

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

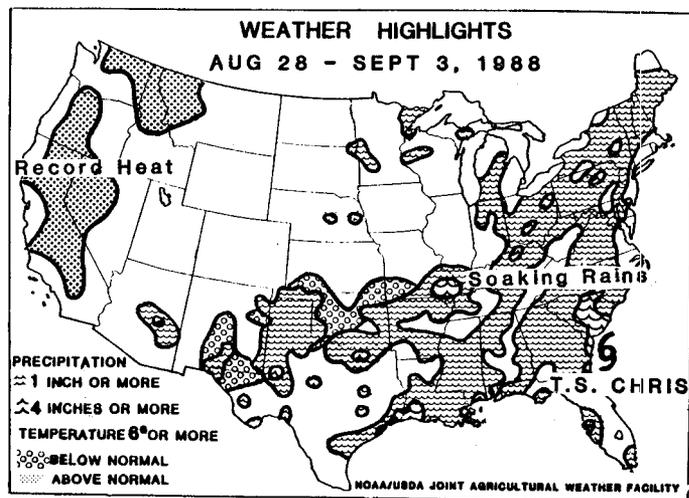
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National Weather Summary

August 28 - September 3, 1988



HIGHLIGHTS: Dry weather accompanied record heat in the Pacific States, while ample rains continued to relieve long-term moisture deficits in central and eastern areas of the country. Tropical Storm Chris moved inland over the South Atlantic States early in the week.

SUNDAY...Tropical Storm Chris hit the coast of South Carolina, bringing heavy rains and strong winds. The storm weakened as it moved inland, but it set off 11 tornadoes in South Carolina and dumped 3 1/2 inches of rain on Charlotte, North Carolina. A cold front moved eastward through the Ohio Valley, triggering showers in the central United States. High pressure brought pleasant temperatures to the Plains States, while interior areas of the Pacific States baked under readings in the 90's and 100's.

MONDAY...The remains of Chris moved northward through the mid-Atlantic States, bringing gusty winds and heavy rains. Up to 5 inches of rain fell in north-central Pennsylvania, and parts of Vermont measured 4.5 inches. The cold front, moving toward the Eastern seaboard, contributed to hefty rainfall totals. Cool weather prevailed in the central and northern Plains States, with 11 low temperature records set or tied in the morning, including 33 at Bismarck, North Dakota. Hot weather again affected the Western States.

TUESDAY...The remains of Chris brought heavy rains to Maine, while the cold front continued to move slowly southward through the Southeast. Showers with the front left over 5 inches of rainfall on Wrightsville Beach, North Carolina. Cool high pressure dominated the Midwest, with Duluth,

Minnesota setting a record with 39 degrees. A cold front delivered some relief from heat in the Northwest, but California continued to bake. Fresno set a record with 109 degrees.

WEDNESDAY...A cold front brought showers to the southern Atlantic coast, while another front traveled eastward across the northern Plains. Fresno, California broke another record when thermometers registered 106 degrees there.

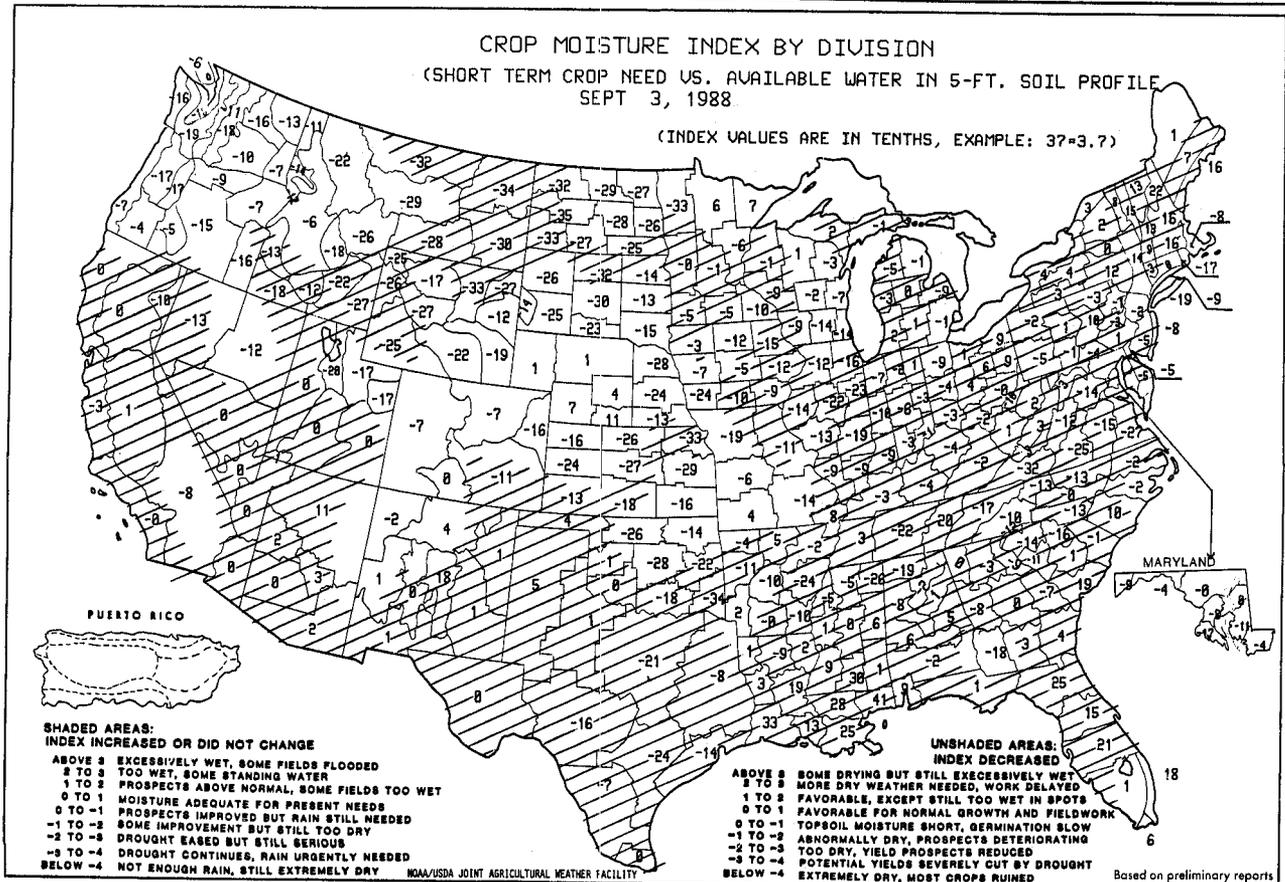
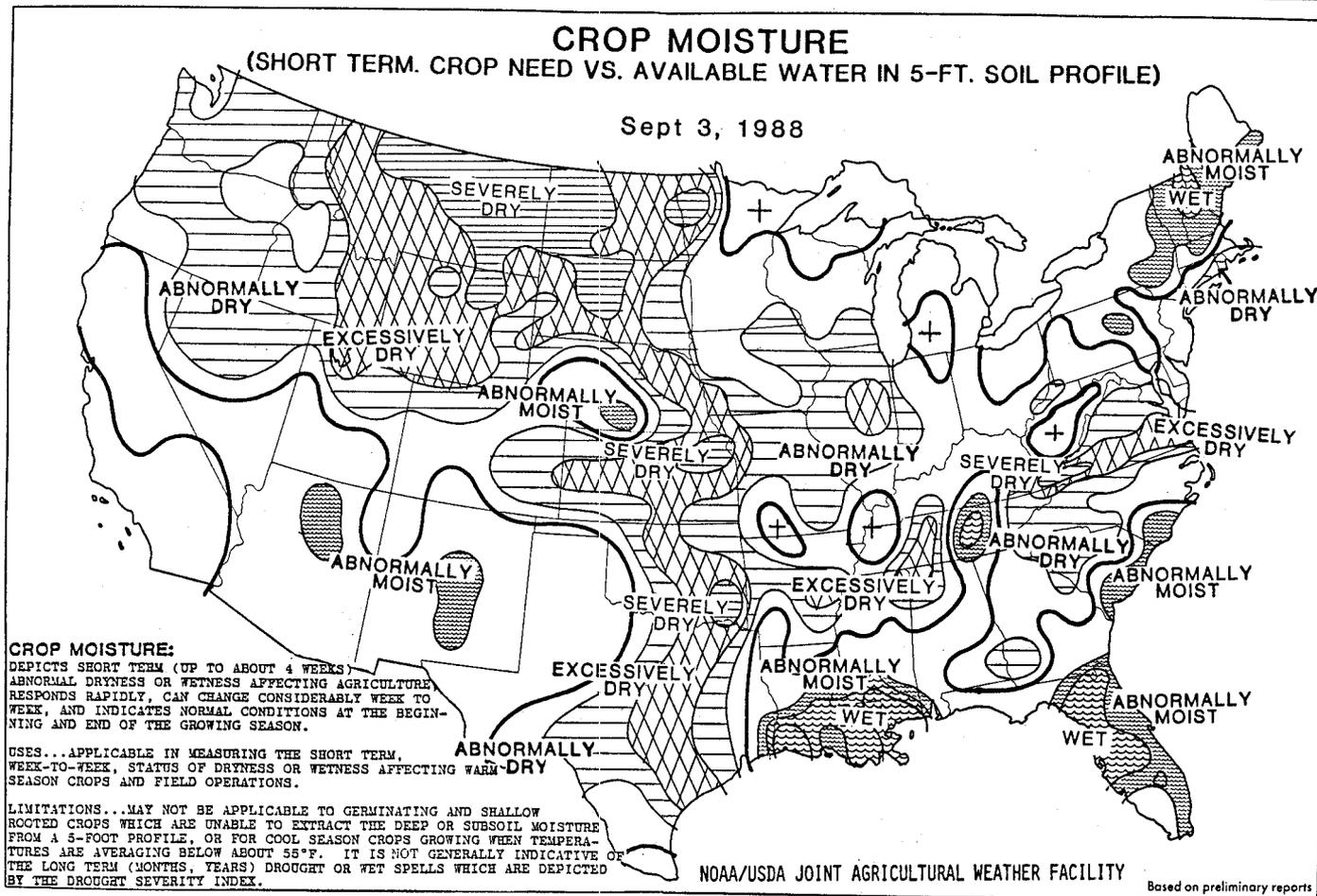
THURSDAY...High pressure prevailed over the Northeast, while a cold front slowly moved eastward toward the Great Lakes. The front set off locally heavy rains in northeastern Minnesota, with Ely recording 3 inches. Heavy rains also fell in New Mexico and west Texas. Hot weather prevailed across the Pacific States once again as Portland, Oregon broke its record for the date with a reading of 98 degrees.

FRIDAY...Portland set a new September record when temperatures soared to 105 degrees. Continued heavy rain led to flooding in west Texas. Midland measured over 3 inches in 12 hours. A cold front moved slowly across the Midwest, while high pressure dominated the Northeast.

SATURDAY...The nonstop heat continued in the West as the temperature in Redding, California reached 113 degrees (to be exceeded the next day by another 2 degrees). Medford, Oregon broke a record with a reading of 104 degrees. The cold front in the Midwest became active as widespread showers fell from the Great Lakes southward to the lower Mississippi Valley. A tropical disturbance in the western Gulf of Mexico contributed to abundant rains in Louisiana and east Texas.

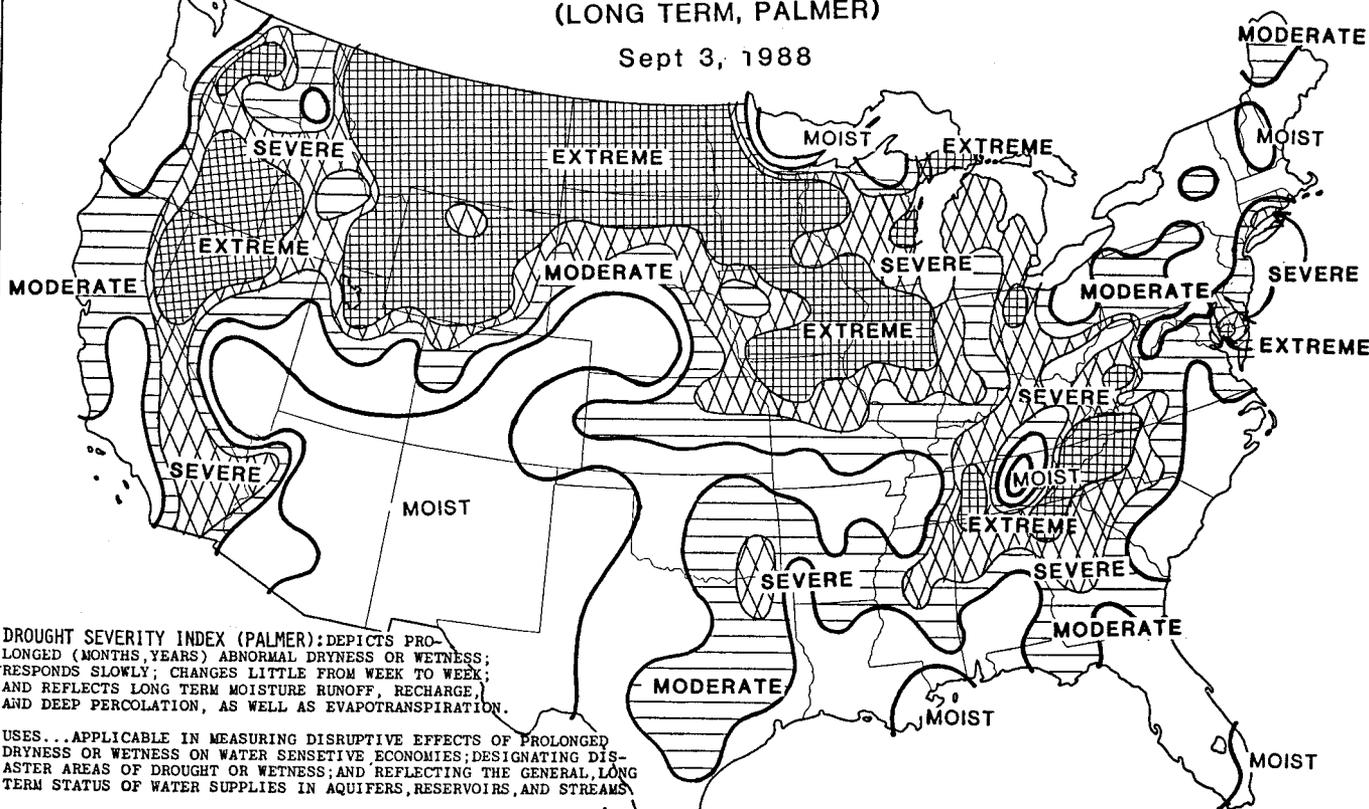
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DROUGHT SEVERITY (LONG TERM, PALMER)

Sept 3, 1988



DROUGHT SEVERITY INDEX (PALMER): DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS; RESPONDS SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION, AS WELL AS EVAPOTRANSPIRATION.

