

# 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

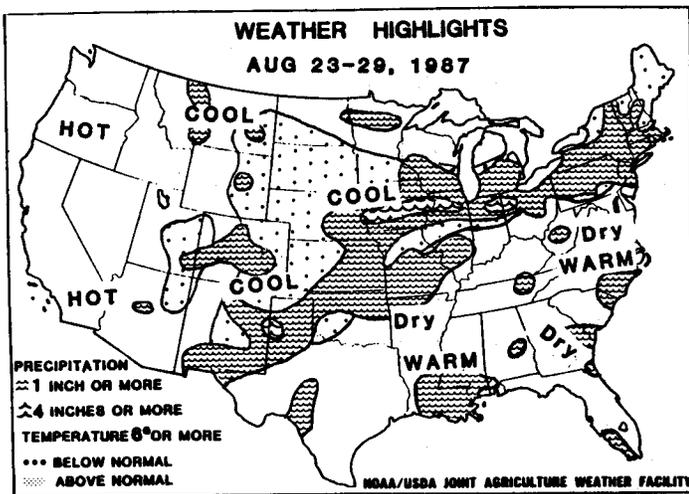
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## National Weather Summary

August 23 to 29, 1987



Iowa. Warm weather continued across and through the West Coast States, but unusually cool weather prevailed in most of the Nation.

WEDNESDAY...Showers and thunderstorms covered an area from the northern High Plains to New Mexico and northeastward to southern New England and the mid-Atlantic States. Severe weather occurred from north-central Texas to southern Illinois and across the northern Corn Belt. Warm weather spread over the Southeast.

THURSDAY...Moderate to heavy thunderstorms were widespread along a line reaching from the central Rio Grande Valley to southern New England and central Virginia. Lighter showers fell through the rest of the southern Plains and the Mississippi Valley.

FRIDAY...Cooler air moved to the Appalachians and into the Mississippi Delta. Showers and thunderstorms covered the area from the Great Lakes through the Ohio and Tennessee Valleys and all of the East Coast States. Scattered showers fell through Texas and along the Gulf Coast. Most of the Nation was cooler than normal.

SATURDAY...Rain or showers reached from the upper Mississippi Valley through New England and down the east coast. Showers and thunderstorms also reached from central Arizona through Texas and along the gulf coast. The cooler air pushed through Texas and from central Alabama to southern North Carolina.

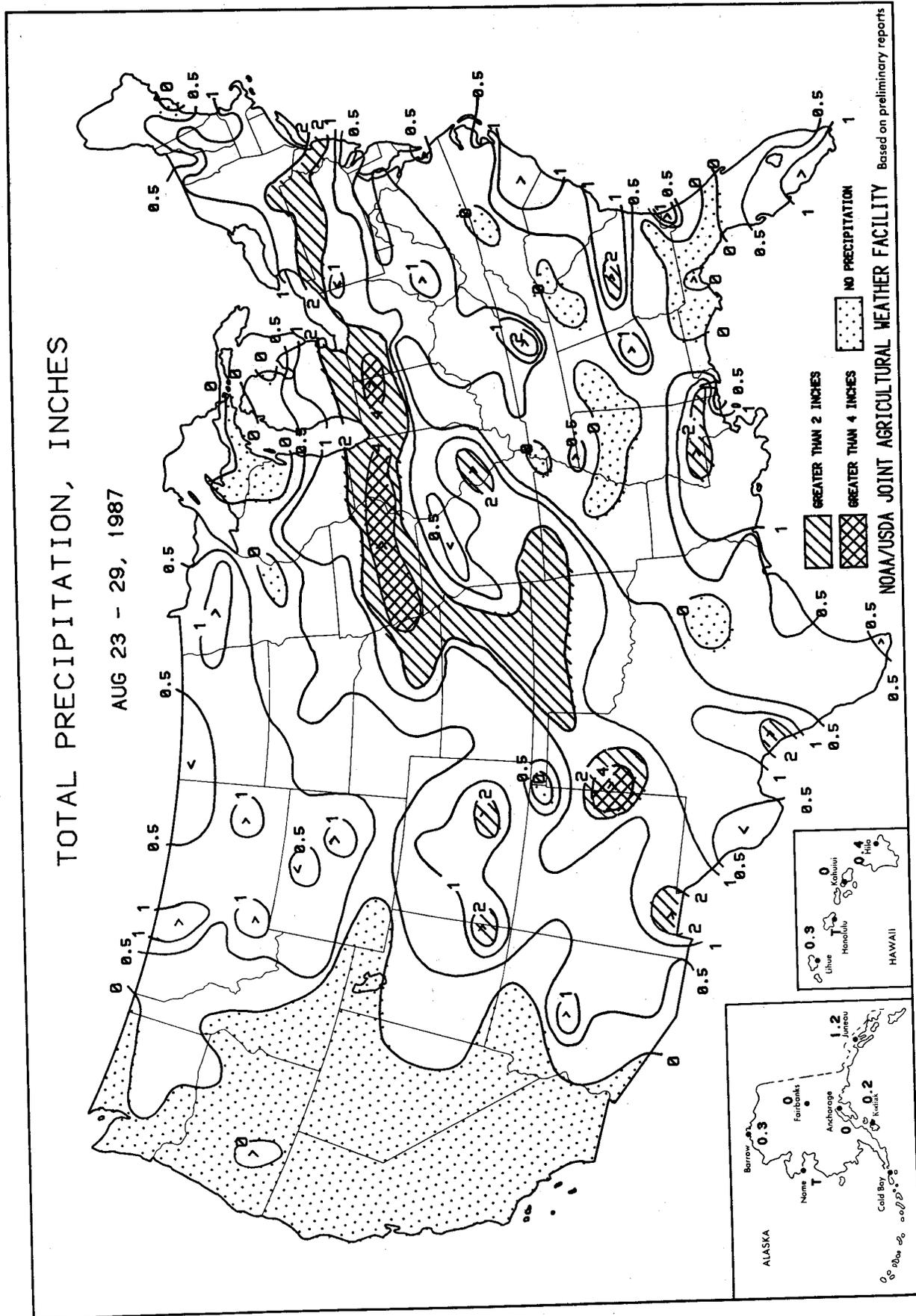
**HIGHLIGHTS:** Much cooler air moved into the northern Great Plains early in the week and pushed slowly southeastward until it covered all but the extreme Southeast. Showers and thunderstorms developed along the leading edge of the cold air. The heaviest rain accumulated along a line from western Texas to Iowa and eastward through northern Pennsylvania. Average temperatures were unusually cold through the Great Plains and warmer than normal in the northwest and Southeast.

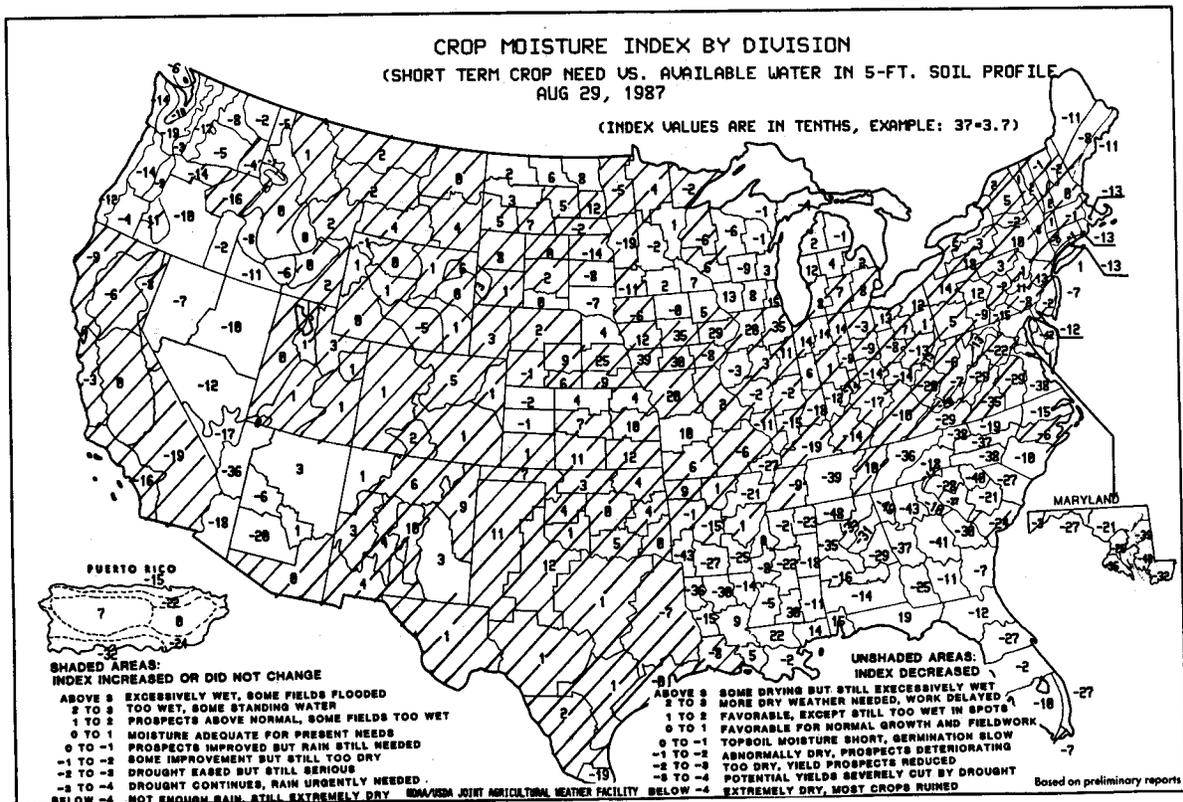
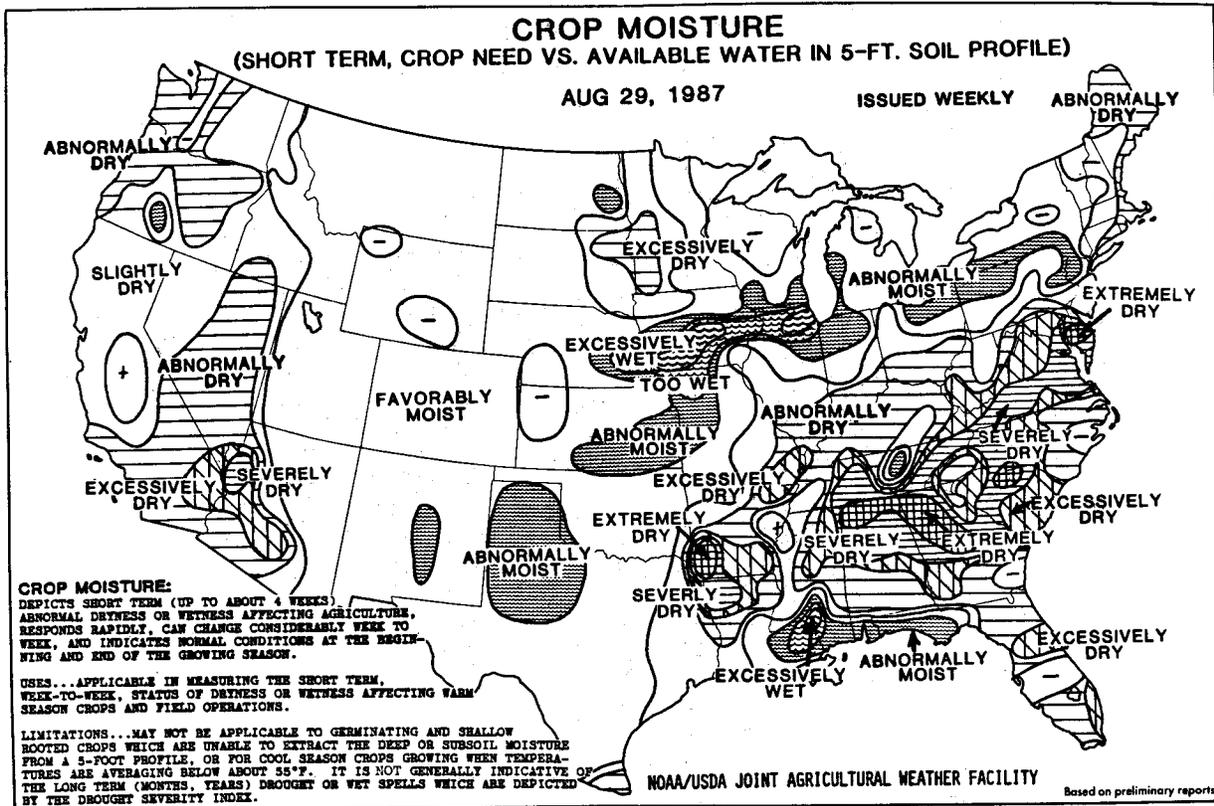
**SUNDAY...**A strong high pressure system over the north-central United States pulled unseasonably cold air from Canada into the Northeast. Thunderstorms and rainshowers extended from eastern New Mexico and the Texas Panhandle to southwestern Missouri, from northern Alabama to the South Carolina coast, and across southern Florida. Thundershowers were scattered through Arizona, the Rockies, and the central Great Plains.

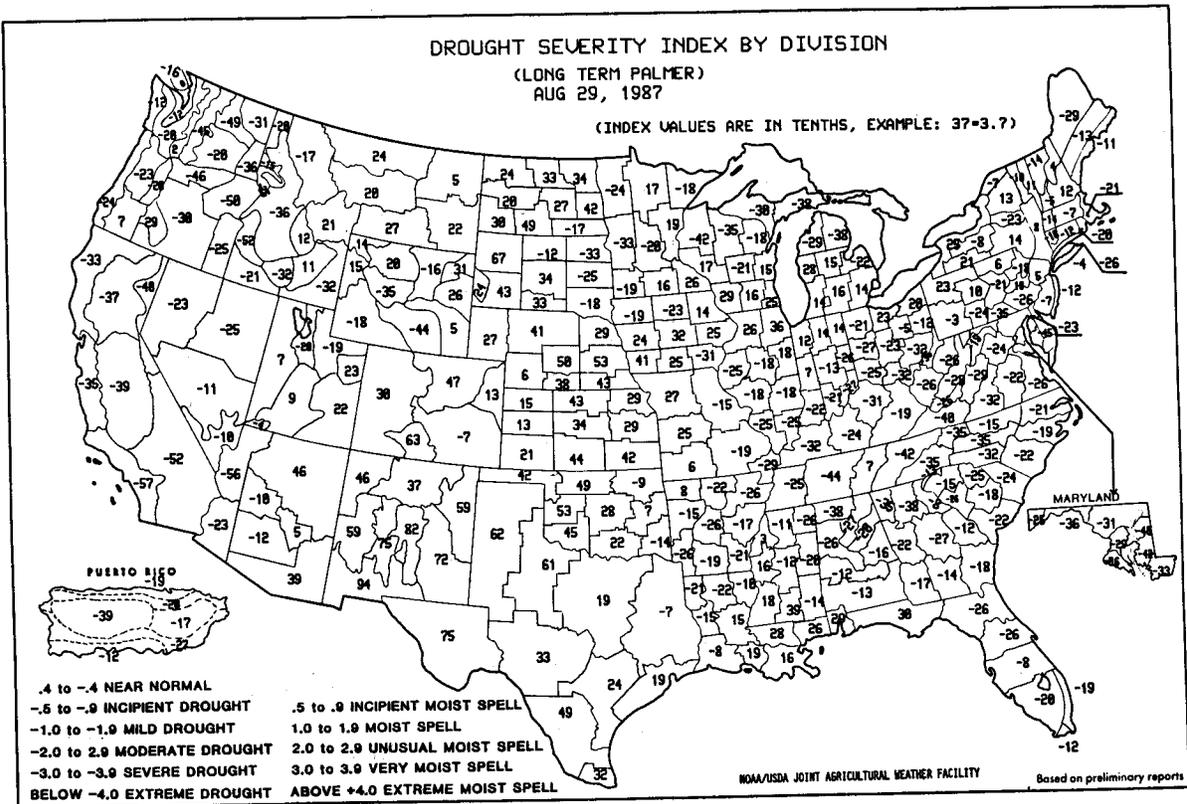
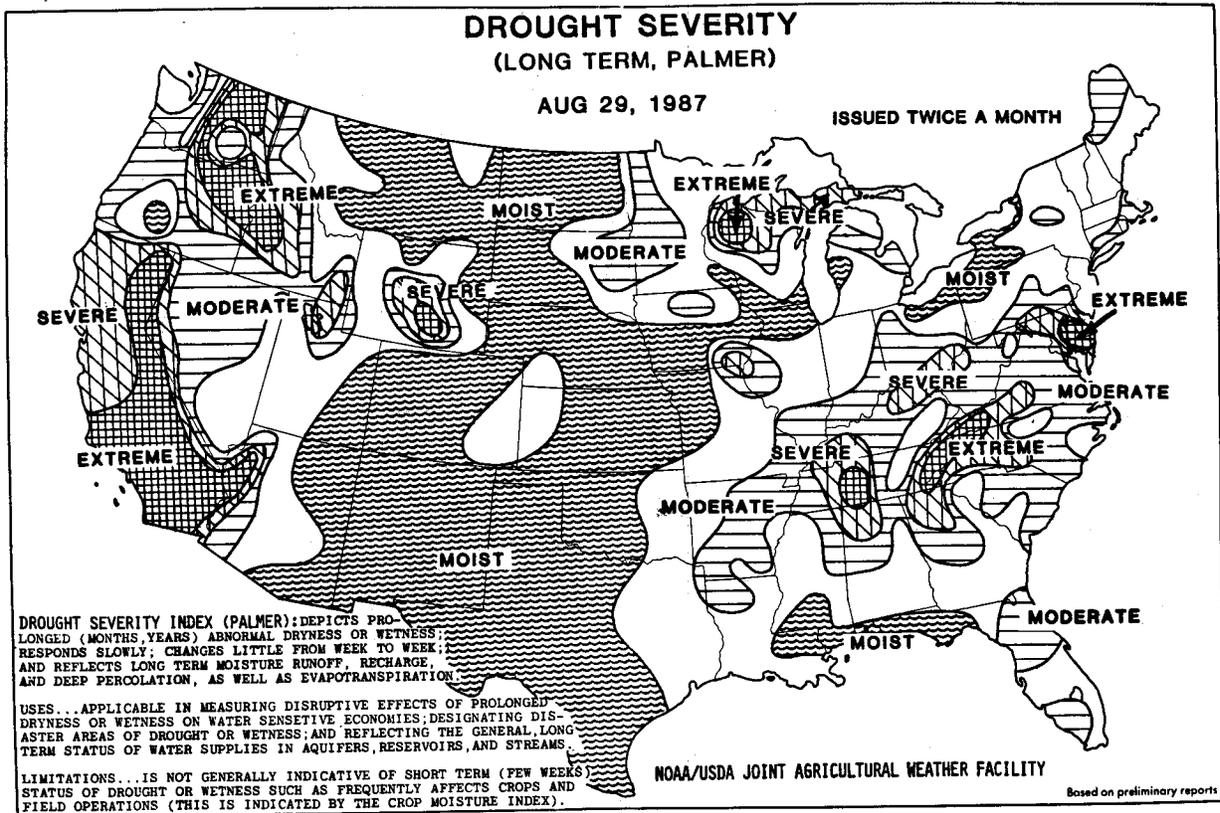
**MONDAY...**Scattered thundershowers continued from Arizona and New Mexico through the Rockies and across the northern and central Plains to the upper Mississippi Valley and through the lower Great Lakes States. Moderate to heavy thunderstorms reached from central Nebraska across southern Iowa.

