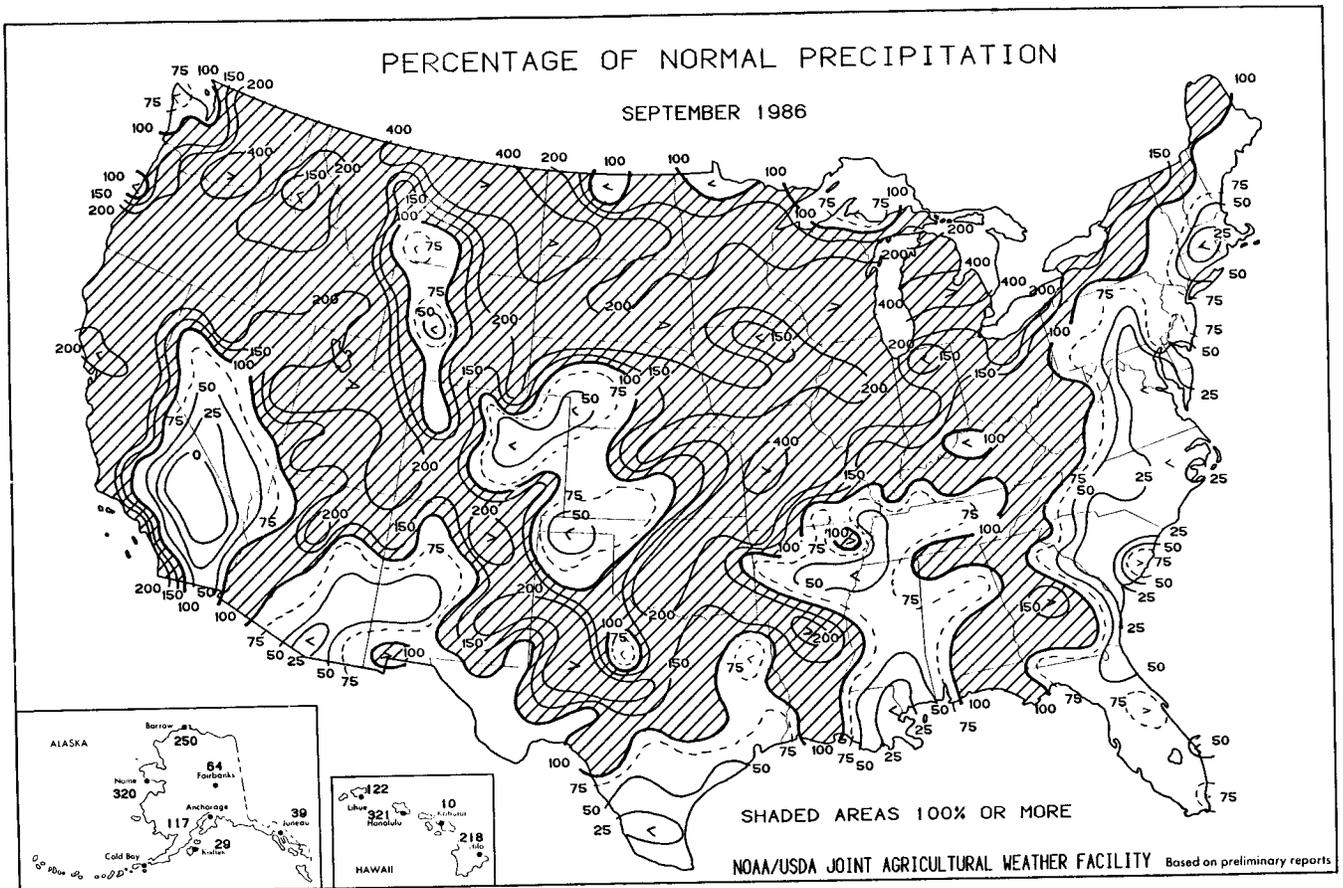
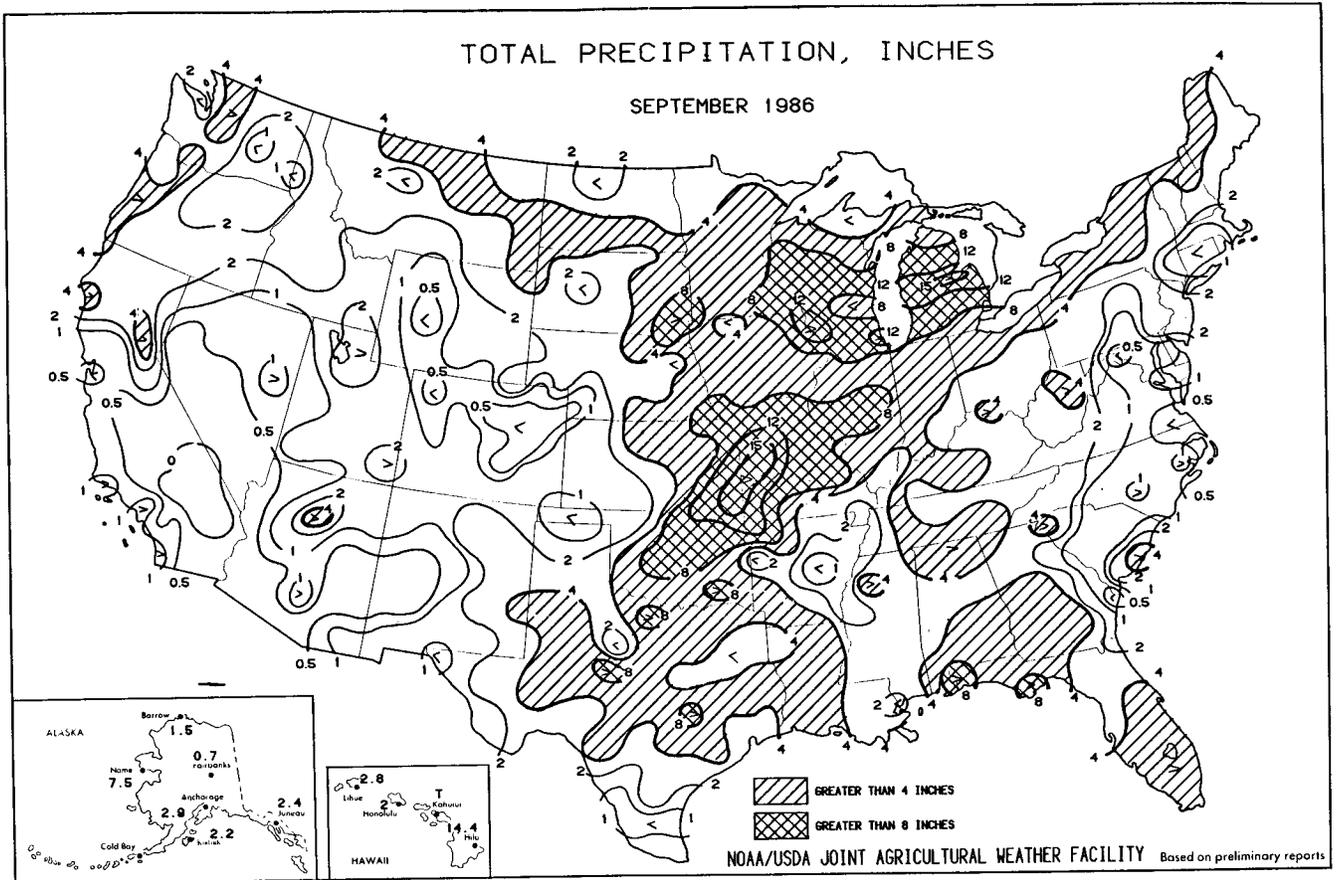
Sixty-seven percent of the soybean acreage had reached the leaf dropping stage, 5 points ahead of both 1985 and average at month's end. Harvest, at 8 percent completion, was 2 points below normal. Late maturity in the Southeast, and wetness in the Corn Belt and in the northern and central Plains caused harvest to lag behind normal. Harvest was 14 points behind normal in both Iowa and South Dakota. Harvest had not begun in Georgia, South Carolina, South Dakota, North Carolina, and Tennessee by September 28.

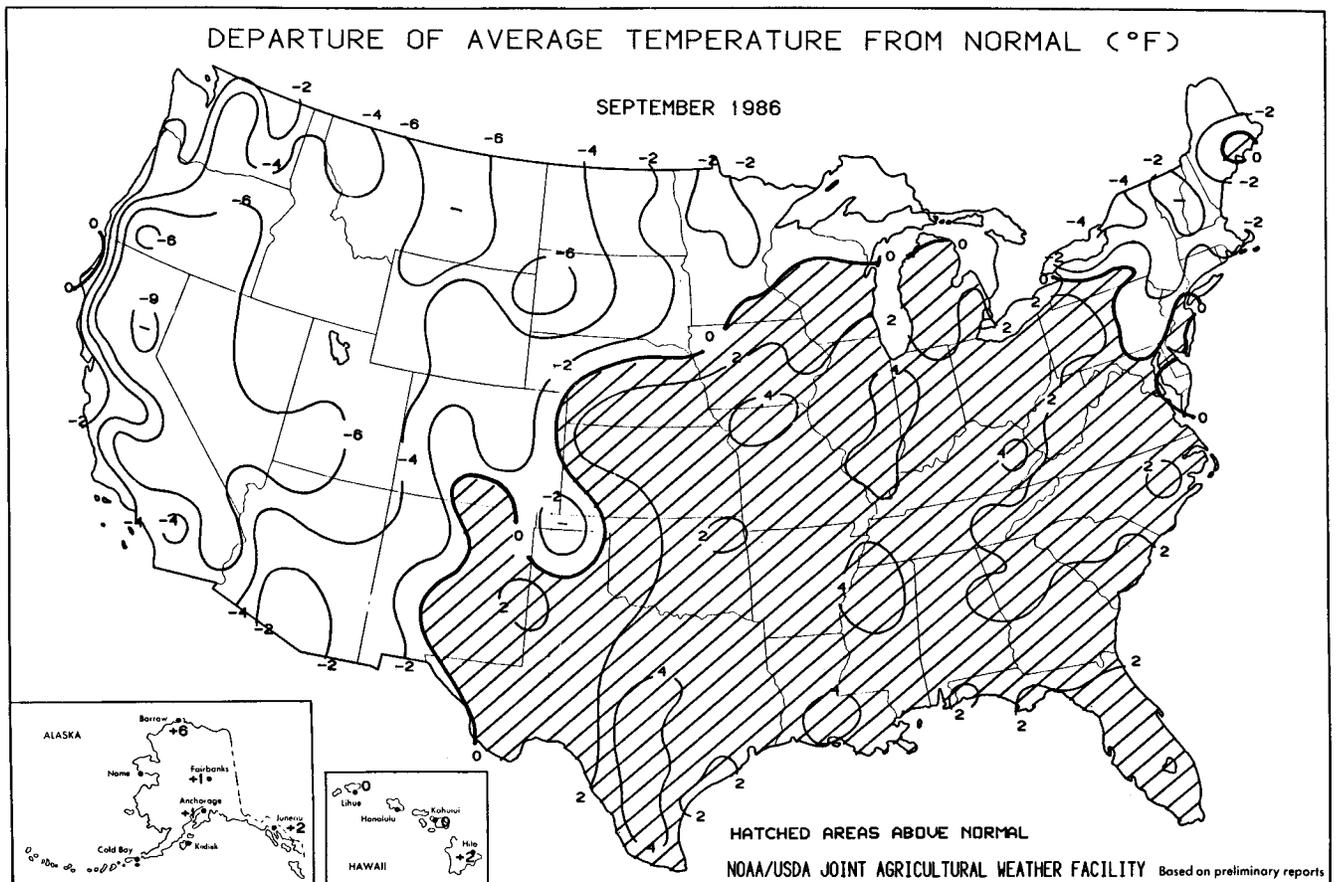
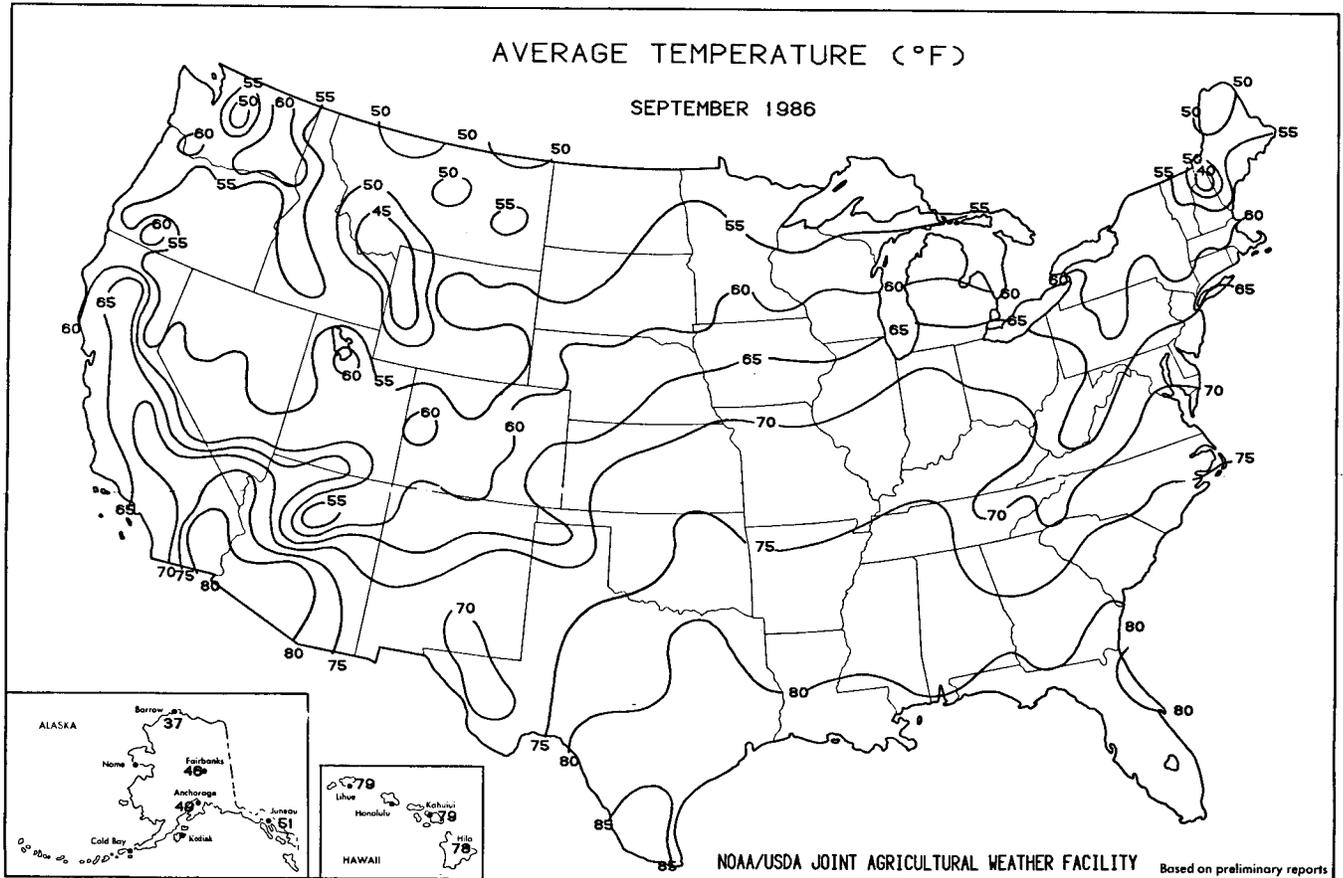
Cotton started the month headed for early maturity but rain early in September forced new growth in the Delta. Cotton was blooming and opening bolls at the same time in some States. Bolls were opening on 60 percent of the acreage, down 10 points from last year and 6 points below normal on September 28. Bolls were opening 10, 14 and 21 points slower than normal in Oklahoma, Missouri and Texas, respectively. Harvest reached 19 percent completion, compared with 13 percent normally.

On September 28, sorghum was 68 percent mature when normally 59 percent would be mature. Despite rapid maturity, harvest did not keep pace largely because of precipitation. Harvest was 36 percent finished equaling the average. Harvest was behind normal in Missouri, Nebraska, Oklahoma, South Dakota, and Texas.