USES... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES; DESIGNATING DISASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL, LONG TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS, AND STREAMS.

LIMITATIONS... IS NOT GENERALLY INDICATIVE OF SHORT TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).

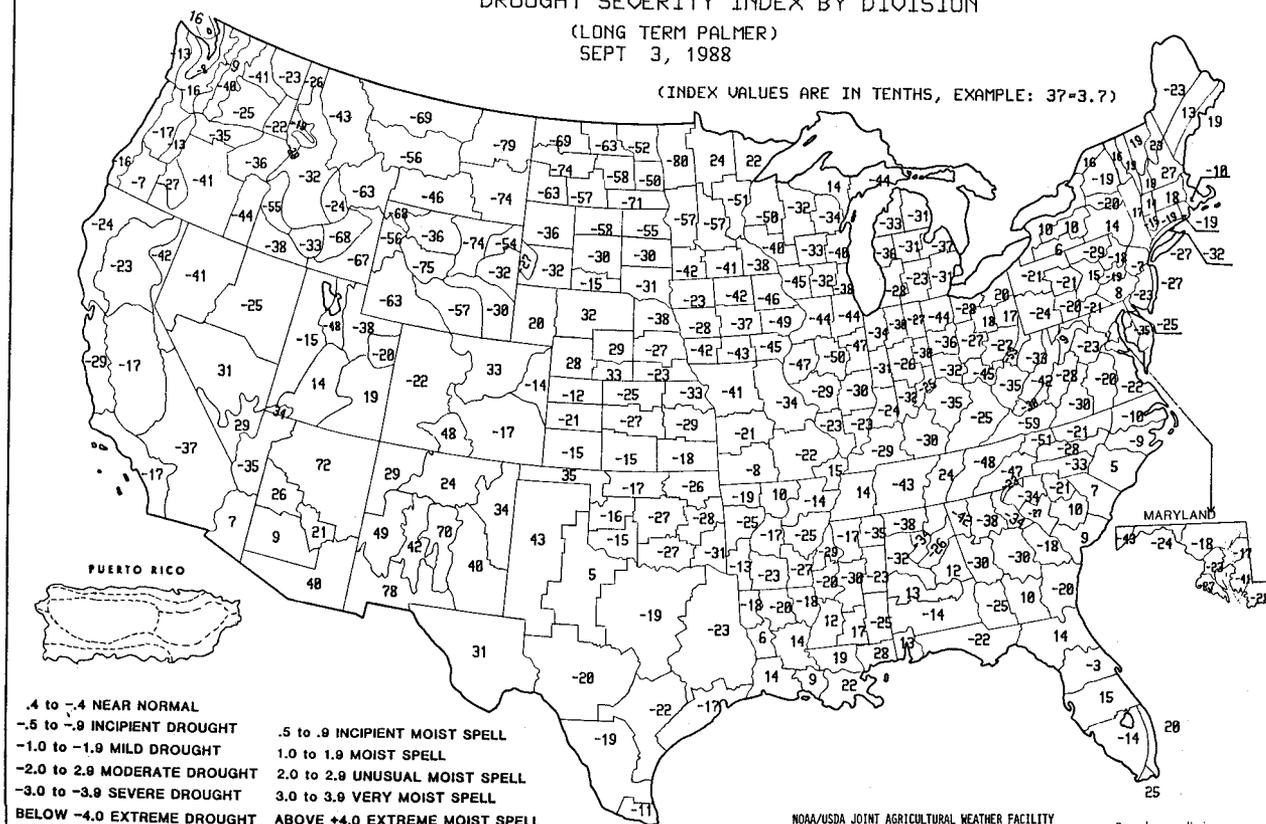
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports

DROUGHT SEVERITY INDEX BY DIVISION (LONG TERM PALMER)

SEPT 3, 1988

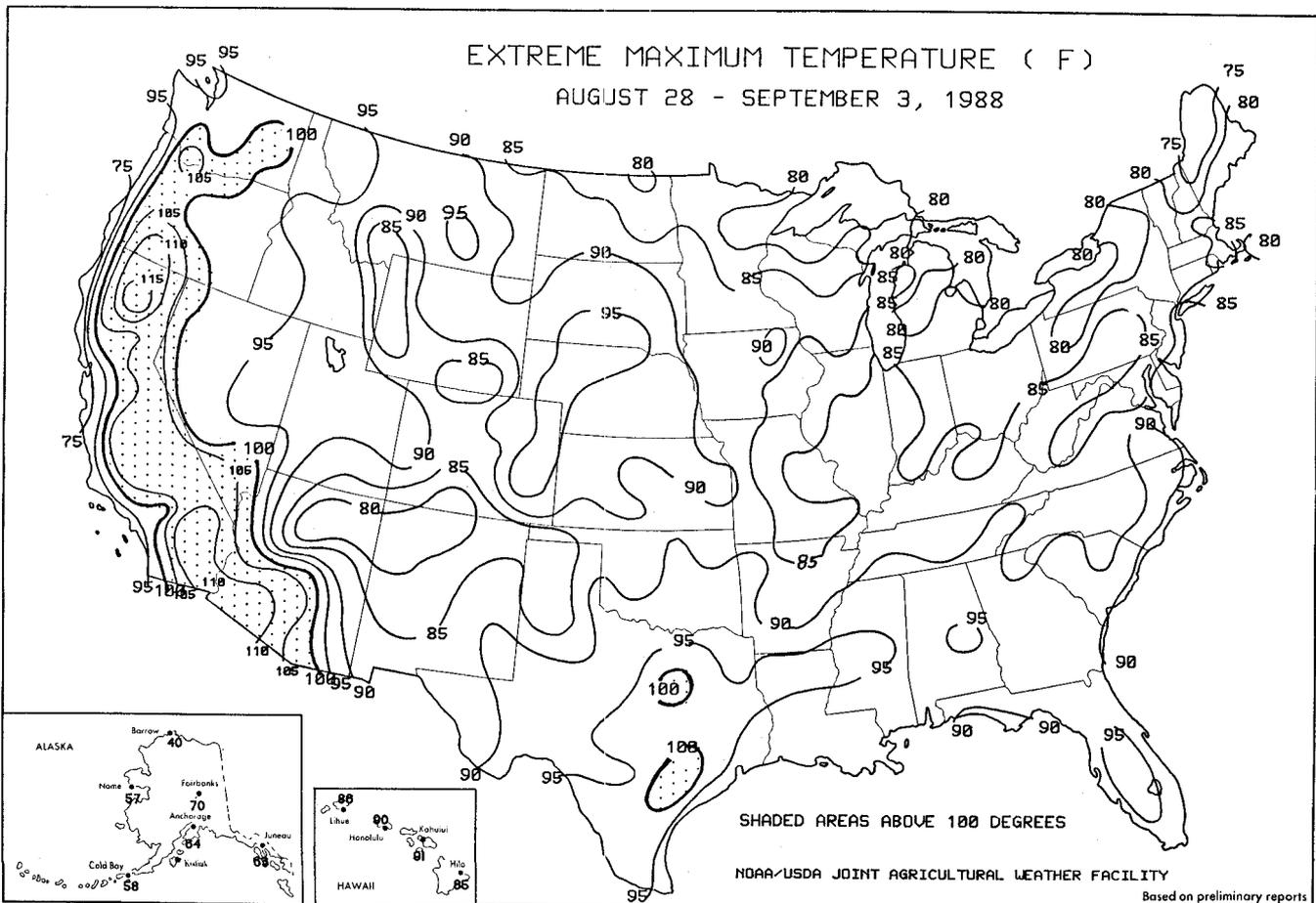
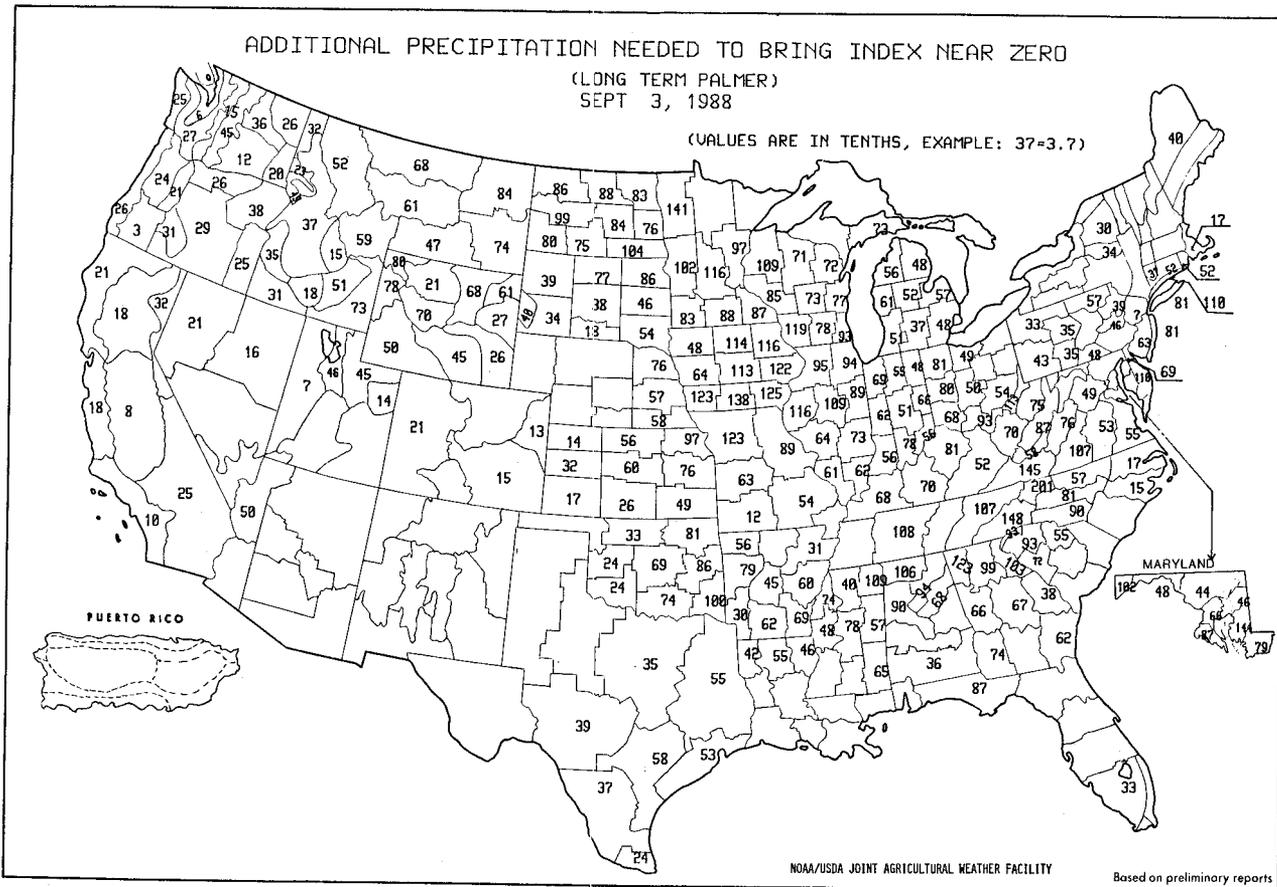
(INDEX VALUES ARE IN TENTHS, EXAMPLE: 37=3.7)