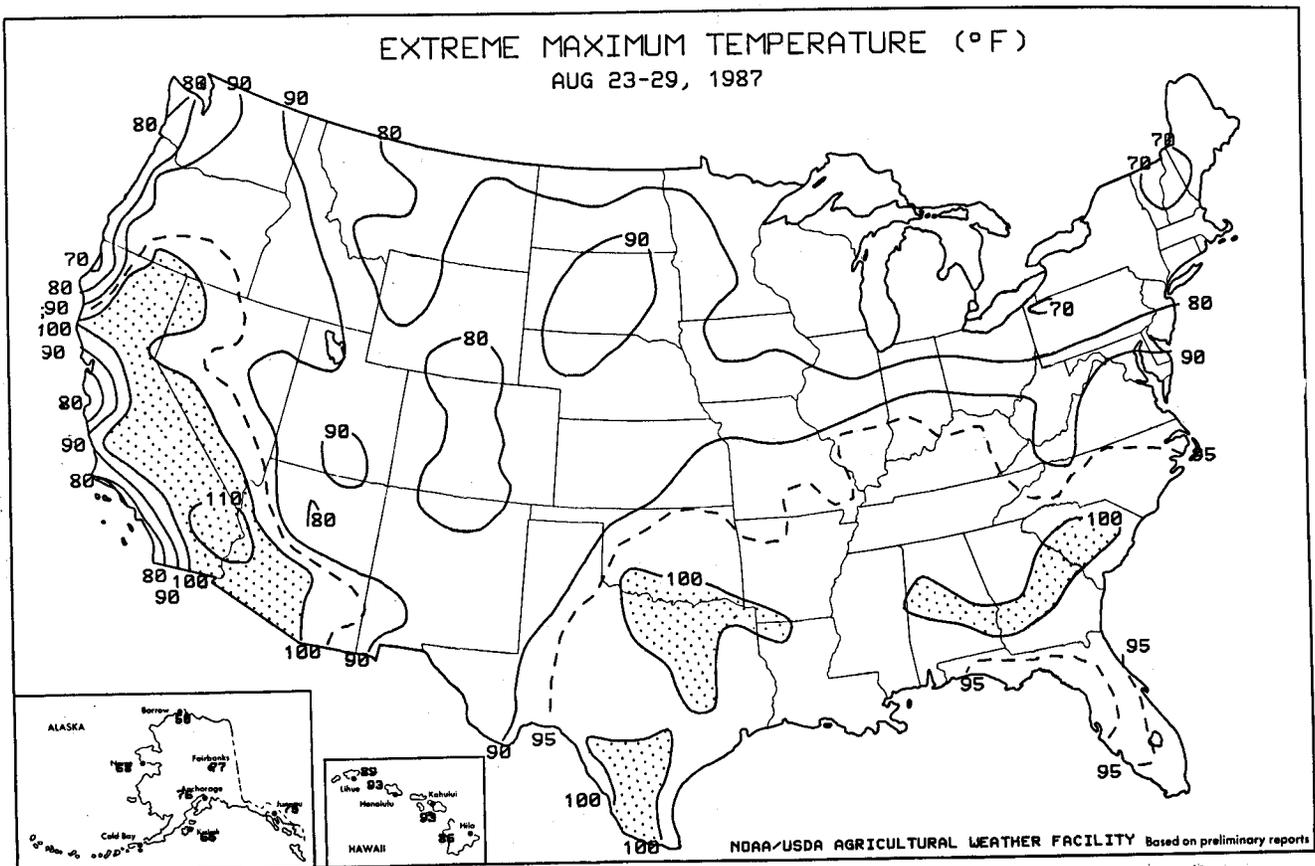
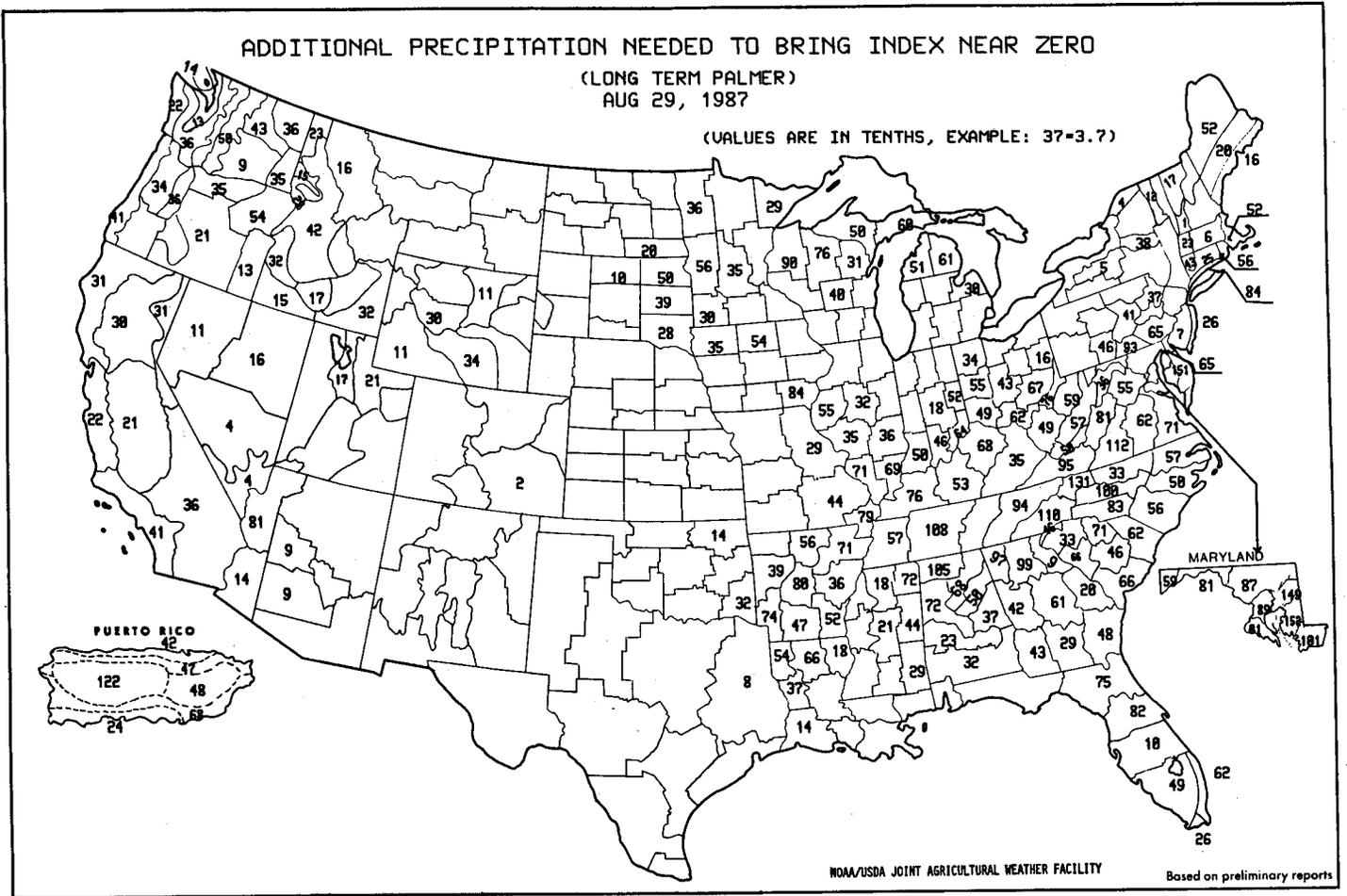
**TUESDAY...**Thunderstorms continued through the western mountains, across the northern and central Plains, and through the Corn Belt. Moderate to heavy downpours fell from eastern Nebraska into

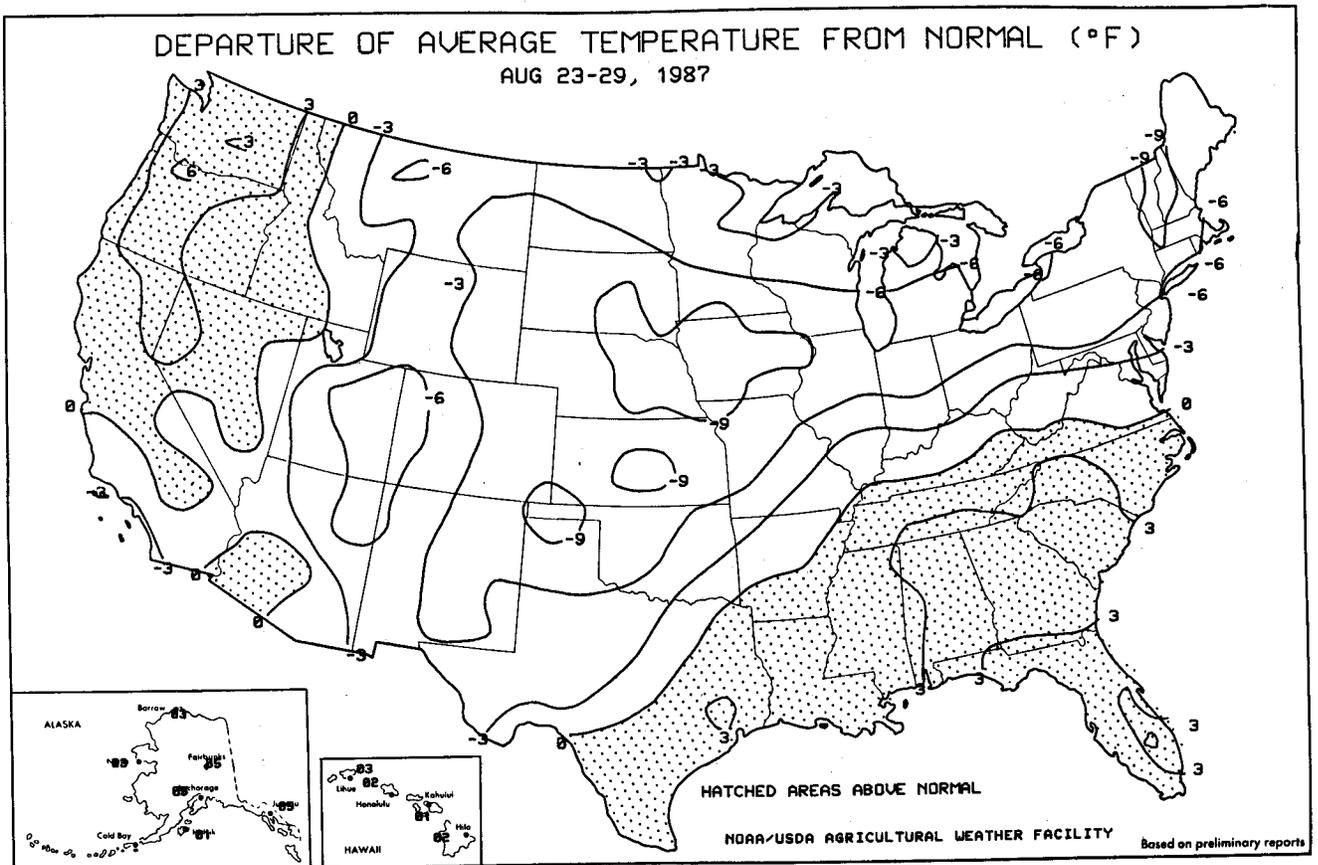
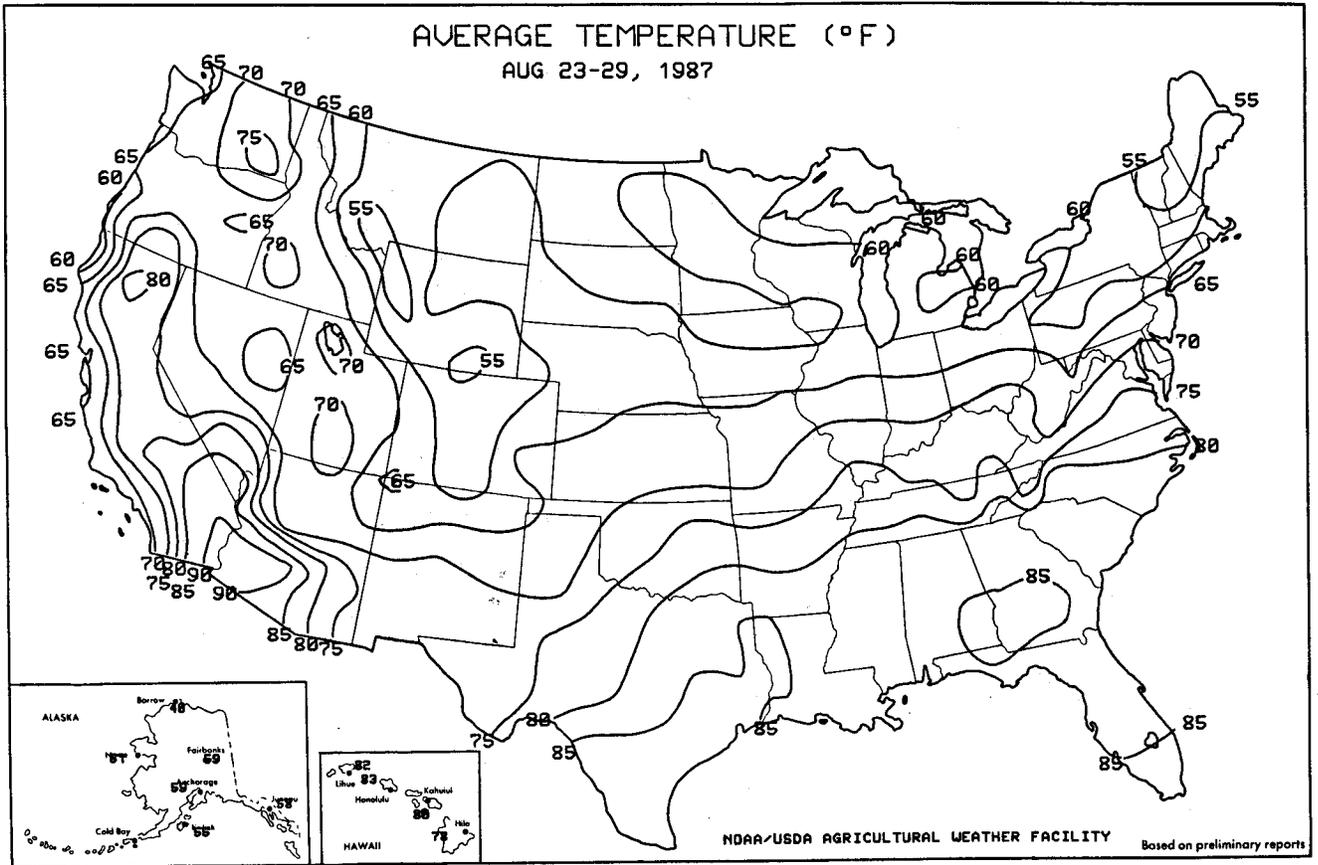
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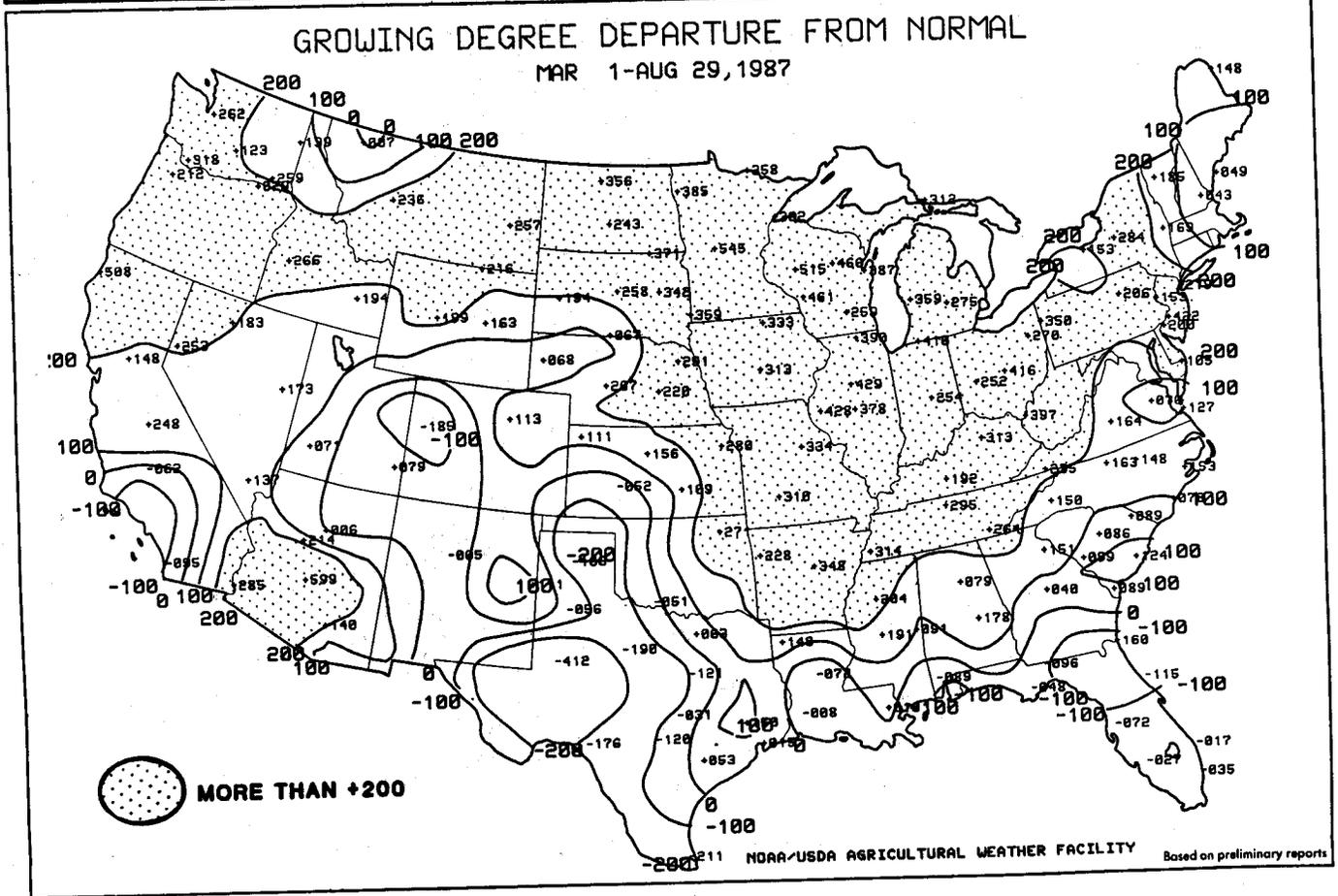
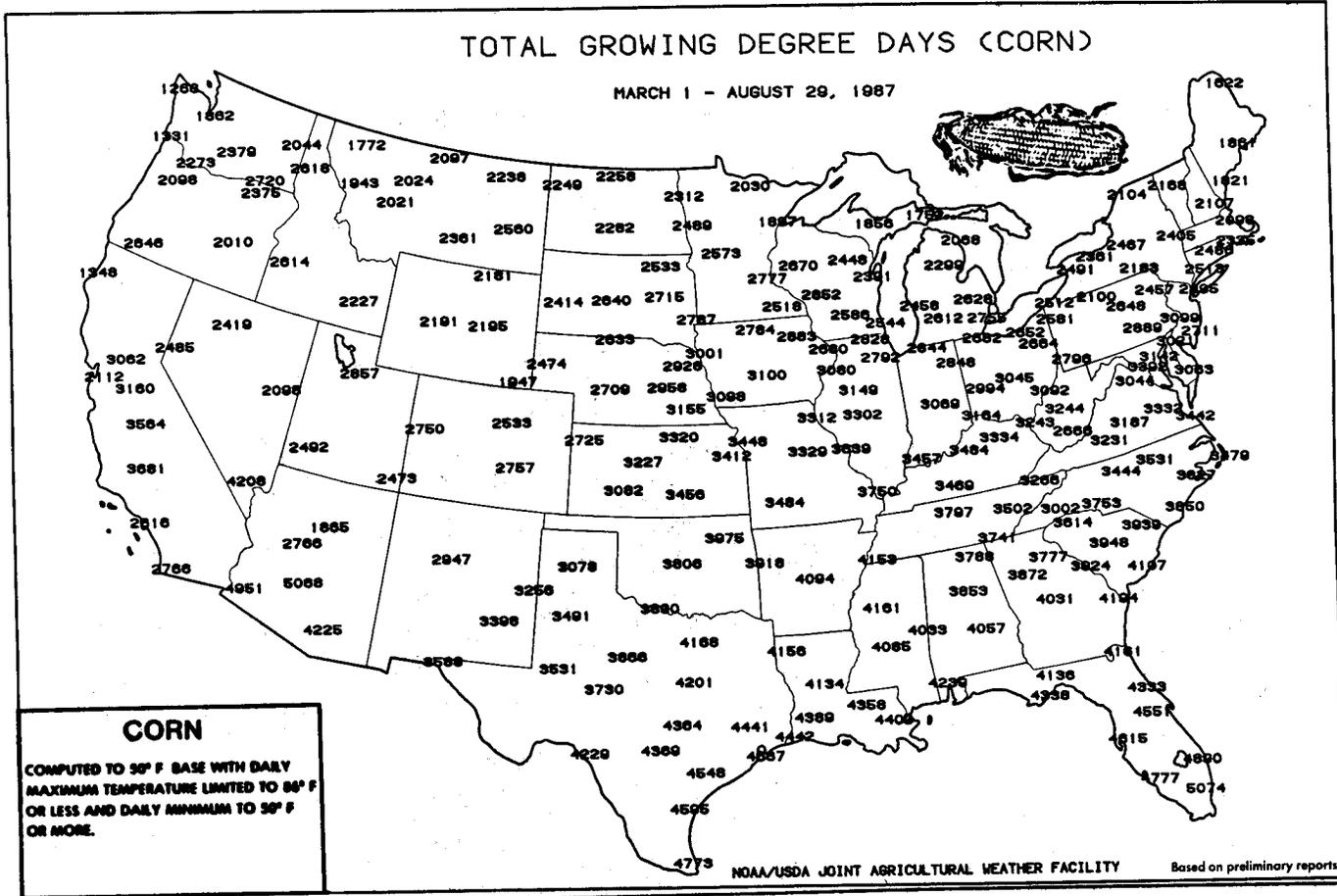