Rice was 76 percent harvested compared with 59 percent average. Harvest was finished in Texas and neared completion in Louisiana and Mississippi.

(Continued to back cover)





Temperature and Precipitation Data for September 1986

States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	77	3	4.0	-0.3	LA ALEXANDRIA	81	3	2.6	-0.1	COLUMBUS	69	3	3.4	0.7
MOBILE	79	1	4.4	-2.2	BATON ROUGE	82	4	1.9	-2.5	DAYTON	69	2	3.2	0.8
AK ANCHORAGE	49	1	2.9	0.4	LAKE CHARLES	82	4	6.3	1.1	TOLEDO	65	2	4.8	2.3
BARROW	37	6	1.5	1.0	NEW ORLEANS	81	2	1.4	-4.5	YOUNGSTOWN	64	2	5.9	2.8
FAIRBANKS	46	1	0.7	-0.4	SHREVEPORT	79	2	3.5	0.3	OK OKLAHOMA CITY	75	2	9.5	6.1
JUNEAU	51	2	2.4	-4.0	ME CARIBOU	51	-3	3.6	0.1	TULSA	75	1	8.4	4.0
KODIAK	51	1	2.2	-5.4	PORTLAND	57	-1	2.6	-0.6	OR ASTORIA	56	-3	3.6	0.5
NOME	42	0	7.5	5.2	MD BALTIMORE	69	0	0.6	-2.9	BURNS	51	-8	2.1	1.5
AZ FLAGSTAFF	53	-5	4.8	3.3	MA BOSTON	68	0	1.6	-2.3	MEDFORD	61	-4	2.3	1.6
PHOENIX	84	0	0.5	-0.2	CHATHAM	61	-1	1.1	-2.3	PENDLETON	59	-5	1.3	0.7
PRESCOTT	63	-2	1.8	0.3	MI ALPENA	57	0	7.1	-4.2	PORTLAND	62	-1	4.3	2.7
TUCSON	79	-1	0.3	-1.0	DETROIT	66	2	7.5	5.3	SALEM	59	-2	3.1	1.5
WINSLOW	65	-4	0.5	-0.3	FLINT	63	2	10.9	8.5	PA ALLENTOWN	64	-1	3.1	-1.0
YUMA	83	-4	0.4	0.1	GRAND RAPIDS	63	1	11.9	8.8	ERIE	65	3	8.0	4.1
AR FORT SMITH	77	3	1.9	-1.4	Houghton Lake	58	1	9.5	6.7	HARRISBURG	66	-1	0.7	-2.9
LITTLE ROCK	77	3	1.0	-2.9	LANSING	62	1	8.3	5.8	PHILADELPHIA	68	0	2.3	-1.1
CA BAKERSFIELD	70	-7	T	-0.1	MARQUETTE	53	-1	2.9	-1.0	PITTSBURGH	66	2	2.3	-0.5
EUREKA	57	0	2.8	1.9	MUSKOGEE	62	0	13.6	10.7	SCRANTON	61	-1	3.1	-0.3
FRESNO	71	-3	0.4	0.2	SAULT STE. MARI	54	-1	5.2	1.3	RI PROVIDENCE	62	-1	1.0	-2.6
LOS ANGELES	66	-4	1.4	1.3	MN ALEXANDRIA	57	-1	4.3	2.1	SC CHARLESTON	79	3	4.6	-0.3
REDDING	68	-8	2.2	1.1	DULUTH	53	-1	6.3	3.0	COLUMBIA	76	1	0.6	-3.7
SACRAMENTO	66	-6	0.6	0.3	INT'L FALLS	52	-1	2.4	-0.8	FLORENCE	77	2	0.5	-3.5
SAN DIEGO	67	-4	1.0	0.9	MINNEAPOLIS	60	-1	6.9	4.4	GREENVILLE	73	1	2.6	-1.8
SAN FRANCISCO	63	-1	0.5	0.3	ROCHESTER	59	0	10.5	7.4	SD ABERDEEN	57	-3	2.8	1.3
STOCKTON	67	-6	0.8	0.6	ST. CLOUD	55	-2	6.3	3.5	HURON	59	-2	4.0	2.7
CO DENVER	61	-2	0.4	-0.8	MS GREENWOOD	80	4	1.9	-1.4	RAPID CITY	55	-6	3.1	2.1
GRAND JUNCTION	63	-4	1.5	0.8	JACKSON	80	3	2.6	-0.9	STOUX FALLS	60	-1	9.3	6.5
PUEBLO	63	-3	0.4	-0.4	MERIDIAN	78	3	2.5	-1.0	CHATTANOOGA	74	2	5.9	1.6
CT BRIDGEPORT	65	-1	0.9	-2.4	MO COLUMBIA	71	3	9.6	6.0	KNOXVILLE	73	1	3.5	0.5
HARTFORD	62	-2	0.9	-3.0	KANSAS CITY	72	3	10.4	6.3	MEMPHIS	79	5	1.2	-2.4
WASHINGTON	71	0	0.6	-2.6	SAINT LOUIS	73	4	8.0	5.3	NASHVILLE	75	3	2.2	-1.5
FL APALACHICOLA	80	1	9.4	0.7	SPRINGFIELD	72	2	11.6	7.4	TX ABILENE	77	1	1.7	-1.4
DAYTONA BEACH	80	0	3.6	-3.1	MT BILLINGS	54	-6	1.2	0.0	AMARILLO	69	-1	1.5	-0.3
FT. MYERS	84	2	5.7	-2.9	GLASGOW	52	-5	3.8	2.9	AUSTIN	82	3	4.8	1.2
JACKSONVILLE	80	1	2.0	-5.3	GREAT FALLS	52	-6	1.5	0.5	BEAUMONT	82	3	3.4	-2.7
KEY WEST	83	1	4.6	-1.9	HAVRE	51	-6	5.8	4.8	BROWNSVILLE	84	3	1.7	-3.5
MIAMI	83	1	4.4	-3.7	HELENA	51	-4	2.4	1.6	CORPUS CHRISTI	83	2	1.9	-4.3
ORLANDO	82	0	4.5	-1.1	KALISPELL	52	-2	2.8	1.7	DEL RIO	81	0	3.7	1.0
TALLAHASSEE	80	2	4.3	-2.2	MILES CITY	55	-5	3.4	2.3	EL PASO	74	0	0.8	-0.6
TAMPA	82	1	3.9	-2.4	MISSOULA	53	-3	3.5	2.5	FORT WORTH	80	2	4.6	1.3
WEST PALM BEACH	82	1	4.1	-5.2	NE GRAND ISLAND	66	2	3.7	1.2	GALVESTON	83	3	3.0	-2.9
GA ATLANTA	74	1	3.7	0.5	LINCOLN	68	3	5.6	2.7	HOUSTON	82	3	3.7	-1.2
AUGUSTA	78	3	0.7	-2.8	NORFOLK	64	1	3.6	1.5	LUBBOCK	71	0	6.9	4.8
MACON	78	2	5.4	2.1	NORTH PLATTE	63	1	1.0	-0.7	MIDLAND	74	0	7.0	4.9
SAVANNAH	80	3	0.5	-4.7	OMAHA	67	3	6.5	3.1	SAN ANGELO	78	1	7.5	4.5
HI HILO	78	2	14.4	7.7	SCOTTSDUFF	59	-3	1.9	0.8	SAN ANTONIO	84	4	2.8	-0.9
HONOLULU	82	2	2.0	1.4	VALENTINE	59	-2	2.7	1.3	SAN VICTORIA	82	2	3.6	-2.7
KAHULUI	79	1	T	-0.3	NV ELKO	53	-5	0.8	0.3	WACO	83	4	3.9	0.7
LIHUE	80	1	2.8	0.6	ELY	52	-5	1.4	0.7	UT WICHITA FALLS	78	2	6.7	3.3
ID BOISE	58	-6	2.9	2.3	LAS VEGAS	75	-5	0.1	-0.3	BLANDING	58	-5	2.4	1.5
LEWISTON	60	-4	0.9	0.3	RENO	57	-4	0.3	0.0	CEDAR CITY	58	-5	1.3	0.4
POCATELLO	54	-5	1.3	0.7	WINNEMUCCA	55	-5	0.8	0.5	MILFORD	57	-6	0.9	0.2
IL CAIRO	75	3	3.0	-0.5	NH CONCORD	57	-2	2.3	-0.9	SALT LAKE CITY	60	-5	2.8	1.9
CHICAGO	67	2	7.1	3.8	NJ ATLANTIC CITY	66	-1	2.4	-0.5	VT BURLINGTON	58	-1	5.0	1.8
MOLINE	67	3	5.6	1.9	NM ALBUQUERQUE	67	-2	0.5	-0.3	VA NORFOLK	72	0	0.3	-4.1
PEORIA	69	3	6.4	2.8	CLOVIS	72	3	2.5	0.6	RICHMOND	71	1	0.6	-2.9
QUINCY	70	3	9.5	5.3	ROSWELL	72	0	4.0	2.3	ROANOKE	69	1	3.0	-0.1
ROCKFORD	65	1	9.9	6.2	NY ALBANY	60	-1	2.6	-0.6	WA COLVILLE	56	-2	3.1	2.2
SPRINGFIELD	70	3	8.6	5.5	BINGHAMTON	61	1	3.3	-0.1	QUILLAYUTE	55	-2	3.7	-1.6
EVANSVILLE	72	3	3.8	1.2	BUFFALO	62	-1	3.8	0.5	SEATTLE-TACOMA	59	-1	1.9	-0.1
FORT WAYNE	67	2	4.6	2.1	NEW YORK	68	0	1.8	-1.7	SPOKANE	55	-4	1.6	0.9
INDIANAPOLIS	70	3	5.7	2.9	ROCHESTER	60	-3	5.1	2.5	WALLA WALLA	57	-4	1.9	1.1
SOUTH BEND	66	2	4.3	1.0	SYRACUSE	60	-2	5.5	2.2	YAKIMA	62	-4	2.1	1.7
IA DES MOINES	67	2	6.4	3.3	NC ASHEVILLE	68	1	3.2	-0.8	BECKLEY	65	2	3.8	0.4
DUBUQUE	63	1	13.1	9.0	CHARLOTTE	74	2	0.9	-2.7	CHARLESTON	69	2	3.5	0.5
SIoux CITY	64	-1	5.1	2.5	GREENSBORO	71	1	1.0	-2.6	ELKINS	63	1	4.3	1.1
WATERLOO	64	2	4.4	1.0	HATTERAS	75	1	0.1	-5.7	HUNTINGTON	71	3	3.8	0.7
KS CONCORDIA	70	2	6.8	3.8	NEW BERN	75	1	1.0	-4.8	PARKERSBURG	69	2	4.8	1.9
DODGE CITY	70	1	1.2	-0.6	RALEIGH	72	1	1.0	-2.3	GREEN BAY	59	0	7.5	4.3
GOODLAND	66	2	1.3	-0.2	WILMINGTON	76	2	0.7	-5.0	LA CROSSE	63	1	8.1	4.6
TOPEKA	72	3	6.2	2.8	ND BISMARCK	54	-3	4.4	3.0	MADISON	62	2	6.8	3.8
WICHITA	74	3	3.8	0.4	FARGO	56	-2	3.7	1.8	MILWAUKEE	64	2	7.3	4.4
KY BOWLING GREEN	73	2	4.5	1.3	GRAND FORKS	56	0	2.4	0.3	WAUSAU	58	1	9.1	5.3
JACKSON	70	4	3.3	0.2	WILLISTON	52	-5	3.1	1.7	WY CASPER	56	-3	1.3	0.6
LEXINGTON	71	2	3.1	-0.2	OH AKRON-CANTON	66	2	3.5	0.5	CHEYENNE	56	-2	2.5	1.4
LOUISVILLE	73	3	2.8	-0.6	CINCINNATI	70	2	3.5	0.6	LANDER	55	-3	0.4	-0.4
PADUCAH	74	4	3.7	0.2	CLEVELAND	67	3	6.4	3.5	SHERIDAN	54	-4	2.4	1.3
									PR SAN JUAN	82	1	2.0	-4.0	

Based on 1951-80 normals.

Heating Degree Days (Base 65° F.)

September 1986

ALA. Birmingham . . .	0	MAINE, Caribou . . .	427	OKLA. Okla. City . . .	2
Mobile	0	Portland	242	Tulsa	5
Montgomery	0	MD. Baltimore	34	OREG. Astoria	273
ALASKA, Anchorage . . .	486	MASS. Boston	98	Burns	414
Barrow	845	Chatham	125	Medford	197
Fairbanks	559	MICH. Alpena	240	Pendleton	213
Nome	425	Detroit	76	Portland	148
ARIZ. Flagstaff	353	Flint	113	Salem	210
Phoenix	0	Grand Rapids	118	PA. Allentown	92
Tucson	0	Houghton Lake	211	Erie	84
Winslow	73	Lansing	128	Harrisburg	46
Yuma	0	Marquette	349	Philadelphia	23
ARK. Fort Smith	0	S. Ste. Marie	325	Pittsburgh	65
Little Rock	0	MINN. Duluth	361	Scranton	139
CALIF. Bakersfield . . .	21	Internatl Falls	367	R.I. Providence	113
Eureka	227	Minneapolis	177	S.C. Charleston	0
Fresno	13	Rochester	187	Columbia	0
Los Angeles	21	St. Cloud	252	Greenville	3
Red Bluff	87	MISS. Jackson	0	S. DAK. Aberdeen	246
Stockton	39	Meridian	0	Huron	191
San Diego	7	MO. Columbia	13	Rapid City	296
San Francisco	62	Kansas City	23	Sioux Falls	180
COLO. Denver	145	St. Louis	12	TENN. Chattanooga	0
Grand Junction	130	Springfield	16	Knoxville	0
Pueblo	94	MONT. Billings	331	Memphis	0
CONN. Bridgeport	68	Glasgow	379	Nashville	0
Hartford	135	Great Falls	400	TEX. Abilene	1
D.C. Washington	18	Havre	411	Amarillo	26
FLA. Apalachicola	0	Helena	409	Austin	0
Ft. Myers	0	Kalispell	408	Beaumont	0
Jacksonville	0	Miles City	297	Brownsville	0
Key West	0	Missoula	358	Corpus Christi	0
Miami	0	NEBR. Grand Island	49	Del Rio	0
Orlando	0	Lincoln	38	El Paso	1
W. Palm Beach	0	Norfolk	85	Fort Worth	0
Tallahassee	0	North Platte	98	Galveston	0
Tampa	0	Omaha	45	Houston	0
GA. Atlanta	2	Valentine	189	Lubbock	7
Augusta	0	NEV. Ely	406	Midland	2
Macon	0	Las Vegas	14	San Angelo	0
Savannah	0	Reno	291	San Antonio	0
IDAHO, Boise	259	Winnemucca	345	Victoria	0
Lewiston	192	N.H. Concord	251	Waco	0
Pocatello	326	N.J. Atlantic City	55	Wichita Falls	0
ILL. Cairo	2	N. MEX. Albuquerque	51	UTAH, Milford	250
Chicago	64	N.Y. Albany	173	Salt Lake City	203
Moline	55	Binghamton	157	VT. Burlington	215
Peoria	37	Buffalo	137	VA. Lynchburg	26
Rockford	91	New York	25	Norfolk	8
Springfield	25	Rochester	175	Richmond	24
IND. Evansville	14	Syracuse	155	Roanoke	22
Fort Wayne	60	N.C. Asheville	16	WASH. Colville	273
Indianapolis	30	Charlotte	2	Quillayute	291
South Bend	81	Greensboro	13	Seattle-Tacoma	196
IOWA, Des Moines	50	Hatteras	0	Spokane	311
Dubuque	112	Raleigh	12	Walla Walla	153
Souix City	79	Wilmington	0	Yakima	255
KANS. Concordia	37	N. DAK. Bismarck	314	W. VA. Beckley	75
Dodge City	36	Fargo	268	Charleston	23
Goodland	58	Williston	386	Huntington	13
Topeka	27	OHIO. Akron-Canton	70	WIS. Green Bay	191
Wichita	11	Cincinnati	25	Madison	145
KY. Lexington	14	Cleveland	63	Milwaukee	98
Louisville	5	Columbus	41	WYO. Casper	282
LA. Baton Rouge	0	Dayton	42	Cheyenne	286
Lake Charles	0	Toledo	87	Lander	289
New Orleans	0	Youngstown	105	Sheridan	338
Shreveport	0				

Based on 1951-80 normals.