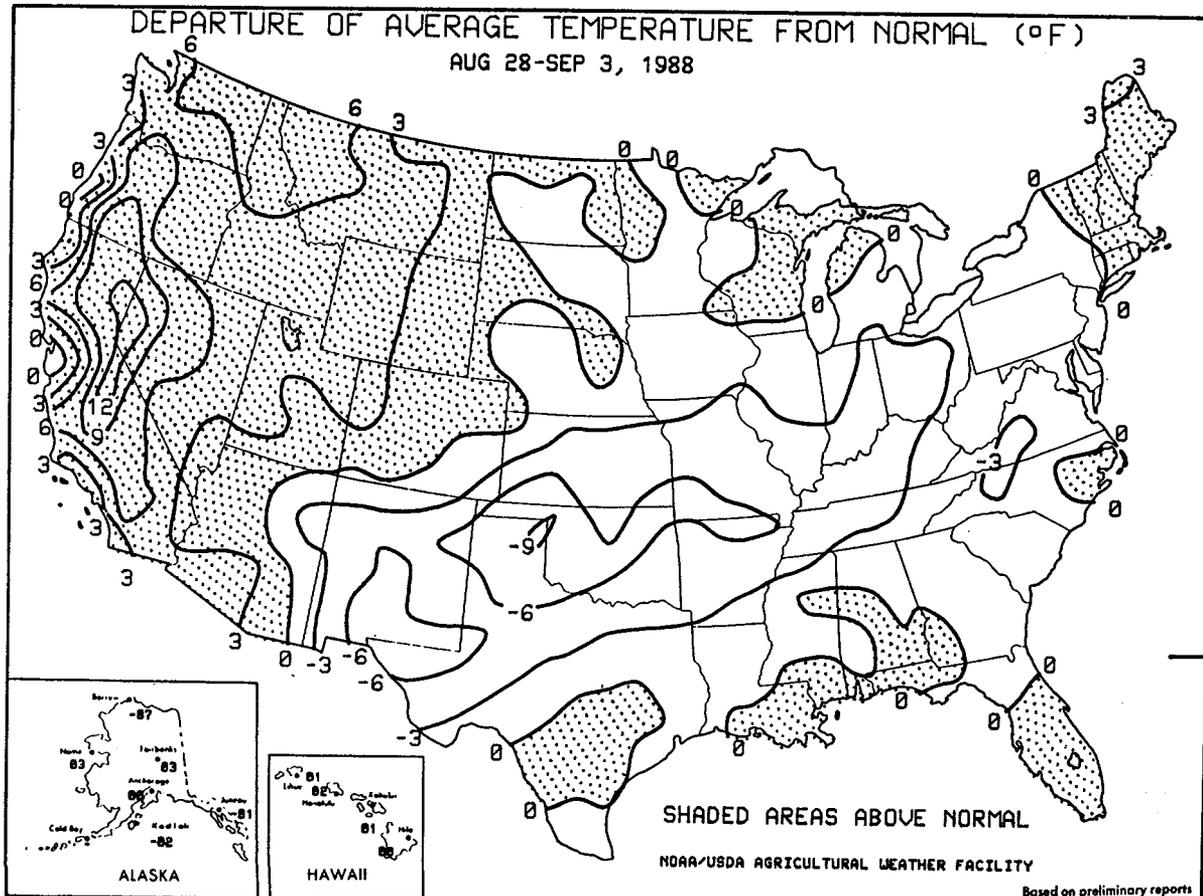
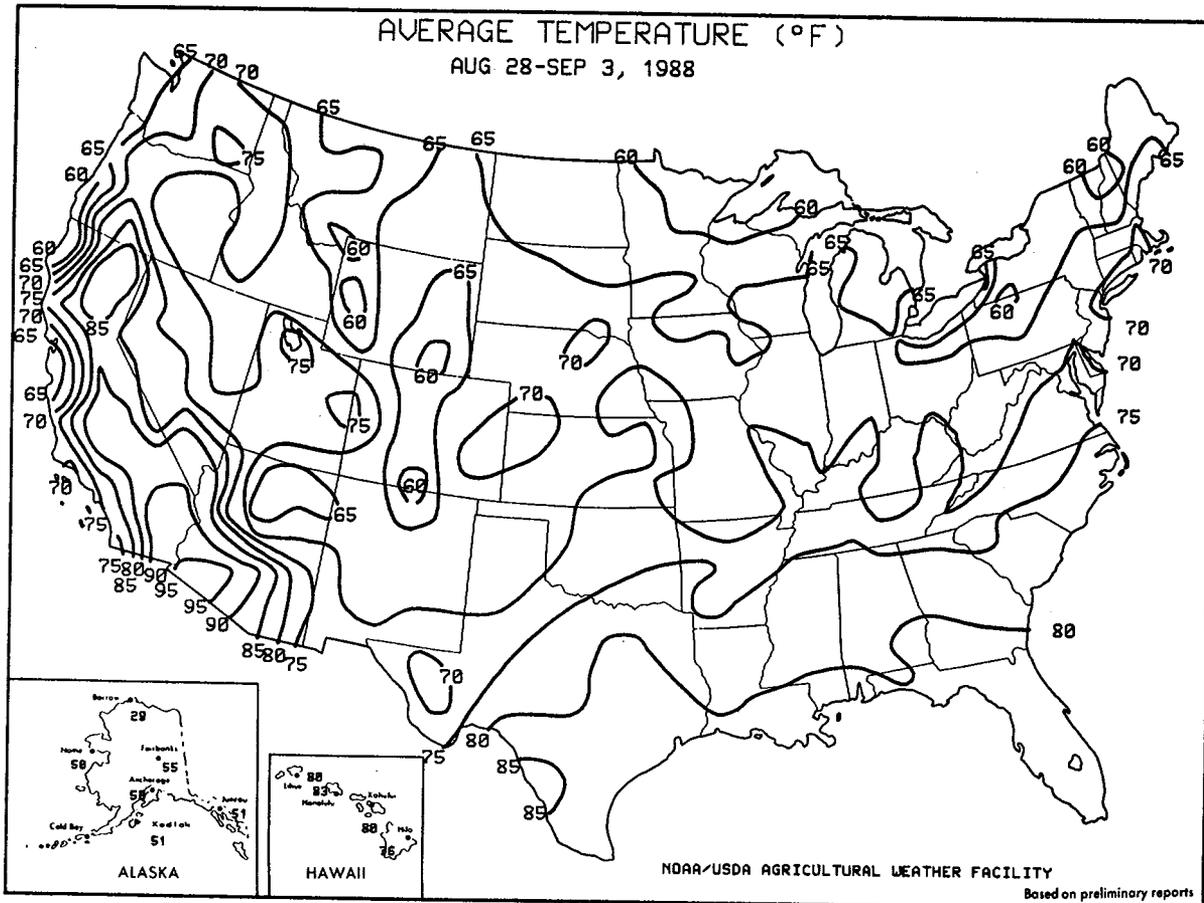


- .4 to -.4 NEAR NORMAL
- .5 to -.9 INCIPIENT DROUGHT
- 1.0 to -1.9 MILD DROUGHT
- 2.0 to 2.9 MODERATE DROUGHT
- 3.0 to -3.9 SEVERE DROUGHT
- BELOW -4.0 EXTREME DROUGHT
- .5 to .9 INCIPIENT MOIST SPELL
- 1.0 to 1.9 MOIST SPELL
- 2.0 to 2.9 UNUSUAL MOIST SPELL
- 3.0 to 3.9 VERY MOIST SPELL
- ABOVE +4.0 EXTREME MOIST SPELL

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Based on preliminary reports





National Weather Data for Selected Cities

Weather Data for the Week Ending September 3, 1988

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 1	PCT. NORMAL SINCE JUNE 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	86	69	93	65	77	0	.9	-.1	.9	.9	200	22.6	57	90	57	2	0	1	1	
MOBILE	89	73	92	72	81	0	.9	-.7	.6	.9	123	43.2	92	97	60	3	0	3	1	
MONTGOMERY	89	71	97	67	80	0	.7	-.2	.4	.4	96	40.4	116	96	58	3	0	3	0	
AK ANCHORAGE	59	48	64	42	53	0	1.0	-.5	.6	.1	32	7.6	85	92	55	0	0	4	1	
BARROW	32	26	40	22	29	-7	T	T	T	T	0	2.7	87	98	85	0	7	0	0	
FAIRBANKS	64	46	70	38	55	3	.3	0	.3	.3	193	7.8	106	93	50	0	0	3	0	
JUNEAU	55	47	63	40	51	-1	2.5	1.2	.8	.6	112	32.0	107	100	85	0	0	5	3	
KODIAK	59	43	66	37	51	-2	2.4	1.1	1.6	.5	95	49.3	133	98	71	0	0	5	2	
NOME	55	44	57	38	50	2	T	T	T	0	0	9.7	100	88	64	0	0	4	0	
AZ PHOENIX	103	81	105	77	92	2	.4	-.3	.0	.0	0	0	3.9	88	63	24	7	0	0	
PRESCOTT	81	57	85	55	69	1	.1	-.5	.1	.0	0	0	12.7	95	87	39	0	0	2	0
TUCSON	98	72	100	70	85	2	.8	.4	.7	.8	500	8.8	116	78	29	7	0	2	1	
YUMA	107	85	110	79	96	5	T	T	T	T	0	2.3	155	63	21	7	0	1	0	
AR FORT SMITH	88	63	94	53	76	-3	1.3	.6	.7	1.3	410	21.9	80	92	39	4	0	3	2	
LITTLE ROCK	82	65	88	59	74	-5	.1	-.8	.1	.1	21	27.0	80	74	48	0	0	1	0	
CA BAKERSFIELD	104	73	108	71	89	8	0	0	0	0	0	3.0	78	60	21	7	0	0	0	
EUREKA	61	52	63	50	57	-1	0	-1	0	0	0	15.9	70	96	83	0	0	0	0	
FRESNO	105	72	109	70	89	12	0	0	0	0	0	5.5	79	58	19	7	0	0	0	
LOS ANGELES	75	63	84	61	69	-2	0	0	0	0	0	4.6	55	94	65	0	0	0	0	
REDDING	109	68	116	64	89	9	0	-2	0	0	0	16.9	67	60	13	7	0	0	0	
SACRAMENTO	101	62	105	59	82	8	0	0	0	0	0	6.9	64	71	20	7	0	0	0	
SAN DIEGO	79	67	92	66	73	3	0	0	0	0	0	6.7	102	91	65	1	0	0	0	
SAN FRANCISCO	71	55	73	54	63	-1	0	0	0	0	0	7.3	59	95	59	0	0	0	0	
CO DENVER	83	55	92	48	69	1	0	-.3	0	0	0	12.5	107	77	26	2	0	0	0	
GRAND JUNCTION	90	60	93	56	75	3	0	-2	0	0	0	5.9	113	52	17	5	0	0	0	
PUEBLO	87	53	95	49	70	-1	.5	.2	.3	.5	418	9.3	108	80	26	2	0	2	0	
CT BRIDGEPORT	78	63	82	56	71	0	.2	-.6	.2	0	0	24.1	87	88	52	0	0	1	0	
HARTFORD	80	57	84	50	68	0	.3	-.6	.3	0	0	26.4	91	94	49	0	0	1	0	
DC WASHINGTON	81	64	84	60	73	-3	.9	0	.9	0	0	21.5	79	94	53	0	0	1	1	
FL APALACHICOLA	86	74	89	72	80	-1	3.3	1.3	2.0	3.2	344	49.2	129	96	70	0	0	3	2	
DAYTONA BEACH	89	74	90	72	81	1	.8	-.8	.5	.3	44	25.5	77	98	65	2	0	4	0	
JACKSONVILLE	89	73	92	72	81	0	4.1	2.4	3.3	3.9	528	40.4	106	98	66	3	0	6	2	
KEY WEST	88	79	91	77	84	-1	.3	-1.0	.1	.2	38	31.6	132	85	66	1	0	5	0	
MIAMI	89	78	90	75	83	1	.7	-1.1	.4	.2	28	39.4	101	89	61	3	0	6	0	
ORLANDO	93	76	95	74	84	2	.2	-1.4	.1	.1	19	37.1	100	93	53	7	0	2	0	
TALLAHASSEE	90	72	94	69	81	0	.3	-1.3	.2	1.1	10	36.9	77	97	58	4	0	3	0	
TAMPA	92	74	94	72	83	1	3.0	1.3	1.2	1.6	209	32.6	93	97	54	7	0	6	3	
WEST PALM BEACH	89	76	90	74	83	0	.6	-1.2	.2	.3	37	54.2	142	92	61	3	0	5	0	
GA ATLANTA	84	69	93	65	77	0	1.3	.6	1.3	1.3	394	29.7	84	92	53	1	0	1	1	
AUGUSTA	86	70	92	69	78	0	1.2	.3	.6	.2	56	27.7	85	95	60	3	0	5	1	
MACON	88	71	93	69	79	0	1.6	.8	1.0	.2	57	30.0	89	98	59	4	0	4	1	
SAVANNAH	85	72	92	70	79	-1	5.6	4.2	2.3	2.2	361	35.5	92	100	71	2	0	6	4	
HI HILO	84	68	85	66	76	0	.5	-1.4	.2	.1	10	81.3	96	89	61	0	0	4	0	
HONOLULU	90	75	91	72	83	2	T	-1	T	0	0	7.3	51	77	43	5	0	0	0	
KAHULUI	87	73	90	68	80	1	0	-1	0	0	0	12.9	106	82	50	1	0	0	0	
LIHUE	85	76	86	73	80	1	.2	-2	.1	T	6	25.2	96	84	63	0	0	3	0	
ID BOISE	92	55	97	48	73	5	0	-1	0	0	0	6.9	90	43	12	0	0	0	0	
LEWISTON	93	58	99	51	76	7	0	-2	0	0	0	6.9	79	46	15	5	0	0	0	
POCATELLO	88	47	91	43	67	3	0	-1	0	0	0	4.6	63	56	13	2	0	0	0	
IL CHICAGO	79	55	85	48	67	-2	.1	-.9	.1	.1	16	15.8	65	81	32	0	0	1	0	
MOLINE	80	54	84	47	67	-3	T	-.8	T	T	8	16.7	62	94	39	0	0	1	0	
PEORIA	81	55	86	48	68	-2	T	-.8	T	T	8	11.9	47	88	31	0	0	1	0	
QUINCY	80	54	84	49	67	0	0	-.9	0	0	0	12.1	45	88	35	0	0	0	0	
ROCKFORD	81	52	85	47	67	0	-1	-1	T	0	0	14.4	55	89	32	0	0	0	0	
SPRINGFIELD	82	56	86	46	69	0	0	-.8	0	0	0	13.2	53	88	37	0	0	0	0	
IN EVANSVILLE	79	58	85	50	69	0	.6	0	.4	.4	139	24.1	80	97	56	0	0	3	0	
FORT WAYNE	76	54	83	46	65	0	1.0	.3	.5	.5	164	23.3	95	95	46	0	0	3	1	
INDIANAPOLIS	79	57	85	47	68	0	.4	-.3	.3	.3	113	20.5	73	90	46	0	0	3	0	
SOUTH BEND	77	56	83	49	66	0	1.2	.4	.7	1.2	365	20.2	77	89	48	0	0	2	0	
IA DES MOINES	80	56	85	47	68	-2	.1	-.7	.1	.1	36	14.5	62	83	39	0	0	1	0	
STOUC CITY	82	54	89	46	68	-1	T	-.6	T	T	7	15.4	78	86	35	0	0	1	0	
WATERLOO	81	53	91	41	67	0	.1	-.7	0	.1	14	13.6	55	91	33	1	0	4	0	
KS CONCORDIA	84	58	91	48	71	0	-2	0	-.8	0	0	12.3	59	72	28	1	0	0	0	
DODGE CITY	80	56	91	50	68	0	.6	.7	.2	.6	324	12.1	74	86	41	2	0	2	1	
GOODLAND	84	56	94	48	70	1	0	-.4	0	0	0	17.8	137	81	29	2	0	0	0	
TOPEKA	84	53	89	41	69	0	0	-.8	0	0	0	15.5	63	85	27	0	0	0	0	
WICHITA	84	57	89	49	71	0	0	-.7	T	T	0	14.3	69	79	29	0	0	0	0	
KY BOWLING GREEN	79	58	86	49	68	0	1.6	1.3	1.9	1.9	564	25.0	71	99	52	0	0	3	1	
LEXINGTON	77	60	84	50	69	0	4.0	3.2	3.4	3.4	914	26.0	77	93	53	0	0	3	1	
LOUISVILLE	80	61	86	53	71	0	1.1	.3	.6	.6	176	25.9	84	92	48	0	0	3	1	
LA ALEXANDRIA	85	71	93	67	78	-3	2.8	2.0	2.0	2.4	691	31.9	84	93	66	1	0	4	1	
BATON ROUGE	89	74	93	73	81	1	1.9	.9	.9	1.1	227	53.8	133	96	63	3	0	4	2	
LAKE CHARLES	88	73	92	69	80	0	6.3	4.9	4.8	6.3	46.4	128	97	66	3	0	3	2		
NEW ORLEANS	87	75	90	73	81	0	1.7	.3	.8	1.4	222	61.3	144	99	72	1	0	6	2	