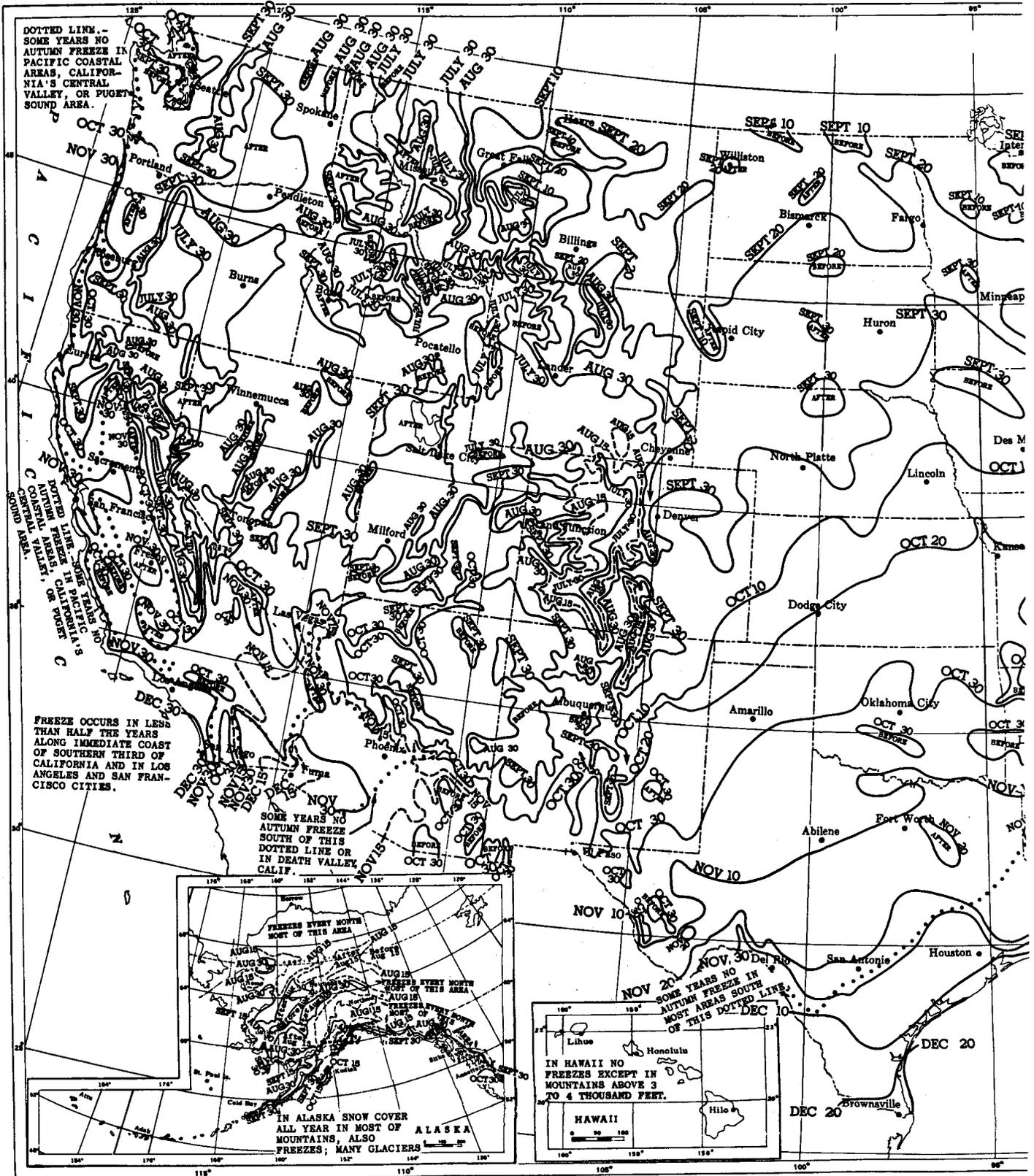






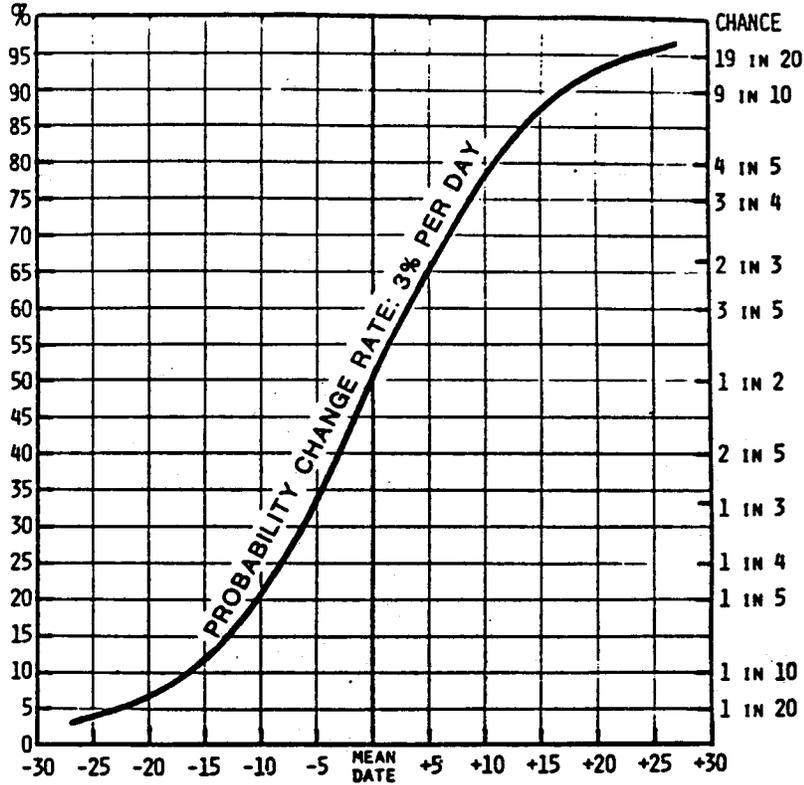


# MEAN DATE OF FIRST 32°F. TEMPERATURE IN AUTUMN



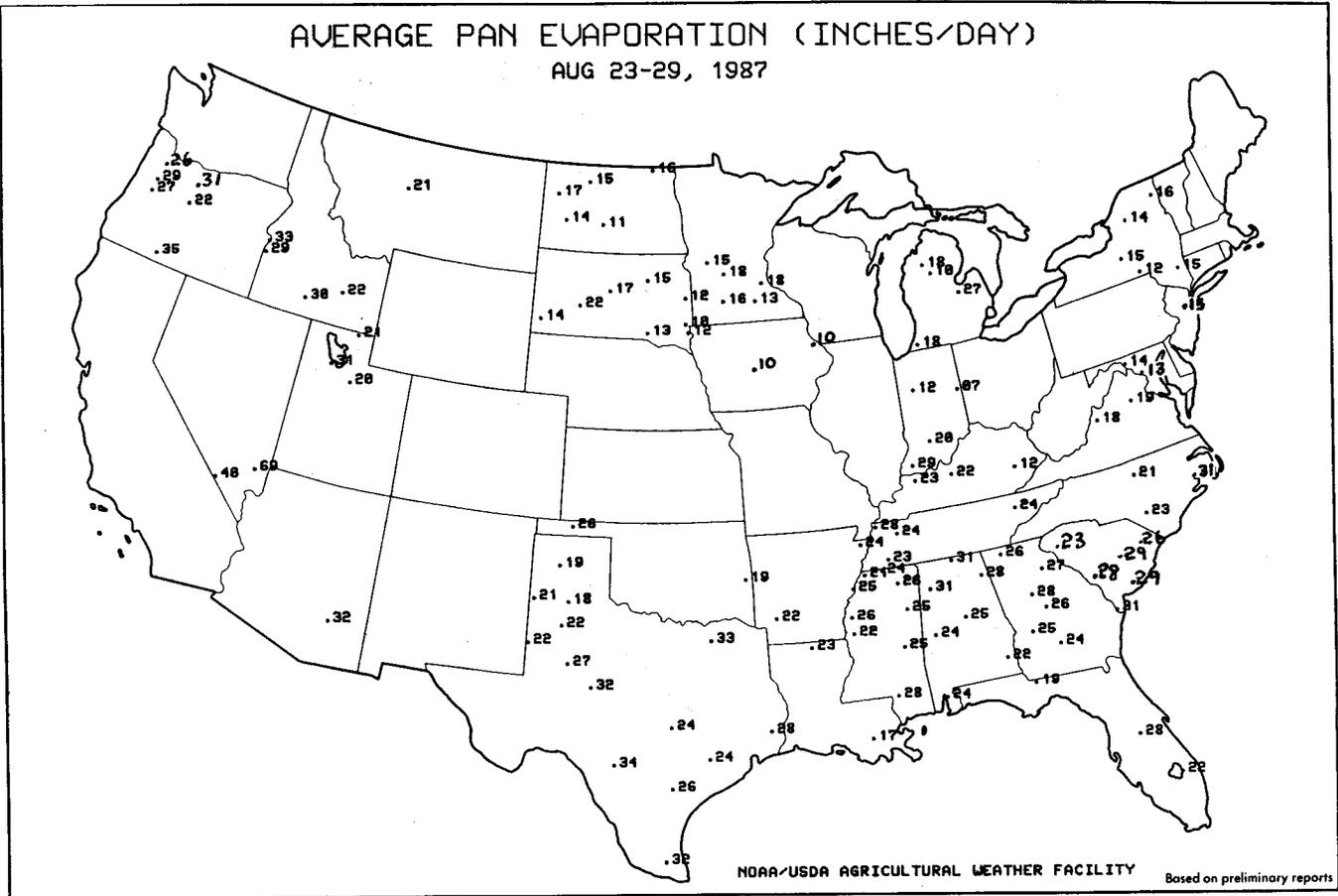


PROBABILITY OF FIRST FALL FREEZE BEFORE A CERTAIN DATE



NUMBER OF DAYS TO SUBTRACT FROM, OR ADD TO, THE MEAN DATE OF FIRST FREEZE (32° F OR LOWER) IN THE FALL, TO OBTAIN PROBABILITIES OF OCCURRENCE. THE NATIONAL CURVE DEPICTED ABOVE WAS DERIVED FROM NUMEROUS, LONG-TERM REPORTS THROUGHOUT THE NATION.

AVERAGE PAN EVAPORATION (INCHES/DAY)  
AUG 23-29, 1987



# National Weather Data for Selected Cities

Weather Data for the Week Ending August 29, 1987

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 JUNE 6	PCT. NORMAL SINCE JUNE 6	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	
																		°F	°F	°F	°F
AL BIRMINGHAM	94	71	97	66	82	4	0	-.8	0	9.2	73	29.7	77	90	42	6	0	0	0	0	
AL MOBILE	94	73	96	69	83	2	2.0	.5	2.0	22.3	117	54.6	119	98	48	7	0	2	1	1	
AL MONTGOMERY	97	72	100	70	85	4	1.2	.5	1.2	13.9	125	41.2	121	96	42	7	0	1	1	1	
AK ANCHORAGE	68	49	76	45	59	4	T	-.5	T	3.5	71	7.2	86	92	53	0	0	0	0	0	
AK BARROW	44	36	50	28	40	3	.3	-.1	.3	2.8	133	3.1	107	97	81	0	2	5	5	0	
AK FAIRBANKS	72	46	77	42	59	5	T	-.4	T	3.4	69	4.4	62	92	41	0	0	0	0	0	
AK JUNEAU	68	48	75	46	58	5	1.2	-.1	1.1	10.9	93	25.4	88	93	52	0	0	2	2	1	
AK KODIAK	60	50	65	44	55	1	.2	-.1	.1	18.6	153	47.8	134	99	76	0	0	2	2	0	
AK NOME	60	43	68	39	51	3	T	-.7	T	3.5	55	5.9	64	94	64	0	0	0	0	0	
AZ PHOENIX	102	79	107	75	90	2	.1	-.1	.1	1.5	84	4.7	110	50	19	7	0	2	2	0	
AZ PRESCOTT	80	53	85	48	67	-2	1.3	.6	.4	4.8	69	9.4	72	74	34	0	0	5	5	0	
AZ TUCSON	95	68	100	64	82	-1	-.9	.4	.5	3.6	77	8.2	114	76	25	7	0	3	1	1	
AZ YUMA	105	80	108	76	92	1	1	-.1	0	.7	131	1.1	79	51	16	7	0	0	0	0	
AR FORT SMITH	89	67	99	57	78	-2	1.3	.6	1.3	8.5	88	25.9	97	93	49	4	0	3	1	1	
AR LITTLE ROCK	89	68	96	62	79	-1	T	-.7	T	6.9	68	24.2	73	71	49	2	0	0	0	0	
CA BAKERSFIELD	97	63	105	55	80	-1	0	0	0	.3	517	4.0	103	75	27	6	0	0	0	0	
CA EUREKA	61	54	65	51	57	0	0	-.1	0	.5	54	17.9	79	92	80	0	0	0	0	0	
CA FRESNO	97	63	106	58	80	2	0	0	0	T	14	6.6	95	76	21	6	0	0	0	0	
CA LOS ANGELES	72	61	74	58	67	-4	0	0	0	.2	155	3.0	36	94	64	0	0	0	0	0	
CA REDDING	101	61	109	57	81	1	0	-.2	0	.2	14	19.3	77	62	15	7	0	0	0	0	
CA SACRAMENTO	95	56	105	54	75	1	0	0	0	T	17	8.8	82	90	24	5	0	0	0	0	
CA SAN DIEGO	73	63	75	61	68	-4	0	0	0	T	27	5.1	82	83	65	0	0	0	0	0	
CA SAN FRANCISCO	74	57	78	55	66	2	T	0	T	0	8.5	69	89	55	0	0	0	0	0	0	
CO DENVER	74	52	82	50	63	-6	1.6	.6	.4	6.2	128	15.2	132	92	44	0	0	4	0	0	
CO GRAND JUNCTION	76	54	85	49	65	-8	.6	.3	.3	2.6	149	7.9	158	82	38	0	0	3	0	0	
CO PUEBLO	75	52	85	48	64	-9	2.1	1.7	1.2	4.3	90	9.1	109	100	50	0	0	5	1	1	
CT BRIDGEPORT	71	57	76	50	64	-7	1.4	.6	.9	7.2	74	23.1	86	80	52	0	0	3	1	1	
CT HARTFORD	70	51	76	45	60	-9	1.6	.6	.7	10.2	100	28.7	101	89	51	0	0	3	2	2	
DC WASHINGTON	83	65	100	58	74	-2	.5	-.5	.3	8.6	76	21.9	83	87	44	1	0	2	0	0	
FL APALACHICOLA	92	74	94	73	83	2	T	-.8	T	13.2	70	36.1	100	97	58	7	0	0	0	0	
FL DAYTONA BEACH	90	72	93	70	81	0	T	-.5	T	11.5	64	31.1	98	96	57	4	0	0	0	0	
FL JACKSONVILLE	96	73	99	67	84	3	1.7	-.1	1.6	13.0	67	30.7	84	97	45	7	0	2	1	1	
FL KEY WEST	90	80	91	76	85	1	1.6	.4	1.5	11.3	87	25.0	110	83	64	6	0	3	1	1	
FL MIAMI	92	80	93	76	86	3	.1	-.6	-.1	13.6	63	26.4	71	85	53	7	0	2	0	0	
FL ORLANDO	95	75	96	73	85	2	.1	-.3	-.1	17.4	82	33.6	94	92	45	7	0	2	0	0	
FL TALLAHASSEE	96	70	97	66	83	2	T	-.5	T	27.8	126	56.4	121	98	44	7	0	1	0	0	
FL TAMPA	94	74	94	70	84	1	.5	-.1	.4	16.7	84	36.7	110	96	50	7	0	2	0	0	
FL WEST PALM BEACH	91	80	92	77	85	3	.4	-.1	.3	12.8	66	31.2	86	87	54	7	0	3	0	0	
GA ATLANTA	93	73	96	71	83	6	T	-.7	T	14.9	132	36.0	103	85	41	7	0	0	0	0	
GA AUGUSTA	98	71	103	69	84	6	.1	-.8	.1	10.2	86	33.0	104	96	41	7	0	1	0	0	
GA MACON	97	72	101	68	85	5	2.0	1.2	1.9	9.0	78	30.7	93	95	40	7	0	3	1	1	
GA SAVANNAH	95	73	99	68	84	4	1.6	.1	1.0	18.0	93	40.7	109	93	47	7	0	2	2	2	
HI HILO	86	71	86	68	78	2	.4	-.8	.2	34.9	144	78.0	94	91	61	0	0	4	0	0	
HI HONOLULU	91	75	93	71	83	3	T	-.1	T	.9	58	3.5	25	87	47	7	0	0	0	0	
HI KAHULUI	89	71	93	67	80	1	T	-.1	T	.6	62	12.8	105	85	47	2	0	0	0	0	
HI LIHUE	87	76	89	72	82	3	.3	-.2	.2	3.9	74	14.7	57	89	58	0	0	3	0	0	
ID BOISE	87	54	94	47	71	1	0	-.1	0	1.4	93	6.5	86	52	18	2	0	0	0	0	
ID LEWISTON	87	58	94	55	73	2	T	-.2	T	4.1	154	7.7	90	56	20	2	0	0	0	0	
ID POCAHELLO	82	47	89	41	65	-2	.7	.5	.6	3.3	161	8.3	115	81	22	0	0	3	1	1	
IL CHICAGO	69	56	77	51	63	-8	3.0	2.2	2.5	23.5	216	32.3	138	97	64	0	0	3	1	1	
IL MOLINE	70	55	80	49	62	-9	6.5	5.7	3.4	18.7	148	28.0	106	97	64	0	0	4	2	2	
IL PEORIA	72	55	81	49	64	-7	1.4	.6	1.0	10.2	93	18.0	73	99	61	0	0	3	1	1	
IL QUINCY	76	57	83	51	67	-6	.3	-.6	.3	11.7	97	20.4	78	97	61	0	0	4	0	0	
IL ROCKFORD	68	54	76	47	61	-9	3.2	2.4	2.5	19.7	158	29.1	114	97	67	0	0	2	2	2	
IL SPRINGFIELD	77	58	90	51	68	-5	.9	.2	.6	11.4	111	18.9	79	98	55	1	0	3	0	0	
IN EVANSVILLE	85	62	96	57	74	-1	.4	-.3	.4	9.6	93	22.2	76	89	43	1	0	3	1	1	
IN FORT WAYNE	71	53	82	44	62	-8	4.0	3.3	2.9	14.0	139	23.6	98	97	67	0	0	4	2	2	
IN INDIANAPOLIS	77	56	92	50	66	-5	.4	-.3	.2	14.2	123	23.3	85	95	51	1	0	4	0	0	
IN SOUTH BEND	69	54	75	51	62	-8	2.0	1.1	1.6	10.5	93	21.5	84	96	65	0	0	4	1	1	
IA DES MOINES	69	55	83	52	62	-10	4.7	3.7	3.5	17.2	154	28.6	127	97	66	0	0	3	2	2	
IA SIOUX CITY	69	53	86	49	61	-10	.7	0	.6	9.9	96	21.2	110	97	61	0	0	3	1	1	
IA WATERLOO	69	51	81	45	60	-9	1.6	.9	.9	16.6	134	25.0	104	98	62	0	0	3	2	2	
KS CONCORDIA	76	59	85	56	67	-8	.7	0	.5	10.4	97	29.2	144	90	57	0	0	3	1	1	
KS DODGE CITY	76	58	88	53	67	-10	.8	.2	.3	10.7	127	20.5	129	96	56	0	0	4	0	0	
KS GOODLAND	73	53	88	50	63	-8	.1	-.3	0	8.9	128	16.7	131	98	55	0	0	5	0	0	
KS TOPEKA	77	58	92	52	68	-8	2.0	1.2	1.5	13.6	108	29.6	124	96	54	1	0	4	1	1	
KS WICHITA	77	60	91	54	68	-10	2.4	1.8	1.4	14.4	140	31.8	158	97	60	1	0	5	1	1	
KY BOWLING GREEN	88	63	98	57	75	0	.2	-.6	.2	13.3	111	29.2	85	93	42	3	0	1	0	0	
KY LEXINGTON	85	61	95	56	73	-1	.7	-.1	.7	14.2	110	26.3	80	89	41	2	0	1	1	1	
KY LOUISVILLE	84	63	96	58	74	-2	.8	.1	.6	11.6	108	23.8	79	85	44	2	0	2	2	2	
LA ALEXANDRIA	92	72	94	69	82	0	1.4	.5	.8	11.5	93	38.1	103	98	58	6	0	4	1	1	
LA BATON ROUGE	93	74	95	72	83	3	1.3	.2	.7	23.7	159	50.3	127	97	54	6	0	4	1	1	
LA LAKE CHARLES	95	74	97	71	85	3	1.3	.1	.9	23.0	159	43.9	126	96	49	7	0	4	1	1	
LA NEW ORLEANS	93	74	94	72	83	2	1.3	0	1.0	26.4	156	52.7	127	100	54	7	0	2	1	1	

Based on 1951-80 normals.