National Agricultural Summary

September 30 to October 5, 1986

HIGHLIGHTS: Rain across the central Great Plains and through the Corn Belt hampered winter wheat seeding and row crop harvesting. The heavy rain flooded and damaged crops in some areas. Dry weather continued in the Southeast, delaying winter wheat seeding but ideal for row crop harvesting. Farmers worked 5 to 6 days in the Southeast, but were limited to 3 days or less in the Corn Belt, the central and northern Great Plains, and in some Rocky Mountain States. Most of the Southeast needs rain. The Corn Belt and central and northern Plains need drier weather.

Winter wheat was 59 percent (%) seeded, compared with 54% last year and the 56% 5-year average. Seeding was behind normal in 14 of the 20 major producing States. Corn harvest dropped 3 percentage points behind normal at 18% completion. Mold, mildew, lodging, stalk rot, and ear droppage plagued the central Plains and Corn Belt. Soybean harvest slowed, ending the week 9 points behind normal. Harvest reached 14% completion--equaling last year's. Cotton harvest jumped 7 points from the previous week to 26% finished and was 8 points above normal. Cotton escaped the heavy rain, except in Oklahoma where harvest stood still. Sorghum was 39% harvested, 5 points slower than normal. Harvest lagged behind normal in the central and northern Plains States. Eighty-two percent of the rice acreage was harvested, compared with 74% last year and the 70% average. Livestock was mostly good. Muddy pastures and feedlots stressed livestock in some areas. Pastures declined in the Southeast.

SMALL GRAINS: Heavy rain from Texas through the central Plains and across the Corn Belt virtually halted winter wheat seeding in some States. Dryness hampered seeding in the Southeast. Winter wheat was 59% seeded, compared with 54% last year and the 56% average. Seeding was behind normal in 14 of the 20 major producing States. Plants emerged on 43% of the acreage, up 11 points from normal. Missouri and Michigan seeding was unchanged from the previous week, falling 12 points behind normal in Missouri and 35 points behind normal in Michigan. Seeding jumped 18 points from the previous week in Montana, but was still 30 points behind schedule. Ohio's seeding inched 1 point above last week to 8% completion, compared with the 31% normal. Producers began aerial seeding in some areas. The wet weather hampered seeding in Kansas; replanting may be necessary in several counties once the ground dries. Leaf rust was present and could pose future problems.

Spring wheat was 95% finished, compared with the 99% normal. Most of the small grains left to be harvested in North Dakota showed sprout damage and may be abandoned.

CORN: Excess moisture limited or nearly prevented corn harvest in the Corn Belt and central and northern Great Plains. Mold, ear droppage, mildew, lodging, and stalk rot was becoming problematic in these areas. Corn was 18% harvested in the 17 major producing States, up 4 points from the previous week but 3 points below average. Corn was mature or virtually mature in all States except Colorado, Minnesota, Pennsylvania, South Dakota, and Wisconsin. Corn harvest was behind normal in 7 major producing States, ranging from 4 points behind normal in both Michigan and Wisconsin to 13 points behind normal in Iowa.

SOYBEANS: Soybean harvest fell further behind normal, registering a 9 point deficit. Harvest

equaled last year's rain-delayed pace at 14% completion. Iowa's harvest was 10% finished, more than three times slower than normal. South Dakota's harvest reached 12% completion but fell 20 points short of the average. Harvest was below normal in 12 major producing States; 7 of the 12 were at least 9 points behind normal. The wetness caused minor lodging in Iowa. Some bean rotting in the pods and stem rot occurred in Minnesota. Nebraska producers were concerned with bean discoloration and mold.

COTTON: Bolls were open on 64% of the acreage in the 14 major producing States, compared with 77% last year and the 75% average. Twenty-six percent of the acreage was harvested, 3 points ahead of 1985 and 8 points above the average. Harvest progressed well in all States except Oklahoma and Texas because of heavy rain. Oklahoma's harvest progress was unchanged, while harvest increased 1 point in Texas from the previous week. Harvest was slightly more than half finished in Arkansas, half finished in Tennessee, and nearly three-fourths finished in Louisiana and Mississippi. Rain and cool temperatures slowed cotton development in California.

SORGHUM: Sorghum was mature on 76% of the acreage, equaling 1985 and slightly above normal. Harvest was 39% complete, 5 points behind normal. Rain delayed harvest in Kansas, Missouri, Nebraska, South Dakota, and Texas. These States were 5 to 14 points behind normal. Seed heads were sprouting in parts of Kansas, reducing grain usefulness.

OTHER CROPS: Rice was 82% harvested, compared with the 70% average. Texas rice producers began cutting their second crop. A fifth of California acreage was harvested, which was about normal. Arkansas harvest was 21 points greater than normal. Peanut digging and combining gained momentum. Harvest was 55 and 54% finished in North Carolina and Virginia, compared with 40 and 58% normally harvested in these States, respectively. Georgia's peanut harvest was 41 points below average and Alabama's harvest was 52 points below average. Rain delayed harvest in some areas of Texas.

FRUIT AND NUTS: Florida's fresh fruit harvest increased rapidly as more packinghouses opened for the season. Growers irrigated to prevent fruit softening. Pecans matured earlier than usual in the Texas Plains. Harvest increased in the Blacklands and was beginning in Edwards Plateau. Navel orange harvest began on a limited basis in Arizona. Lemon and grapefruit packing gained momentum. Cool weather enhanced citrus maturity in California. Navel oranges began coloring. Valencia orange and summer grapefruit harvests slowed and approached completion. Table and wine grape, nectarine, and peach harvests neared completion.

VEGETABLES: Fall vegetable harvest declined in the northern producing areas. Eggplant, cucumbers, squash, sweet corn, radishes, and tomatoes were harvested in Florida. Fall vegetable planting continued in the Rio Grande Valley and the San Antonio-Winter Garden area. Arizona and California harvested vegetables, mostly celery, lettuce, peppers, broccoli, and cauliflower.

PASTURES AND LIVESTOCK: Pastures began suffering from dryness in the Southeast. Other than muddy, pastures were mostly good in the Great Plains and Corn Belt. Livestock was mostly good. Rain and mud caused stress in some areas.

CROP PROGRESS

FOR WEEK ENDING OCTOBER 5, 1986

**WINTER WHEAT
% PLANTED**

	1986	1985	AVG.
ARK	8	9	9
CALIF	1	1	1
COLO	91	95	92
GA	9	8	4
IDAHO	60	72	65
ILL	11	23	23
IND	12	20	25
KANS	75	55	65
MICH	5	40	45
MO	10	19	22
MONT	38	60	68
NEBR	93	85	94
N MEX	80	NA	NA
N C	8	7	9
OHIO	8	35	31
OKLA	65	60	45
OREG	38	20	40
S DAK	82	93	97
TEX	57	38	45
WASH	68	72	69

20 STATES 60 NA NA

EXCL. STATES WITH NA 59 54 56

THESE 20 STATES PRODUCED 91% OF THE 1985 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

**WINTER WHEAT
% EMERGED**

	1986	1985	AVG.
ARK	2	0	NA
CALIF	0	0	0
COLO	71	72	73
GA	7	NA	NA
IDAHO	28	35	34
ILL	6	4	5
IND	10	10	10
KANS	55	25	30
MICH	3	NA	NA
MO	8	6	7
MONT	22	40	37
NEBR	85	50	60
N MEX	70	NA	NA
N C	3	NA	NA
OHIO	3	6	6
OKLA	30	30	20
OREG	20	5	13
S DAK	70	63	75
TEX	34	21	18
WASH	55	45	50

20 STATES 41 NA NA

EXCL. STATES WITH NA 43 31 32

THESE 20 STATES PRODUCED 91% OF THE 1985 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

**COTTON
% BOLLS OPENING**

	1986	1985	AVG.
ALA	92	96	89
ARIZ	98	95	96
ARK	95	93	92
CALIF	100	100	89
GA	76	88	76
LA	99	98	94
MISS	100	99	98
MO	80	82	94
N MEX	97	80	93
N C	98	100	98
OKLA	35	85	65
S C	94	95	90
TENN	99	100	91
TEX	31	56	57

14 STATES 64 77 75

THESE 14 STATES PRODUCED 100% OF THE 1985 COTTON CROP.

**COTTON
% HARVESTED**

	1986	1985	AVG.
ALA	22	31	25
ARIZ	15	7	8
ARK	52	42	31
CALIF	2	0	1
GA	13	25	16
LA	70	60	33
MISS	74	52	32
MO	40	33	35
N MEX	5	5	9
N C	11	12	20
OKLA	1	5	3
S C	17	38	26
TENN	50	30	25
TEX	17	18	17

14 STATES 26 23 18

THESE 14 STATES PRODUCED 100% OF THE 1985 COTTON CROP.

**SPRING WHEAT
% HARVESTED**

	1986	1985	AVG.
IDAHO	99	100	100
MINN	98	93	98
MONT	94	99	99
N DAK	91	95	99
S DAK	100	100	100

5 STATES 95 96 99

THESE 5 STATES PRODUCED 95% OF THE 1985 SPRING WHEAT CROP.

**GRAIN SORGHUM
% MATURE**

	1986	1985	AVG.
ARK	95	NA	NA
ILL	90	NA	NA
KANS	70	55	60
LA	100	100	98
MISS	100	NA	NA
MO	86	81	82
NEBR	92	90	75
OKLA	75	90	75
S DAK	66	56	78
TENN	95	95	NA
TEX	72	88	82

11 STATES 79 NA NA

EXCL. STATES WITH NA 76 76 74

THESE 11 STATES PRODUCED 94% OF THE 1985 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

**GRAIN SORGHUM
% HARVESTED**

	1986	1985	AVG.
ARK	91	85	83
ILL	27	19	26
KANS	15	10	20
LA	99	96	94
MISS	98	85	76
MO	32	36	42
NEBR	9	3	15
OKLA	15	25	20
S DAK	5	7	19
TENN	80	70	NA
TEX	62	68	70

11 STATES 41 39 NA

EXCL. STATES WITH NA 39 38 44

THESE 11 STATES PRODUCED 94% OF THE 1985 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

**RICE
% HARVESTED**

	1986	1985	AVG.
ARK	90	75	69
CALIF	20	20	18
LA	99	93	94
MISS	97	99	74
TEX	100	98	100

5 STATES 82 74 70

THESE 5 STATES PRODUCED 97% OF THE 1985 RICE CROP.

	CORN % MATURE		
	1986	1985	AVG.
COLO	79	81	77
GA	100	100	100
ILL	100	98	98
IND	98	97	90
IOWA	99	96	95
KANS	99	95	90
KY	99	95	93
MICH	50	85	90
MINN	82	80	87
MO	100	100	92
NEBR	97	93	80
N C	100	100	100
OHIO	97	99	87
PA	69	65	60
S DAK	77	69	96
TEX	98	99	NA
WIS	70	78	92
17 STATES	91	91	NA
EXCL. STATES WITH NA	91	91	91

THESE 17 STATES PRODUCED 93%
OF THE 1985 CORN CROP.

NA - NOT AVAILABLE.

	CORN % HARVESTED		
	1986	1985	AVG.
COLO	3	11	8
GA	94	95	90
ILL	24	20	22
IND	18	15	15
IOWA	8	11	21
KANS	50	40	40
KY	54	42	36
MICH	1	5	5
MINN	2	2	8
MO	34	36	41
NEBR	15	8	10
N C	77	78	75
OHIO	13	14	13
PA	13	13	7
S DAK	2	2	13
TEX	87	88	84
WIS	2	6	6
17 STATES	18	17	21

THESE 17 STATES PRODUCED 93%
OF THE 1985 CORN CROP.

	SOYBEANS % DROPPING LEAVES		
	1986	1985	AVG.
ALA	49	46	50
ARK	36	37	33
GA	48	62	42
ILL	95	92	91
IND	97	96	93
IOWA	90	97	93
KANS	85	70	75
KY	55	43	49
LA	49	55	55
MICH	80	90	96
MINN	98	98	99
MISS	70	61	72
MO	75	66	66
NEBR	96	90	85
N C	21	21	21
OHIO	97	95	92
S C	27	24	28
S DAK	81	81	95
TENN	55	60	55
19 STATES	78	77	76

THESE 19 STATES PRODUCED 96%
OF THE 1985 SOYBEANS CROP.

	SOYBEANS % HARVESTED		
	1986	1985	AVG.
ALA	9	9	10
ARK	13	8	5
GA	2	6	2
ILL	28	37	44
IND	18	25	35
IOWA	10	10	34
KANS	15	5	20
KY	10	4	6
LA	16	19	17
MICH	1	4	10
MINN	12	3	21
MISS	14	13	11
MO	8	7	16
NEBR	15	3	20
N C	0	0	0
OHIO	16	29	25
S C	0	0	0
S DAK	12	1	32
TENN	4	3	3
19 STATES	14	14	23

THESE 19 STATES PRODUCED 96%
OF THE 1985 SOYBEANS CROP.

CROP CONDITION PERCENT
FOR WEEK ENDING OCTOBER 5, 1986

WINTER WHEAT					
STATE	VP	P	F	G	EX
ARK	0	0	40	60	0
COLO	0	1	42	48	9
NEBR	0	0	23	58	19
N MEX	0	0	44	56	0
OKLA	0	20	45	30	5
S DAK	1	2	14	56	27
WASH	0	10	5	80	5

VP - VERY POOR P - POOR
F - FAIR G - GOOD EX - EXCELLENT

State Summaries of Weather and Agriculture

ALABAMA: Temperatures averaged 10° above normal. Rainfall totals mostly 0.50 in. or less.

Days suitable for fieldwork 6.3. Soil moisture 82% short, 18% adequate. Continued hot, dry weather depleting crop conditions, pastures, livestock. Peanuts dug 29%, 82% 1985, 81% avg.; combined 15%, 71% 1985, 71% avg.; 14% poor, 79% fair, 7% good. Primary activities: Harvesting corn, sorghum, cotton, soybeans, peanuts, hay; defoliating cotton; planting small grains, annual forage crops; repairing harvest equipment; routine care of livestock, poultry.

ALASKA: Cold, stormy, wet weather gave way to sunny skies late in weekend. Temperatures near normal during day to colder than normal at night. Seasonal precipitation generally wetter than normal.

Days suitable for fieldwork 1.0. Topsoil moisture supplies 85% adequate, 15% surplus. Subsoil moisture supplies 90% adequate, 10% surplus. Small grain harvest 95% complete. Hay harvest over 85% complete. Commercial potato harvest virtually complete.

ARIZONA: Scattered showers, isolated thunderstorms central, north 29th; sunny to partly cloudy south. Mostly sunny 30th to 1st, temperatures below normal. Scattered light showers, snow 7,000 ft. level rest of week. Snowfall from traces to 1 to 2 in. Moisture amounts for week little or none west, south; 0.33 in. Mogollon Rim, White Mountains northward. Average temperatures 3 to 10° below normal.

Cotton defoliant sprayed, harvest advanced. Insects light, except severe in some central districts. Alfalfa planting, stand renovation took place west, central. New stands normal. Harvest progress, weed, insect problems light to moderate. Hay quality much improved over late summer cuttings, central. Corn 25% harvested southeast. Sorghum 25% combined southeast; heading, turning color west; turning color central. Crop good. Sesame harvested. Peanuts good. Lettuce, broccoli, cauliflower, mixed vegetables planted. Lettuce thinning active. Mixed vegetables harvested central. Lettuce, potato harvests advanced Willcox district. Cantaloups, honeydews packed. Lemon, grapefruit packing gained momentum. Lemons 17%, grapefruit 4% harvested. Limited Navel orange picking began. Apple, pistachio harvests continued.