Based on 1951-80 normals

Weather Data for the Week Ending September 3, 1988

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 1	PCT. NORMAL SINCE June 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION		
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
SHREVEPORT	89	69	97	63	79	-1	.6	-1	.6	.6	181	20.7	68	87	51	3	0	1	1	
ME CARIBOU	71	53	78	44	62	3	.5	-3	.2	.1	38	20.9	87	96	57	0	0	5	0	
PORTLAND	77	57	82	52	67	4	2.2	1.5	2.2	0	0	28.6	104	96	55	0	0	2	1	
MD BALTIMORE	80	60	83	56	70	-3	.9	0	0	0	0	22.9	79	93	51	0	0	2	1	
SALISBURY	80	61	88	54	71	-2	.6	-6	0	0	0	32.6	103	97	55	0	0	2	1	
MA BOSTON	79	63	88	59	71	-2	.4	-4	0	0	0	24.3	85	92	52	0	0	1	0	
CHATHAM	74	48	77	58	67	2	.1	-8	.1	0	0	23.2	76	92	72	0	0	2	0	
MI ALPENA	74	60	82	41	61	-1	.2	-6	.2	.2	55	17.6	88	98	55	0	0	1	0	
DETROIT	77	56	83	51	67	-1	.2	-4	.2	.2	69	13.6	62	90	47	0	0	1	0	
FLINT	75	54	81	45	65	-1	.1	-6	.1	.1	41	15.7	76	92	50	0	0	1	0	
GRAND RAPIDS	76	54	80	46	65	-2	1.4	.7	1.4	1.4	436	18.2	80	92	44	0	0	0	1	
HOUGHTON LAKE	73	51	78	39	62	0	1.0	.3	.5	.5	170	16.3	85	89	52	0	0	3	1	
LANSING	76	53	83	44	65	-1	1.4	.7	1.4	1.4	447	18.0	88	93	51	0	0	2	1	
MARQUETTE	69	50	80	43	60	1	.9	0	.7	.8	218	23.1	92	95	58	0	0	4	1	
MUSKEGON	74	55	78	47	65	-1	1.0	.3	.3	1.0	313	17.0	83	94	46	0	0	3	1	
SAULT ST. MARIE	71	50	81	40	61	1	.3	-6	.7	.3	65	18.3	86	98	58	0	0	2	0	
MN ALEXANDRIA	74	53	85	47	64	0	.6	-1	.5	.6	218	16.8	89	89	45	0	0	2	1	
DULUTH	69	49	75	39	59	0	1.1	.3	.7	1.1	305	21.5	100	99	54	0	0	2	1	
INT'L FALLS	70	48	80	40	59	1	.2	-6	.1	.1	30	17.9	102	99	56	0	0	4	0	
MINNEAPOLIS	76	53	86	46	65	-1	.6	-2	.5	.6	183	12.5	62	90	43	0	0	2	1	
ROCHESTER	77	52	86	43	64	0	.4	-4	.3	.4	114	13.6	66	90	42	0	0	2	0	
MS GREENWOOD	87	70	95	64	79	0	1.5	.8	1.5	1.5	466	18.7	50	85	55	1	0	1	0	
JACKSON	88	70	95	66	79	-1	1.1	.2	.7	1.0	261	26.1	70	98	61	2	0	3	1	
MERIDIAN	87	70	92	65	79	-1	1.5	.7	.9	1.0	268	29.3	76	98	61	2	0	4	1	
MO CAPE GIRARDEAU	80	60	85	50	70	-1	4.3	3.4	3.5	4.3	0	23.3	74	94	51	0	0	3	2	
COLUMBIA	81	55	87	51	68	-6	T	-9	T	T	0	19.2	74	88	39	0	0	0	0	
KANSAS CITY	84	58	89	50	71	-4	T	-1.0	0	0	0	12.7	49	75	27	0	0	0	0	
SAINT LOUIS	82	61	87	54	72	-3	T	-6	T	T	0	20.2	83	83	41	0	0	0	0	
SPRINGFIELD	80	55	86	46	68	-6	.2	-7	.2	T	3	32.9	121	94	44	0	0	2	0	
MT BILLINGS	87	54	95	46	70	5	0	-3	0	0	0	6.1	55	45	16	2	0	0	0	
GLASGOW	85	49	88	44	67	3	0	-3	0	0	0	5.9	66	48	17	0	0	0	0	
GREAT FALLS	85	50	93	43	67	5	0	-3	0	0	0	7.5	63	50	16	1	0	0	0	
HAVRE	85	46	94	37	65	2	0	-3	0	0	0	3.8	41	49	17	1	0	0	0	
HELENA	89	50	92	44	69	8	0	-2	0	0	0	6.3	70	47	14	3	0	0	0	
KALISPELL	88	43	97	37	66	6	0	-3	0	0	0	9.0	82	74	13	3	0	0	0	
MILES CITY	84	53	91	44	68	2	0	-3	0	0	0	2.4	21	46	18	1	0	0	0	
MISSOULA	90	47	98	41	69	7	0	-2	0	0	0	8.7	93	61	14	4	0	0	0	
NE GRAND ISLAND	85	55	92	43	70	0	T	-6	T	T	4	16.9	92	79	32	1	0	1	0	
LINCOLN	84	55	90	41	70	-1	T	-8	T	T	6	10.5	50	76	31	1	0	1	0	
NORFOLK	84	54	91	41	69	0	.7	.1	.6	.7	271	17.9	94	88	32	2	0	2	1	
NORTH PLATTE	83	50	90	39	66	-1	T	-4	T	0	0	16.8	105	89	36	1	0	1	0	
OMAHA	82	58	90	48	70	0	.4	-5	.4	.4	103	15.4	67	70	39	1	0	1	0	
SCOTTSBLUFF	86	47	94	43	67	0	0	-2	0	0	0	13.4	113	82	19	2	0	0	0	
VALENTINE	86	46	99	34	66	-1	T	-4	T	T	0	17.4	123	75	19	2	0	0	0	
NV ELY	88	45	90	40	67	5	T	-2	T	0	0	6.0	94	64	14	2	0	0	0	
LAS VEGAS	101	73	105	70	87	2	.2	.1	.2	T	0	2.2	79	62	18	7	0	1	0	
RENO	97	56	100	53	77	13	T	-1	T	0	0	2.4	50	59	12	7	0	0	0	
WINNEMUCCA	97	47	99	42	72	7	0	-1	0	0	0	4.3	81	33	8	7	0	0	0	
NH CONCORD	78	52	86	45	65	1	2.0	1.3	1.9	0	0	24.4	103	100	51	0	0	2	1	
NJ ATLANTIC CITY	79	57	86	49	68	-3	.7	-2	.7	0	0	22.4	77	99	58	0	0	1	1	
NM ALBUQUERQUE	76	59	81	55	68	-6	1.0	.8	.7	.7	740	10.7	194	90	48	0	0	6	1	
CLOVIS	78	61	85	56	69	-5	1.4	.9	.4	.8	375	17.5	139	91	56	0	0	5	0	
ROSWELL	78	61	90	56	70	-6	.3	-2	.1	.1	25	11.7	159	94	52	1	0	6	0	
NY ALBANY	78	55	84	48	66	0	2.6	1.8	1.7	0	0	21.1	88	100	54	0	0	2	2	
BINGHAMTON	73	52	82	46	63	-1	3.6	2.8	2.8	0	0	24.8	100	97	55	0	0	2	2	
BUFFALO	74	58	82	53	66	0	1.8	.9	1.1	.5	122	25.4	103	91	50	0	0	3	1	
NEW YORK	81	67	88	64	74	1	.3	-6	.3	0	0	25.9	89	83	45	0	0	1	0	
ROCHESTER	73	54	81	49	64	-3	1.7	1.0	1.2	T	0	17.8	84	97	61	0	0	2	1	
SYRACUSE	76	54	82	48	65	-2	1.5	.7	1.2	0	0	23.1	88	97	56	0	0	2	1	
NC ASHEVILLE	76	59	87	49	68	-3	1.3	.3	.8	.8	200	16.6	53	100	62	0	0	5	1	
CHARLOTTE	83	67	89	60	75	-1	3.2	2.3	1.8	.8	218	22.8	74	92	54	0	0	4	3	
GREENSBORO	82	63	87	56	72	-2	2.4	1.5	1.6	.1	23	23.3	77	96	55	0	0	4	2	
HATTERAS	83	73	88	69	78	1	1.3	-1	.7	.6	105	32.5	89	93	67	0	0	3	2	
NEW BERN	84	71	90	67	78	0	.4	-1.0	.3	.1	21	40.1	105	91	63	1	0	2	0	
RALEIGH	84	64	88	57	74	-1	2.0	1.1	1.3	.1	14	22.7	75	95	53	0	0	4	2	
WILMINGTON	84	71	90	67	77	-1	2.9	1.4	2.7	.1	14	49.7	128	96	67	1	0	4	1	
ND BISMARCK	80	44	89	33	62	-2	T	-3	T	0	0	8.1	67	83	23	0	0	1	0	
FARGO	78	52	86	40	65	1	T	-5	T	T	0	8.6	57	81	36	0	0	0	0	
GRAND FORKS	77	49	84	37	63	1	T	-5	T	0	0	9.0	64	85	33	0	0	1	0	
WILLISTON	81	44	87	34	63	0	0	-3	0	0	0	7.5	71	64	19	0	0	0	0	
OH AKRON-CANTON	74	55	81	50	65	-3	4.6	3.9	3.7	3.7	0	23.7	92	96	60	0	0	3	2	
CINCINNATI	79	58	86	52	69	-3	2.2	1.5	1.7	1.7	553	29.2	101	89	46	0	0	3	1	
CLEVELAND	75	56	84	49	66	-3	1.9	1.2	1.0	1.0	306	19.2	78	96	57	0	0	3	2	
COLUMBUS	76	56	84	49	66	-4	3.1	2.4	1.8	2.3	706	27.5	101	95	53	0	0	4	2	