Weather Data for the Week Ending August 29, 1987

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 JUNE 6	PCT. NORMAL SINCE JUNE 6	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
SHREVEPORT	96	73	100	69	84	3	T	-5	T	8.9	96	27.5	92	93	40	7	0	1	0
ME CARIBOU	64	42	72	35	53	-8	.1	-8	.1	8.5	78	17.3	74	93	44	0	0	3	0
PORTLAND	68	48	75	41	58	-7	.4	-2	.4	9.3	110	27.8	103	87	48	0	0	2	0
MD BALTIMORE	81	60	95	52	71	-3	.1	-1.0	T	9.1	76	24.1	85	92	44	1	0	2	0
SALISBURY	85	61	96	52	73	-1	T	-1.2	T	6.8	51	25.1	82	95	41	2	0	1	0
MA BOSTON	69	57	77	55	63	-7	1.4	.5	1.1	6.4	71	29.9	107	82	53	0	0	3	1
CHATHAM	78	57	75	53	64	-3	1.2	.3	1.0	5.7	60	32.0	108	88	64	0	0	3	1
MI ALPENA	72	49	76	43	60	-3	.1	-6	.1	8.7	96	14.4	74	96	48	0	0	1	0
DETROIT	68	53	74	48	61	-8	2.6	1.9	2.1	16.1	170	25.8	120	95	58	0	0	3	1
FLINT	68	50	74	40	59	-8	1.1	.3	1.0	8.5	92	15.6	78	100	62	0	0	2	1
GRAND RAPIDS	68	53	73	49	68	-8	1.0	.3	1.0	14.9	157	20.5	93	97	59	0	0	3	1
HOUGHTON LAKE	68	52	74	43	60	-3	.1	-6	.1	9.0	103	14.0	75	89	50	0	0	2	0
LANSING	68	53	75	46	60	-7	1.3	.6	1.2	12.6	135	17.8	89	95	58	0	0	3	1
MARQUETTE	68	43	76	39	56	-7	T	-7	T	10.3	117	21.6	110	94	50	0	0	1	0
MUSKOGON	68	53	72	46	60	-7	.9	.2	.9	11.0	142	20.1	101	94	58	0	0	1	1
SAULT ST. MARIE	69	46	77	41	58	-4	.1	-8	.1	9.9	105	16.8	82	95	47	0	0	2	0
MN ALEXANDRIA	71	52	83	47	62	-4	T	-7	T	5.7	55	12.4	68	89	46	0	0	2	0
DULUTH	70	49	76	41	59	-2	.3	-6	.2	8.1	69	13.8	67	96	52	0	0	4	0
INT'L FALLS	71	45	79	39	58	-3	.5	-1	.3	11.4	112	16.4	97	97	44	0	0	3	0
MINNEAPOLIS	71	54	80	48	62	-6	.3	-5	.2	23.5	215	27.0	139	91	54	0	0	2	0
ROCHESTER	68	50	77	43	59	-7	1.6	.8	1.0	14.8	136	20.0	100	98	60	0	0	4	2
MS GREENWOOD	93	70	99	65	81	2	T	-6	T	8.0	76	30.5	83	91	46	5	0	0	0
JACKSON	94	71	98	69	82	2	.2	-6	.2	11.3	102	37.8	104	97	47	6	0	1	0
MERIDIAN	94	70	97	68	82	2	T	-7	T	11.5	96	42.2	112	99	43	6	0	1	0
MO CAPE GIRARDEAU	87	65	95	55	76	-1	.2	-7	.2	13.4	127	25.4	83	88	46	3	0	1	0
COLUMBIA	78	59	91	55	69	-6	.6	-2	.3	10.5	107	19.9	79	92	57	1	0	4	0
KANSAS CITY	77	58	90	52	67	-9	1.0	.1	.8	12.2	99	25.1	100	95	60	1	0	3	1
SAINT LOUIS	80	64	95	59	72	-4	1.1	.5	.8	14.2	146	23.5	98	88	53	1	0	2	1
SPRINGFIELD	80	61	91	54	70	-5	1.6	.9	.7	12.8	117	31.6	120	96	62	1	0	3	2
MT BILLINGS	71	52	80	44	62	-6	.8	.5	.5	5.0	130	11.1	103	89	45	0	0	4	0
GLASGOW	72	52	82	45	62	-5	.4	.1	.3	4.9	89	8.5	98	85	43	0	0	3	0
GREAT FALLS	69	48	81	42	59	-7	1.6	1.3	1.2	6.8	135	12.2	105	89	43	0	0	3	1
HAVRE	72	49	83	43	60	-5	.5	.2	.4	4.4	94	7.0	78	84	39	0	0	2	0
HELENA	71	47	85	39	59	-5	.1	-2	.1	4.8	114	8.6	99	84	39	0	0	2	0
KALISPELL	75	47	84	42	61	-1	.4	.1	.4	6.5	147	12.8	119	91	34	0	0	2	0
MILES CITY	73	52	82	46	63	-7	1.1	.8	.7	5.9	108	11.1	102	73	38	0	0	3	1
MISSOULA	77	47	85	37	62	-2	.4	.2	.2	5.0	142	8.7	95	89	33	0	0	2	0
NE GRAND ISLAND	70	54	86	48	62	-11	2.6	2.0	2.3	8.1	92	21.8	122	97	55	0	0	2	1
LINCOLN	71	55	84	51	63	-10	2.5	1.8	2.5	12.3	121	25.7	125	98	57	0	0	2	1
NORFOLK	70	52	86	47	61	-10	1.1	.5	1.0	7.6	76	22.2	119	96	58	0	0	2	1
NORTH PLATTE	73	50	89	45	61	-9	.5	.1	.3	7.9	93	15.5	99	96	51	0	0	4	0
OMAHA	68	54	82	53	61	-12	2.4	1.5	1.7	14.1	122	27.6	124	94	70	0	0	3	2
SCOTTSSBLUFF	74	48	89	43	61	-8	.1	-1	.1	8.7	149	20.2	173	94	41	0	0	3	0
VALENTINE	73	49	91	40	61	-9	.4	-1	.4	9.0	118	17.2	125	86	44	1	0	1	0
NV ELY	82	43	89	34	63	-1	T	-1	T	4.4	224	9.4	150	69	18	0	0	1	0
LAS VEGAS	99	70	102	68	85	-1	T	-1	T	.3	26	3.4	127	39	13	7	0	0	0
RENO	90	50	95	48	70	5	T	-1	T	1.2	145	6.1	125	60	13	4	0	0	0
WINNEMUCCA	90	46	98	40	68	2	0	-1	0	.6	45	6.9	134	38	12	3	0	0	0
NH CONCORD	67	45	74	36	56	-10	.6	-2	.4	12.1	136	24.4	106	96	50	0	0	3	0
NJ ATLANTIC CITY	80	55	87	47	67	-5	.2	-8	.2	10.9	97	30.9	109	93	49	0	0	2	0
NM ALBUQUERQUE	79	59	84	54	69	-6	.8	.5	.7	4.0	126	6.9	131	88	38	0	0	3	1
CLOVIS	77	61	83	57	69	-6	4.8	4.3	2.6	13.5	172	18.8	154	93	60	0	0	6	4
ROSWELL	79	62	87	59	71	-6	.8	.3	.5	8.9	192	13.1	189	98	51	0	0	6	0
NY ALBANY	60	48	76	40	58	-10	1.5	.7	.6	9.3	100	21.6	93	98	52	0	0	3	2
BINGHAMTON	65	51	72	45	58	-8	2.5	1.7	1.8	11.6	114	22.8	94	93	60	0	0	3	2
BUFFALO	69	54	72	51	62	-6	1.1	.1	.4	14.7	154	26.8	113	89	53	0	0	4	0
NEW YORK	74	61	81	59	68	-6	1.4	.5	.8	14.9	138	31.5	112	80	48	0	0	3	2
ROCHESTER	68	52	73	48	60	-8	.8	0	.3	12.9	156	22.3	108	96	54	0	0	4	0
SYRACUSE	69	53	76	51	61	-7	.8	-1	.3	9.3	86	19.5	76	89	49	0	0	4	0
NC ASHEVILLE	86	63	90	58	75	3	.4	-5	.3	12.6	108	30.7	101	96	49	2	0	2	0
CHARLOTTE	93	72	98	69	82	5	.4	-5	.4	7.1	65	24.2	80	85	37	5	0	1	0
GREENSBORO	90	68	96	62	79	4	T	-9	T	10.3	85	32.6	111	88	44	4	0	0	0
HATTERAS	86	73	90	70	80	2	.3	-1.1	.3	14.2	92	44.4	125	89	56	1	0	2	0
NEW BERN	90	72	96	68	81	3	.9	-5	.9	20.8	116	41.6	113	89	53	4	0	1	1
RALEIGH	88	69	96	63	79	3	T	-9	T	6.2	51	27.1	92	92	51	3	0	1	0
WILMINGTON	90	72	94	68	81	2	1.1	-3	.6	19.2	99	36.7	97	96	59	5	0	4	1
ND BISMARCK	71	49	89	39	60	-6	.6	.2	.4	9.2	139	16.6	140	99	55	0	0	3	0
FARGO	73	51	87	41	62	-4	.9	.4	.5	6.8	76	12.0	81	94	50	0	0	4	0
GRAND FORKS	74	48	85	37	61	-4	.8	.2	.7	10.1	123	16.0	118	95	46	0	0	3	1
WILLISTON	70	50	81	46	60	-6	.2	-1	.2	6.2	107	10.7	103	88	47	0	0	3	0
OH AKRON-CANTON	70	56	74	49	63	-6	1.0	.3	.6	9.5	92	21.3	85	95	62	0	0	4	1
CINCINNATI	80	60	94	55	70	-3	.8	.2	.5	12.0	108	24.7	87	87	45	1	0	3	1
CLEVELAND	68	56	71	50	62	-8	1.7	1.0	1.2	16.7	168	28.4	118	93	64	0	0	4	1
COLUMBUS	77	58	83	54	67	-4	1.3	.5	1.0	10.4	91	19.0	71	94	51	0	0	4	1

Based on 1951-80 normals.

Weather Data for the Week Ending August 29, 1987

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 JUNE 6	PCT. NORMAL SINCE JUNE 6	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	OR MORE
DAYTON	76	56	91	46	66	-6	.3	-.4	.2	8.1	81	18.3	74	96	53	1	0	4	0	0
TOLDO	69	51	74	42	60	-6	2.4	1.8	1.4	11.2	116	19.4	89	97	63	0	0	4	4	2
YOUNGSTOWN	68	52	71	42	60	-6	.7	-.1	.4	16.3	152	27.5	107	99	63	0	0	3	0	0
OK OKLAHOMA CITY	84	65	95	58	75	-5	1.5	.9	.9	11.3	124	32.5	149	93	48	3	0	3	3	2
TULSA	84	66	96	59	75	-5	2.4	1.7	1.9	10.2	95	30.2	115	87	51	2	2	2	2	1
OR ASTORIA	69	52	78	47	61	0	0	-.4	0	1.9	37	32.7	85	93	65	0	0	0	0	0
BURNS	85	47	92	39	66	1	0	-.1	0	2.0	131	7.1	101	***	***	2	2	2	2	0
MEDFORD	96	54	102	52	75	5	5	0	0	1.5	111	9.4	86	73	16	7	0	0	0	0
PENDLETON	88	58	92	55	73	3	0	-.1	0	.8	53	5.6	76	49	19	2	2	2	1	0
PORTLAND	88	57	91	53	73	0	0	-.3	0	1.5	52	19.5	93	82	26	3	3	0	0	0
SALEM	88	51	91	47	70	0	0	-.2	0	2.9	132	21.9	98	85	26	2	2	2	0	0
PA ALLENTOWN	71	54	76	47	63	-6	1.6	.6	.9	15.0	128	28.8	98	92	56	0	0	4	4	1
ERIE	67	56	71	50	62	-6	3.6	2.6	2.1	16.8	152	27.8	111	88	60	0	0	4	3	3
HARRISBURG	74	56	78	49	65	-5	1.0	-.2	.7	8.3	82	21.6	83	89	54	0	0	3	3	1
PHILADELPHIA	77	60	81	53	68	-6	1.1	-.2	.8	10.1	87	23.8	85	90	51	0	0	3	3	1
PITTSBURGH	71	55	78	46	63	-6	1.7	1.0	1.3	16.6	160	29.7	115	94	58	0	0	4	1	1
SCRANTON	69	52	75	43	60	-8	2.4	1.6	1.8	13.5	135	24.6	107	92	54	0	0	3	2	2
RI PROVIDENCE	71	54	80	48	62	-7	1.4	.5	.7	5.8	60	25.2	87	88	55	0	0	2	2	1
SC CHARLESTON	94	74	97	71	84	5	.6	-.8	.6	11.2	56	32.2	85	95	52	6	6	2	0	0
COLUMBIA	96	73	101	70	85	5	.1	-1.1	-.1	16.9	112	37.5	104	94	40	6	6	2	1	1
FLORENCE	92	72	96	69	82	3	1.3	-.3	1.2	10.4	70	27.1	85	95	52	5	5	0	0	0
GREENVILLE	93	69	97	67	81	4	0	0	0	13.0	104	33.7	95	91	44	5	5	0	0	0
SD ABERDEEN	72	49	93	39	60	-8	.2	-.3	-.1	4.6	62	9.9	71	94	46	1	1	4	0	0
HURON	71	49	91	40	60	-9	.1	-.3	-.1	6.7	91	15.6	108	95	56	1	0	2	0	0
RAPID CITY	74	51	92	43	63	-7	.3	-.3	-.3	4.6	68	10.8	82	88	43	1	0	3	0	0
SIoux FALLS	70	51	90	43	61	-9	.5	-.3	-.3	6.3	68	13.2	74	98	56	1	0	3	0	0
TN CHATTANOOGA	91	69	95	63	80	3	1	-.7	.1	10.5	95	35.8	100	91	43	5	5	1	1	0
KNOXVILLE	92	66	97	62	79	3	7	-.6	.7	8.4	76	27.5	83	90	40	5	0	1	0	0
MEMPHIS	89	71	96	65	80	0	.7	-.2	.7	9.8	89	27.4	76	86	49	5	0	1	1	0
NASHVILLE	91	67	98	63	79	2	.1	-.7	.1	5.9	98	17.8	115	85	42	4	0	1	1	0
TX ABILENE	88	67	96	60	78	-4	.6	-.6	.6	6.7	96	17.8	115	85	42	4	0	1	1	0
AMARILLO	75	57	85	52	66	-9	1.1	.5	.5	7.4	83	15.3	105	99	57	0	0	5	1	0
AUSTIN	93	75	98	72	84	0	0	-.6	T	14.3	206	26.7	134	100	53	5	0	3	0	0
BEAUMONT	94	74	98	73	84	2	.3	-1.0	.2	17.6	110	39.0	107	100	53	7	0	2	0	0
BROWNSVILLE	96	77	97	75	86	2	.5	-.3	.4	7.1	105	15.3	112	94	46	7	0	2	0	0
CORPUS CHRISTI	93	75	95	71	84	0	.2	-.9	.2	8.2	86	22.2	119	95	51	6	0	2	1	1
DEL RIO	92	73	97	66	82	-2	1.9	1.5	1.6	9.6	197	20.0	186	81	41	5	0	2	1	1
EL PASO	83	63	88	60	73	-6	1.0	.8	.9	5.1	159	6.7	142	93	43	0	0	3	1	1
FORT WORTH	92	73	101	64	82	-1	.8	-.3	.8	6.0	95	18.6	90	84	43	4	0	1	1	0
GALVESTON	92	80	96	77	86	3	.5	-.6	.5	12.7	112	25.9	105	80	55	7	0	2	0	0
HOUSTON	97	74	99	73	86	4	.1	-.9	.1	14.6	124	28.0	94	96	42	7	0	2	0	0
LUBBOCK	81	60	88	57	70	-6	1.7	1.2	1.0	8.5	119	14.3	114	100	57	0	0	4	2	2
MIDLAND	86	64	94	61	75	-4	.6	.2	.3	3.9	86	12.0	136	92	44	3	0	3	0	0
SAN ANGELO	87	69	97	64	78	-4	1.4	.9	.7	5.1	108	24.5	219	89	49	4	0	3	1	1
SAN ANTONIO	94	74	99	70	84	1	.2	-.5	.2	9.1	123	30.4	165	90	40	5	0	2	0	0
VICTORIA	95	75	97	73	85	2	.5	-.5	.5	17.2	169	29.2	129	96	46	7	0	1	0	0
WACO	93	75	102	69	84	-1	T	-.5	T	7.5	123	19.9	98	83	40	4	0	0	0	0
WICHITA FALLS	89	67	100	61	78	-5	.7	.2	.5	7.4	109	25.7	145	89	44	4	0	2	1	1
UT BLANDING	76	51	81	46	64	-5	2.9	2.6	1.6	8.5	306	13.5	189	85	54	0	0	2	0	0
CEDAR CITY	83	52	89	47	67	-3	.4	-.1	.3	2.7	102	7.4	107	84	26	0	0	0	0	0
SALT LAKE CITY	85	59	90	52	72	-1	.7	-.2	T	1.3	53	9.0	85	63	21	2	2	0	0	0
VT BURLINGTON	68	48	72	40	58	-8	.3	-.1	.6	9.3	87	17.1	78	92	46	0	0	3	1	1
VA NORFOLK	86	68	98	60	77	-1	.3	-.8	.2	8.0	59	29.8	96	89	44	2	0	4	0	0
RICHMOND	85	64	98	56	75	-1	.1	-1.0	.1	8.1	60	28.1	95	93	42	2	0	1	0	0
ROANOKE	86	62	96	55	74	0	.1	-.8	0	4.7	45	32.0	120	92	43	1	0	2	0	0
WA COOLVILLE	85	53	88	47	69	4	0	-.3	0	4.2	125	12.6	115	65	31	0	0	0	0	0
QUILLAYUTE	71	49	79	43	60	1	T	-.8	T	3.7	45	54.8	93	97	55	0	0	0	0	0
SEATTLE-TACOMA	81	54	85	52	68	4	0	-.3	0	.9	27	19.4	92	90	37	0	0	0	0	0
SPOKANE	82	55	86	50	69	2	.3	-.2	.3	4.7	199	11.2	110	74	26	0	0	1	0	0
YAKIMA	89	51	92	49	70	3	0	-.1	0	.5	44	4.3	91	81	21	4	0	0	0	0
WV BECKLEY	78	57	87	52	67	0	.6	-.2	.5	9.6	79	28.5	96	88	49	0	0	2	1	1
CHARLESTON	81	60	92	52	71	-2	1.0	-.2	.7	11.2	89	25.6	85	97	48	1	0	4	1	1
HUNTINGTON	82	61	92	54	72	-2	.5	-.3	.3	6.9	59	23.6	81	96	51	2	0	3	0	0
PARKERSBURG	79	58	89	49	69	-4	.5	-.3	.4	7.1	63	17.6	65	93	51	0	0	0	0	0
WI GREEN BAY	71	50	75	41	60	-5	0	-.7	0	7.4	80	14.7	77	94	53	0	0	2	1	1
LACROSSE	71	54	77	46	62	-7	1.0	.2	1.0	15.9	140	26.4	122	97	54	0	0	2	1	1
MADISON	68	51	74	43	59	-8	1.0	.2	.9	11.6	104	21.2	97	96	62	0	0	2	1	1
MILWAUKEE	68	55	75	50	61	-7	1.6	.9	1.5	15.5	155	27.7	129	90	58	0	0	2	1	1
WAUSAU	71	51	78	41	61	-4	T	-.9	T	10.1	86	16.0	72	92	46	0	0	0	0	0
WY CASPER	74	47	86	39	60	-6	1.2	1.1	.9	4.5	159	10.6	125	90	36	0	0	3	1	1
CHEYENNE	68	48	81	45	58	-7	.4	.1	.2	5.3	103	12.7	120	91	50	0	0	4	0	0
LANDER	72	50	86	43	61	-5	.9	.8	.5	3.4	133	11.9	124	84	39	0	0	3	0	0
SHERIDAN	74	48	84	38	61	-5	.5	.3	.3	5.1	126	10.8	98	91	39	0	0	3	0	0
PR SAN JUAN	91	77	92	76	84	2	.3	-1.1	.1	12.1	79	41.5	130	93	76	7	0	4	0	0

Based on 1951-80 normals.