ARKANSAS: Warm weather continued although cool front began to lower temperatures by weekend. Rainfall extremely heavy northwest to light east. Temperature extremes 52°; 96°. Rainfall none to 9.48.

Days suitable for fieldwork 5.0. Soil moisture 36% short, 59% adequate, 5% surplus. Crop growth moderate. Major activities: Establishing cool season forages; herd health practices; harvesting crops; disking under crop stubble; preparing wheat, oat seedbeds. Cotton gins operating full-time. Blast evident in many late fields, Charcoal rot caused severe lodging problem in sorghum. Soybean crop 21% mature, 17% 1985, 19% avg.

CALIFORNIA: Cold, low pressure trough over State kept temperatures well below normal, especially inland, temperatures remained up to 10° below normal all week. Upper air disturbances followed jet stream southward from Gulf of Alaska into area,

triggering scattered rain showers across many areas of State, allowing rainfall totals to exceed seasonal normals.

Rain, cooler temperatures slowed progress. Cotton received defoliation, growth regulators, harvest underway. Rice, dry bean, corn, milo, alfalfa, sugarbeet harvests active. Small grains planting began. Rains not damage grape crop. Raisin grapes 2% to 3% remained exposed. Table, wine grape harvests virtually complete. Late variety nectarine, peach harvests neared completion. Nut harvests affected by rains. Remaining almonds on ground require drying. Rain slowed walnut harvest, helped split hulls. Cool weather speeded citrus maturity. Navel oranges started color. Valencia orange, summer grapefruit harvests slowed, neared completion. Desert lemon harvest slow, poor demand. Artichoke moderate, variable quality; central coast. Broccoli moderate, Salinas; fairly heavy, Santa Maria, good quality. Fall harvest began, Firebaugh District. Carrot moderate, good quality; Salinas. Cauliflower moderate, good quality; Salinas, Santa Maria. Harvest, westside, start mid-November. Planting active, south coast. Celery fairly heavy, Salinas; moderate, Santa Maria, good quality. Planting active, Los Angeles-Orange County. Sweet corn harvest going well, Riverside, south coast, along with cucumber harvest. Lettuce fairly heavy, Salinas, variable quality. Fall fields, westside, continued mature. Honeydew harvest virtually over, mixed melon harvest. Watermelons, cantaloup packed, good quality, westside. Dehydrator onions dug, westside. Fields, Tulelake-Butte Valley, being topped. Pepper fairly heavy, Salinas; light, Santa Maria good quality. Harvest active; Delta, Fremont-San Jose. Fall potato digging full swing, Tulelake-Butte Valley, fields dried out from previous week's rain. Sweetpotato movement continued, Merced-Atwater. Pumpkin harvest going strong, Sacramento Valley; just started, Riverside. Processing, fresh market tomato harvest continued wind down. Harvest nearly finished, Merced-Atwater, market tomato harvest active south coast. Ranges, pastures continued green up from earlier rains, warm weather. Movement livestock market, winter pastures heavy. Fall calving continued; lambing increasing.

COLORADO: Temperatures averaged 3 to 8° below normal. Precipitation totals averaged trace to 0.95 in.

Days suitable for fieldwork 5.1. Soil moisture 3% very short, 36% short, 46% adequate, 15% surplus. Dry beans cut 86%, 95% 1985, 89% avg.; threshed 58%, 74% 1985, 75% avg. Sorghum mature 48%, 69% 1985, 72% avg.; harvested for grain 3%, 6% 1985, 14% avg. Livestock good; range, pasture fair to good.

FLORIDA: Extended routine summer weather prevailed with near record heat, few widely scattered afternoon, evening thundershowers except morning showers along middle, lower Atlantic Coast. Temperatures averaged 3 to 5° above normal, up to 8° above normal Panhandle. Rainfall spotty, averaged less than 0.50 in. statewide.

Moisture adequate except short some northern, Panhandle areas. Peanut harvesting active, yields below normal. Cotton harvest just underway, defoliant applications active. Soybeans fair to good, older fields mature. Hay harvest continued. Pecan set above normal. Land preparation active for small grains. Lack of rain kept some

Panhandle, upper Peninsula, few central pastures poor to fair condition. Extreme western Panhandle, remainder of Peninsula good to excellent. Cattle fair some Panhandle, upper Peninsula areas where grazing quality or supply is low; good to excellent elsewhere. Dairymen busy with calving in preparation for winter season. Hot temperatures held down milk production per cow. Light, scattered rain citrus growing areas. Record high temperatures depleting surface soil moisture rapidly. Moisture being maintained only by irrigation where available in an effort to prevent fruit softening. Fresh fruit harvest increased rapidly as many more packing houses opened for season. Varieties being packed include seedless grapefruit, Hamlin, Navel oranges, K-Early citrus fruit, Robinson tangerines. Caretakers continued mowing summer cover crops, disking to maintain soil moisture. Hot, becoming dry over vegetable producing areas. Crops mostly good condition. Supplies available include Pompano eggplant, cucumbers; west central cucumbers, squash; central sweet corn, radishes; Quincy tomatoes.

GEORGIA: Hot dry weather. Temperatures 10° above normal statewide. Maximum temperatures into 90s each day over central, south. Several record high temperatures over upper 90s late week and October 4th, 5th. Cooler air north State late weekend. Minimum temperatures, upper 40s and 50s morning October 6th. Sparse rainfall during week with much of State less than 0.25 in.

Days suitable for fieldwork 6.2. Soil moisture 29% very short, 64% short, 7% adequate. Corn 12% very poor, 45% poor, 32% fair, 11% good. Cotton 14% very poor, 25% poor, 57% fair, 4% good. Sorghum grain 5% very poor, 28% poor, 58% fair, 9% good.; 43% harvested. Peanuts 8% very poor, 27% poor, 46% fair, 17% good, 2% excellent; 36% dug, 94% 1985, 77% avg.; 25% threshed, 86% 1985, 62% avg. Soybeans 17% very poor, 23% poor, 56% fair, 4% good. Rye 16% planted, 18% 1985, 14% avg. Other small grains 1% planted, 18% 1985, 10% avg. Apples 14% poor, 62% fair, 24% good; 79% harvested, 86% 1985, 87% avg. Pecans 2% very poor, 14% poor, 64% fair, 20% good.; none harvested, 2% 1985. Pasture 2% very poor, 17% poor, 66% fair, 14% good, 1% excellent. Hay 2% very poor, 15% poor, 63% fair, 20% good. Cattle 2% poor, 63% fair, 35% good. Hogs 40% fair, 59% good, 1% excellent. Main activities: Harvesting soybeans, cotton, corn, hay and peanuts; overseeding fescue; spraying for insects; seeding small grains.

HAWAII: Weather hot, humid; occasional thundershowers. Winds generally easterly to southerly 5 to 20 mph. Temperatures ranged low 70s to low 90s. Rainfall ranged none to 3.80 in.

Days suitable for fieldwork 7.0. Weather favorable most crops. Hot temperatures hindered development leafy vegetables. Sugarcane harvesting active, rains beneficial crop progress. Banana, papaya harvesting seasonal increase. Macadamia nut, coffee harvest increasing.

IDAHO: Temperatures averaged 2 to 10° below normal north, 7 to 14° below normal south. Precipitation above normal.

Days suitable for fieldwork 3.0. Winter wheat planting active, behind normal. Potato harvest near midpoint. Third cutting alfalfa hay resumed after rain delays. Sugarbeet harvest picking up pace. Dry bean harvest normal 77% complete. Onion harvest behind normal 66% complete. Range, pasture good. Grazing adequate. Livestock good.

ILLINOIS: Temperatures averaged 2 to 4° below normal north, 4 to 8° above normal over rest of State. Precipitation generally greater than 2.00 in. to maximum of 8.01 in. Heaviest west central.

Days suitable for fieldwork 1.5. Soil moisture 17% adequate, 83% surplus. Pasture 13% fair, 57% good, 30% excellent. Major farm activities: Harvesting corn, soybeans, sorghum.

INDIANA: Temperatures averaged 6 to 12° above normal. Highs 80s to around 90s. Lows upper 30s, lower 40s. Precipitation generally ranged from 2.00 to 4.00 in. with up to 6.00 in. reported.

Fieldwork averaged 1.8 days. Topsoil moisture 1% short, 20% adequate, 79% surplus. Subsoil moisture 5% short, 40% adequate, 55% surplus. Corn 22% moisture content, soybeans 14% moisture content. Soybeans 80% mature, 80% 1985, 85% avg. Tobacco 98% harvested, 95% 1985, 92% avg. Winter wheat cropland 55% plowed, 55% 1985, 63% avg. Rye 30% complete, 40% 1985, 45% avg. Silos 94% filled, 90% 1985, 90% avg. Rainfall slowed harvest activities throughout State. Pasture fair to mostly good.

IOWA: Cloudy, mild, wet week. Rain most days; heaviest southeast, amounts to 4.93 in. Soggy fields, high streams, some flooding reported.

Days suitable for fieldwork 1.3. Topsoil moisture 11% adequate, 89% surplus; subsoil moisture 30% adequate, 70% surplus. Winter wheat seeded 26%, 38% 1985, 52% avg. Corn lodging 10% none, 60% light, 28% moderate, 2% heavy; ear droppage 10% none, 64% light, 26% moderate. Corn harvest very slow due to wet conditions. Soybeans lodging 13% none, 61% light, 23% moderate, 3% heavy; shattering 33% none, 53% light, 13% moderate, 1% heavy. Soybean harvest excellent progress northwest, elsewhere very slow. Soybeans with leaves turning 100%, 100% 1985, 100% avg.; mature 85%, 92% 1985, 84% avg. Livestock mostly good; muddy feedlots continued to cause some stress; no major disease problems.

KANSAS: Significant rains west, heavy central and northeast, record rainfall and major flooding southeast and east central. Precipitation averaged 0.33 in. northwest and west central, 1.50 in. southwest, 3.00 to 4.25 in. central and northeast, 14.82 in. southeast. Temperatures averaged 58 to 61° west and north central, 63 to 67° east and south central; 1 to 3° below normal west and north central, normal central and south central, 1 to 2° above normal east.

Days suitable for fieldwork 2.5, less than one day east. Topsoil moisture 15% short, 30% adequate, 55% surplus. Subsoil moisture 16% short, 53% adequate, 31% surplus. Harvest progress slowed greatly due to rain, flooding. Sorghum harvest behind schedule. Seed head sprouting some wet areas reducing usefulness of grain. Condition 3% very poor, 3% poor, 5% fair, 33% good, 56% excellent. Corn harvest halfway mark, slightly ahead schedule. Warm, dry weather needed to resume harvest. Condition 3% fair, 26% good, 71% excellent. Soybean harvest behind schedule, main producing areas drenched with rain, stopping harvest, produced floods. Extensive drying or freeze needed before harvest continues. Condition 1% poor, 43% good, 56% excellent. Wheat seeding hampered by wet weather, ahead schedule. Replanting necessary several counties when ground dries out. Leaf rust present southwest, could pose future problem. Range, pasture poor to fair west, good to excellent elsewhere. Feed grain, hay forage supplies adequate to surplus.

KENTUCKY: Temperatures averaged 10 to 14° above normal. Many areas reached at or above 90°. Cooler weather moved across 4th, reaching mid 50s to lower 60s. Warm, humid air covered region most of week providing fertile breeding ground for periodic thunderstorms. West, north received 1.50 to 2.00 in., some southeast locations measured less than 0.25 in. General rainfall came 4th as cold front swept across.

Days suitable fieldwork 4.5. Soil moisture 5% very short, 39% short, 51% adequate, 5% surplus. Flooding in Mississippi bottomland. Corn harvest active, yields highly variable. Late soybeans developing well, about 16% soybeans still entirely green. Fall wheat 21% seeded. Sorghum grain 40% harvested. Pastures improving, mostly fair to good.

LOUISIANA: Temperature 9 to 11° above normal. Temperature extremes 69°; 96°. Rainfall averaged 0.10 to 0.40 in.

Days suitable for fieldwork 5.5. Soil moisture 22% short, 72% adequate, 6% surplus. Soybeans 80% leaves turning color, 79% 1985, 80% avg. Sugarcane fair to good; 95% planted, 66% 1985, 79% avg. Sweetpotatoes 77% harvested, 74% 1985, 73% avg. Wheat 5% planted, 2% 1985, 6% avg.; 2% emerged, none 1985, 1% avg. Hay final cutting 93% complete, 90% 1985, 88% avg. Vegetables, pasture, livestock fair to good. Main activities: Baling hay; harvesting sweetpotatoes, soybeans, cotton; planting sugarcane, wheat, winter pastures.

MARYLAND & DELAWARE: Maryland: Temperatures averaged 13° above normal over State; lowest temperature 50° Salisbury; highest temperature 94° Hagerstown. Precipitation averaged 0.47 in., ranging from none Wye R.C., Royal Oak to 1.79 in. Oakland.

Days suitable for fieldwork 6.1. Topsoil moisture short. Subsoil moisture very short to short. Field corn fair. Field corn 51% harvested, 60% 1985, 50% avg.; 86% corn for silage harvested, 98% 1985, 95% avg. Soybeans fair. Soybeans 56% shedding leaves, 61% 1985, 57% avg.; 7% harvested, 2% 1985, 2% avg. Tobacco good. Tobacco 95% harvested, 99% 1985, 94% avg.; 1% stripped. Fall plantings: Wheat 7%, 55% 1985, 45% avg.; barley 33%, 54% 1985, 45% avg.; rye 39%, 55% 1985, 45% avg.; oats 4%, 45% 1985, 32% avg. Wheat good. Barley, rye, oats, fair. Apples good. Apples 64% harvested, 85% 1985, 70% avg. Pasture fair. Hay supplies short.

Delaware: Temperatures averaged 10° above normal over State; lowest temperature 56° Georgetown; highest temperature 92° Milford. Precipitation averaged 0.80 in. ranging from none Georgetown to 2.68 in. Wilmington.

Days suitable for fieldwork 6.8. Topsoil moisture very short. Subsoil moisture very short to short. Field corn poor. Field corn 49% harvested, 67% 1985, 55% avg.; 99% corn for silage harvested, 96% 1985, 96% avg. Soybeans fair. Soybeans 49% shedding leaves, 62% 1985, 51% avg. Barley 17% planted, 17% 1985, 32% avg. Rye 28% planted, 22% 1985, 18% avg. Apples good. Apples 50% harvested. Alfalfa 5th cutting 12% harvested. Pastures poor to fair. Hay supplies very short to short.

MICHIGAN: Temperatures ranged 2° below to 9° above normal. Above normal Lower Peninsula. Temperature extremes 31°; 87°. Precipitation ranged from 0.70 to 5.70 in. across State.

Days suitable for fieldwork 0.5. Soil moisture 100% surplus. Corn 50% mature, 85% 1985, 90% avg.; 1% harvested, 5% 1985, 5% avg. Soybeans 80% shedding, 90% 1985, 96% avg.; 1% harvested, 4% 1985, 10% avg. Winter wheat 5% planted, 40% 1985, 45% avg.; 3% emerged. Dry beans 7% harvested, 60% 1985, 60% avg. Fourth consecutive week heavy rains further deteriorated crops. Little fieldwork. Apple, vegetable picking between rains, silage, potato harvesting on high, sandy ground.

MINNESOTA: Temperatures averaged near normal to 2° below normal for State. Temperature extremes 25°; 78°. Precipitation averaged 0.42 to 0.71 in. above normal southeast, south central; near normal

to 0.54 in. below normal elsewhere. Greatest weekly total 2.24 in.