Weather Data for the Week Ending September 3, 1988

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 1	PCT. NORMAL SINCE JUNE 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F			
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	75	57	82	50	66	-4	1.7	1.1	1.4	1.4	515	21.4	84	90	55	0	0	3	1
TOLEDO	76	55	82	48	66	-2	.5	-1	1.3	.3	100	16.4	73	91	50	0	0	3	0
YOUNGSTOWN	74	53	81	44	63	-3	3.4	2.7	1.6	1.5	442	22.0	84	97	58	0	0	3	2
OK OKLAHOMA CITY	83	60	90	53	72	-6	.4	-3	1.2	.2	56	21.1	94	86	40	1	0	3	0
TULSA	83	60	88	52	71	-7	1.8	.9	1.4	.3	78	20.6	76	90	38	0	0	3	1
OR ASTORIA	70	51	88	47	61	1	T	-5	T	0	0	31.4	81	98	61	0	0	3	0
BURNS	91	44	97	39	68	4	0	-1	0	0	0	4.9	79	49	11	4	0	0	0
MEDFORD	102	57	110	53	79	11	0	-1	0	0	0	6.8	62	73	17	7	0	0	0
PENDLETON	90	57	95	48	73	5	0	-1	0	0	0	7.4	98	45	17	5	0	0	0
PORTLAND	90	56	105	51	73	7	T	-3	T	0	0	19.5	92	92	27	4	0	0	0
SALEM	91	49	104	44	70	6	0	-3	0	0	0	18.8	83	88	26	4	0	0	0
PA ALLENTOWN	79	57	85	51	68	-1	.7	-3	.7	0	0	28.1	93	98	49	0	0	2	1
ERIE	75	58	83	52	66	0	2.0	1.0	1.2	.4	95	22.2	86	89	54	0	0	3	1
HARRISBURG	80	58	87	52	69	-3	.9	-1	.6	.2	41	25.2	94	96	47	0	0	3	1
PHILADELPHIA	80	62	84	58	71	-2	.2	-7	.2	0	0	27.5	96	95	51	0	0	1	0
PITTSBURGH	78	57	84	50	68	-1	1.1	-.4	-.7	.4	123	18.8	71	97	47	0	0	3	1
SCRANTON	76	57	84	50	67	-1	1.1	-.3	1.0	0	0	24.7	104	92	49	0	0	2	1
RI PROVIDENCE	80	61	87	55	70	2	1.1	-.8	1.1	0	0	25.6	86	96	53	0	0	1	0
SC CHARLESTON	84	71	91	68	78	-1	5.4	4.0	2.7	.6	112	31.0	79	99	73	1	0	6	4
COLUMBIA	84	72	92	69	78	-1	7.6	6.4	4.0	.2	45	30.1	81	93	65	1	0	4	2
FLORENCE	84	71	90	68	77	-1	3.7	2.7	1.4	.4	87	27.7	84	94	63	1	0	5	3
GREENVILLE	82	65	92	58	74	-2	2.1	1.1	1.1	1.1	230	25.2	69	98	63	1	0	4	2
SD ABERDEEN	81	48	86	37	64	-1	.2	-2	.2	0	0	11.5	80	88	28	0	0	1	0
HURON	85	47	94	37	66	-1	0	-4	0	0	0	13.8	94	82	24	2	0	0	0
RAPID CITY	84	51	91	41	68	1	0	-3	0	0	0	8.3	62	52	17	1	0	0	0
SIoux FALLS	81	51	89	42	66	-1	T	-7	T	T	0	12.4	67	84	34	0	0	0	0
TN CHATTANOOGA	83	65	90	59	74	-2	.9	-1	.9	.9	200	27.7	76	95	51	1	0	1	1
KNOXVILLE	84	64	91	59	74	-2	.6	-1	.6	-.9	187	22.3	67	94	53	1	0	1	1
MEMPHIS	84	66	90	58	75	-3	1.5	-.6	-.9	1.5	379	26.9	73	89	52	1	0	2	2
NASHVILLE	83	63	89	55	73	-3	.5	-.3	.4	.4	105	18.4	53	93	53	0	0	2	0
TX ABILENE	86	67	92	62	76	-.4	.2	-.5	.2	.2	73	12.9	80	81	44	3	0	2	0
AMARILLO	74	58	84	53	66	-8	1.7	1.1	1.0	1.1	543	21.5	143	98	60	0	0	4	2
AUSTIN	93	73	96	71	83	1	T	-7	T	T	0	15.7	76	87	41	7	0	0	0
BEAUMONT	88	74	94	73	81	-1	5.5	4.2	4.6	5.5	940	36.6	97	97	64	4	0	3	2
BROWNSVILLE	90	75	92	74	83	-1	1.2	-.2	1.0	1.2	242	14.8	101	98	63	5	0	4	1
CORPUS CHRISTI	91	76	94	75	84	0	.9	-.5	.6	.7	109	10.0	50	94	59	6	0	4	1
DEL RIO	92	74	95	72	83	0	0	-5	0	0	0	10.3	92	76	38	6	0	0	0
EL PASO	80	63	89	60	72	-7	1.1	-.8	.6	-.5	329	8.7	174	96	54	0	0	4	1
FORT WORTH	89	69	98	64	79	-3	1.7	1.1	1.4	1.4	470	16.0	76	85	44	0	0	3	1
GALVESTON	87	77	91	74	82	0	8.3	7.0	4.1	6.0	973	31.8	123	85	63	2	0	4	3
HOUSTON	90	73	95	71	82	0	.3	-.8	-.1	.2	37	19.0	62	97	55	5	0	3	0
LUBBOCK	77	61	89	58	69	-6	1.6	1.1	1.0	1.2	590	11.2	86	100	67	0	0	5	1
MIDLAND	81	64	92	61	72	-6	4.2	3.8	2.2	3.7	0	16.4	177	93	55	2	0	4	2
SAN ANGELO	89	67	94	64	78	-2	.3	-.3	.3	.3	114	10.4	89	83	43	4	0	1	0
SAN ANTONIO	95	73	98	71	84	2	T	-8	T	T	3	16.9	88	91	40	7	0	1	0
VICTORIA	93	74	100	70	84	1	.7	-.5	.7	T	7	10.0	42	95	47	6	0	2	1
WACO	94	70	100	66	82	-1	T	-6	T	T	14	14.5	70	88	39	7	0	1	0
WICHITA FALLS	87	63	94	57	75	-6	1.0	-.3	1.0	1.0	313	15.1	82	91	42	3	0	3	1
UT BLANDING	85	56	87	53	71	3	.6	-.3	.6	T	11	8.3	113	79	35	0	0	2	1
CEDAR CITY	90	55	93	51	72	4	.1	-2	.1	T	0	10.2	143	73	19	3	0	1	0
SALT LAKE CITY	92	59	94	56	75	5	0	-2	0	0	0	6.4	60	49	15	6	0	0	0
VT BURLINGTON	75	55	81	48	65	1	2.5	1.6	1.4	0	0	17.7	78	97	56	0	0	2	2
VA NORFOLK	81	69	89	62	75	-1	1.3	-.2	1.2	0	0	29.4	92	92	60	0	0	3	1
RICHMOND	84	62	90	55	73	-1	.8	-.2	.8	0	0	27.7	91	97	52	1	0	1	1
ROANOKE	79	58	88	51	69	-4	2.8	2.0	1.4	.2	55	22.2	81	100	55	0	0	4	2
WA QUILLAYUTE	79	50	97	46	64	6	T	-.9	T	0	0	57.4	96	96	45	2	0	1	0
SEATTLE-TACOMA	83	56	98	50	70	7	.1	-.3	.1	0	0	17.0	80	90	36	2	0	1	0
SPOKANE	91	53	98	45	72	7	0	-2	0	0	0	8.7	84	53	14	5	0	0	0
YAKIMA	92	47	100	43	70	4	0	-1	0	0	0	3.5	73	83	20	5	0	0	0
WV BECKLEY	76	56	83	51	66	-1	.5	-.3	.2	.2	58	21.1	69	93	53	0	0	4	0
CHARLESTON	82	58	89	50	70	-2	.9	-.1	.5	.5	156	18.9	61	95	44	0	0	3	1
HUNTINGTON	81	58	86	53	70	-3	1.5	.7	1.3	1.3	394	24.2	81	98	50	0	0	2	1
PARKERSBURG	80	58	88	50	69	-2	1.3	.5	.9	-.9	281	21.1	76	96	50	0	0	2	1
WI GREEN BAY	77	53	86	45	65	2	.2	-.5	.2	.2	67	12.9	65	95	47	0	0	2	0
LACROSSE	80	57	89	48	68	1	.1	-.8	.1	.1	29	16.5	74	89	41	0	0	1	0
MADISON	79	52	87	43	66	1	.4	-.4	.4	.4	126	14.9	66	88	38	0	0	1	0
MILWAUKEE	78	56	84	51	67	0	.4	-.3	.4	.4	137	16.4	74	83	40	0	0	1	0
WAUSAU	74	53	82	45	63	0	.1	-.9	.1	.1	23	13.7	60	90	47	0	0	1	0
WY CASPER	84	46	92	40	65	1	0	-1	0	0	0	4.7	55	50	12	2	0	0	0
CHEYENNE	80	51	89	44	65	2	T	-.3	T	0	0	13.0	121	75	23	0	0	1	0
LANDER	84	52	91	47	68	4	0	-1	0	0	0	5.9	60	43	14	1	0	0	0
SHERIDAN	86	48	93	40	67	3	0	-.3	0	0	0	7.5	66	57	18	2	0	0	0
PR SAN JUAN	89	77	92	76	83	1	.9	-.5	.4	.2	27	41.2	124	90	69	4	0	5	0

August Weather and Crop Summary

WEATHER SUMMARY

HIGHLIGHTS: Hot, humid conditions gripped the eastern two-thirds of the Nation during the first half of the month. Several stations in the East set records for having the highest number of days of 90 degrees or above for the 1988 summer. Frontal systems brought cooler weather and beneficial rain in the latter part of the month. Record heat and dry weather predominated the western third of the country, contributing to the continuing forest fires in the Northwest.

AUGUST 1-6...Severe heat spread over the eastern half of the Nation. The Northern States were abnormally hot. A slow moving frontal system triggered severe thunderstorms in the Ohio and upper and middle Mississippi Valleys and Middle Atlantic States. Rain was scattered over the eastern two-thirds of the country, easing drought in some areas.

AUGUST 7-13...Hot, humid air remained over the East. Some stations in the Northeast set records for persistent heat. A frontal system caused rain from the Great Lakes to the central Plains early in the week. Tropical Storm Beryl dumped heavy rain along the central Gulf coast.

AUGUST 14-20...Hot, humid weather continued over the eastern United States during much of the week. At week's end, a strong cold front pushed south from Canada and brought showers and relief from the extreme heat to the north-central and northeastern States. Remnants from a tropical depression brought widespread rain to the extreme Southeast.

AUGUST 21-27...A cold front brought substantial rain and relief from the heat to the eastern United States. A tropical depression, which later became Tropical Storm Chris, caused torrential rain and flooding in Puerto Rico. Thunderstorms caused local flooding in the Southwest.

AUGUST 28-31...Tropical Storm Chris and its remnants trekked up the Atlantic coast, causing high winds and locally heavy rain. A cold front triggered showers and thunderstorms across the eastern half of the Nation. Hot weather prevailed in the Western States.

CROP DEVELOPMENT

As the month began, hot, dry weather persisted throughout most of the eastern half of the Nation, but precipitation gave some relief in the central and northern Great Plains, Southeast, northwestern Corn Belt, and Indiana. Crop condition remained fairly stable but without moisture began declining in some States. The rains continued but crops showed little improvement. At midmonth, severe heat returned, stressing crops throughout most of the eastern half of the Nation. The extreme high temperatures and the lack of moisture hastened crop maturity. Cotton and soybean plants wilted and began dropping fruit in some areas. The last week of August, cooler temperatures brought relief

to crops in the northern Great Plains and Corn Belt and precipitation relieved crop stress in much of the Corn Belt, Delta, and Southeast.