Cooling Degree Days Summary

CLIMATE ANALYSIS CENTER-NHC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 8-29-1987
ACCUMULATIONS ARE FROM JANUARY 1
\*\* = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL WEEK, WEEK WEEK, CUM CUM CUM CUM CUM, STATE CITY, CALL WEEK, WEEK WEEK, CUM CUM CUM CUM CUM. Lists cooling degree days for various cities across the US.

## National Agricultural Summary

August 24 to 30, 1987

**HIGHLIGHTS:** Rain promoted growth, but cooler temperatures slowed crop development from Texas through the central Great Plains and the Corn Belt. The rain mostly benefited soybeans and late-planted corn. Inadequate moisture continued plaguing crops in the Southeast. Soil moisture was mostly adequate in the northern and central Great Plains and the Corn Belt. Moisture was becoming short in the Delta. Fieldwork averaged 5 to 6 days in most areas but was restricted to less than 5 days in the Corn Belt and central Great Plains.

Winter wheat harvest neared completion in the Pacific Northwest. A few fields remained to be harvested in Oregon and Idaho. Seeding was underway in Minnesota, Utah, South Dakota, Nebraska, Wyoming, Mississippi, Washington, and New Mexico. Spring wheat was 86 percent (%) harvested, 10 percentage points above the 5-year average and 11 points above the previous week. Corn harvest began spreading across the Corn Belt but was mostly concentrated in the Southeast and Delta. Corn maturity was nearly 3 times greater than normal at 32% completion. Soybeans dropped leaves on 12% of the acreage, 10 points above normal. Harvest was underway in Illinois, Indiana, Ohio, and Texas. Sorghum harvest reached 20% completion, equaling the average. Cotton opening bolls totaled 34%, compared with 21% normally. Producers were harvesting in Louisiana, Arkansas, Arizona, and Texas. Rice was 27% harvested, 3 points above normal. Fields were drained in California in preparation for an early harvest. Livestock was mostly good.

**SMALL GRAINS:** Spring wheat was 86% combined, compared with 70% in 1986 and the 76% average. Harvest was ahead of normal in all States except Montana, which lagged 12 points behind its 78% average. Harvest was up 11 points from the previous week, but rain delayed it somewhat. In Minnesota, harvest neared completion but was finished in South Dakota. North Dakota's spring wheat harvest was 85% finished, 13 points above normal. Harvest reached 72% completion in Idaho, 12 points above the previous week and 17 points above the average.

Winter wheat harvest neared completion in the Pacific Northwest. Idaho's wheat was 91% harvested, 13 points above normal. Winter wheat harvest reached 94% completion in Oregon and was finished in Washington. Winter wheat seeding reached 32 and 36% completion in Minnesota and Utah, respectively. Normally, 15% would be seeded in Minnesota and only 2% in Utah. Seeding was underway in South Dakota, Nebraska, Wyoming, Mississippi, Washington, and New Mexico. Seeds were germinating in New Mexico. Winter wheat seedbed preparation gained momentum in the Corn Belt and was starting earlier than normal in California.

**CORN:** Rain from Texas through the central Plains and the Corn Belt caused very little change in crop condition, with corn development and maturity so far ahead of normal. The rain and cooler temperatures slowed maturity a little but were mostly beneficial to late planted fields. Corn was reaching maturity nearly 3 times faster than normal with 32% of the acreage mature. Maturity was ahead of normal in all major producing States, except North Carolina and Texas. Denting was 34 points ahead of the 51% average. Corn harvest was 3% finished but was much further along in the Southeast and Delta than in other areas. Harvest moved into the Corn Belt reaching as far north as Illinois.

**SOYBEANS:** Cooler temperatures and rain slowed soybean development in the central Plains and the Corn Belt giving pods more time to fill, especially in double-crop soybeans. The soybean crop was mostly good in the central Plains and the Corn Belt and fair to good in the Delta and Southeast. Inadequate moisture continued plaguing growth and development in the Southeast. Ninety-three percent of the acreage had set pods, compared with 92% last year and the 89% average. Pod setting was ahead of normal except in the Delta and Southeast. Soybeans shed leaves on 12% of the acreage, 10 points above the average. Soybean harvest was underway in Illinois, Indiana, Ohio, and Texas.

**SORGHUM:** Grain sorghum was 20% harvested, 2 points below 1986 but equaling the average. Harvest was concentrated mostly in the Delta, the Southeast, and Texas. Heading was virtually finished except in Oklahoma. Sixty-two percent turned color, and 28% was mature. Harvest progressed rapidly in Arkansas and Mississippi and was 15 and 20 points ahead of normal, respectively.

**COTTON:** Cooler temperatures slowed cotton development in the Delta and lower Great Plains. The crop was good to fair in the Delta and Plains States but mostly fair to good in the Southeast. Bolls were open on 34% of the acreage, compared with 30% last year and 21% normally. Bolls were opening ahead of normal in nearly all States. Cotton harvest began winding down at Coastal Bend but continued in the Rio Grande Valley and eastern areas of Texas. Harvest reached 10% completion equaling the average. Farmers began harvesting drought-stressed cotton in Arkansas. Harvest was underway in Arizona and Louisiana.

**OTHER CROPS:** Rice was 27% harvested, up 7 points from the previous week and 3 points above normal. Harvest was underway in all States except California. Rice fields were drained in California in preparation for an early harvest. Rice harvest progressed rapidly in Texas and neared completion along the Upper Coast. In Texas, harvest was 96% finished, compared with 79% normally.

Peanut harvest gained momentum in the Southeast. Harvest was underway in all States except North Carolina and Virginia. Twenty-four percent of Mississippi acreage was dug, compared with 28% normally. In Texas, peanuts benefited from moisture in the Plains, but hot, dry weather slowed pegging in central areas.

Flue-cured tobacco harvest approached completion in Georgia and South Carolina but lagged behind normal in most Southeast States. Burley tobacco harvest was ahead of normal in virtually all States.

**FRUIT AND NUTS:** Apple harvest gained momentum throughout the Nation. Apple harvest was in full swing in Washington's early areas. McIntosh harvest is expected to begin soon in New York. Fresh grapefruit were tested for harvest in Florida. Citrus groves were dry and irrigation continued. Early table grape harvest neared completion in California. Raisin grapes were dried, and late stone fruit was picked. The Valencia orange harvest slowed.

**VEGETABLES:** In Florida, tomato, pepper, celery, and squash planting increased. Heat stressed young plants. Rain slowed vegetable harvest in the High Plains. Peppers and tomatoes were trans-

(Continued to back cover)

Crop Progress

FOR WEEK ENDING AUGUST 30, 1987

	CORN % DENT		
	1987	1986	AVG.
COLO	39	40	41
GA	100	100	99
ILL	96	85	71
IND	99	77	48
IOWA	92	63	49
KANS	70	75	45
KY	93	87	72
MICH	75	20	20
MINN	89	47	35
MO	95	100	81
NEBR	70	60	36
N C	89	98	94
OHIO	94	77	61
PA	46	34	25
S DAK	67	35	33
TEX	92	92	89
WIS	62	28	27

17 STATES 85 65 51

THESE 17 STATES PRODUCED 94% OF THE 1986 CORN CROP.

	CORN % MATURE		
	1987	1986	AVG.
COLO	1	0	0
GA	100	100	96
ILL	48	27	14
IND	60	29	7
IOWA	30	6	2
KANS	40	40	15
KY	45	44	23
MICH	10	1	2
MINN	5	2	1
MO	57	67	31
NEBR	10	2	0
N C	68	81	74
OHIO	36	11	6
PA	7	5	2
S DAK	15	10	6
TEX	69	73	69
WIS	12	3	2

17 STATES 32 19 11

THESE 17 STATES PRODUCED 94% OF THE 1986 CORN CROP.

	CORN % HARVESTED		
	1987	1986	AVG.
COLO	0	0	0
GA	48	71	56
ILL	3	1	0
IND	3	0	0
IOWA	0	0	0
KANS	0	0	0
KY	4	5	2
MICH	0	0	0
MINN	0	0	0
MO	9	7	4
NEBR	0	0	0
N C	8	9	9
OHIO	1	0	0
PA	0	0	0
S DAK	0	0	0
TEX	62	64	51
WIS	0	0	0

17 STATES 3 3 2

THESE 17 STATES PRODUCED 94% OF THE 1986 CORN CROP.

	RICE % HEADED		
	1987	1986	AVG.
ARK	98	97	88
CALIF	85	75	70
LA	98	100	95
MISS	99	100	95
TEX	100	100	100

5 STATES 96 95 89

THESE 5 STATES PRODUCED 97% OF THE 1986 RICE CROP.

	RICE % HARVESTED		
	1987	1986	AVG.
ARK	8	9	5
CALIF	0	0	0
LA	59	71	58
MISS	4	40	12
TEX	96	86	79

5 STATES 27 31 24

THESE 5 STATES PRODUCED 97% OF THE 1986 RICE CROP.

	SPRING WHEAT % HARVESTED		
	1987	1986	AVG.
IDAHO	72	66	55
MINN	98	66	75
MONT	66	72	78
N DAK	85	64	72
S DAK	100	91	95

5 STATES 86 70 76

THESE 5 STATES PRODUCED 94% OF THE 1986 SPRING WHEAT CROP.

	SOYBEANS % SETTING PODS		
	1987	1986	AVG.
ALA	64	79	79
ARK	79	68	68
GA	90	82	84
ILL	100	100	99
IND	100	99	93
IOWA	100	100	98
KANS	90	95	75
KY	82	77	70
LA	92	90	87
MICH	98	95	95
MINN	100	98	98
MISS	67	71	73
MO	95	95	83
NEBR	100	96	94
N C	60	67	63
OHIO	100	100	100
S C	64	56	65
S DAK	100	87	93
TENN	85	80	80

19 STATES 93 92 89

THESE 19 STATES PRODUCED 96% OF THE 1986 SOYBEANS CROP.

	SOYBEANS % DROPPING LEAVES		
	1987	1986	AVG.
ALA	0	NA	NA
ARK	1	0	1
GA	4	3	4
ILL	22	10	4
IND	25	3	1
IOWA	10	1	1
KANS	15	10	5
KY	12	14	6
LA	3	2	1
MICH	5	1	2
MINN	7	1	1
MISS	2	10	NA
MO	7	8	2
NEBR	4	0	0
N C	0	0	0
OHIO	19	8	2
S C	0	0	0
S DAK	22	6	9
TENN	7	6	2

19 STATES 11 NA NA

EXCL. STATES WITH NA 12 5 2

THESE 19 STATES PRODUCED 96% OF THE 1986 SOYBEANS CROP.

NA - NOT AVAILABLE.

	COTTON % BOLLS OPENING		
	1987	1986	AVG.
ALA	30	21	19
ARIZ	60	50	60
ARK	61	51	25
CALIF	45	25	16
GA	32	33	25
LA	51	72	36
MISS	60	85	42
MO	91	14	16
N MEX	25	68	56
N C	35	23	22
OKLA	10	3	2
S C	22	37	40
TENN	25	20	15
TEX	22	15	15

14 STATES 34 30 21

THESE 14 STATES PRODUCED 100% OF THE 1986 COTTON CROP.

GRAIN SORGHUM  
% HEADED

	1987	1986	AVG.
ARK	100	97	NA
ILL	100	100	NA
KANS	95	96	80
LA	100	100	99
MISS	100	100	98
MO	100	100	92
NEBR	100	100	96
OKLA	85	85	90
S DAK	100	93	91
TENN	100	100	100
TEX	98	94	94
11 STATES	97	96	NA
EXCL. STATES WITH NA	97	96	89

THESE 11 STATES PRODUCED 96% OF THE 1986 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

GRAIN SORGHUM  
% COLORING

	1987	1986	AVG.
ARK	91	87	NA
ILL	85	53	NA
KANS	40	45	20
LA	95	99	94
MISS	94	90	NA
MO	83	77	72
NEBR	70	35	23
OKLA	60	45	55
S DAK	59	40	34
TENN	85	85	55
TEX	73	72	74
11 STATES	64	59	NA
EXCL. STATES WITH NA	62	57	46

THESE 11 STATES PRODUCED 96% OF THE 1986 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

GRAIN SORGHUM  
% MATURE

	1987	1986	AVG.
ARK	73	65	NA
ILL	25	14	NA
KANS	5	5	1
LA	72	92	77
MISS	76	76	58
MO	45	33	25
NEBR	6	0	0
OKLA	5	10	10
S DAK	6	2	2
TENN	50	55	30
TEX	58	62	63
11 STATES	30	30	NA
EXCL. STATES WITH NA	28	28	25

THESE 11 STATES PRODUCED 96% OF THE 1986 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

Crop Condition

FOR WEEK ENDING AUGUST 30, 1987

GRAIN SORGHUM  
% HARVESTED

	1987	1986	AVG.
ARK	37	46	22
ILL	0	0	0
KANS	0	0	0
LA	44	78	54
MISS	39	47	19
MO	12	8	2
NEBR	0	0	0
OKLA	0	0	1
S DAK	0	0	0
TENN	5	15	8
TEX	53	54	58
11 STATES	20	22	20

THESE 11 STATES PRODUCED 96% OF THE 1986 GRAIN SORGHUM CROP.

RICE

STATE	VP	P	F	G	EX
ARK	0	5	15	80	0
CALIF	0	0	0	75	25
LA	0	11	13	76	0
MISS	0	30	23	47	0

GRAIN SORGHUM

STATE	VP	P	F	G	EX
ARK	0	1	21	68	10
ILL	0	0	25	72	3
KANS	1	6	4	39	50
LA	0	2	37	61	0
MISS	0	3	38	51	8
MO	0	1	25	69	5
NEBR	0	0	6	76	18
OKLA	0	1	14	85	0
S DAK	0	1	23	64	12
TENN	0	11	54	34	1
TEX	0	1	20	58	21

CORN

STATE	VP	P	F	G	EX
COLO	0	1	16	67	16
GA	0	3	35	53	9
ILL	0	2	21	62	15
IND	0	3	14	64	19
IOWA	0	1	11	62	26
KANS	0	1	16	45	38
KY	2	2	23	67	6
MICH	5	15	30	40	10
MINN	0	1	18	59	22
MO	1	1	24	65	9
NEBR	0	1	16	80	23
N C	14	29	28	28	1
OHIO	1	5	20	58	16
PA	3	11	23	36	27
S DAK	0	3	19	60	18
TEX	0	1	21	57	21
WISC	0	0	5	50	45

COTTON

STATE	VP	P	F	G	EX
ALA	0	8	53	39	0
ARIZ	0	0	0	85	15
ARK	0	1	12	83	4
CALIF	0	0	0	40	60
GA	0	25	25	50	0
LA	0	0	20	80	0
MISS	0	9	26	64	1
MO	0	0	9	91	0
N MEX	0	0	25	75	0
N C	4	4	56	36	0
OKLA	0	0	25	75	0
S C	1	1	98	0	0
TENN	1	5	45	44	5
TEX	0	1	29	54	16

SOYBEANS

STATE	VP	P	F	G	EX
ALA	2	10	64	24	0
ARK	0	17	17	66	0
GA	10	12	48	30	0
ILL	0	5	28	63	4
IND	0	7	23	61	9
IOWA	0	1	12	70	17
KANS	0	3	11	36	50
KY	1	14	52	33	0
LA	0	11	20	61	8
MICH	2	13	30	40	15
MINN	0	2	19	60	19
MISS	0	20	43	36	1
MO	0	4	39	53	4
NEBR	0	0	15	73	12
N C	4	17	52	27	0
OHIO	1	7	29	53	10
S C	1	5	70	24	0
S DAK	0	1	12	65	22
TENN	0	22	59	18	1

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

## State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service.

**ALABAMA:** Rainfall totals ranged from none to 2.00 in.; only isolated rain over State. Temperatures averaged 2 to 4° above normal.

Days suitable for fieldwork 5.6. Soil moisture 95% short, 5% adequate. Corn 92% mature, 95% 1986, 89% avg.; 48% harvested, 50% 1986, 42% avg.; 2% very poor, 5% poor, 34% fair, 57% good, 2% excellent. Sorghum 19% harvested, 28% 1986, 19% avg.; 8% poor, 64% fair, 28% good. Cotton 30% bolls opened, 21% 1986, 19% avg.; 8% poor, 53% fair, 39% good. Soybeans 84% blooming, 97% 1986, 95% avg.; 64% setting pods, 79% 1986, 79% avg.; 15% turning color, 17% 1986, 11% avg.; 2% very poor, 10% poor, 64% fair, 24% good. Peanuts 1% dug, 2% 1986, 4% avg.; 57% fair, 43% good. Pastures mostly fair; livestock mostly good. Primarily activities: Harvesting corn, sorghum, peanuts, vegetables, catfish; applying fungicides to peanuts; spraying for insects on cotton, peanuts, vegetables; repairing harvest equipment; routine care of livestock, poultry.

**ALASKA:** Sunny, mostly dry weather except for some late week scattered showers permitted excellent harvest conditions. Lows 5° below normal to 3° above normal; highs 2 to 8° above normal. Precipitation totals 2.95 in. above normal to 2.94 in. drier than normal.

Days suitable for haymaking 6.0. Topsoil moisture 34% short, 62% adequate, 4% surplus. Subsoil moisture 22% short, 78% adequate. Barley for grain Tanana Valley in ripening stage, 45% harvested; little or none harvested elsewhere. Last year virtually all ripened, 25% harvested. Second cutting hay harvest 50% complete. Potato harvest continued for early markets. Commercial harvest of vegetables continued.

**ARIZONA:** Considerable moisture, instability 24th, 25th caused numerous thunderstorms eastern two-thirds. Monsoon activity decreased 26th, Pacific winds fed drier air into State. Minimum temperatures 27th, 30s high country, 40s 5,000 ft. Sunny skies prevailed 27th, 28th, except for isolated light showers east. Dramatic change 29th brought strong thunderstorms from west central areas eastward. Rainfall for period 0.25 to 1.00 in., except locally over 2.00 in. White Mountains, southeast. Very little, none extreme west. Average temperatures 5° below normal to 1° above.

Cotton harvest continued limited scale west; scraping, residue disposal underway early fields. Bolls matured, opened rapidly all areas; some cut out southeast. Pink bollworms, spider mites, tobacco budworms, whiteflies persist west; active spraying pink bollworms central. Increased defoliation west. Final irrigations applied some areas in preparation for harvest. Alfalfa hay harvest progressed moderately, crop good. Very few new stands established. Moderate rain damage. Corn tasseling southeast; silage harvest active, crop fair to good. Sorghum headed out rapidly, crop fair to good. Lemon harvest advanced west; citrus groves good. Vegetable planting continued west; cauliflower, lettuce, broccoli planted. Land preparations continued large scale. Lettuce planted, subbed central. Final carrot shipments central valley. Green chili harvest continued southeast. Apple deal continued southeast; golden delicious picked. Cantaloups, honeydews shipped Aguila; amounts small. Watermelon movement to local markets light central valley. Rains light, spotty throughout rangeland; green feed growth

limited. Cattle, calves 10% poor, 19% fair, 57% good, 14% excellent.

**ARKANSAS:** Temperatures near to slightly below normal. Cool front weekend brought cooler, drier weather. Temperature extremes 52°; 104°. Rainfall none to 2.95 in.