Days suitable for fieldwork 3.1. Topsoil moisture 1% short, 26% adequate, 73% surplus. Improved weather conditions allowed most fieldwork since first week in September. Silo filling generally very active even though getting stuck routine. There may be some damage to dry beans because of rains. Sweet corn harvest virtually complete. Wet conditions caused stem rot, some rotting of soybeans in pods. Mold observed ends of some corn ears. Field corn 38% cut for silage, 42% 1985, 67% avg. Soybeans 71% mature, 75% 1985, 81% avg. Dry edible beans 62% harvested, 49% 1985, 60% avg. Potatoes 68% harvested, 69% 1985, 74% avg. Sweet corn 98% harvested for processing, 98% 1985, 98% avg. Flax 61% harvested, 48% 1985, 74% avg. Sunflowers 5% harvested, 2% 1985, 10% avg. Winter wheat 90% seeded for 1987 crop, 74% 1985, 91% avg. Rye 85% seeded for 1987 harvest, 76% 1985, 92% avg. Sugarbeets 37% harvested, 40% 1985, 25% avg. Small grain, hay 64% stubble plowed, 54% 1985, 70% avg.

MISSISSIPPI: Temperatures 10 to 15° above normal, extremes 64°; 96°. Second straight week of high pressure responsible for unseasonably warm temperatures, lack of rainfall. Rainfall averaged 0.20 in. statewide. Greatest 24-hour total 1.45 in.

Days suitable for fieldwork 6.2, 3.0 1985, 4.7 avg. Soil moisture 28% very short, 62% short, 10% adequate. Corn 4% poor, 32% fair, 55% good, 9% very good; 95% harvested, 90% 1985, 77% avg. Hay 94% harvested, 92% 1985, 94% avg. Sweetpotatoes 73% harvested, 65% 1985, 55% avg. Peanuts 85% harvested, 80% 1985, 71% avg. Wheat 14% planted, 14% 1985, 14% avg.

MISSOURI: Temperatures averaged 4 to 12° above normal. Rainfall of up to 13.00 in. over a wide band from southwest to north of St. Louis, flooding over entire area of heavy rainfall. Elsewhere rainfall averaged from 1.00 to over 3.00 in.

Days suitable for fieldwork 1.0. Soil moisture 8% short, 14% adequate, 78% surplus. Pasture 7% poor, 26% fair, 59% good, 8% excellent. Fall tillage completed 6%, 16% 1985, 15% normal. Significant fieldwork occurred only in southeast area of State.

MONTANA: Most precipitation midweek. Along front range, extreme south 1.00 to 2.00 in. northeast, southeast, central moderate precipitation; elsewhere lesser amounts. Temperatures southwest, central 5 to 7° below normal. East 3 to 5° below; west 1 to 3° below normal.

Days suitable for fieldwork 1.3. Topsoil moisture 32% adequate, 68% surplus. Subsoil moisture 1% short, 66% adequate, 33% surplus. Barley harvested 86%, 100% 1985, 100% avg. Potatoes harvested 45%, 40% 1985, 40% avg. Second cutting alfalfa hay 90%, 90% 1985, 95% avg. Cattle, calves moved from summer ranges 50%, 70% 1985, 55% avg. Sheep, lambs moved 60%, 75% 1985, 60% avg.

NEBRASKA: Amounts averaged from 0.50 to 1.00 north to 1.00 to 1.50 south. Temperatures ranged 8° below normal Panhandle, 3° below normal elsewhere. Temperature extremes 31°; 73°.

Days suitable for fieldwork 3.4. Topsoil moisture 3% short, 35% adequate, 62% surplus. Subsoil moisture 4% short, 60% adequate, 36% surplus. Corn mostly good to excellent. Ear droppage, ear mold reported, warm drying weather needed. Soybeans mostly good to excellent. Mold on pods, discoloration of beans causing concern northeast. Sorghum good to excellent. Winter wheat mostly good. Wet soils delayed planting eastern areas. Pasture, range feed supplies mostly adequate. Weaning of calves western areas.

NEVADA: Low pressure systems kept temperatures well below normal all areas. Weekly recordings averaged 10 to 11° below normal, overall range 7 to 13° fairly narrow. Freezing temperatures common except extreme south. Lowest reading 17°. Precipitation widespread, several inches snow northern mountains some reached valley floors.

Potato harvest well along. Alfalfa seed, small grain combining windup stage. Late cuttings alfalfa hay still in progress high elevation valleys central, north. Onion harvest about completed. Garlic, winter grain seeding in progress.

NEW ENGLAND: Mild week with no frost except across northern Maine. Temperatures averaged 4 to 8° below normal. High temperatures around midweek reached summertime levels. Precipitation for week averaged between 0.50 in. southern New Hampshire and coastal Maine, 2.50 in. across western Massachusetts.

Potato harvest continued as conditions permit in Aroostook County, Maine. Potato harvest almost complete in Rhode Island, planting and emergence of cover crops good. Apple picking, chopping of silage continued as conditions permit.

NEW JERSEY: Temperatures averaged much above normal. Extremes 41°; 90°. Rainfall averaged 0.73 in. north, 0.47 in. central, 0.76 in. south. Heaviest 24-hour total 1.42 in. on 1st, 2nd. Estimated soil moisture percent field capacity averaged 81% north, 75% central, 79% south. Four inch soil temperatures averaged 66° north, 69° central, 71° south.

Harvest of summer vegetables neared completion. Marketing of fall vegetables active. Wet conditions some areas delayed harvest of Irish potatoes, sweetpotatoes. Cranberry, apple picking active. Combining of soybeans, corn for grain increased. Corn silage making well advanced. Fall sown grains, cover crops growth good. Seeding active. Pasture growth aided by above normal temperatures.

NEW MEXICO: Average weekly temperatures 5 to 8° below normal northwest, few degrees above normal southeast plains. Rain over virtually entire State. Some snow higher elevations northern mountains. Precipitation totals to 2.70 in. central valleys, from trace to above 1.00 in. elsewhere.

Days suitable for fieldwork 6.3. Soil moisture 11% short, 78% adequate, 11% surplus. Hail damage 86% none, 14% moderate. Alfalfa 14% poor, 29% fair, 57% good. Corn 20% fair, 80% good. Barley 33% fair, 67% good. Irrigated wheat 40% fair, 60% good. Dryland wheat 45% fair, 55% good. Irrigated grain sorghum 30% fair, 70% good. Dryland grain sorghum 50% fair, 50% good. Pecans 10% fair, 75% good, 15% excellent. Chile 100% good. Cattle 10% fair, 90% good. Sheep 5% fair, 95% good. Range 20% fair, 80% good.

NEW YORK: Temperatures averaged 5 to 10° above normal. Rainfall averaged near 3.00 in. western plateau, Great Lakes region. Generally amounts decreased towards east. Persistent frontal system dominant feature for much of week.

Days suitable for fieldwork 3.5. Third cut alfalfa 68%, 75% 1985, 76% avg. Dry bean harvest continued behind normal. Corn silage harvest 26%, 39% 1985, 48% avg. Pastures mostly good. Soil moisture surplus to excessive. Apple growers busy cleaning up Red Delicious, Empire crops. Concord grape harvest neared completion.

NORTH CAROLINA: Temperatures averaged 8 to 12° above normal, statewide. Temperature extremes 55°; 96°. Precipitation ranged from none to 0.37 in.

Days suitable for fieldwork 6.5. Soil moisture 51% very short, 42% short, 7% adequate. Corn grain harvest average. Corn silage harvested 94%, 95% 1985, 94% avg. Cotton mostly fair, harvest slightly behind average. Soybeans mostly fair, leaves dropping. Sorghum 6% very poor, 23% poor, 53% fair, 18% good; harvested 42%, 45% 1985, 49% avg. Flue-cured tobacco harvested 92%, 97% 1985, 97% avg. Burley tobacco harvested 97%, 98% 1985, 96% avg. Peanuts 4% poor, 52% fair, 44% good; dug 55%, 58% 1985, 40% avg.; threshed 33%, 32% 1985, 24% avg. Sweetpotatoes 7% poor, 63% fair, 27% good, 3% excellent; harvested 32%, 47% 1985, 43% avg. Apples 10% very poor, 20% poor, 30% fair, 40% good; harvested 71%, 77% 1985, 73% avg. Pasture 11% very poor, 29% poor, 52% fair, 8% good. Major farm activities: Harvesting tobacco, hay, corn, vegetables, apples, cotton, sorghum; cutting corn silage; spraying cabbage, Christmas trees; marketing tobacco; digging sweetpotatoes, strawberry plants; digging, threshing peanuts; tending livestock; mowing; preparing land for small grains; planting pastures, small grains; defoliating cotton; general farm maintenance.

NORTH DAKOTA: Cool, wet weather. More sunshine than past 2 weeks. Temperatures averaged 1 to 5° below normal. Extreme temperatures low 28° north central 28th, high 76° northeast 28th, 29th. All districts received rainfall; lightest southeast, heaviest northeast.

Days suitable for fieldwork 3.1. Topsoil moisture wettest on record at 75% adequate, 25% surplus. High moisture conditions slowed harvest progress of late season crops, completion of small grain harvest. Very little small grains combined last week due to high moisture. Harvest behind normal, last year for all crops except potatoes. Most small grain left to harvest showed sprout damage. Combining progress: Hard red spring wheat 91%, 95% 1985, 99% avg.; durum wheat 87%, 88% 1985, 98% avg.; flax 41%, 58% 1985, 82% avg.; dry beans 42%, 45% 1985, 74% avg.; sunflower none, 1% 1985, 9% avg. Potatoes dug 83%, 65% 1985, 77% avg. Sugarbeets lifted 41%, 48% 1985, 29% avg. Main activities fall tillage, fertilizer application, working livestock.

OHIO: No weather data available.

Fieldwork 1.6 days suitable. Soil moisture 2% short, 22% adequate, 76% surplus. Most field activity halted by midweek rains. Saturated soils limited fieldwork 7 to 10 more days in wettest areas. Weakened corn stalks, lodged soybeans, sprouting corn, molding beans potential problems unless weather, harvest conditions improve. Winter wheat seeding slow, some fields seeded from air. Hay, pastures fair to good.

OKLAHOMA: Temperatures averaged 1° below normal Panhandle to 9° above normal southeast. Precipitation averaged 1.10 in. Panhandle to 11.72 in. north central.

Days suitable for fieldwork 1.9. Topsoil moisture 10% short, 20% adequate, 70% surplus. Subsoil moisture 10% short, 90% adequate. Widespread flooding occurred after heavy rains. Wheat 20% poor, 45% fair, 30% good, 5% excellent; 65% planted, 60% 1985, 45% avg.; 30% emerged, 30% 1985, 20% avg. Sorghum 3% poor, 15% fair, 82% good; 75% mature, 90% 1985, 75% avg.; 10% harvested, 25% 1985, 20% avg. Cotton 80% fair, 20% good; 35% open bolls, 85% 1985, 65% avg.; 1% harvested, 5% 1985, 3% avg. Row crop damaged by flood waters, extent unknown. Pastures good; forage supplies surplus south, east. Livestock good; marketings average, prices up slightly from last week.

OREGON: Normal temperatures all sections early week. Clear skies end of week raised daytime

highs, reduced overnight lows resulting in cooler than average temperatures. Biggest departures east of Cascades. Heaviest precipitation northern sections. Southern half of State enjoyed mostly sunny skies during week. Central, north coast and northwest interior 0.50 to 0.67 in. of precipitation. Southern areas minor rainfall from isolated showers.

Soil moisture 7% short, 66% adequate, 27% surplus. Field work progressed rapidly during week east. Clear weather end of week enabled field work to restart west. Fall seeding in full swing east, underway west. Silage corn harvest continued west, southwest. Hay baling, cutting proceeded rapidly with dry weather east. Carrot seed harvest neared completion central area. Some late dry beans, alfalfa seed, sugarbeets harvested Malheur County. Wine grape harvest underway west. Winter pears harvested Willamette Valley; finished Medford, lower Hood River Valley; upper Hood River Valley continued to pick. Apple harvest neared completion Milton-Freewater, full swing west, lower Hood River Valley, getting underway upper Hood River Valley. Filberts continued to drop, main harvest activity awaits drier weather Willamette Valley. Fall herbicides sprayed on strawberries west. Cranberry harvest in progress southern coast, good to excellent color. Onion harvest near completed southwest. Many onions lifted but still in fields Willamette Valley. Malheur County onion harvest resumed with improved weather. Onion harvest slowed due to rain Umatilla County. Potato harvest started central region, full swing Klamath Basin, continued Malheur County. Broccoli, cauliflower harvests continued west, also last of sweet corn. Livestock, range, pasture mostly good. Newly seeded pastures good west, some planting remains. Sub clover coming in very good. Ranges, pastures greening up with recent rains. Most cattle off summer ranges east.

PENNSYLVANIA: Summer-like temperatures, showers, thunderstorms common around State. Some small stream flooding occurred western areas late week. Average temperature 68°, 10° above normal. Temperature extremes 43°; 92°. Average precipitation 2.01 in., 0.76 in. above normal.

Days suitable for fieldwork 3.0. Soil moisture 22% short, 45% adequate, 33% surplus. Corn 100% dented, 97% 1985, 95% avg.; 69% mature, 65% 1985, 60% avg.; 13% harvested, 13% 1985, 7% avg. Ensilage corn harvested 69%, 63% 1985, 65% avg. Soybean harvest 15% complete, 14% 1985, 13% avg. Soybeans 5% poor, 21% fair, 52% good, 22% excellent. Potato harvest 85% complete, 86% 1985. Apple harvest 64% complete, 64% 1985. Grape harvest 64% complete, 75% 1985. Fall plowing 82% complete, 74% 1985. Fall barley planting 79% complete, 72% 1985. Fall wheat planting 54% complete, 48% 1985. Third cutting alfalfa 96% complete, 96% 1985. Fourth cutting alfalfa 52% complete, 62% 1985. Quality of hay made fair to poor. Amount of feed being obtained from pastures average. Activities: Making hay, haylage; harvesting soybeans, corn, apples, grapes, corn silage, potatoes, other vegetables; fall plowing; fall planting wheat, barley, alfalfa.

PUERTO RICO: No Data Available.

SOUTH CAROLINA: Temperatures reached record levels many cities, averaging 10 to 12° above normal. Little or no rainfall most areas.

Days available for fieldwork 6.1. Soil moisture 54% very short, 46% short. Cotton open bolls 94%, 95% 1985, 90% avg.; 17% harvested, 38% 1985, 26% avg.; 50% very poor, 38% poor, 6% fair, 6% good. Soybeans leaves turning 55%, 51% 1985, 58% avg.; 27% leaves shedding, 24% 1985, 28% avg.; 17% mature, 13% 1985, 9% avg.; 12% very poor, 36% poor, 45% fair, 7% good. Tobacco harvested 100%; 71%

stalks destroyed, 64% 1985, 73% avg. Peanuts poor to fair; 13% harvested, 40% 1985, 49% avg. Corn poor; 93% harvested, 91% 1985, 93% avg. Apples fair to good; 60% harvested, 89% 1985, 86% avg. Pastures poor to fair, hay fair. Hot, dry weather continued to plague most crops.

SOUTH DAKOTA: Average temperatures ranged 8° below to 3° above normal. Extremes 25°; 85°. Black Hills low 19°. Precipitation widespread; above normal west, central, below normal east. Black Hills 6.00 to 12.00 in. snowfall.

Days suitable for fieldwork 3.2. Topsoil moisture surplus eastern one-third, adequate remainder; 59% adequate, 41% surplus. Subsoil moisture surplus eastern one-third, adequate remainder; 7% short, 65% adequate, 28% surplus. Crops mostly good. Hot, dry weather needed to help row crop maturity. Grain harvest slowed by cool, wet weather. Silage cutting continued. Heavy rains washed fields, slowed winter grain seeding. Range, pastures, livestock good to excellent. Feed, stockwater supplies adequate to surplus.

TENNESSEE: Temperatures averaged 10° above normal. Rains statewide, amounts varied.

Days suitable for fieldwork 5.7. Soil moisture 12% very short, 49% short, 39% adequate. Corn 60% harvested, 55% 1985, 40% avg. Burley tobacco 90% harvested, 100% 1985, 98% avg.; dark fired 90%, harvested, 100% 1985, 96% avg.; dark air-cured 90%, harvested, 100% 1985, 97% avg. Wheat 13% seeded, 14% 1985, 17% avg. Cattle fair to good. Pastures mostly fair to good. Excellent cotton harvest progress.