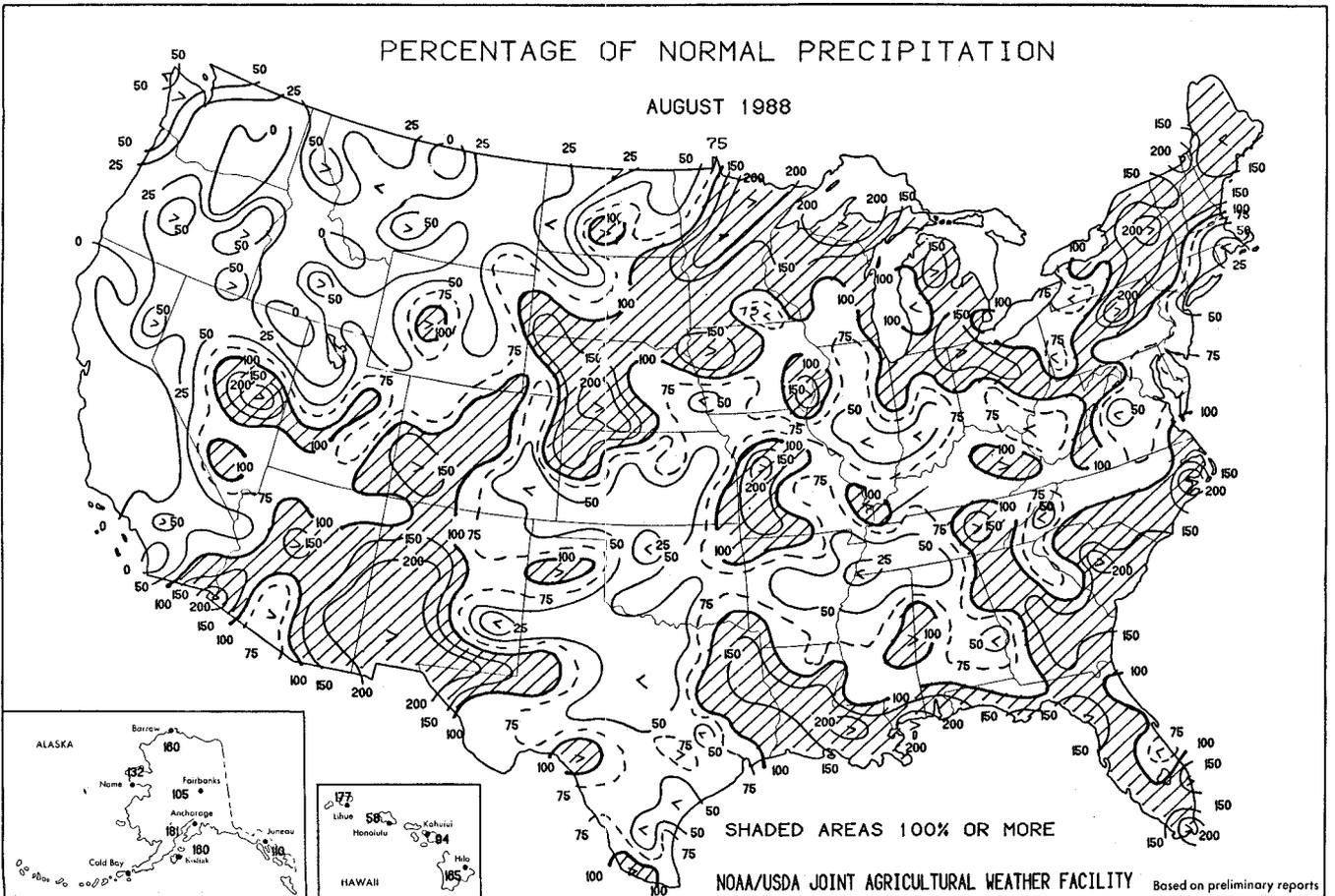
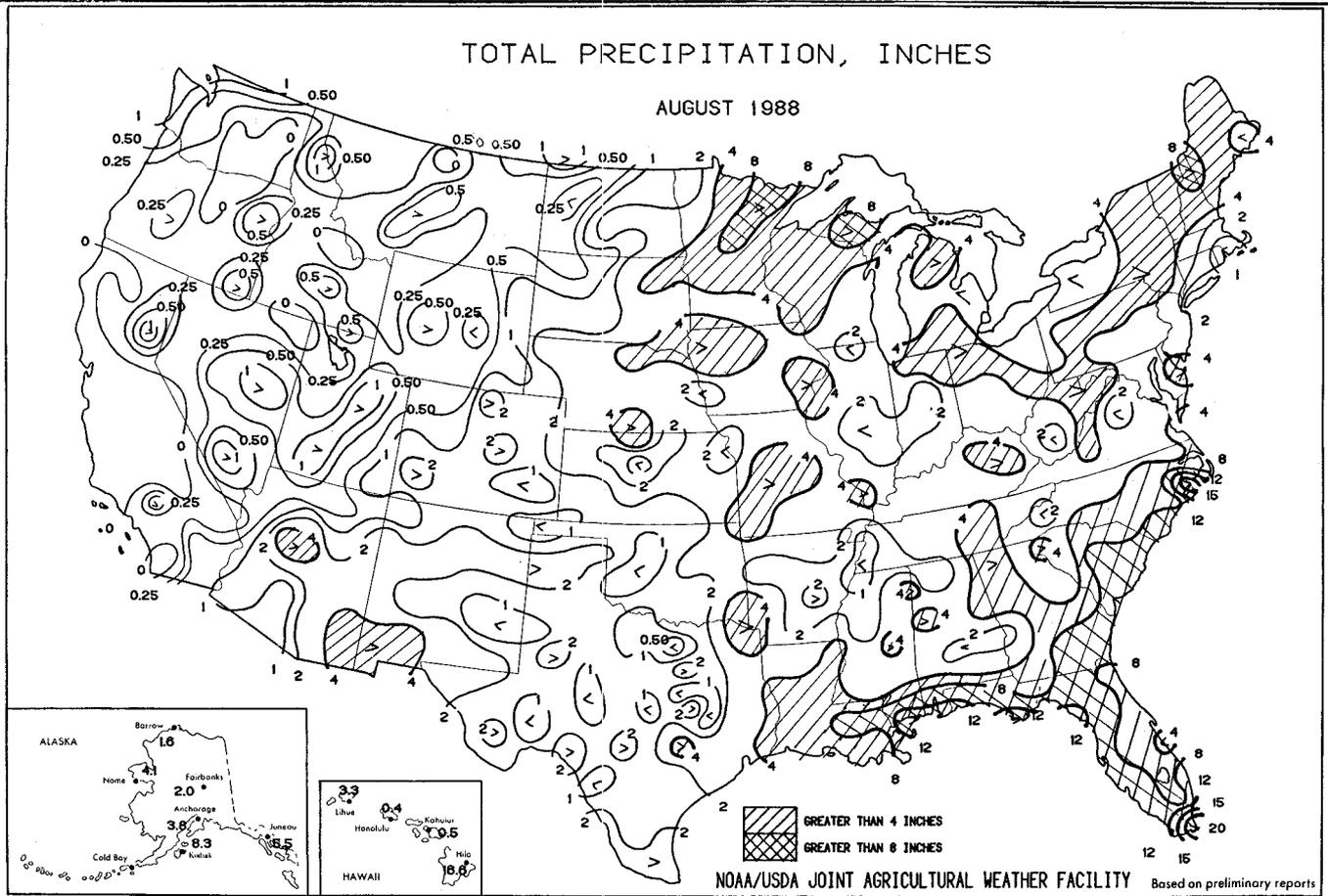
During August, corn was mostly poor to fair. On August 28, most of the acreage had reached the dough stage. Seventy percent of the acreage was in the dent stage, compared with 80 percent in 1987 and 53 percent normally. Corn mature was 7 points ahead of the average but trailed 8 point behind 1987. Corn harvest was underway as far North as Missouri as the month drew to a close. In Georgia, harvest reached 42 percent completion but lagged 12 point behind the 54 percent average. Harvest was underway in Alabama, Louisiana, Mississippi, South Carolina, and Texas.

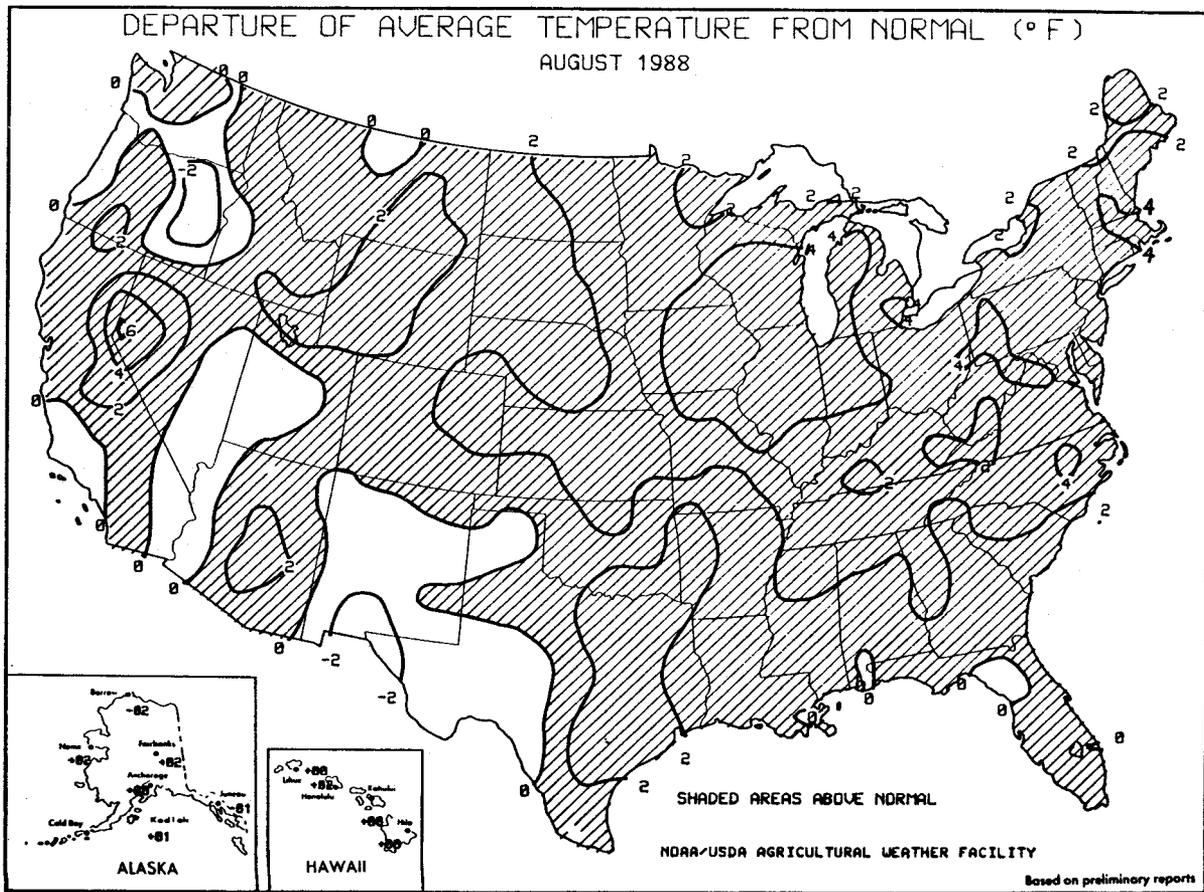
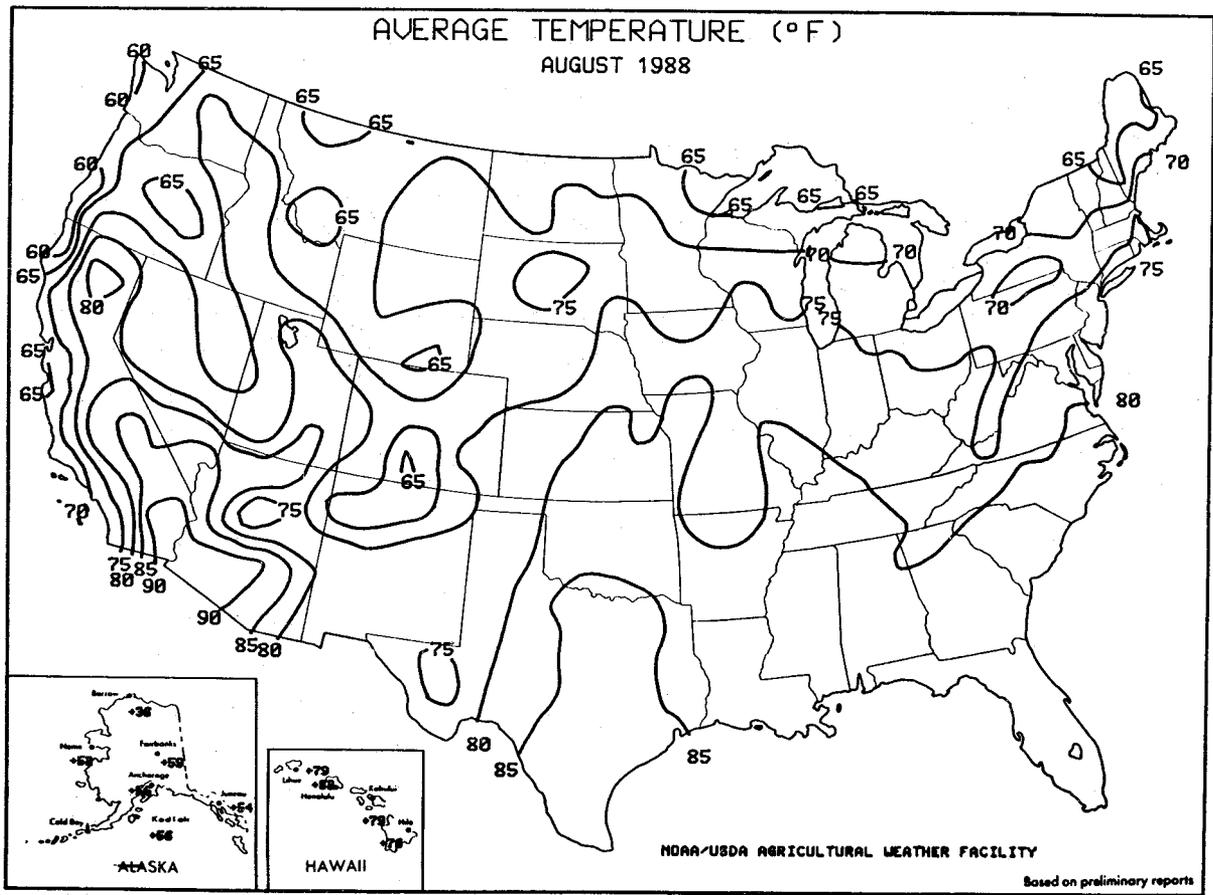
The precipitation and cooler temperatures provided relief from the heat but soybean condition remained mostly fair during the month. The heat hastened maturity with soybeans turning yellow much sooner than normal. By midmonth soybeans turned yellow in Minnesota, Illinois, Indiana, Iowa, and Alabama and dropped leaves in Minnesota. Before the month ended, soybeans were dropping leaves in all major producing States except Arkansas, Michigan, Nebraska, North Carolina, Ohio, and South Carolina. Seven percent of the acreage was dropping leaves more than doubling the average but trailed 3 points behind 1987. Soybeans setting pods equaled the average at 89 percent completion. Soybeans blooming were mostly finished except in the Southeast and Delta.