Days suitable for fieldwork 6.0. Soil moisture 76% short, 24% adequate. Major farming activities: Cutting, baling hay; preparing fall seedbeds; applying insecticides; irrigating crops; harvesting cotton, grain sorghum, rice. Cotton harvest underway drought stressed fields. Rice fields drained. Harvest started. Good to average yields. Soybean irrigation continued. Sorghum harvest rapid pace. Above average yields reported, some fields. Corn 52% harvested, 71% 1986, 42% avg. Corn 6% fair, 81% good, 13% excellent. Yields good. Alfalfa hay 6% poor, 70% fair, 24% good. Other hay 2% very poor, 24% poor, 50% fair, 24% good. Showers stimulated pasture regrowth, few acres. Watermelon harvest winding down southwest. Apple size small. Livestock fair to good. Herd liquidation up slightly, due to lack of water, forage.

**CALIFORNIA:** Trough over State beginning week replaced by high pressure ridge. Ridge prevented precipitation, warmed temperatures, especially northern area. Northern stations slightly above normal, most southern stations slightly below normal temperatures.

Cotton progress excellent; final pest treatment, irrigation some areas. Some rice fields being drained. Safflower, sunflower, wild rice, dry bean, sugarbeet, corn silage harvests ongoing. Fall land preparation underway, summer fallowed small grain acreage. Apple, avocado, date, fig harvests continued. Early variety table grape harvest neared completion. Raisin grapes dried. Wine grape harvest active. Late variety stone fruits picked. Prunes harvested. Valencia orange harvest slowed. Desert lemons picked. Almond harvest continued; high yields, small sizes. Walnut harvest began. Snap bean packing active, good quality, south coast. Freezer bean harvest continued Westside. Strawberry fields south coast; being prepared, fumigated. Broccoli moderate both Salinas, Santa Maria good quality. Fall planting continued Westside. Carrot fairly heavy Salinas, good quality. Production Kern-Tulare, Cuyama Valley, other districts light due to depressed seasonal market. Cauliflower moderate Salinas, Santa Maria, good quality. Fall planting progressed Westside, south coast. Celery moderate Salinas-Watsonville, Santa Maria-Oceano, good quality. Fields transplanted Huron District, south coast. Sweet corn light, good quality, south coast. Cucumber packing active Westside, Delta, south coast, good quality. Cucumbers for pickles planted desert. Lettuce fairly heavy Salinas; moderate Santa Maria; variable weight, quality. Fall planting Westside moved towards completion, growers thinning early germinated fields. Watermelon, cantaloup, honeydew, mixed melon harvests active statewide. Fields desert, abundance of blossoms, ideal weather. Dehydrator onion harvest continued Westside. Pepper fairly light but increased Salinas, good quality. Production active central valley, south coast, good quality. Fall potato fields Tulalake-Butte Valley, grew well. More early fields defoliated, irrigation continued for later varieties. Sweetpotatoes harvested Selma District; Merced-

Atwater, Westside fields progressed normally. Tomatoes processing, fresh market continued full production, good quality, statewide. Summer range feed diminishing rapidly most areas due dry, hot weather. Fire danger critical, number fires increased. Water supplies many stock ponds, creeks continued to dwindle. Supplemental feeding necessary most foothill, valley districts.

**COLORADO:** Temperatures 3 to 10° below normal. Cloudy skies, widespread showers early part week. Precipitation 0.26 to 3.00 in.

Days suitable for fieldwork 3.3. Soil moisture adequate. Corn, small grains good. Wheat harvest virtually complete. Other small grain harvests progressed well. Oats 62% harvested; barley 75% harvested; spring wheat 19% harvested. Some early varieties of corn started to mature. Sorghum 95% headed, 29% turning color. Dry beans 16% cut, 2% threshed. Livestock, pastures good.

**FLORIDA:** Mostly sunny, hot, dry. Rainfall mostly under 0.50 in.; few isolated heavy amounts. Temperatures 3 to 5° above normal.

Soil moisture short to adequate. Peanuts beginning to show stress of hot, dry weather. Few scattered fields of peanuts harvested. Corn, hay harvest active. Soybeans, cotton continued to make good progress. Pastures mostly good; only fair along much of east coast due to reduced rainfall. Cattle good. Citrus groves hot, humid, some dry. Irrigation continued. Fresh grapefruit tested on young trees; fruit sizes good, early harvest expected September. Caretakers completing summer fertilization. Cultivation, sprays continued. Normal summertime weather. Land preparation, planting increased, tomatoes, peppers, celery, squash. Heat stressing young plants.

**GEORGIA:** Temperatures 3 to 6° above normal. Maximum 90s common, upper 90s over central, south. Albany, Augusta 100° during week. Lowest temperatures mid 50s mountains, near 70° central, south. Showers, thunderstorms widely scattered, much of State received less than 0.25 in. rain. Isolated rain 1.00 to 3.00 in. mainly over central areas.

Days suitable for fieldwork 6.2. Soil moisture 46% very short, 43% short, 11% adequate. Cotton insect control, dry weather lowered condition. Sorghum grain 1% very poor, 10% poor, 39% fair, 50% good. Peanuts 9% poor, 42% fair, 49% good; 3% dug, 2% 1986, 4% avg.; 1% threshed, 1% 1986, 2% avg. Controlling insects in peanuts, dry weather lowered condition. Soybeans 99% blooming, 97% 1986, 97% avg.; dry weather lowered condition. Tobacco 42% fair, 58% good; 88% harvested, 87% 1986, 92% avg. Apples 4% poor, 25% fair, 68% good, 3% excellent; 30% harvested, 47% 1986, 54% avg. Pecans 4% poor, 28% fair, 68% good. Pasture 2% very poor, 22% poor, 49% fair, 26% good, 1% excellent. Hay 2% very poor, 20% poor, 48% fair, 29% good, 1% excellent. Cattle 2% poor, 32% fair, 66% good. Hogs 29% fair, 71% good. Main activities: Corn, apple, tobacco harvest; haying; spraying for insects, disease control; irrigating where facilities available; caring for poultry, livestock.

**HAWAII:** Continued high temperatures. Trade winds provided some relief. Light, scattered showers mostly at night. Temperature low 90s to high 60s. Winds 10 to 25 mph. Rainfall ranged none to 1.90 in.

Days suitable for fieldwork 7.0. Irrigation, pesticide spraying remained heavy. Crops fair to good. Banana production seasonally high. Papaya production moderate to heavy. Chinese, head cabbage production moderate, adversely affected by heat. Head lettuce output light. Watermelon output heavy, quality good.

**IDAHO:** Temperatures below normal east, normal to slightly above rest of State. Rain midweek east, central. Rainfall above normal east, below elsewhere.

Days suitable for fieldwork 7.0. Winter wheat 91% harvested, 89% 1986, 78% avg. Spring wheat 72% harvested, 66% 1986, 55% avg. Spring barley 78% harvested, 75% 1986, 58% avg. Oats 70% harvested. Potatoes good to excellent, 26% vines dying or killed, 4% harvested. Dry pea, lentil harvest complete. Dry bean harvest started. Field preparation fall crops. Onions 12% harvested, 12% 1986, 20% avg. Second cutting alfalfa hay 91% 1987, 3rd cutting 11% 1987. Mint harvest 85%. Livestock good. Range, pasture providing limited grazing. Irrigation supplies low some areas.

**ILLINOIS:** Temperatures averaged 1 to 3° below normal north, 4 to 7° below normal south. Precipitation widespread, variable northern and east central sections averaging about 3.00 in., west central and south averaged about 1.00 in.

Days suitable for fieldwork 3.5. Soil moisture 34% short, 43% adequate, 23% surplus. Soybeans 48% turning yellow, 27% 1986, 17% avg.; 1% harvested. Alfalfa hay 3rd crop 75% cut, 73% 1986, 71% avg.; 5% poor, 28% fair, 61% good, 6% excellent. Pasture 3% very poor, 13% poor, 37% fair, 42% good, 5% excellent.

**INDIANA:** Temperatures 2 to 9° below normal. Lows low to upper 50s, highs 70s to low 80s. Precipitation 2.00 in. or more north, less than 0.50 in. south.

Days suitable for fieldwork 4.2. Topsoil moisture 36% short, 35% adequate, 29% surplus. Subsoil moisture 37% short, 52% adequate, 11% surplus. Corn, soybean mostly good to excellent. Soybeans 65% turning yellow, 20% 1986, 14% avg. Tobacco 66% harvested, 40% 1986, 10% avg. Wheatland 22% plowed, 26% 1986, 22% avg. Pastures 6% very poor, 18% poor, 43% fair, 30% good, 3% excellent. Showers relieved dry conditions northern areas. Corn, soybeans harvest began.

**IOWA:** Cool, wet week. Temperatures 7° below normal. Precipitation above normal. Precipitation amounts Red Oak 9.30 in., Corning 8.12 in., Osceola 7.38 in.

Days suitable for fieldwork 1.9. Topsoil moisture 46% adequate, 54% surplus; subsoil moisture 9% short, 64% adequate, 27% surplus. Flooding, high water, some crop losses from excessive rains. Hay 1% very poor, 3% poor, 15% fair, 64% good, 17% excellent. Third crop alfalfa 65% harvested, 62% 1986, 57% avg. Soybeans 23% leaves turning, 12% 1986, 11% avg.; 5% mature, none 1986, none avg. Livestock mostly good. Few reports of pneumonia in calves from damp, cool weather. Pastures 3% poor, 13% fair, 60% good, 24% excellent.

**KANSAS:** Temperatures averaged upper 60s to low 70s; 5 to 8° below normal. Precipitation varied, less than 0.25 in. west, 1.00 in. or more east. Local amounts 2.00 to 5.00 in.

Days suitable for fieldwork 3.0. Soil moisture 12% short, 60% adequate, 28% surplus. Cool weather slowed crop development, still ahead of normal. Rain welcome most areas, little advantage where corn mature eastern area. Irrigation underway northwest. Corn borers south central, southwest. Wasp parasitism helping to control. Stalk rots present central and east, lodging. Sorghum webworm, corn earworm infestations southeast, south central. Stalk rots, producers harvesting soon as possible. Soybeans good progress. Some charcoal rot east. Pastures thinning out, cattle moving off grass to market, feed lots. Alfalfa hay 3rd cutting neared completion, 4th cutting about 20%.

Farmers prepared wheat ground for seeding, harvesting corn silage, haying. Limited cutting corn, sorghum grain southeast.

**KENTUCKY:** Temperatures slightly below normal early week. Midweek very warm high temperatures mid to upper 90s. Cold front 28th brought precipitation, cooler temperatures. Rainfall ranged trace east, 1.00 in. or more west.

Days suitable fieldwork 5.6. Soil moisture 68% very short, 30% short, 2% adequate. Corn continued to dry down. Cutting, housing tobacco; housed tobacco curing rapidly. Tobacco 3% very poor, 14% poor, 55% fair, 27% good, 1% excellent. Burley 59% cut, 43% 1986, 32% avg. Dark tobacco 59% cut, 50% 1986, 35% avg. Sorghum 9% poor, 70% fair, 21% good. Pastures drying up; 20% very poor, 35% poor, 38% fair, 6% good, 1% excellent.

**LOUISIANA:** Temperature 2 to 3° above normal. Temperature extremes 67°; 100°. Rainfall averaged 0.01 to 2.54 in.

Days suitable for fieldwork 5.8. Soil moisture 51% short, 49% adequate. Corn fair to good; 98% mature, 100% 1986, 97% avg.; 59% harvested, 91% 1986, 70% avg. Cotton 51% open bolls, 72% 1986, 36% avg.; 1% harvested, 2% 1986, 1% avg. Rice 98% headed, 100% 1986, 95% avg.; 78% ripe, 86% 1986, 72% avg.; 59% harvested, 71% 1986, 58% avg. Sorghum 95% turning color, 99% 1986, 94% avg.; 72% ripe, 92% 1986, 77% avg.; 44% harvested, 78% 1986, 54% avg. Soybeans 98% blooming, 98% 1986, 97% avg.; 92% setting pods, 90% 1986, 87% avg.; 17% turning color, 15% 1986, 9% avg.; 3% dropping leaves, 2% 1986, 1% avg. Hay final cutting 52%, 59% 1986, 43% avg. Sweetpotatoes good; 34% harvested, 37% 1986, 31% avg. Sugarcane good; 21% planted, 20% 1986, 10% avg. Livestock good; pasture fair to good; vegetables fair. Main activities: Planting sugarcane; harvesting corn, rice, sorghum, sweetpotatoes; cutting hay; weed, insect control.

**MARYLAND & DELAWARE:** Maryland: Temperatures averaged 71°, 73° normal. Precipitation averaged 0.67 in., ranging from 2.95 in. Oakland to 0.17 in. Salisbury.

Days suitable for fieldwork 6.6. Topsoil, subsoil moisture very short to short. Corn poor to fair, mostly fair. Corn 99% silked, 100% 1986, 100% avg. Corn 95% dough, 85% avg. Corn 70% dent, 60% avg. Corn 20% mature. Corn 10% harvested. Silage 30% harvested. Soybeans poor to fair. Soybeans 90% bloomed, 95% avg. Soybeans 75% set pods, 75% avg. Tobacco poor to fair, mostly poor. Tobacco 55% harvested, 45% avg. Sweet corn 95% harvested, 95% avg. Tomatoes 80% harvested, 80% avg.

Delaware: Temperatures averaged 72°, 74° normal. Precipitation averaged 0.36 in.

Days suitable for fieldwork 6.5. Topsoil moisture very short to short, mostly very short. Subsoil moisture very short. Soybeans poor to fair, mostly poor. Soybeans 95% bloomed, 95% avg. Soybeans 80% set pods, 70% avg. Corn poor to fair. Corn 100% dough, 90% avg. Corn 95% dent, 65% avg. Watermelons 98% harvested, 85% avg.

**MICHIGAN:** Temperatures 1 to 8° below normal. Temperature extremes 35°; 78°. Precipitation ranged from 0.10 to 2.90 in. across State.

Days suitable for fieldwork 3.5. Soil moisture 5% short, 70% adequate, 25% surplus. Corn 75% dent, 20% 1986, 20% avg.; 10% mature, 1% 1986, 2% avg.; 5% very poor, 15% poor, 30% fair, 40% good, 10% excellent. Soybeans 98% setting pods, 95% 1986, 95% avg.; 5% dropping leaves, 1% 1986, 2% avg.; 2% very poor, 13% poor, 30% fair, 40% good, 15% excellent. Dry beans 70% turning, 45% 1986, 55% avg.; 10% very poor, 25% poor, 40% fair, 20%

good, 5% excellent. Main activities: Hay making, corn silage chopping, wheat ground tilling, dry edible bean harvesting. Rains benefited hay, pastures, sugarbeets. Early variety apple picking across State. Quality excellent. Some disease damage to vegetables.

**MINNESOTA:** Temperatures averaged 1 to 7° below normal for State. Temperature extremes 33°; 92°. Precipitation averaged 0.10 to 0.11 in. above normal northwest and southeast, 0.05 to 0.71 in. below normal elsewhere. Precipitation totals averaged 0.17 to 0.96 in. for State. Greatest weekly total 1.63 in.

Spring wheat 98% combined, 66% 1986, 75% avg. Field corn 99% in dough, 92% 1986, 82% avg.; 89% denting, 47% 1986, 35% avg. Soybeans 45% turning yellow, 17% 1986, 14% avg.; 7% dropping leaves, 1% 1986, 1% avg. Potatoes 16% harvested, 8% 1986, 5% avg. Sweet corn 80% harvested, 64% 1986, 59% avg. Winter wheat 32% planted, 21% 1986, 15% avg. Rye 31% planted, 14% 1986, 12% avg.

**MISSISSIPPI:** Temperatures 4° above normal. Extremes 58°; 102°. Hot, dry weather only isolated thunderstorms changed to cooler more frequent thunderstorms. Greatest 24-hour total rainfall 1.97 in.

Days suitable for fieldwork 6.1, 5.5 1986, 5.6 avg. Soil moisture 15% very short, 43% short, 42% adequate. Corn 96% dented, 100% 1986; 76% mature, 94% 1986, 73% avg.; 25% harvested, 44% 1986, 24% avg.; 22% fair, 63% good, 15% excellent. Hay 81% harvested, 82% 1986, 80% avg. Sorghum silage 73% harvested, 79% 1986, 63% avg. Watermelons 95% harvested, 98% 1986. Peanuts 24% harvested, 38% 1986, 28% avg. Sweetpotatoes 17% harvested, 30% 1986, 16% avg. Corn silage 85% harvested, 94% 1986, 75% avg. Wheat 1% planted, 1% 1986. Rice 99% headed, 100% 1986, 95% avg.; 48% mature, 93% 1986; 4% harvested, 40% 1986, 12% avg.; 30% poor, 23% fair, 47% good. Sorghum 100% headed, 100% 1986, 98% avg.; 94% coloring, 90% 1986; 76% mature, 76% 1986, 58% avg.; 39% harvested, 47% 1986, 19% avg.; 3% poor, 38% fair, 51% good, 8% excellent. Cotton 60% open bolls, 85% 1986, 42% avg.; none harvested, 4% 1986; 9% poor, 26% fair, 64% good, 1% excellent. Soybeans 90% blooming, 92% 1986, 95% avg.; 67% podding, 71% 1986, 73% avg.; 12% coloring, 27% 1986; 2% shedding, 10% 1986; none mature, 3% 1986; 20% poor, 43% fair, 36% good, 1% excellent.

**MISSOURI:** Temperatures averaged 6° below normal except southeast 2° above normal. Precipitation widespread, varied; 0.25 in. southeast, 1.50 in. west central, 4.00 in. northwest, less than 1.00 in. elsewhere.

Days suitable for fieldwork 3.6. Topsoil moisture 30% short, 52% adequate, 18% surplus. Pastures 2% very poor, 13% poor, 51% fair, 33% good, 1% excellent.

**MONTANA:** Temperatures normal west of divide from 4 to 7° colder than normal east. Good rainfall amounts early week all areas of State.

Days suitable for fieldwork 3.0. Topsoil moisture 1% short, 70% adequate, 29% surplus. Subsoil moisture 6% short, 85% adequate, 9% surplus. Barley 65% harvested, 71% 1986, 76% avg. Oats 58% harvested, 76% 1986, 80% avg. Second cutting alfalfa hay 76%, 80% 1986, 76% avg.

**NEBRASKA:** Precipitation 0.25 in. west to 5.00 in. east. Isolated rain up to 7.00 in. Average temperatures 7° to 10° below normal. Extremes 38°; 92°.

Days suitable for fieldwork 2.7. Topsoil moisture 17% short, 57% adequate, 26% surplus. Subsoil moisture 25% short, 60% adequate, 15% surplus. Winter wheat seeding underway. Grass

seed, dry bean, silage harvest active. Corn borer, spider mite problems monitored. Storage facilities, harvest machinery prepared for harvest. Third cut alfalfa 80%, 51% 1986, 59% avg.; fair to good. Pasture, range supplies adequate. Rain, cool temperatures good for regrowth.

**NEVADA:** Another hot, dry week. Low pressure system beginning period brought scattered thunderstorms south, east central, northeast. Temperatures well above normal.

Third crop alfalfa hay well along. Melon harvest about completed. Ranges continued to show adverse affect high temperatures, no significant precipitation.

**NEW ENGLAND:** Precipitation averaged less than 0.50 in. Maine and northern New Hampshire, 2.00 in. and greater Connecticut and Rhode Island, 1.00 to 1.50 in. remainder. Temperatures averaged low 60s coastal south, low 50s northern Maine, mid to upper 50s remainder.

Days suitable for fieldwork 5.5. Soil moisture 18% very short, 59% short, 23% adequate. Grazing availability 11% very short, 72% short, 17% adequate. Fieldwork progress 2.5 days ahead. Maine potato harvest began; good to excellent. Maine oats good to excellent. Field corn less than 10% harvested. Sweet corn good; 65% picked, 73% 1986, 67% avg. Shade tobacco good; 90% harvested. Outdoor tobacco good; 85% harvested. Second crop hay 80% cut, 75% 1986, 81% avg.; fair to good south good to excellent north. Third crop hay fair; 38% harvested, 27% 1986, 41% avg. Apples fair to good, size medium to large Vermont, size small to medium remainder; 11% harvested. Cranberries good; not sizing well. Major farm activities: Haying, harvesting fruits, vegetables; applying fungicides, insecticides.

**NEW JERSEY:** Temperatures averaged below normal. Extremes 38°; 89°. Rainfall averaged 2.49 in. north, 1.59 in. central, 0.25 in. south. Heaviest 24-hour total 1.46 in. on 26th, 27th. Estimated soil moisture percent field capacity averaged 82% north, 69% central, 29% south. Four inch soil temperatures averaged 62° north, 66° central, 69° south.