TEXAS: First part week tropical moisture clashed with weak cold front High Plains. Front pushed through Panhandle, became stationary around midweek, extending into northeast Oklahoma west to Permian Basin. Tropical moisture enforced with remnants of Pacific hurricane caused excessive rainfall southern High Plains, Rolling Plains. South, east remained under Gulf flow influence, few coastal thunderstorms developed. Rainfall totals well above normal western, northern areas, southern Low Plains. Totals below normals across south, northeast. Precipitation slightly above normals southeast. Temperatures Panhandle, Low Plains below average. Elsewhere, temperatures near or above normals. Higher departures east southward through Coastal Bend.

Crops: Some high moisture corn harvested High Plains. Lodging high winds, rain problem. Above average yields corn harvested. Harvest winding down east. Harvest continued Edwards Plateau. Grain sorghum harvest northern High Plains delayed because weather conditions. Some smut problems. Harvest Edwards Plateau moved at good pace, winding down soon. Central harvest still underway. Cool, wet conditions slowed cotton development to nearly standstill Plains. Decreased yields expected. High humidity Blacklands hurt some fields. Good crop expected east. Cotton opening rapidly Edwards Plateau under hot weather. Cool temperatures Trans-Pecos slowed maturity. Small grain stands High Plains look good, benefiting from rain. Wheat planting virtually complete Plains. Armyworms damaged wheat Blacklands, problem beginning southern Low Plains. Excellent stands wheat east. Wind, dry weather slowed planting Edwards Plateau, south central. Rain needed south. Very little first crop rice left for harvest. Harvest of second crop rice began. Peanut harvest Cross-Timbers delayed by rain, harvest Blacklands active. Harvest started Edwards Plateau, good yields reported. Average yields south, south central. Peanut harvest started Plains as weather permitted. Harvested 24%, 20% 1985, 22% avg. Wet fields Upper Coast delayed soybean harvest. Yields expected to be lower than normal. Harvest continued south

central. Harvested 35%, 14% 1985, 14% avg. Other crops harvested: Sunflowers 14%, 40% 1985, 34% avg. Sugarbeets 4%, 1% 1985, 5% avg. Pecans 8%, none 1985, none avg. Other crops planted: Oats 45%, 33% 1985, 35% avg.

Commercial Vegetables: Rio Grande Valley vegetable planting continued, some irrigation. Cucumber harvest continued. Early lettuce fields up, adversely affected by high, drying winds. San Antonio-Winter Garden, planting continued. Warmer weather adversely affected some crops. Most planted fields good growth. East sweetpotato harvest progressed well. Good stands vegetables. High Plains wet conditions slowed carrot harvest. Pumpkin harvest moved along good pace. Watermelon harvest winding down, pepper harvest slowed. Trans-Pecos cabbage planted. Harvest tomatoes, chili peppers continued. Pecan harvest increased south central, poor crop expected. Pecans maturing earlier than usual Plains, short crop also expected. Harvest activity increased Blacklands, east, south; started Edwards Plateau. Ground prepared for harvest Trans-Pecos.

Range and Livestock: Pastures benefited from rains over much of State; pastures south could use rain. Livestock good. Cattle market remains basically active, strong, some prices weakened northern High Plains, south.

UTAH: Precipitation light to moderate south, moderate to heavy central, very heavy north. Temperature maximums 12 to 22° below normal, minimums 4 to 12° below normal.

Days suitable fieldwork 2.6. Soil moisture 47% adequate, 53% surplus. Winter wheat 82% seeded, 75% 1985, 73% avg. Corn 75% mature, 75% 1985, 77% avg. Corn silage 60% harvested, 78% 1985, 65% avg.; corn grain 9% harvested; alfalfa 3rd cutting 83% harvested, 42% 1985, 33% avg.; alfalfa 4th cutting 38% harvested, 19% 1985; apples 79% picked, 38% 1985, 30% avg.; onions 44% harvested, 69% 1985, 56% avg.; potatoes 51% harvested, 36% 1985, 43% avg. Ranges good, movement from summer range--cattle 42%, sheep 52%. Livestock generally good.

VIRGINIA: Hot, dry. Average rain 0.21 in. Record breaking high temperatures, averaged 12° above normal.

Days suitable for fieldwork 6.3. Topsoil moisture 92% short, 8% adequate. Most areas extremely dry. Corn silage harvest 76% complete, 93% 1985, 92% avg. Grain corn harvest 51% complete, 56% 1985, 54% avg. Mature corn slow to dry, some areas. Soybeans poor to fair. Late season soybeans sustaining damage from lack of rain. Little acreage harvested. Peanuts good. Dry conditions slowed maturity. Peanuts 54% dug, 52% 1985, 58% avg. Peanuts 28% combined, 32% 1985, 36% avg. Flue-cured tobacco harvest 80% complete, 91% 1985, 93% avg. Burley tobacco harvest 92% complete, 99% 1985, 99% avg. Small grain seeding slowed by dryness. Oats 30% seeded, 28% 1985, 44%

avg. Barley 32% seeded, 25% 1985, 36% avg. Wheat 14% seeded. 7% 1985, 12% avg. Pastures declined, now fair. Late hay cutting. Seeding pasture, hay land. Market feeder cattle. Sweetpotato harvest 85% complete, ahead of normal.

WASHINGTON: Scattered rain, cool statewide. Weekly precipitation above normal. Range none to 1.08 in. Temperatures averaged 1 to 9° below normal.

Days suitable for fieldwork 5.2. Soil moisture 15% short, 85% adequate. Winter wheat 68% planted, 72% 1985, 69% avg. Winter wheat 55% emerged, 45% 1985, 50% avg. Fruit, vegetable harvests continued. Range, pasture 50% short, 50% adequate. Hay supplies mostly adequate to surplus.

WEST VIRGINIA: Temperatures averaged 13° above normal. Temperature extremes 42° Gary; 93° Martinsburg. Average temperature 72°. Precipitation above normal, except south, northeast. Average precipitation 1.28 in.

Days suitable for fieldwork 3.6. Soil moisture 20% very short, 16% short, 44% adequate, 20% surplus. Fall seeding: Wheat 40% complete; barley 49%.

WISCONSIN: Temperatures averaged 56°, 2° above normal; low 32°, high 79°. Rainfall 0.20 to 2.50 in.

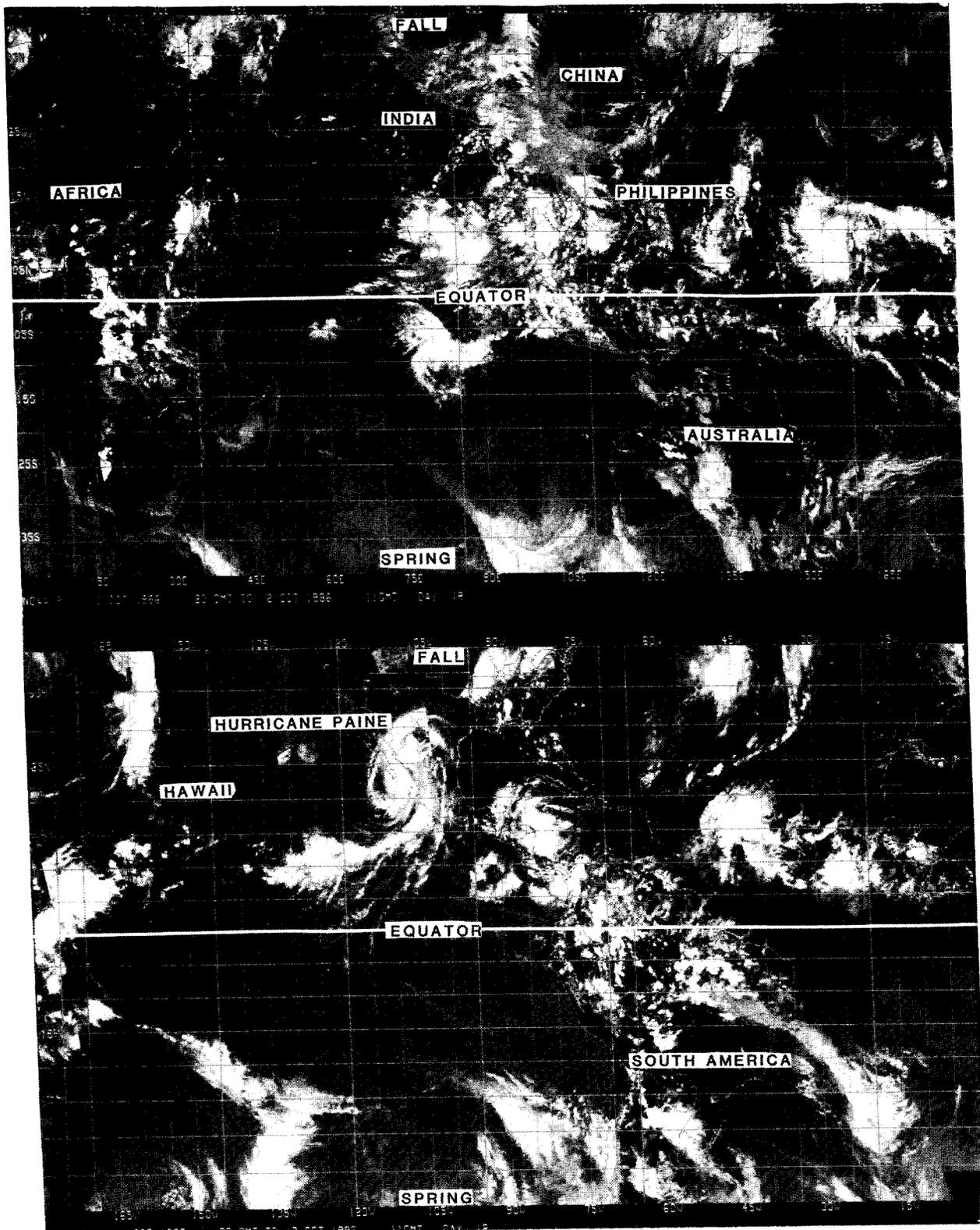
Days suitable for fieldwork 1.5. Soil moisture 9% adequate, 91% surplus. Soggy ground halted fieldwork. Dry weather needed for fieldwork, harvesting. Crops 1% very poor, 5% poor, 11% fair, 72% good, 11% excellent. Corn 1% very poor, 2% poor, 12% fair, 65% good, 20% excellent. Corn mature 70%, 78% 1985, 92% avg. Some corn sprouting, mold due to warm, wet days. Corn harvest 2% complete, 6% 1985, 6% avg. Corn silo filling 22%, 37% 1985, 47% avg. Soybeans leaves dropping 69%, 68% 1985, 68% avg. Soybean harvest 1% complete, 2% 1985, 7% avg. Hay green, growing but too wet to cut. Fall plowing 10% complete, 13% 1985, 14% avg. Sweet corn harvest nearly over, difficult to complete.

WYOMING: Cool, wet week. Temperatures well below normal. Precipitation above normal.

Days suitable for fieldwork 3.0. Topsoil moisture 5% short, 72% adequate, 23% surplus. Most barley, spring wheat harvested. Oats mature 5%, 5% 1985; harvested 95%, 95% 1985. Corn for grain dough stage 5%, 5% 1985; dented 50%, 25% 1985; mature 45%, 60% 1985; little harvested, 10% 1985, 10% avg. Corn silage harvested 85%, 90% 1985, 85% avg. Potatoes harvested 65%, 60% 1985, 60% avg. Dry beans combined 80%, 80% 1985, 75% avg. Sugarbeets dug 30%, 20% 1985, 15% avg.; average sugar content 15.3%. Winter wheat planted for 1987 95%, 95% 1985, 95% avg.; emerged 75%, 80% 1985, 75% avg., mostly good condition. Fall winter grazing prospects mostly good. Stockwater adequate most areas.

GLOBAL WEATHER SATELLITE IMAGE

October 1-2, 1986



International Weather and Crop Summary

September 1986

September 28 - October 4, 1986

MONTHLY DATA FROM SELECTED FOREIGN CITIES
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
*** = DATA NOT AVAILABLE

HIGHLIGHTS:

UNITED STATES ... Rain across the central Great Plains and through the Corn Belt hampers winter wheat seeding and row crop harvesting. Flooding damages crops in some areas. Dry weather continues in the Southeast and delays winter wheat seeding.

U.S.S.R. ... Continued unseasonably cool weather in Western U.S.S.R.'s north slows winter grain establishment. Minimal rain and cold weather in the south hampers winter grain emergence.

EUROPE ... Dry weather in France and northern Europe helps summer crop harvesting and winter grain planting. Topsoil moisture in parts of the southeast remains unfavorably low for winter grain emergence and early establishment.

SOUTH ASIA ... Showers benefit cotton, groundnuts, and rice in southern India. Rain in eastern India benefits grain-filling rice but causes flooding.

EASTERN ASIA ... Dry weather over the North China Plain helps cotton harvesting and winter wheat planting. Rain is needed for winter wheat emergence and autumn establishment.

MEXICO ... Tropical showers cover southern and western Mexico. Hurricane Paine dissipates over northwestern Mexico.

CANADA ... Cold, wet weather hampers the Prairie grain harvest.

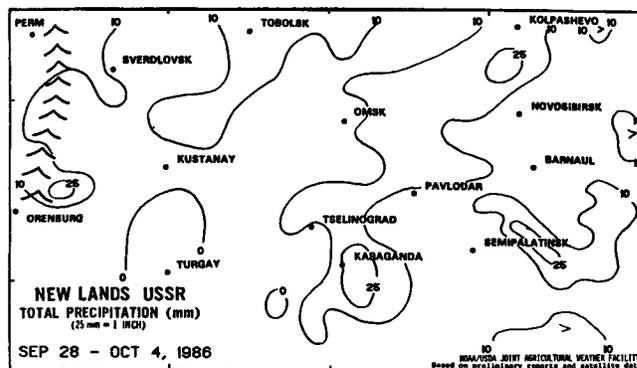
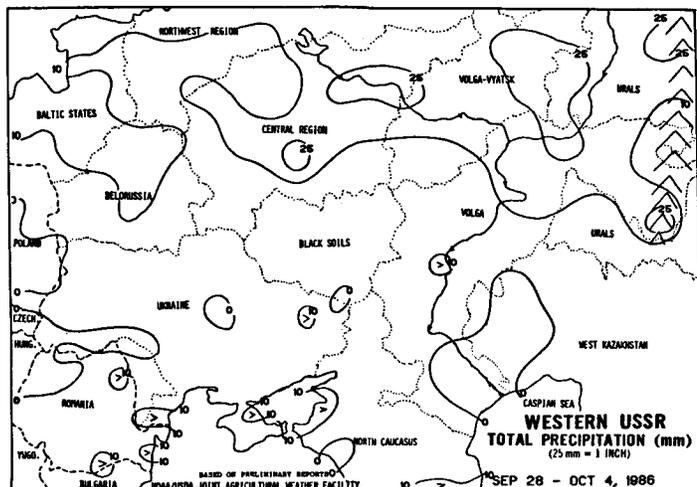
SOUTHEAST ASIA ... Scattered, heavy showers benefit upland crops in southeast Thailand but northern and central rice areas receive only light rain.

SOUTH AMERICA ... Rain moistens topsoils for summer crop planting and wheat growth in Argentina. Drier weather favors wheat development in southern Brazil while showers help stressed coffee trees further north.

AUSTRALIA ... Moderate to heavy showers benefit grain-filling wheat throughout eastern Australia.