Cotton endured the hot, dry weather better than most crops and was good to fair the entire month. Crop condition declined slightly as the month progressed but was mostly insignificant. In California and Arizona, the hot weather caused plants to drop squares and bolls early in the month. Oklahoma's cotton experienced heat stress near midmonth with some stands wilting and plants dropping bolls. Prolonged dryness caused heavy boll shedding in scattered fields in the Texas Plains. Near the end of August, 23 percent of the cotton acreage reached the boll opening stage, compared with 33 percent in 1987 and 23 percent normally. In Texas, harvest was 12 percent finished, 3 points above 1987 and the average. Harvest was underway in Arkansas, Arizona, and Louisiana. Producers applied defoliants in California and Mississippi.

Grain sorghum was 93 percent headed, compared with 89 percent normally. Forty-seven percent of the acreage turned color, 2 points ahead of average but 9 points behind 1987. Harvest was underway in Texas, South Carolina, North Carolina, Arkansas, Alabama, and Louisiana.

Winter wheat harvest neared completion in the Pacific Northwest by the end of August. Seeding was underway in Utah, Colorado, Wyoming, Arkansas, Texas, and Washington. Seeding reached 20 percent completion in Minnesota. Spring wheat harvest was virtually finished by the third week of August. However a few fields remained to be harvested in Idaho, Montana, and North Dakota as the month drew to a close.





Temperature and Precipitation Data for August 1988

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
AL BIRMINGHAM	82	2	2.3	-1.6	BATON ROUGE	83	2	11.0	6.0	DAYTON	77	4	2.9	-0.2
MOBILE	81	-1	10.4	3.7	LAKE CHARLES	83	2	7.7	2.2	TOLEDO	74	4	5.1	2.0
MONTGOMERY	82	1	2.0	-1.2	NEW ORLEANS	81	0	7.5	1.5	YOUNGSTOWN	72	3	3.4	0.0
AK ANCHORAGE	56	0	3.7	1.6	SHREVEPORT	84	1	3.5	1.0	OK OKLAHOMA CITY	83	2	1.6	-0.9
BARROW	36	-2	1.7	0.7	ME CARIBOU	65	2	5.7	1.7	TULSA	83	1	2.4	-0.6
FAIRBANKS	59	2	2.0	0.1	PORTLAND	71	4	5.2	2.4	OR ASTORIA	60	-1	0.9	-0.7
JUNEAU	54	-1	5.5	0.5	MD BALTIMORE	79	3	2.6	-2.0	BURNS	65	-2	0.2	-0.6
KODIAK	55	1	8.3	3.5	MA SALISBURY	78	3	3.5	-2.3	MEDFORD	74	2	T	-0.4
NOME	52	2	4.1	1.0	MA BOSTON	75	3	1.1	-2.6	PENDLETON	70	-2	T	-0.5
AZ FLAGSTAFF	64	0	4.8	2.2	MI CHATHAM	71	3	1.0	-3.0	PORTLAND	68	1	0.1	-1.0
PHOENIX	94	4	0.6	-0.4	MI ALPENA	68	3	4.5	1.4	SALEM	66	0	0.0	-0.7
PRESCOTT	72	2	4.1	0.6	MI FLINT	75	4	3.1	-0.1	PA ALLENTOWN	75	3	2.7	-1.7
TUCSON	86	2	3.6	1.5	MI DETROIT	73	4	4.0	0.6	ERIE	73	4	3.8	-0.2
WINSLOW	75	-1	1.5	0.1	MI GRAND RAPIDS	73	3	3.0	-0.1	HARRISBURG	76	2	2.7	-0.6
YUMA	92	0	1.2	0.8	MI HOUGHTON LAKE	70	4	4.5	1.5	PHILADELPHIA	78	3	3.2	-0.9
AR FORT SMITH	84	3	1.1	-1.9	MI LANSING	73	4	5.1	2.0	PITTSBURGH	75	4	2.0	-1.3
LITTLE ROCK	82	1	1.6	-1.5	MI MARQUETTE	64	2	8.6	5.3	SCRANTON	73	3	5.0	2.5
CA BAKERSFIELD	82	0	0.0	0.0	MI MUSKEGON	73	4	3.1	0.0	RI PROVIDENCE	75	4	0.9	-3.1
EUREKA	58	1	0.0	-0.4	MI SAULT ST. MARIE	65	2	4.8	1.3	SC CHARLESTON	82	2	11.9	5.4
FRESNO	81	2	0.0	0.0	MN ALEXANDRIA	72	3	7.9	4.3	COLUMBIA	83	2	11.8	6.2
LOS ANGELES	68	-2	T	-0.1	MN DULUTH	65	1	6.8	2.7	FLORENCE	82	2	6.0	1.2
REDDING	82	1	0.0	-0.5	MN INT'L FALLS	65	2	6.7	3.7	GREENVILLE	80	3	3.9	-0.1
SACRAMENTO	76	1	0.0	-0.1	MN MINNEAPOLIS	74	3	4.3	0.7	SD ABERDEEN	73	2	2.8	0.8
SAN DIEGO	71	0	T	-0.1	MN ROCHESTER	73	5	2.9	-0.7	HURON	73	1	2.1	0.2
SAN FRANCISCO	65	2	T	0.0	MN ST. CLOUD	70	3	5.5	1.2	RAPID CITY	73	1	2.0	0.6
STOCKTON	76	-1	0.0	-0.1	MS GREENWOOD	83	2	1.5	-1.3	SIOUX FALLS	75	3	4.0	0.9
CO DENVER	74	2	1.8	0.3	MS JACKSON	83	1	3.0	-0.6	TN BRISTAL	77	3	2.8	-0.4
GRAND JUNCTION	76	1	1.4	0.5	MS MERIDIAN	82	1	3.5	0.1	CHATTANOOGA	80	2	4.1	0.7
PUEBLO	76	2	0.7	-1.1	MO COLUMBIA	79	2	4.1	0.9	KNOXVILLE	80	2	3.2	0.2
CT BRIDGEPORT	76	3	1.9	-1.8	MO KANSAS CITY	81	3	1.9	-1.9	MEMPHIS	84	3	0.9	-2.9
HARTFORD	74	3	2.1	-1.9	MO SAINT LOUIS	83	5	2.3	-0.2	NASHVILLE	82	3	2.4	-1.0
DC WASHINGTON	81	3	2.4	-2.0	MO SPRINGFIELD	79	2	5.1	2.3	TX ABILENE	84	1	1.2	-1.3
FL APALACHICOLA	82	0	13.3	5.8	MT BILLINGS	72	2	0.1	-0.9	AMARILLO	76	-1	3.6	0.7
DAYTONA BEACH	81	0	4.8	-1.6	MT GLASGOW	71	1	0.5	-0.9	AUSTIN	87	2	1.7	-0.6
FT. MYERS	84	1	9.4	0.8	MT GREAT FALLS	67	0	0.3	-1.0	BEAUMONT	84	1	5.5	-0.2
JACKSONVILLE	83	1	8.5	0.7	MT HAVRE	67	-1	T	-1.2	BROWNSVILLE	85	0	2.6	-0.3
KEY WEST	84	0	6.3	1.6	MT HELENA	69	3	T	-1.2	CORPUS CHRISTI	86	1	1.5	-2.2
MIAMI	84	1	7.9	0.9	MT KALISPELL	64	1	0.3	-1.1	DEL RIO	84	-1	2.2	0.6
ORLANDO	83	0	7.9	1.4	MT MILES CITY	74	2	0.3	-0.9	EL PASO	78	-3	3.5	2.3
TALLAHASSEE	81	0	5.7	-1.6	NE MISSOULA	67	1	0.3	-0.6	FORT WORTH	88	3	0.4	-1.6
TAMPA	83	1	11.1	3.5	NE GRAND ISLAND	76	1	2.8	0.2	GALVESTON	85	2	3.2	-1.1
WEST PALM BEACH	82	0	11.4	5.6	NE LINCOLN	78	3	2.3	-1.2	HOUSTON	85	2	3.5	-0.5
GA ATLANTA	81	3	4.9	1.5	NE NORFOLK	75	2	2.5	-0.2	LUBBOCK	80	2	0.9	-1.3
AUGUSTA	81	1	3.5	-0.5	NE NORTH PLATTE	73	1	3.9	2.0	MIDLAND	79	-2	1.7	0.1
MACON	82	1	6.8	3.1	NE OMAHA	78	3	1.5	-2.6	SAN ANGELO	82	-1	0.9	-0.9
SAVANNAH	83	2	10.7	4.0	NE SCOTTSBLUFF	73	1	0.8	-0.4	SAN ANTONIO	86	2	2.0	-0.7
HI HILO	76	0	16.6	6.6	NE VALENTINE	74	1	3.4	1.1	VICTORIA	87	3	1.1	-2.2
HONOLULU	82	1	0.4	-0.2	NV ELKO	68	0	0.3	-0.3	WACO	88	3	0.6	-1.4
KAHULUI	79	0	0.5	0.1	NV ELY	65	0	1.4	0.8	WICHITA FALLS	86	2	0.6	-1.5
LIHUE	79	0	3.3	1.4	NV LAS VEGAS	87	-1	0.5	-0.1	UT BLANDING	72	1	1.8	0.4
BOISE	72	0	0.1	-0.3	NV RENO	73	6	T	-0.3	CEDAR CITY	72	0	1.0	-0.2
LEWISTON	74	2	0.1	-0.7	NV WINNEMUCA	71	2	0.2	-0.2	MILFORD	72	0	0.8	0.1
POCATELLO	69	0	0.2	-0.4	NH CONCORD	70	3	5.4	2.2	SALT LAKE CITY	77	2	0.2	-0.7
IL CAIRO	-	-	6.0	1.9	NJ ATLANTIC CITY	76	2	2.8	-1.9	VT BURLINGTON	71	3	4.3	0.4
CHICAGO	77	5	3.3	-0.3	NM ALBUQUERQUE	75	-1	3.3	1.8	LYNCHBURG	78	3	3.7	0.0
MOLINE	78	5	4.9	1.2	NM CLOVIS	76	0	1.9	-0.6	VA NORFOLK	81	3	5.7	0.4
PEORIA	79	5	2.1	-1.3	NM ROSWELL	79	0	0.5	-1.6	RICHMOND	80	3	3.0	-2.0
QUINCY	79	5	2.9	-1.0	NY ALBANY	72	3	4.8	1.5	ROANOKE	77	2	4.3	0.4
ROCKFORD	76	5	2.0	-1.7	NY BINGHAMTON	70	3	5.2	1.8	WA COLEVILLE	67	0	0.0	-1.2
SPRINGFIELD	79	5	1.6	-1.9	NY BUFFALO	72	3	2.7	-1.5	QUILLAYUTE	60	1	1.3	-1.6
IN EVANSVILLE	79	3	2.7	-0.4	NY NEW YORK	79	3	1.8	-2.5	SEATTLE-TACOMA	65	1	0.3	-1.0
FORT WAYNE	75	3	4.3	1.0	NY ROCHESTER	71	1	3.8	0.6	SPOKANE	69	0	T	-0.7
INDIANAPOLIS	77	4	1.5	-2.0	NY SYRACUSE	72	2	3.8	0.0	YAKIMA	68	-1	T	-0.4
SOUTH BEND	76	5	5.6	1.7	NC ASHEVILLE	75	2	1.8	-2.6	WV BECKLEY	73	5	1.9	-1.8
IA DES MOINES	79	5	3.1	-1.0	NC CHARLOTTE	81	3	4.6	0.8	CHARLESTON	77	4	2.9	-1.3
DUBUQUE	75	5	3.7	-0.8	NC GREENSBORO	80	3	3.5	-0.7	ELKINS	72	4	4.1	-0.1
STOUC CITY	76	3	5.2	2.0	NC HATTERAS	81	2	7.4	1.3	HUNTINGTON	77	2	2.7	-1.2
WATERLOO	77	6	3.2	-0.5	NC NEW BERN	82	3	9.3	3.0	PARKERSBURG	76	3	4.0	0.4
KS CONCORDIA	81	3	1.7	-1.7	NC RALEIGH	80	3	3.4	-1.0	WI GREEN BAY	72	5	3.5	0.3
DODGE CITY	80	2	1.1	-1.4	NC WILMINGTON	81	1	9.6	3.0	LACROSSE	76	5	4.6	0.9
GOODLAND	76	2	3.5	1.6	ND BISMARCK	70	1	2.2	0.5	MADISON	75	5	3.0	-0.9
TOPEKA	79	2	1.4	-2.3	ND FARGO	72	3	2.1	-0.5	MILWAUKEE	76	6	3.3	0.2
WICHITA	83	3	1.1	-1.7	ND GRAND FORKS	69	2	1.2	-1.4	WAUSAU	71	4	3.7	-0.5
WY BOWLING GREEN	78	1	2.8	-0.6	ND WILLISTON	69	1	0.4	-1.0	WY CASPER	70	1	0.2	-0.5
JACKSON	78	6	4.2	0.6	OH AKRON-CANTON	73	3	3.9	0.6	CHEYENNE	69	2	1.8	0.4
LEXINGTON	78	3	4.2	0.2	OH CINCINNATI	77	3	2.4	-0.5	LANDER	71	2	0.7	0.2
LOUISVILLE	80	3	3.0	-0.3	OH CLEVELAND	74	3	3.4	0.0	SHERIDAN	70	2	0.3	-0.7
LA ALEXANDRIA	83	1	5.5	1.3	OH COLUMBUS	75	3	2.7	-1.0	PR SAN JUAN	83	1	11.3	5.5