Rain beneficial to late season crops. Summer vegetable harvest declined. Fall vegetable growth good. Irish potato digging active conditions permit. Sweetpotato growth aided by rain. Peach harvest active; cresthaven, blake, jersey-glo varieties picked. Fall variety apples continued to size, color well; harvest expected to begin 7 to 10 days. Cranberry prospects good. Late soybean fields benefited from rain. Hay fields, pastures growth improved.

**NEW MEXICO:** Temperatures over State 3 to 7° below normal. Lows 35° Quemado, high 89° University Park. Precipitation statewide. Heavy amounts many areas; some fields flooded. Some localized hail damage.

Days suitable for fieldwork 2.9. Soil moisture 75% adequate, 25% surplus. Alfalfa 30% poor, 40% fair, 30% good. Rain damage most areas. Fourth cutting underway most areas. Cotton 25% fair, 75% good. Corn 10% fair, 90% good; 87% in dough stage; spider mite damage continued eastside. Irrigated grain sorghum 25% fair, 75% good. Dryland sorghum 20% fair, 80% good. Winter wheat planting continued. Rains slowed planting activity, some germination. Onion harvest virtually complete statewide. Potato harvest continued; nearly complete High Plains. Price not improved to date. Pecans 33% fair, 67% good. Chile 40% fair, 60% good; harvest continued after heavy rains halted harvest Mesilla, Rincon areas. Apples 100% fair; light harvest activity. Range 33% fair, 67% good;

continued rain improved conditions. Additional rain needed some areas. Cattle 25% fair, 75% good; sheep 11% fair, 89% good.

**NEW YORK:** Temperatures average 8 to 11° below normal statewide. Scattered frost mountain valleys. Precipitation midweek above normal. Rainfall accumulation for previous 5 weeks still below normal many areas.

Days suitable for fieldwork 5.0. Soil moisture short to adequate. Pastures fair to good. Hay good. Second cutting alfalfa 92%, 80% 1986, 88% avg. Third cutting alfalfa 43%, 15% 1986, 28% avg. Oats 89% harvested, 80% 1986, 84% avg. Corn excellent. Fruit, vegetable harvest continued. Picking of mcintosh variety to begin soon. Bartlett harvest neared completion.

**NORTH CAROLINA:** Temperatures averaged 3 to 6° above normal. Temperature extremes 52°; 99°. Precipitation 0.01 to 1.57 in. across State. Storms scattered statewide.

Days suitable for fieldwork 6.4. Soil moisture 37% very short, 37% short, 25% adequate, 1% surplus. Pasture 13% very poor, 22% poor, 40% fair, 25% good. Tobacco 1% very poor, 13% poor, 51% fair, 35% good. Flue-cured tobacco 57% harvested, 50% 1986, 65% avg. Burley tobacco 15% harvested, 18% 1986, 13% avg. Peanuts 4% poor, 42% fair, 54% good. Hay 11% very poor, 23% poor, 39% fair, 27% good. Sweetpotatoes 3% very poor, 9% poor, 36% fair, 46% good, 6% excellent. Sweetpotatoes 6% harvested, 4% 1986, 5% avg. Corn for silage 61% harvested, 65% 1986, 49% avg. Corn for grain 8% harvested, 9% 1986, 9% avg. Apples fair to mostly good. Truck crops mostly fair. Apples 22% harvested, 16% 1986, 14% avg. Major farm activities: Tobacco related topping, spraying for sucker control, irrigation, harvesting, marketing; harvesting hay, vegetables, peaches, apples, corn silage, corn grain, sweetpotatoes; spraying soybeans, cotton, peanuts; scouting soybeans, peanuts; tending livestock; preparing equipment for fall plantings; general farm maintenance.

**NORTH DAKOTA:** Temperatures averaged 5 to 8° below normal. Extremes 37° northeast; 90° southeast, south central. Showers, thunderstorms statewide. Precipitation heaviest east central, 3.64 in.

Days suitable for fieldwork 4.7. Topsoil moisture well above normal; 2% very short, 12% short, 79% adequate, 7% surplus. Subsoil moisture well above normal; 2% very short, 12% short, 81% adequate, 5% surplus. Small grain harvest ahead of normal pace. Spring wheat 85% combined, 64% 1986, 72% avg.; durum wheat 71%, 51% 1986, 60% avg.; oats 87%, 79% 1986, 83% avg.; barley 94%, 83% 1986, 90% avg. Late season crops mostly good. Sunflower 5% bracts brown and beyond, 2% 1986, 3% avg.; soybeans 16% mature and beyond, 8% 1986, 7% avg.; corn grain 65% dented and beyond, 51% 1986, 47% avg.; corn silage 4% cut, 2% 1986, 4% avg.; potatoes 11% dug, 4% 1986, 3% avg.; dry beans 2% combined, 1% 1986, 5% avg.; flax 16% combined, 4% 1986, 18% avg. Pastures mostly good. Second cutting alfalfa 95%.

**OHIO:** Average lows mid to upper 50s, average highs in 70s. Precipitation heaviest north, exceeding 2.00 in., rains south 0.50 in. or less.

Days suitable for fieldwork 4.3. Soil moisture 39% short, 45% adequate, 16% surplus. Corn good, harvest more widespread; recent rains will not help crop. Soybeans fair to good, harvest just started; rain may help late maturing stands. Grasslands responding to recent rain; fair to good. Southern areas need much more rain to maintain growth.

**OKLAHOMA:** Temperatures averaged 3° below normal southeast to 9° below normal north central. Precipitation averaged 0.44 in. southwest to 2.52 in. northeast.

Days suitable for fieldwork 5.3. Topsoil moisture 25% short, 60% adequate, 15% surplus. Subsoil moisture 20% short, 80% adequate. Sorghum 1% poor, 14% fair, 85% good; 85% headed, 85% 1986, 90% avg.; 60% coloring, 45% 1986, 55% avg.; 5% mature, 10% 1986, 10% avg.; none harvested, none 1986, 1% avg. Rains aided row crop growth, development. Cotton 25% fair, 75% good; 10% open bolls, 3% 1986, 2% avg. Cotton hindered by cool temperatures. Pastures good, livestock good to excellent. Cattle marketings, prices stable.

**OREGON:** Temperatures again higher than normal Willamette Valley, Columbia Gorge, southwest regions. Coast range temperatures near to slightly below normal. Interior regions normal or bit cooler. Dry conditions prevailed over most of State. Southwest, northeastern sections received some showers, evening thunderstorms. Crater Lake 0.39 in., Enterprise 0.28 in.

Soil moisture 87% short, 13% adequate. Winter wheat 94% harvested, 95% avg. Barley 78% harvested. Most grain harvests completed. Spring grain harvest continued, Klamath County. Grain yields good to above average. Field preparation activities continued. Clover seed harvest began, mid Willamette Valley. Eastern alfalfa growers mostly on 3rd cutting. Alfalfa seed combined Malheur County. Peppermint harvest near Hermiston area. Seed potatoes dug southwest. Hop harvest full swing, sugarbeet planting neared completion Willamette Valley. Western evergreen blackberry harvest continued. Harvest apples, prunes underway Clackamas County. Blueberry, peach harvest late stages Washington County. Late peaches picked Malheur County. Melon harvest winding down, winter pear harvest began, southwest counties. Watermelon harvest still strong, excellent quality Hermiston area. Vegetable harvest continued. Sweet corn, broccoli, snap bean, cucumber harvest underway Willamette Valley. Sweet corn harvest neared completion, potato, onion harvest full swing Malheur County. Onions nearly ready, Jackson County. Early fresh market potato harvest almost finished Hermiston. Livestock, range, pasture poor to good. Irrigated pastures doing well, non-irrigated areas need moisture. Yearling cattle, weaner calves selling continued. Klamath, Malheur Counties. Market demand good for light calves.

**PENNSYLVANIA:** Cool, wet. Average temperature 61<sup>o</sup>, 7<sup>o</sup> below normal. Temperature extremes 36<sup>o</sup>; 87<sup>o</sup>. Average precipitation 1.77 in., 0.93 in. above normal.

Days suitable for fieldwork 4.0. Soil moisture 58% short, 32% adequate, 10% surplus. Corn 46% dent, 34% 1986, 25% avg.; 7% mature, 5% 1986, 2% avg. Corn 3% very poor, 11% poor, 23% fair, 36% good, 27% excellent. Soybeans 2% very poor, 6% poor, 28% fair, 37% good, 27% excellent. Oat 98% harvested, 99% 1986. Potatoes 33% harvested, 45% 1986. Second cutting alfalfa 95%, 98% 1986. Third cutting alfalfa 43%, 72% 1986. Second cutting clover-timothy 80%, 85% 1986. Quality of hay fair to good. Amount of feed being obtained from pasture, below average to average. Apples 28% harvested, 29% 1986. Peaches 79% harvested, 81% 1986. Activities: Harvesting oats, hay, haylage, grass silage, corn silage, fruit, potatoes, other vegetables; fall plowing; seeding alfalfa, wheat, barley; machinery maintenance; caring for livestock.

**PUERTO RICO:** Island average rainfall 0.61 in., 1.21 in. below normal. Highest weekly total rainfall 3.03 in. Lares, 2.26 in. Mayaguez, 1.93 in. San Sebastian. Highest 24-hour rainfall 2.03 in. Lares. San Juan mean temperature 84<sup>o</sup>, 2<sup>o</sup> above normal. Total rainfall 0.09 in., 1.31 in. below normal. Divisional temperature averaged about 82

to 83<sup>o</sup> on coasts, 77 to 79<sup>o</sup> interior. Mean station temperature 69<sup>o</sup> Pico Del Este-Luquillo to 85<sup>o</sup> Roosevelt Roads. Lowest minimums 59<sup>o</sup> San Sebastian. Highest maximums 92<sup>o</sup> Lajas.

**SOUTH CAROLINA:** Temperatures 4 to 6<sup>o</sup> above normal. Rainfall averaged 0.50 in. across State.

Days suitable for fieldwork 6.0. Soil moisture 34% very short, 40% short, 26% adequate. Cotton 22% bolls open, 37% 1986, 40% avg.; 1% very poor, 1% poor, 98% fair. Soybeans 94% blooming, 86% 1986, 92% avg.; 64% setting pods, 56% 1986, 65% avg.; 4% leaves turning, 2% 1986; no leaves shedding; 1% very poor, 5% poor, 70% fair, 24% good. Tobacco good; 85% harvested, 85% 1986, 88% avg. Corn mostly good; 94% mature, 97% 1986, 93% avg.; 33% harvested, 44% 1986, 36% avg. Peanuts 3% harvested, 1% 1986. Peaches fair to good; 97% harvested, 100% 1986, 100% avg.

**SOUTH DAKOTA:** Average temperatures 4 to 11<sup>o</sup> below normal. Extremes 35<sup>o</sup>; 95<sup>o</sup>. Black Hills low 27<sup>o</sup>.

Days suitable for fieldwork 4.5. Topsoil slightly drier than previous week; 8% critically short, 38% short, 53% adequate, 1% surplus. Subsoil 7% critically short, 34% short, 58% adequate, 1% surplus. Row crops 1 week ahead of normal. Fall seeding began. Yearling cattle being moved to market.

**TENNESSEE:** Temperatures below normal. Precipitation light.

Days suitable for fieldwork 5.9. Soil moisture 56% very short, 36% short, 8% adequate. Corn 90% dent, 90% 1986, 85% avg. Corn 50% mature, 55% 1986, 30% avg. Corn silage 50% harvested, 55% 1986. Corn grain 5% harvested, 6% 1986, 3% avg. Corn 1% very poor, 13% poor, 43% fair, 38% good, 5% excellent. Tobacco 93% topped, 80% 1986. Burley 50% harvested, 30% 1986, 35% avg. Dark fired 40% harvested, 35% 1986, 35% avg. Dark air-cured 35% harvested, 30% 1986, 30% avg. Tobacco 1% very poor, 24% poor, 62% fair, 13% good. Cattle mostly fair. Pastures poor to fair.

**TEXAS:** Upper air disturbance, remains of cool front triggered thunderstorms west early week. Midweek, another front spread showers across State, except far south. Rainfall above normal across State except below normal amounts Lower Valley. Temperatures below normal Plains, Trans-Pecos. Readings near to slightly below normal rest of State.

**Crops:** Corn harvesting progressed southern, central areas only minor delays. Most fields Upper Coast, Coastal Bend harvested, operations winding down central. Rain slowed silage harvest Plains, cooler temperatures slowed drying. Grain harvest to begin soon. Grain sorghum harvest winding down central, southern areas. Fields maturing Plains, some early harvest underway Low Plains. Some producers spraying for greenbugs High Plains, fields neared harvest. Cotton progress Plains slowed some last week under cooler temperatures, warmer weather needed for late crop. Boll weevils increased some fields. Producers defoliating Blacklands, some harvesting underway. Bolls open central, harvesting winding down Coastal Bend, south. Harvest continued Rio Grande Valley, east. Cotton 100% setting bolls, 97% 1986, 97% avg.; 10% harvested, 11% 1986, 10% avg. Rice harvest progressed rapidly Upper Coast, neared completion. Yields fair. Soybeans High Plains benefited from rains, irrigation needs decreased. Growth good. Early crop harvest began Upper Coast fair yields. Hot weather, dry conditions decreased expected yields. Late crop prospects fair. Peanuts enjoyed moisture Plains. Most fields Cross-Timbers later than normal, look good. Some leafspot showed up. Harvest continued south good yields. Many central fields pegging; hot, dry weather slowed process.

Overall outlook good irrigated fields. Other field crops: Peanuts 4% harvested, 7% 1986, 3% avg. Soybeans 4% harvested, 3% 1986, 1% avg. Sunflowers none harvested, 1% 1986, none avg. Oats 1% planted, 2% 1986, none avg.

**Commercial Vegetables:** Rio Grande Valley, pepper, tomato transplants being set out. Cabbage fields good. Weed control, irrigation continued citrus groves. East sweetpotato harvest continued. Quality good. High Plains, vegetable production good. Harvest slowed by rain midweek. Trans-Pecos cantaloup harvest winding down. Tomatoes doing well. Some chili wilt occurred. Pecans suffered many areas from lack of moisture, recent rains helpful. Weevils, caterpillars problems.

**Range and Pasture:** Range, pasture grasses boost from moisture. Many pastures drying fast, some fires already occurred. Some areas south critically dry. Hay cutting continued; yield, quality down. Livestock good.

**UTAH:** Precipitation moderate to heavy. Temperatures 4° below normal.

Days suitable fieldwork 5.7. Soil moisture 39% short, 50% adequate, 11% surplus. Winter wheat 36% seeded, 5% 1986, 2% avg. Barley 91% harvested, 96% 1986, 79% avg. Spring wheat 90% harvested, 94% 1986, 69% avg. Oats 71% harvested, 58% 1986, 48% avg. Alfalfa 3rd cutting 29%, 21% 1986, 17% avg. Corn 76% dough, 66% 1986, 49% avg.; 27% dent, 21% 1986, 14% avg. Peach harvest well along, pear harvest near midpoint, apple harvest began. Onion harvest underway. Potato harvest began. Pasture, range feed 76% fair, 24% good. Livestock good to excellent.

**VIRGINIA:** Hot, humid 27th. Cooler, less humid before and after that date. Overall temperatures just above normal. Range 40s to 100°. Scattered showers insufficient to relieve dry spell, rainfall below normal.

Days suitable for fieldwork 6.2. Topsoil moisture 98% short, 2% adequate. Drought continued, more counties sought drought disaster designation. Corn very poor. Grain harvest 11%, 9% 1986, 8% avg. Silage harvest 28%, 16% 1986, 33% avg. Soybeans poor; 66% setting pods or beyond, 68% 1986, 66% avg. Monitored, sprayed for corn earworms in soybeans. Peanuts fair to good, recent rain boosted prospects, more needed. Tobacco fair to good where irrigated, poor to fair otherwise. Flue-cured tobacco 28% harvested, 21% 1986, 44% avg. Burley tobacco 26% harvested, 8% 1986, 24% avg. Fire-cured tobacco 45% harvested, 24% 1986, 55% avg. Apple harvest slowed; 18%, 30% 1986, 18% avg. Vegetable irrigation active. Planted fall vegetables. Sweetpotatoes 18% harvested, 10% 1986, 10% avg. Hay, pastures very poor, little or no growth. Feeding livestock, selling active due to drought.

**WASHINGTON:** Hot, dry weather prevailed. Temperatures up to 5° above normal. Extremes 40° Goldendale, 94° Walla Walla. Precipitation minimal west, central; light southeast.

Days suitable for fieldwork 6.9. Soil moisture 60% short, 40% adequate. Winter wheat 100% harvested, 98% 1986, 95% avg. Barley, spring wheat respectively 98%, 94% harvested. Winter wheat seeding well advanced Douglas County, active other

areas. Cutting 3rd crop hay winding down most areas. Dry weather allowed hay to cure well for baling. Rapeseed planting neared completion Lincoln County. First cutting mint early, short water supply forced early 2nd cutting Sunnyside area. Hop harvest continued. Apple harvest full swing early areas, beginning later areas. Bartlett pear harvest winding down, D'Anjou pears ready for harvest, leaf minor infestations problem some orchards. Fruit yields, quality good. Wine grape harvest began Benton County. Carrot harvest continued full swing; yield, quality down compared to other years, still considered good. Quality particularly variable western area. Freezer corn harvest continued; yield, quality excellent. Green, snap bean, sugar pea harvest mostly complete. Range, pasture 60% short, 40% adequate. Ranges continued dry, especially west of Cascades. Otherwise dry but not abnormally so. Hay supplies 70% adequate, 30% surplus. Stevens County cattle being moved to lower pasture, hay aftermath.

**WEST VIRGINIA:** Average temperature 68°, 2 to 3° below normal. Extremes 39° Greenbank; 96° Williamson. Precipitation averaged 0.63 in; ranging from 0.41 to 0.49 in. northwest, northeast divisions, respectively.

Days suitable for fieldwork 5.4. Soil moisture 65% very short, 31% short, 4% adequate. Farm activities: Harvesting hay, general maintenance, garden harvesting, livestock care. Tobacco, pasture, hay, gardens ranged poor to very poor. Second cut hay 86% harvested, 71% 1986.

**WISCONSIN:** Temperatures averaged 62°, 4° below normal. Extremes 30°; 81°. Rainfall 0.30 to 1.60 in. Driest north.

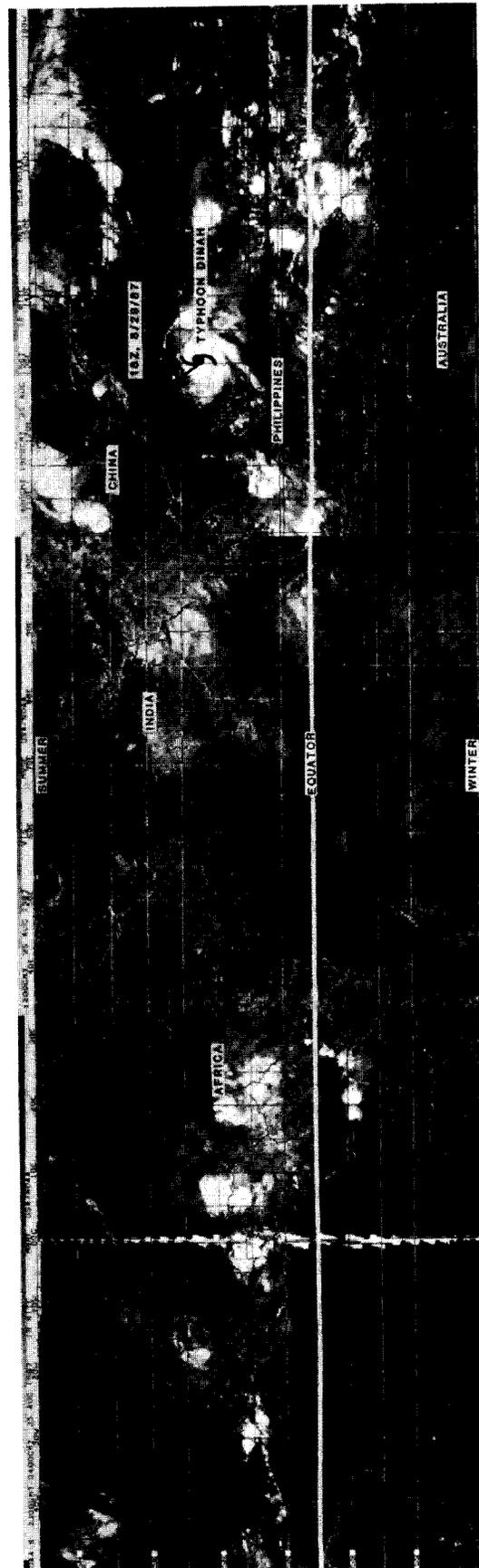
Days suitable for fieldwork 4.4. Soil moisture 19% short, 61% adequate, 20% surplus. Crops 1% poor, 10% fair, 77% good, 12% excellent. Corn 91% in dough, 70% 1986, 67% avg. Corn 62% in dent, 28% 1986, 27% avg. Corn 12% mature, 3% 1986, 2% avg. Corn leaves drying. Corn silage cutting started. Soybeans excellent pod set, filling. Soybean leaves 15% turned. Oats 98% harvested, 92% 1986, 91% avg. Second crop hay 92% cut, 91% 1986, 91% avg. Third crop hay 43% cut, 29% 1986, 26% avg. Third quality very good, yields good. Some hay cut, spoiled due to rain. Tobacco harvest active. Potatoes being dug. Cabbage, beets ready southeast.