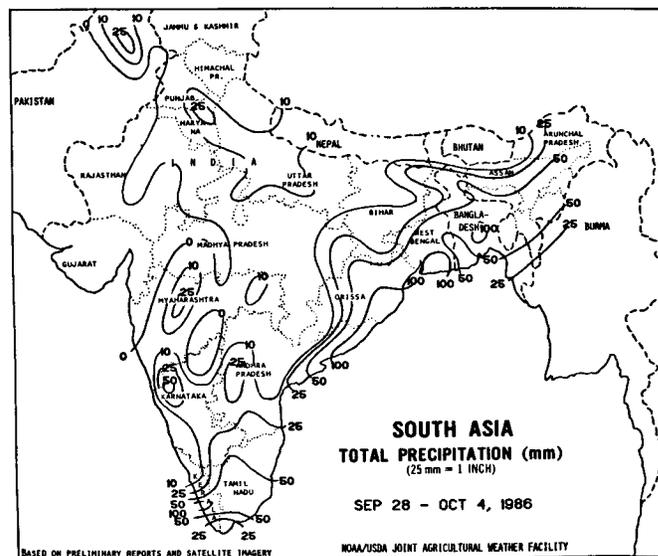
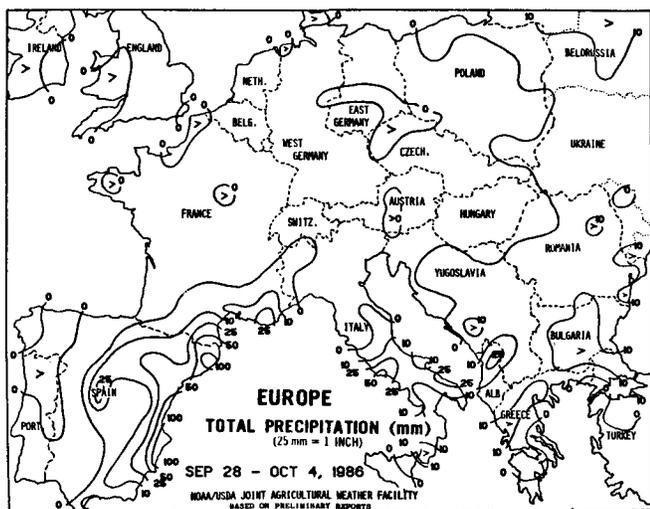
COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI	LO	DPART F/NRM	TOTAL	DPART F/NRM	
NORWAY	OSLO	13	2	18	-6	7	-2.2	23.6	-68.3
SWEDEN	STOCKHOLM	13	4	17	-4	9	-3.2	35.8	-16.9
FINLND	HELSINKI	12	3	17	-7	7	-3.2	72.2	3.0
U KING	GLASGOW	15	6	19	-1	11	-2.3	27.4	-70.4
	EDINBURGH	15	6	20	-1	11	-1.6	30.8	-27.4
	BIRMINGHAM	17	6	21	-1	11	-2.1	17.3	-38.7
	LONDON	17	6	21	1	12	-2.1	48.0	-27.3
IRELND	DUBLIN	16	8	20	3	12	-1.2	3.1	-70.3
ICELND	REYKJAVIK	10	5	12	2	7	-0.7	32.7	-34.7
DENMRK	COPENHAGEN	15	7	18	2	11	-2.8	44.8	-17.2
LUXEMB	LUXEMBOURG	16	8	23	4	12	-1.9	92.0	31.5
SWITZL	ZURICH	19	10	26	5	15	0.6	30.6	-59.8
	GENEVA	22	10	30	4	16	1.1	61.2	-28.9
FRANCE	PARIS	19	7	23	3	13	-2.4	54.3	4.9
	STRASBOURG	19	9	27	4	14	-0.9	132.2	82.1
	BOURGES	21	9	27	4	15	-0.8	72.3	8.3
	BORDEAUX	24	12	30	6	18	1.0	86.0	3.7
	TOULOUSE	26	13	31	7	20	1.8	33.0	-22.6
	MARSEILLE	26	16	30	12	21	1.2	48.8	-8.5
SPAIN	VALLADOLID	25	13	33	7	19	1.3	70.1	40.3
	MADRID	27	14	34	8	21	0.4	26.2	-7.0
	SEVILLE	31	19	37	15	25	1.4	13.6	-4.3
E GRMY	LEIPZIG	17	8	22	3	13	-1.5	30.1	-15.1
	DRESDEN	16	9	23	3	13	-1.9	61.4	13.4
W GRMY	HAMBURG	16	8	18	1	12	-1.9	57.2	-10.9
	BERLIN	16	9	23	5	13	-1.8	51.2	1.0
	DJSSELDORF	17	8	22	3	13	-2.4	56.0	-6.0
	STUTTGART	19	7	27	2	13	-1.3	92.5	32.8
	NURNBERG	18	7	25	0	13	-1.1	52.6	4.2
	MUNICH	19	7	27	1	13	-0.5	32.2	-40.9
AUSTRI	VIENNA	21	10	28	3	15	-0.2	32.1	-20.0
	INNSBRUCK	21	9	27	4	15	0.7	40.9	-39.4
CZECH	PRAGUE	17	8	24	1	13	-0.8	22.0	-18.1
POLAND	WARSAW	15	9	22	-1	12	-1.3	59.4	18.3
	LODZ	15	8	22	1	12	-1.3	50.3	-2.8
	KATOWICE	16	9	24	2	12	-0.6	32.7	-19.4
	PRZEMYSL	17	10	28	2	14	0.0	23.8	-31.8
HUNGAR	BUDAPEST	24	10	30	5	17	0.4	0.5	-36.2
YUGOSL	SARAJEVO	23	7	31	2	15	0.6	5.7	-96.4
ROMANI	BUCHAREST	26	10	36	1	18	0.2	30.1	-7.4
BULGAR	SOFIA	25	12	32	4	18	1.9	27.1	-10.5
ITALY	MILAN	24	14	28	9	19	0.8	22.2	-46.5
	VERONA	26	14	29	10	20	1.5	47.8	-17.2
	VENICE	24	13	27	9	19	-0.5	31.2	-31.2
	GENOA	25	19	30	16	22	-0.6	109.0	-5.8
	ROME	26	16	28	11	21	-0.1	17.8	-49.5
	NAPLES	28	16	33	12	22	1.9	56.3	-31.0
GREECE	THESSALONIKA	28	15	34	9	21	-0.7	34.0	1.5
	LARISSA	28	14	35	9	21	-1.0	9.0	-29.7
	ATHENS	28	20	34	18	24	-0.5	0.0	-14.4
TURKEY	ISTANBUL	25	17	30	11	21	1.4	11.2	-29.8
	ANKARA	25	11	32	4	18	0.1	52.7	15.7
CYPRUS	LARNACA	31	21	36	8	26	0.8	2.0	-3.1
USSR	TALLINN	12	5	16	-4	8	-2.8	138.3	67.5
	LENINGRAD	11	6	17	-2	9	-2.5	90.1	30.9
	KAUNAS	14	7	17	-2	10	-1.9	79.6	25.2
	MINSK	13	7	17	-2	10	-2.0	73.4	24.3
	KAZAN	14	5	24	-3	10	-1.3	81.7	39.7
	MOSCOW	12	5	19	-3	9	-2.1	78.2	14.9
	SVERDLOVSK	13	4	22	-4	9	-1.2	44.4	8.6
	OMSK	15	5	24	-4	10	-1.1	15.7	-9.1
	KUSTANAY	19	6	30	-3	12	0.4	18.9	-7.6
	KRASNOYARSK	16	4	26	-3	10	1.3	30.5	-11.4
	NOVOSIBIRSK	15	5	21	0	10	-0.3	16.0	-17.0
	BARNAUL	17	5	25	0	11	-0.3	13.5	-14.5
	KHABAROVSK	19	8	25	0	14	0.3	78.9	-18.2
	VLADIVOSTOK	19	12	24	5	16	0.1	85.5	-48.4
	KIEV	17	8	28	-2	12	-1.3	22.0	-26.0
	LVOV	17	8	29	0	13	-0.2	12.0	-42.3
	KIROVOGRAD	22	9	31	-5	15	1.2	2.7	-33.3

COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)				COUNTRY CITY	TEMPERATURE (C)					PRECIPITATION (MM)			
	AVG MAX	AVG MIN	HI	LO	DPART	DPART F/NRM	TOTAL	DPART F/NRM	AVG MAX		AVG MIN	HI	LO	DPART	DPART F/NRM	TOTAL	DPART F/NRM		
USSR	ODESSA	23	12	31	6	17	0.6	1.3	-38.5	GABON	LIBREVILLE	27	23	30	21	25	-0.4	13.4	-92.7
	YALTA	24	16	29	8	20	0.6	8.8	-25.2	TOGO	LOME	30	22	32	21	26	0.3	87.6	39.7
	VORONEZH	16	7	25	-4	11	-1.5	37.8	-5.7	B FASO	OUAGADOUGOU	31	22	36	20	27	-0.2	136.0	-20.6
	SARATOV	17	9	26	-1	13	0.4	35.2	6.5	IVRY C	ABIDJAN	28	23	30	21	25	0.5	47.7	-16.7
	KHARKOV	18	9	27	-3	14	-0.3	60.9	23.9	MOZAMB	MAPUTO	27	17	37	13	22	1.1	18.8	-26.9
	VOLGOGRAD	20	10	32	-2	15	0.0	6.6	-14.7	ZAMBIA	KABWE	29	15	35	11	22	0.5	0.0	-0.8
	ROSTOV	22	12	30	0	17	0.6	18.0	-16.1	ZIMBAB	HARARE	27	13	30	8	20	0.9	0.0	-10.2
	ASTRAKHAN	26	12	34	-2	19	1.5	0	-20.2	S AFRI	PRETORIA	25	12	30	5	19	0.8	12.7	-9.8
	KRASNODAR	24	12	31	1	18	0.7	70.4	41.4		KROONSTAD	24	7	30	2	15	-0.1	18.3	-1.8
	ORENBURG	19	7	31	-3	12	-0.3	43.4	15.0		JOHANNESBURG	22	10	28	4	16	0.5	3.6	-22.0
	TSELINOGRAD	19	6	28	-2	12	1.0	6.9	-17.4		BETHAL	22	8	28	3	15	0.2	16.9	-7.0
	KARAGANDA	20	6	29	0	13	0.7	20.0	2.2		DURBAN	25	16	36	12	20	1.4	77.7	8.2
	TBILISI	27	17	35	10	22	3.0	2.7	-42.2		CAPE TOWN	21	10	31	5	15	1.5	26.9	-10.6
	TASHKENT	31	14	38	7	22	2.5	4.8	2.7	CANADA	TORONTO	19	10	26	2	14	-1.0	201.5	138.0
	ASHKHABAD	32	16	37	7	24	1.0	5.1	-0.4		MONTREAL	18	8	26	2	13	-2.0	99.3	10.9
SYRIA	DAMASCUS	35	15	40	9	25	1.4	0.0	0.0		WINNIPEG	17	6	24	-3	12	-0.6	52.3	-1.0
ISRAEL	JERUSALEM	29	18	36	16	24	1.3	0.0	0.0		REGINA	15	4	25	-1	10	-1.9	54.8	18.1
PAKIST	KARACHI	32	25	34	23	28	-0.5	0.0	-31.5		SASKATOON	14	4	21	-2	9	-2.3	69.1	36.1
INDIA	AMRITSAR	34	21	37	17	28	-1.2	38.6	-56.0		LETHBRIDGE	14	3	26	-2	9	-3.8	92.7	55.5
	NEW DELHI	35	25	38	21	30	0.5	96.5	-29.1		CALGARY	12	3	22	-2	7	-3.1	127.4	89.2
	AHMEDABAD	35	24	39	23	30	1.2	0.0	-177.0		EDMONTON	14	4	21	-1	9	-1.9	78.6	39.4
	INDORE	32	19	36	-24	26	0.4	64.2	-147.5		VANCOUVER	19	11	27	6	15	0.3	78.1	11.0
	CALCUTTA	32	25	37	23	29	-0.4	578.2	273.9	MEXICO	GUADALAJARA	27	15	29	12	21	0.7	49.8	-109.9
	VERAVAL	30	24	31	23	27	-0.3	11.7	-95.2		MEXICO CITY	24	13	27	10	19	2.5	36.7	-80.4
	BOMBAY	31	25	32	24	28	0.8	33.8	-275.5		ACAPULCO	34	24	37	23	29	1.4	65.2	-360.4
	POONA	31	20	34	18	25	0.4	51.8	-65.9		BERMUD ST. GEORGES	27	23	29	19	25	-0.5	82.0	-80.2
	BEGAMPET	33	23	38	20	28	2.2	70.9	-111.7	BAHAMA	NASSAU	32	23	34	21	28	0.7	41.9	-133.5
	MADRAS	35	26	38	18	31	1.0	103.6	-15.2	CUBA	HAVANA	31	24	34	22	28	0.7	22.3	-122.1
	MANGALORE	30	23	31	22	26	0.3	192.2	-74.8	JAMAIC	KINGSTON	33	25	35	23	29	0.8	16.0	-96.4
H KONG	HONG KONG	30	26	34	23	28	0.6	308.4	-12.1	P RICO	SAN JUAN	32	25	33	23	28	0.4	41.1	-111.0
N KREA	PYONGYANG	22	11	29	3	17	-1.9	116.5	-33.6	GUADEL	RAIZET	31	23	33	15	27	0.6	91.5	-70.6
S KREA	SEOUL	24	16	31	10	20	-0.3	107.0	-35.0	MARTINQ	LAMENTIN	31	24	31	20	27	1.3	101.2	-110.6
JAPAN	SAPPORO	23	14	30	8	18	1.4	242.5	100.1	BARBAD	BRIDGETOWN	30	26	32	22	28	0.5	28.4	-117.3
	NAGOYA	29	20	36	16	25	1.9	80.5	-128.5	TRINID	PORT OF SPAIN	32	23	33	22	27	1.1	74.5	-111.6
	TOKYO	27	21	35	16	24	1.0	227.0	34.2	COLOMB	BOGOTA	18	8	22	2	13	0.2	110.3	50.8
	YOKOHAMA	26	21	33	16	24	1.0	200.0	0.9	VENEZU	CARACAS	31	24	33	16	28	0.0	25.5	-24.9
	KYOTO	30	20	37	14	25	1.7	51.0	-154.7	F GUIA	CAYENNE	32	22	33	21	27	1.0	7.8	-57.7
	OSAKA	29	21	36	16	25	1.2	81.5	-83.1	BRAZIL	FORTALEZA	31	23	33	22	27	0.3	33.6	4.2
THAILN	PHETCHABUN	33	23	36	20	28	0.9	75.6	-202.3		RECIFE	28	22	29	20	25	-0.1	234.0	147.9
	BANGKOK	32	25	35	23	29	0.7	308.0	-33.8		BELO HORIZONTE	26	16	32	11	21	-0.7	10.8	-24.9
MALAYS	KUALA LUMPUR	31	23	34	21	27	0.8	90.0	-95.4		CAMPO GRANDE	28	18	35	12	23	0.0	55.3	-6.7
VIETNM	HANOI	31	25	38	20	28	-0.1	179.0	-75.0		FRANCA	26	14	31	9	20	-0.9	51.0	-14.0
CHINA	HARBIN	20	8	26	0	14	0.0	54.9	-11.4		RIO DE JANEIRO	25	20	33	16	22	0.2	78.0	25.0
	HAMI	27	11	32	-5	19	0.5	9.4	6.2		LONDRINA	25	14	31	11	20	-0.6	51.0	-51.2
	LANCHOW	24	10	28	1	17	1.4	8.0	-37.7		SANTA MARIA	23	13	32	4	18	1.7	157.0	6.1
	BEIJING	26	14	30	6	20	0.6	49.0	-8.1		PORTO ALEGRE	23	14	34	5	18	1.6	159.0	35.0
	TIENTSIN	27	16	30	10	21	0.5	11.2	-32.2	PERU	LIMA	19	16	22	15	17	1.3	2.2	1.4
	LHASA	19	7	24	3	13	-0.5	83.7	19.2	BOLIVI	LA PAZ	13	0	17	-3	6	-2.3	98.7	67.6
	KUNMING	22	13	25	9	18	0.2	78.5	-41.1	CHILE	SANTIAGO	18	6	26	-1	12	0.6	1.0	-22.8
	CHENGCHOW	27	15	34	8	21	0.3	56.9	-14.2	ARGENT	IGUAZU	24	15	32	6	20	***	93.6	***
	YEHCHANG	29	19	36	15	24	0.7	76.6	-33.9		FORMOSA	25	16	34	7	21	0.6	89.9	7.9
	HANKOW	28	19	35	12	24	0.4	140.3	59.5		CERES	23	13	33	1	18	1.0	55.3	13.8
	CHUNGKING	26	20	35	15	23	-1.7	129.9	-8.9		CORDOBA	21	10	34	-2	15	-0.2	41.4	7.0
	CHIHKIANG	29	19	35	14	24	0.7	37.1	-21.6		RIO CUARTO	20	10	35	2	15	1.2	42.3	10.6
	SHANGHAI	27	19	34	15	23	-0.8	60.0	-90.6		ROSARIO	20	11	30	3	15	1.5	45.4	-8.3
	NANCHANG	29	21	36	17	25	-0.2	69.0	-7.0		BUENOS AIRES	19	11	30	2	15	2.0	82.1	19.6
	TAIPEI	30	24	35	19	27	0.5	214.5	-6.5		SANTA ROSA	17	8	26	1	13	0.6	22.4	-13.5
	CANTON	33	24	36	19	28	1.1	109.7	-72.1		TRES ARROYOS	15	8	24	-3	12	1.2	64.1	-3.2
	NANNING	33	23	36	19	28	1.4	106.5	-12.4	MIDW I	MIDWAY ISLAND	29	24	31	20	27	0.6	69.4	-47.3
GARY I	LAS PALMAS	28	22	35	18	25	1.2	5.0	-0.8	N CALD	NOUMEA	23	17	26	15	20	-0.3	12.0	-35.2
MOROCC	CASABLANCA	26	19	29	15	22	0.6	2.4	-4.2	FIJI	NAUSORI	24	20	30	16	22	-1.1	86.9	-98.8
	MARRAKECH	33	20	40	16	27	1.9	1.0	-4.4	SAMOA	PAGO PAGO	29	24	31	23	27	0.3	407.6	202.9
ALGERI	ALGER	31	18	41	13	24	1.4	13.5	-17.2	TAHITI	PAPEETE	29	22	30	19	25	0.7	11.3	-45.2
	BATNA	27	14	34	8	21	0.3	56.3	35.2	N ZEAL	AUCKLAND	15	10	19	6	13	-0.2	48.2	-50.2
TUNISI	TUNIS	31	20	36	16	25	1.5	78.6	41.4		WELLINGTON	13	8	18	2	10	0.0	46.2	-57.4
NIGER	NIAMEY	34	24	40	20	29	0.6	72.4	-21.8	PA N G	PORT MORESBY	29	23	31	22	26	-0.2	15.2	-24.6
MALI	TIMBUKTU	37	26	42	23	31	0.3	32.7	1.5	AUSTRAL	DARWIN	31	25	34	22	28	0.3	7.4	-4.5
	BAMAKO	31	22	33	20	27	0.3	150.2	-67.6		MOREE	23	11	31	4	17	1.4	88.6	54.4
MAURIT	NOUAKCHOTT	34	26	43	22	30	0.8	60.2	22.9		BRISBANE	24	14	28					



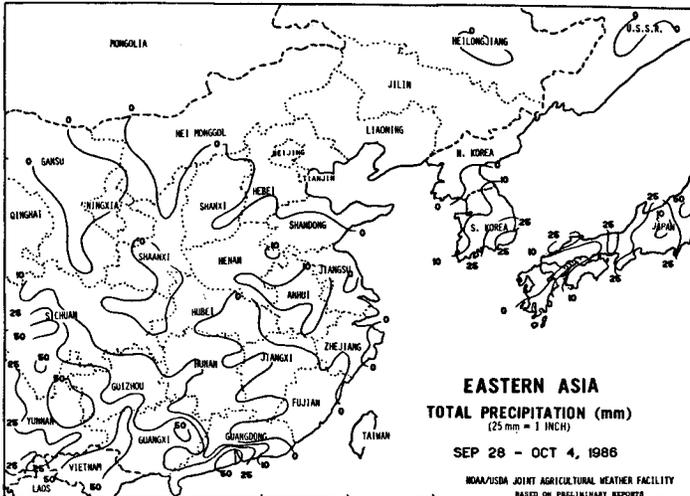
U.S.S.R. ... Widespread rain and snow covered Western U.S.S.R.'s north, with amounts ranging from 10 to 25mm. Late-week light showers covered the Ukraine, North Caucasus, and the lower Volga Valley. Less than 10mm of precipitation fell, and additional rain is needed to increase topsoil moisture for winter grain emergence and autumn establishment. Although moisture in the Baltic States, Belorussia, the Central Region and the Volga Vyatsk favored winter grain emergence, below-normal temperatures for the last 3 weeks slowed crop development. This past week, the first significant autumn freeze reached a far south as the Black Sea--about 2 to 3 weeks ahead of normal.

In the New Lands, scattered rain and snow in the north fell almost daily, delaying final harvest. Spring wheat harvesting is likely complete in central and southern areas. In South Central U.S.S.R. cotton areas, mid-week showers over much of the region may have slowed harvesting.

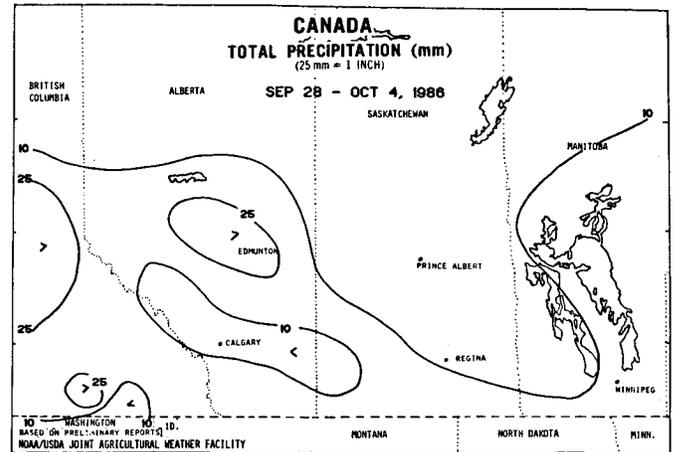


EUROPE ... High pressure kept most of the region dry. Dry weather over France and northern Europe helped summer crop harvesting and winter grain planting. Light showers over the southeast slightly relieved prolonged dryness. Topsoil moisture in southern Romania, northeastern Yugoslavia, and northern Bulgaria remained unfavorably low for winter grain emergence and early establishment. Elsewhere, rain covered Mediterranean crop areas. Over 100mm of rain fell over coastal areas of eastern Spain. Weekly temperatures were near-to above-normal over the region.

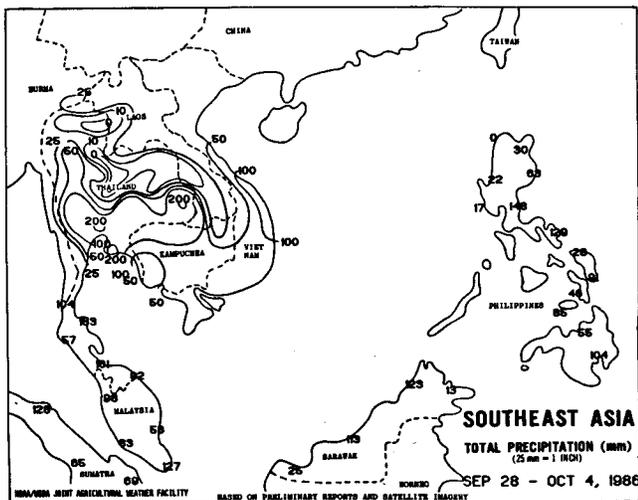
SOUTH ASIA ... Moderate to heavy showers (25 to 85mm) continued in southern India, benefiting cotton, rice, and groundnuts. Throughout India, cotton is mostly flowering to boll forming, rice is grain-filling, and groundnuts are grain-filling to maturing. Heavy showers (50 to over 100mm) fell in eastern India from northern Andhra Pradesh to the far eastern states, benefiting rice but causing flooding. Minimal rain (less than 10mm) fell throughout western and central India from Gujarat to Andhra Pradesh, northward to eastern Uttar Pradesh and Bihar. However, showers (10 to 25mm) fell in north India from Punjab to central Uttar Pradesh, slowing the cotton harvest but improving soils for wheat planting--normally underway throughout the wheat area.



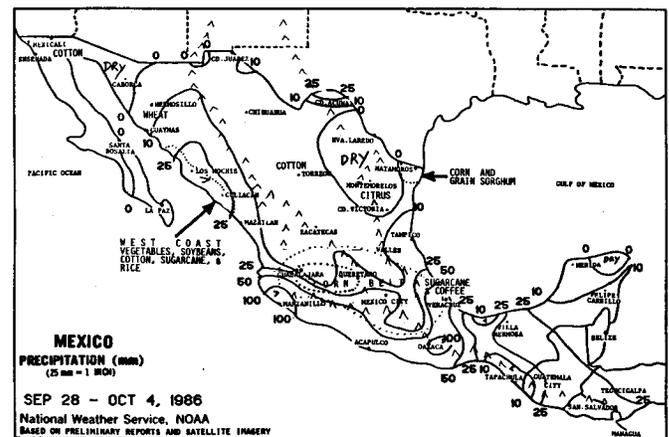
EASTERN ASIA ... Mostly dry weather covered the Manchurian Valley, aiding final summer crop harvesting. Dry weather over the North China Plain helped cotton harvesting and winter wheat planting. However, rain is needed for winter wheat emergence and autumn establishment. Light rain (around 10mm) over Anhui and Jiangsu benefited late single cropped rice in the filling stage. Dry weather in Hunan, Zhejiang, and Jiangxi stressed unirrigated late, double cropped rice in the filling stage. Moderate rain over south coastal China favored rice in the filling stage. Weekly temperatures over China were above normal in the north and below-normal in the south.



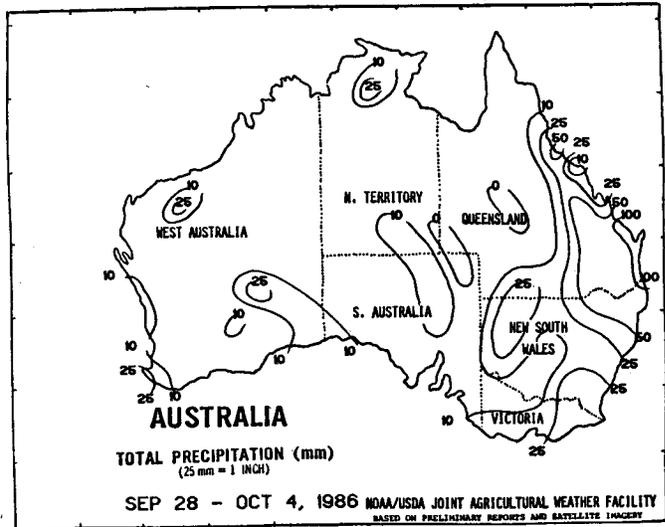
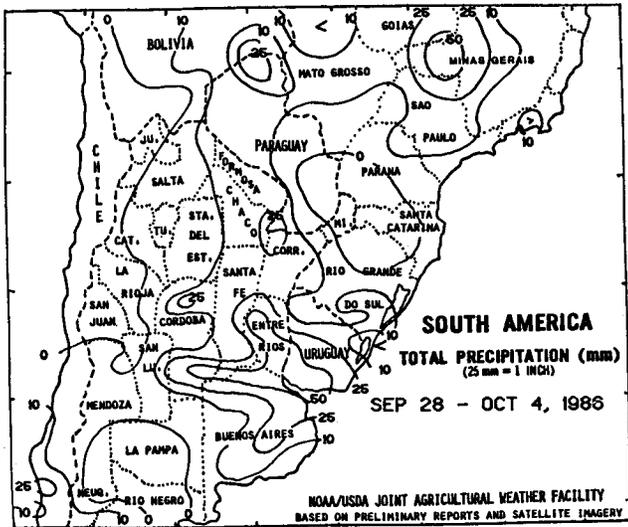
CANADA ... Unsettled weather continued hampering the Canadian Prairie grain harvest. Periodic showers brought 10 to 20mm of weekly rainfall to most crop areas of Alberta, southern Saskatchewan, and Manitoba. Light rain (less than 10mm) fell in northern Saskatchewan, extreme western Manitoba, and south-central Alberta, but the dampness slowed the harvests. Temperatures averaged 2 to 3 degrees C below normal for the week. Extreme minimum temperatures fell below freezing in nearly all crop areas, and as low as -3 to -6 degrees C across northern crop areas. In Saskatchewan, the total harvest was 94 percent swathed and 61 percent combined by October 2. The harvest is still slightly ahead of last year but falls behind the recent 5-year average.



SOUTHEAST ASIA ... Below-normal rainfall (less than 25mm) continues in upland crop regions of northern and central Thailand. However, heavy showers (50 to more than 200mm) benefited rainfed rice in the south from Bangkok to the Laotian border, likely flooding some areas. Moderate to heavy showers (50 to 194mm) fell in Vietnam and Kampuchea, with heaviest rain falling in coastal areas. Light to moderate showers (less than 25mm) fell throughout Laos. Moderate to heavy tropical showers fell over the southern Philippines but the northern islands received only light rain (less than 25mm).



MEXICO ... Locally heavy tropical showers (50 to 120mm) fell over the southern half of Mexico, providing beneficial moisture for corn growth but delaying the early harvest. Hurricane Paine moved into the Gulf of California from the eastern Pacific before turning inland over the west coast farming region of Sinaloa. Maximum sustained wind speeds averaged about 80 mph before the storm moved over land. Winds diminished rapidly, but satellite imagery suggest locally heavy showers near the coast before the storm dissipated further inland. Mountain reservoirs likely benefited from the second tropical storm in as many weeks over northwest Mexico.



SOUTH AMERICA ... Rain fell over nearly all of Argentina's major crop areas. Significant rain (10 to 27mm) benefited wheat in southern Buenos Aires province. Heavier showers (25 to 70mm) kept the summer crop areas adequately moist for planting, which normally begins soon in southern Santa Fe, southern Cordoba, and northern Buenos Aires. Weekly rainfall averaged 10 to 25mm in northern cotton areas. Light showers (less than 10mm) were confined to extreme western Buenos Aires and La Pampa. Following the previous week's wetness in Brazil, drier weather favored wheat development in the south. Topsoil moisture is adequate over most soybean and cotton areas for planting. Beneficial rain fell over Mato Grosso do Sul, Sao Paulo, and southwestern Minas Gerais, improving moisture for crop planting and helping the moisture-deficient flowering coffee trees. More rain is needed in the coffee areas.

AUSTRALIA ... Moderate to heavy showers (20 to 78mm) covered crop areas in Queensland and New South Wales, benefiting grain-filling wheat and improving soils. Below-normal rainfall in Queensland since mid-August limited moisture for wheat development. Mostly light showers (less than 10mm) fell throughout grain areas in South Australia, Victoria, and western Australia. However, moisture continued favorable for grain-filling wheat in the western and southern wheat areas. Temperatures averaged 15 to 17 degrees C throughout the wheat belt but were somewhat warmer in Queensland.

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(Continued from p. 12)

WINTER WHEAT SEEDING

Winter wheat seeding advanced to 51 percent completion, 11 points ahead of 1985 and 9 points above the average, by September 28. Eight of the 20 major producing States were seeding wheat ahead of normal on this date. Rain hampered seeding in the Corn Belt, the northern Great Plains, and in some Rocky Mountain States the third and fourth week of September. Dryness was becoming a problem in the Southeast as the month drew to a close.

Nebraska's wheat was 85 percent seeded compared with 75 percent last year and 80 percent average. Sixty-five percent of the acreage was emerged, 15 points greater than normal. Rain aided germination and early growth.

In Oklahoma, winter wheat seeding reached 50 percent completion near the end of September. Last year at this time, 35 percent was seeded and 30 percent would have been planted normally. Emergence doubled the normal pace with 20 percent of the crop out of the ground.

Kansas wheat producers had sown 70 percent of their acreage, surpassing 1985 by 30 points and the average by 25 points. Emergence was ahead of schedule but heavy rain caused some reseeding in southern and western Kansas.

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