**WYOMING:** Cool week. Temperatures below normal. Precipitation above normal most areas.

Days suitable for fieldwork 5.0. Topsoil moisture 21% short, 79% adequate. Barley 5% turning color, 10% 1986; 20% mature, 10% 1986; 75% harvested, 80% 1986, 75% avg. Spring wheat 5% turning color, 5% 1986; 15% mature, 20% 1986; 80% harvested, 75% 1986, 70% avg. Oats 5% turning color, 10% 1986; 30% mature, 15% 1986; 65% harvested, 75% 1986, 60% avg. Dry beans 80% turning color, 70% 1986, 70% avg.; 20% windrowed, 35% 1986, 20% avg.; none combined, 10% 1986, 5% avg. Corn 55% milk, 20% 1986; 35% dough, 40% 1986, 40% avg.; 10% dented, 30% 1986, 20% avg.; none mature, 10% 1986, 5% avg. Winter wheat 5% seeded, 15% 1986, 20% avg. Alfalfa 2nd cutting 80%, 80% 1986, 75% avg.; 3rd cutting started few areas. Other hay 95% harvested, 90% 1986, 90% avg. Range, pastures good. Fall grazing prospects fair to good. Livestock good.

# Global Weather Satellite Image

August 25, 1987



International Weather and Crop Summary

August 23-29, 1987

HIGHLIGHTS:

**UNITED STATES** ... Rain promotes growth, but cooler temperatures slow crop development from Texas through the central Great Plains and the Corn Belt. Inadequate moisture plagues crops in the Southeast. Moisture is becoming short in the Delta.

**U.S.S.R.** ... In Western U.S.S.R., several days of warm, dry weather help fieldwork. In the New Lands, unseasonably cold, wet weather delays harvesting.

**EUROPE** ... Showers delay winter wheat harvesting in the western half of Europe. Dry weather covers the southeast.

**SOUTH ASIA** ... Showers bring relief to India's northern states but cause some flooding in central and eastern areas. Dry weather persists in southern India's summer crop region.

**SOUTHEAST ASIA** ... Moderate to heavy showers continue throughout Indonesia, causing some flooding. Scattered showers cover the Philippines.

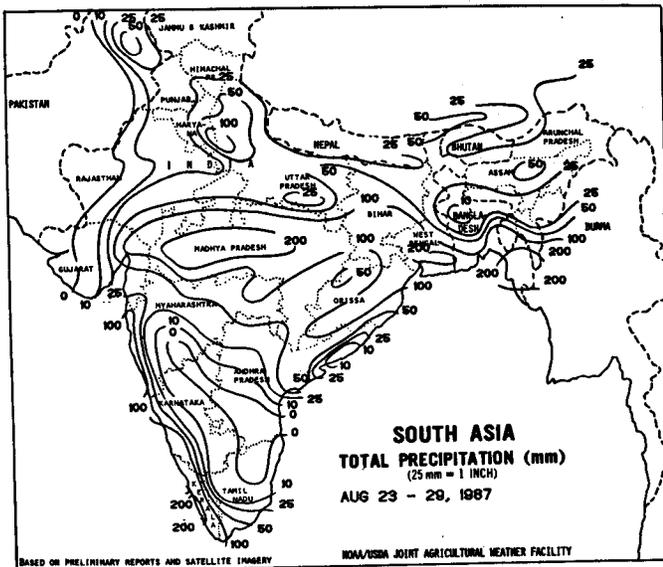
**EASTERN ASIA** ... Heavy rain may have damaged maturing crops in the Manchurian Valley, central Shandong, the Korean peninsula, and Jianguo.

**CANADA** ... Mostly light rain covers the Prairie grain belt. Spring grain harvesting progressed, however.

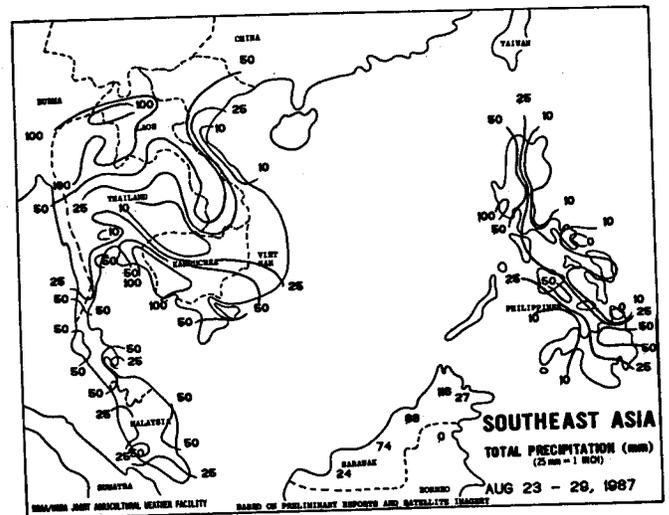
**SOUTH AMERICA** ... Moisture is adequate for wheat establishment in Argentina. More rain soaks Brazil's southern wheat; dry weather promotes grain filling in the north.

**AUSTRALIA** ... Showers continue in Australia's winter grain belt as cool weather slows vegetative growth.

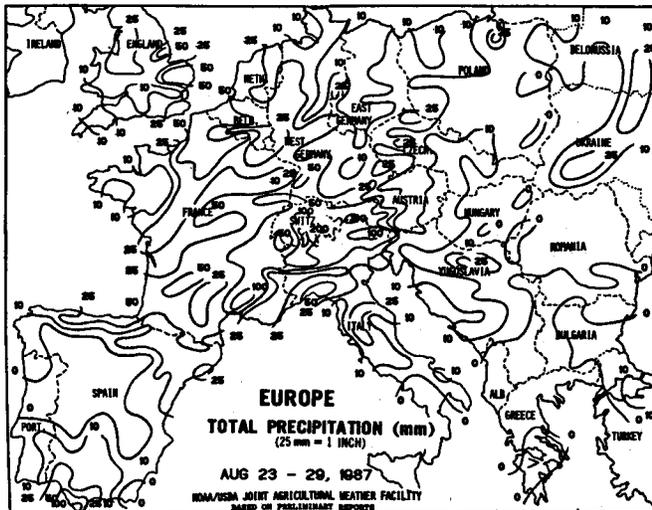
**MEXICO** ... Showers promote grain filling in the Southern Plateau corn belt and early wheat planting in the northwest.



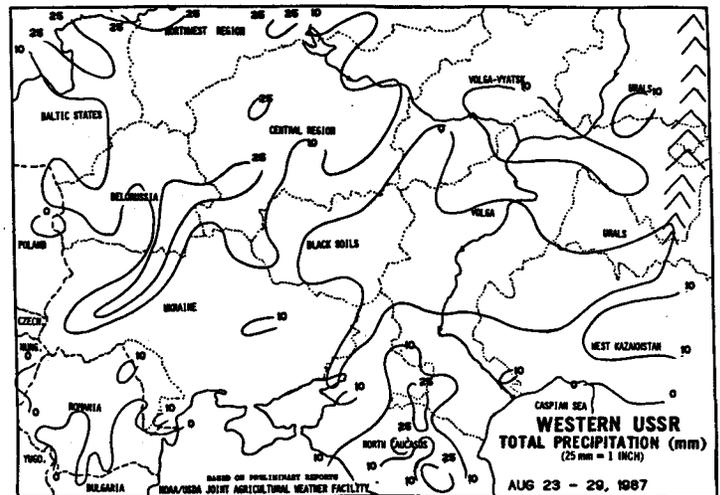
**SOUTH ASIA** ... Moderate to heavy showers (25-200mm or more) covered reproductive crops in central and eastern India and reached into India's chronically dry northern states from Uttar Pradesh to Punjab. Moderate showers (10-68mm) continued in northernmost Pakistan. The rainfall in the north and northwest boosted irrigation levels depleted by this season's drought. More rain is needed, however, for irrigation of summer rice and cotton in the filling stage of development, and to ensure adequate irrigation levels for the October wheat planting. The heavy rainfall from southern West Bengal, through southern Bangladesh, to the eastern states, and along the southwest coast maintained flood levels in some areas. Minimal rain (less than 10mm) persisted in southern India from southern Maharashtra to Tamil Nadu. This season's erratic monsoon circulation resulted in periods of dry weather throughout southern India's cotton, rice, and groundnut regions, delaying planting and stressing vegetative crops. Normally, summer crops are reproductive to filling, and the recent dry weather maintained stressful conditions through much of the south.



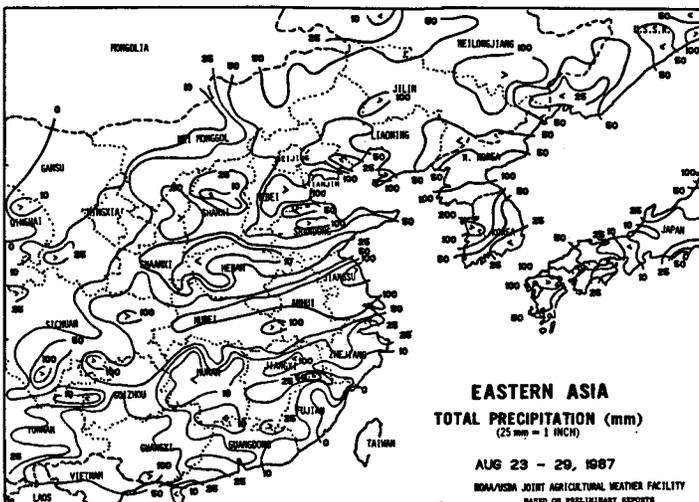
**SOUTHEAST ASIA** ... Moderate to heavy showers (25-100mm or more) continued in northern Thailand, Laos, and parts of Vietnam and Kampuchea, improving irrigation reserves but causing local flooding in areas too wet from the recent weeks of increased tropical activity. Lighter rain (4-25mm) covered rainfed grain areas of central Thailand, benefiting vegetative rice. Periodic dry weather helped corn harvesting. Mostly dry weather returned to the eastern half of the Philippines, but moderate to heavy rain (25-104mm) continued in grain areas of western Luzon and eastern Mindanao. Showers continued in Malaysia and in parts of Sumatra, but only scattered, mostly light rain fell in eastern Indonesia.



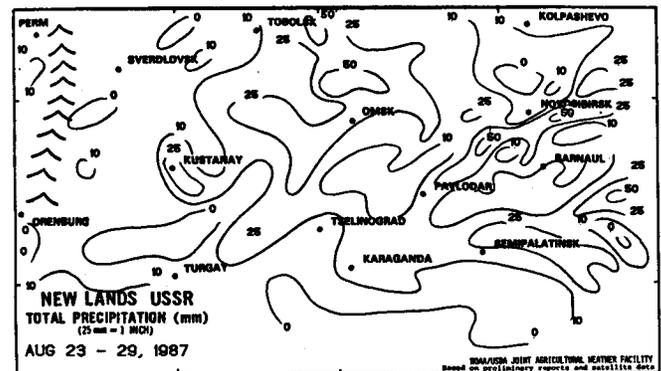
**EUROPE** ... Moderate to heavy showers (25-100mm or more) persisted in Italy, France, and in the north from England to western West Germany, halting wheat harvesting and damaging mature grains. Drier weather (less than 10mm) helped crops in parts of eastern West Germany, East Germany, and Poland, where persistent cool, wet weather has delayed crop development and, more recently, harvesting. Dry weather returned to southern Poland, Hungary, Romania, eastern Yugoslavia, and Bulgaria. Moisture continued limited for filling summer crops in parts of the southeast, following recent weeks of persistent below-normal rainfall.



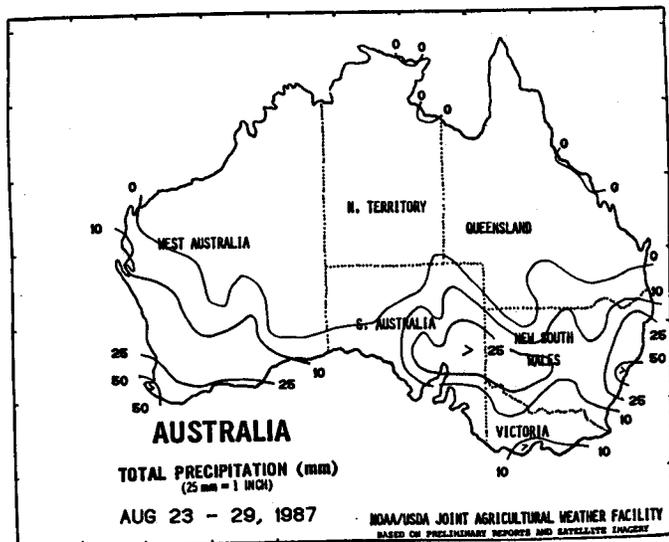
**U.S.S.R.** ... In Western U.S.S.R., a warming trend accompanied drier weather. Several days of dry weather in the Central Region, Volga Vyatsk, and upper Volga helped harvest activities and planting of 1988 winter grain crops. Near- to above-normal temperatures over the Ukraine and North Caucasus helped to promote corn development delayed by unseasonably cool weather during much of the growing season. Corn was likely maturing in the extreme southern Ukraine and North Caucasus and was in the early filling stage in the central and eastern Ukraine. The warm, dry weather across the south also favored sugarbeets and sunflowers. By week's end, showers returned to the western Ukraine, eastern Belorussia, and the western portion of the Central Region.



**EASTERN ASIA** ... Widespread showers covered crop areas in the North China Plain. Heaviest precipitation (around 100mm) fell over crop areas in central Shandong and southern Hebei, with local areas receiving rainfall in excess of 125mm. Overall, the precipitation in these areas benefited cotton in the boll formation stage and corn and soybeans in the filling stage. However, some crop damage may have occurred in areas which received rainfall in excess of 100mm. Further south, inundating rain (110 to 200mm) in Jiangsu may have damaged open cotton bolls. Light to moderate showers favored late double-cropped rice in southern China. Moderate to heavy rain covered the Korean peninsula and the Manchurian Valley, which likely caused some damage to maturing crops. By week's end, Typhoon Dinah was moving northward into the Korean Strait toward Hokkaido, Japan.



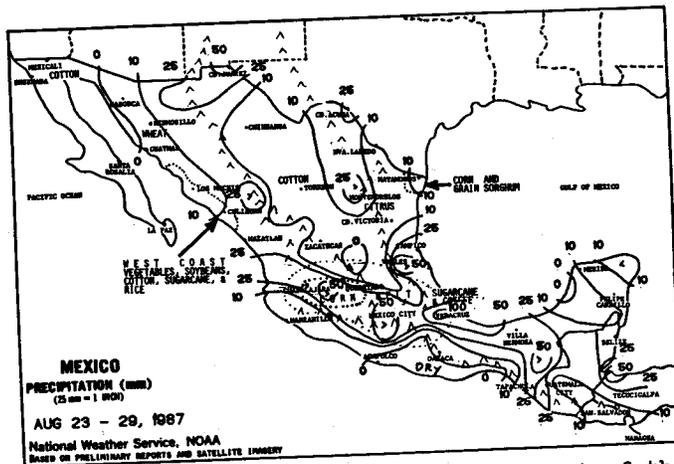
In the New Lands, harvest activities were well underway over much of the region. Mostly dry weather over the Urals benefited harvesting. Crop areas east of Kustanay experienced frequent showers accompanied by a pronounced cooling trend. Rainfall in these areas ranged from 20 to 60mm, causing harvest delays. In addition, daytime highs dropped from around 25 degrees C early in the week to around 15 degrees C by week's end.



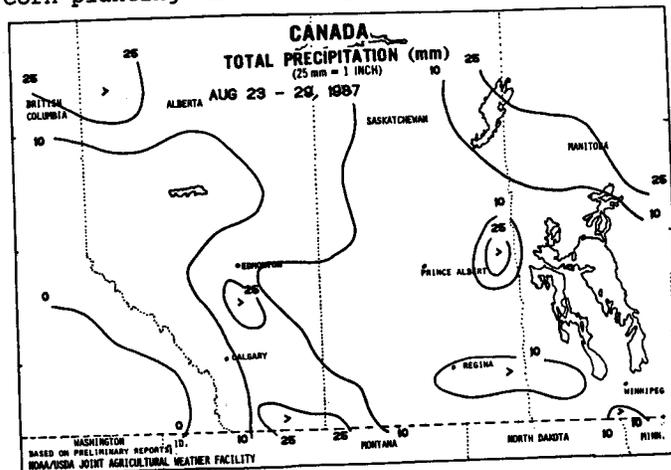
**AUSTRALIA** ... Moderate to heavy showers (10-41mm) swept through winter grain regions of Western Australia, South Australia, northern Victoria, and central New South Wales, improving moisture levels for jointing wheat. Cool weather returned to most crop areas, however, slowing vegetative growth. Light rain (less than 10mm) returned to northern New South Wales and southern Queensland and persisted in southern New South Wales and southern Victoria. Most Australian crop areas have received beneficial showers in recent weeks, improving moisture levels for summer crop planting and winter grain reproduction normally beginning in September. Dry weather favored sugarcane harvesting along Queensland's coast and moderate to heavy showers (25-62mm) continued along the coast of New South Wales.



**SOUTH AMERICA** ... In Argentina, dry weather covered the wheat areas, except in southern Buenos Aires where mostly light rain (5-17mm) caused minor fieldwork delays. Wheat planting is mostly complete in the major growing areas, and moisture is adequate for crop establishment. Summer crop planting will begin in a few weeks with currently favorable moisture conditions. In Brazil, locally heavy showers (50-100mm) soaked much of Rio Grande do Sul's wheat. Wet conditions have persisted in extreme southern Brazil for the past several weeks. Showers diminished rapidly over the northern extreme of Rio Grande do Sul and Santa Catarina. Mostly dry weather prevailed over Parana, Mato Grosso do Sul, and the northern Brazil. Wheat development ranged from heading in the south to filling in the north. Early corn planting was underway in Brazil.



**MEXICO** ... Rain (25-65mm) fell over most of the Southern Plateau corn belt, providing adequate moisture for grain development. Mostly scattered showers (10mm or less) extended from north-central portions of the corn belt to the northern cotton areas, benefiting maturing crops and favoring cotton and grain harvesting. Beneficial showers (20-35mm or more) covered the northwestern mountains, improving irrigation supplies for wheat planting which normally begins in September. Light rain also fell over the west coast farming region, helping crop growth, but weekly totals tended below average. Variable showers also produced mostly below average rainfall over southern Mexico, where late-season corn is normally in early vegetative growth.



**CANADA** ... Light rain (10mm or less) covered most of the Prairie grain belt. Isolated heavier showers (10-40mm) fell in east-central and northeastern Saskatchewan, but the crop harvests progressed in the leading grain producing province. Combined spring wheat reached 16 percent by late week. About half of the spring-sown cereals has been swathed, with the harvest concentrated mostly in southern Saskatchewan. The harvest progress is similar to last year. In Alberta, mostly light rain (2-10mm) caused minor fieldwork delays in the northeast, but heavier showers (10-30mm) slowed harvesting in the south. Recent untimely wetness for maturing crops in Alberta follows

(Continued to back cover)

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(Continued from p. 27)

unfavorable dryness earlier in the growing season in the south. Variable showers (1-13mm) covered Manitoba's crop areas, but some grain was harvested. About 70 percent of Manitoba's spring wheat was swathed and 35 percent combined. Extreme minimum temperatures dropped near the freezing level in Alberta and southwestern Manitoba.

(Continued from p. 15)

planted in the Rio Grande Valley. Broccoli, carrots, snap beans, cauliflower, cucumber, celery, and lettuce were harvested in California.

PASTURES AND LIVESTOCK: Pastures continued declining in the Southeast. Livestock was mostly good. Supplemental feeding was underway in some Southeastern States.

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