National Agricultural Summary

August 29-September 4, 1988

HIGHLIGHTS: The lack of rain pushed crop development ahead of normal in the central and northern Great Plains. Soil moisture was mostly short to adequate except in the east where it was mostly adequate. The East had 4 to 5 suitable days for fieldwork and other parts 6 to 7.

Winter and spring wheat harvests neared completion. Winter wheat seeding continued but was delayed in much of the Plains States due to lack of moisture. Winter wheat seeding was 49 percent (%) finished in Minnesota, 17 percentage points ahead of the 5-year average. Corn was mostly poor to fair. Forty-two percent of the crop was mature, 18 points ahead of the average. In Kentucky and Ohio, corn maturity lagged behind normal. Harvest was 4% finished, equaling the average. Sixteen percent of the soybean acreage was dropping leaves, 7 points ahead of the average. Harvest was underway in Iowa, Louisiana, Mississippi, North Dakota, and Texas. Sorghum harvest continued in the South and began in Nebraska and Kansas. Cotton was mostly good to fair. In Texas, harvest was 14% finished, 3 points ahead of average. Harvest was just beginning in the Delta States. The Florida citrus crop remained in excellent condition.

SMALL GRAINS: Spring wheat harvest neared completion in Montana and Idaho. Oregon's harvest was finished except in a few counties. Durum wheat harvest was 97% finished in North Dakota, 20 points ahead of average. Minnesota winter wheat seeding was 49% finished, 17 points ahead of the average. Winter wheat seeding continued in Colorado, Arkansas, Utah, and Wyoming. Some winter wheat was seeded in west-central and southwest Kansas, but most areas were too dry. Seeding also began in Montana and Nebraska. In many areas of the Great Plains, seeding has been delayed due to lack of moisture.

CORN: Corn was mostly poor to fair. Eighty-six percent of the crop was dented, 6 points behind 1987 but 15 points ahead of the average. Forty-two percent was mature, 18 points ahead of the average. Corn harvest was 4% finished, 2 points behind 1987 but average. Georgia's harvest was 56% finished, 11 points behind the average. Texas corn harvest was 67% finished, 8 points ahead of the average. In Kentucky, only 25% of the crop was mature, 14 points behind the average, and Ohio had 4% and 14 points behind average. In Iowa, Kansas, Minnesota, Nebraska, and South Dakota, maturity was ahead of the average.

SOYBEANS: Soybeans were mostly fair. Pod setting was 94% finished, 2 points behind 1987 but average. Sixteen percent were dropping leaves, 6 points behind 1987 but 7 points ahead of the average. Thirty-five percent of the acreage in Iowa was dropping leaves, 27 points ahead of the average. Thirty-six percent of the acreage in Minnesota was dropping leaves, also 27 points ahead of average. Nebraska acreage, at 25%, was 22 points ahead of the average. South Dakota at 48% was 33 points ahead of the average. In Ohio,

rain decreased spider mite problems. Growers in Louisiana sprayed for insects. Harvest was underway in Iowa, Louisiana, Mississippi, North Dakota and Texas. In Texas, harvest was 18% finished, 13 points ahead of the average.

SORGHUM: Sorghum remained mostly fair to good. Sixty-six percent of the crop was turning color, 4 points behind 1987 but 10 points ahead of the average. Twenty-eight percent was mature, 2 points ahead of the average. Harvest continued in Texas, South Carolina, Arkansas, Alabama, Louisiana, and North Carolina. Harvest began in Kansas and Nebraska.

COTTON: Cotton remained mostly good to fair. Thirty-four percent of the acreage was opening bolls, 13 points behind 1987 but average. Harvest was progressing well in central and southern Texas, finishing in the Lower Valley, and just beginning in the east. Harvest was 14% finished, 3 points ahead of the average. Rain delayed defoliation and caused some early boll rot and lodging in California. In Arizona, defoliation and harvest were underway. Lodging was a problem in some areas. Insects continued to be a problem in Georgia and Oklahoma. Harvest continued in Arkansas and started in Louisiana and Mississippi.

OTHER FIELD CROPS: Rice harvest was 23% finished, 10 points behind 1987 and 6 points behind the average. Harvest was 89% finished in Texas and just beginning in California.

Peanut harvest continued in the Southeast and began in Texas. The crop was mostly good. Dryland fields in Texas continued under stress from the lack of rain.

Flue-cured and burley tobacco harvests remained slightly behind normal. Rain benefited late planted tobacco in Kentucky.

FRUITS AND NUTS: In Florida, all citrus areas received rain and trees remained in excellent condition with abundant new foliage. Fruit continued to sized well, but excessive water caused splitting in some areas. In California, harvest activity included grapes, nectarines, plums, and peaches. Cling peach and pear harvests neared completion in the Central Valley. Walnuts were sprayed for insects. Valencia orange harvest was 80% finished. New crops of naval oranges sized well. Lemon harvest slowed. In Arizona, lemon harvest began. In Texas, pecan trees continued to drop nuts due to lack of rain.

VEGETABLES: Frequent rains in Florida slowed planting progress. Celery, cucumbers, eggplant, peppers, squash, and tomatoes were planted. In California, vegetable harvest continued active. Broccoli, cauliflower, carrots, and celery were harvested. In the Texas High Plains, rain slowed harvest of most vegetables.

PASTURES AND LIVESTOCK: Pasture condition was mostly poor to fair. Livestock was mostly fair to good condition.

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 2.00 to 4.00 in. Temperatures 2 to 5° below normal.

Days suitable for fieldwork 6.2. Soil moisture 31% very short, 49% short, 17% adequate, 3% surplus. Weekend rains should improve soil moisture conditions. Soybeans 91% blooming, 91% 1987, 96% avg.; 70% setting pods, 78% 1987, 84% avg.; 15% turning yellow, 21% 1987, 14% avg.; 7% dropping leaves, 7% 1987, 2% avg.; 1% very poor, 4% poor, 51% fair, 45% good, 2% excellent. Corn 92% mature, 98% 1987, 95% avg.; 57% harvested, 58% 1987, 50% avg.; 12% very poor, 44% poor, 40% fair, 4% good. Cotton 43% bolls opened, 46% 1987, 33% avg.; 31% poor, 53% fair, 16% good. Sorghum 32% harvested, 24% 1987, 25% avg.; 4% poor, 51% fair, 45% good. Peanuts 3% dug, 8% 1987, 7% avg.; 1% combined, 4% 1987, 2% avg.; 1% poor, 10% fair, 62% good, 27% excellent. Livestock, pastures mostly fair to good. Feed supplies from pastures 4% very short, 51% short, 39% adequate, 6% surplus. Hay, roughage supplies 9% very short, 61% short, 30% adequate. Primary activities: Harvesting corn, sorghum, hay, summer vegetables; digging, combining peanuts; preparing land for winter grazing, small grains; repairing, maintaining harvest equipment; routine care of livestock, poultry.

ALASKA: Rain most prevalent Matanuska Valley, Kenai Peninsula while Tanana Valley growers making use of 4 good days to boost barley harvest. Hard frost 2nd hit Clearwater areas of Tanana Valley, ending growing season. Temperature lows 3° cooler than normal to 6° warmer than normal. Highs 3° below normal to 2° warmer than normal. Seasonal precipitation totals 1.48 in. drier than normal to 3.89 in. wetter than normal.

Days suitable for haying, harvest of small grains 3.0. Topsoil moisture 1% short, 95% adequate, 4% surplus. Subsoil moisture 98% adequate, 2% surplus. Second crop hay harvest nearly 60% compared to 1987. Barley for grain 80% harvested, 55% 1987. Commercial potato harvest for early market, seed continued. Potatoes 30% harvested. Commercial vegetable harvest continued but beginning to wind down.

ARIZONA: Minimal monsoon activity 28th; severe afternoon thunderstorm west, winds to 70 mph, almost 2.00 in. rain. Strong nighttime thunderstorms south, monsoon active 29th. Showers, thunderstorms 31st, except southwest. Heaviest rainfall north, north central, local amounts to 2.00 in. As September began, monsoon still active southeast, sunny skies prevailed north, west. Activity concentrated over northwest, southeast 2nd; rainfall over 1.00 in. Drier air northern area morning, 3rd; moved southwest. Rainfall amounts 0.25 to 2.00 in. Temperatures varied 3° below to 5° above normal.

Cotton crop progress 80% opening bolls. Defoliation, harvest underway west, central. Lodging some areas. Spider mites central. Weed, insect infestations light to moderate. Crop 11% fair, 78% good, 11% excellent. Rains, high humidity slowed curing conditions alfalfa west. Weed, insect levels increased. Hay, roughage supplies 11% short, 67% adequate, 22% surplus. Lemon harvest begun west. Fall vegetable planting, irrigation begun for cauliflower, lettuce, broccoli. Honeydews, cantaloup, specialty melons harvested central. Seedless melons harvested central. Apple harvest, packing east. Green chili, squash, white corn, watermelons harvested

east. Lettuce planting east. Ranges providing average to above average feed. No supplemental feeding. Stockwater adequate. Feed supplies average to above average. Cattle, calves good to excellent.

ARKANSAS: Cooler air kept temperatures below normal. Frontal system later week brought scattered showers. Temperature extremes 46°; 94°. Rainfall totals none to 2.67 in.

Days suitable for fieldwork 7.0. Soil moisture supplies 78% short, 22% adequate. Cooler weather slowed crop growth. Harvest started for corn, cotton, rice, sorghum. Other activities: Fertilizer, insecticide, pesticide applications; draining rice fields; harvesting fruits; cutting hay; preparing wheat ground; working on combines. Soybean 91% blooming, 99% 1987, 94% avg.; 6% yellowing, 13% 1987, 9% avg. Cotton 1% harvested, 3% 1987, 1% avg. Rice 34% ripe, 58% 1987, 37% avg. Sorghum 10% harvested, 62% 1987, 39% avg. Corn 44% harvested, 72% 1987, 64% avg. Table grapes, peach harvest virtually complete. Pasture, range 29% poor, 55% fair, 16% good. Hay, roughage supplies 3% very short, 82% short, 15% adequate. Livestock good. Stockwater supplies 51% short, 49% adequate.

CALIFORNIA: High pressure continued bringing normal, above normal temperatures. Thundershowers local amounts rain interior mountains, Huntington Lake 0.40 in. elsewhere dry. Blue Canyon 13° above normal.

Extremely warm weather, good progress harvest activities. Cotton some set-back high temperatures valleys. Rain desert delayed defoliation, caused some early boll rot, lodging. Rice harvest earliest fields. Blackbird damage wooded areas. Dry bean harvest increased. Safflower, silage, sugarbeet harvests continued. Disease, insect controls usual. Alfalfa harvest normal. Some storm damage alfalfa, sudan far south. Apples harvested, apple maggots northern areas. Very few avocados packed. Riverside County dates harvested. Table, wine grapes harvested; raisins placed on trays San Joaquin Valley. Nectarines, plums, peaches harvested. Cling peach, pear harvests nearly complete Central Valley. Prune harvest winding down. Figs, asian pears, pomegranates, quince harvested San Joaquin Valley. Almond harvest active. Walnut, pistachio growers getting ready for upcoming harvest. Walnuts sprayed for husk fly, codling moth, navel orange worm. Valencia orange 80% harvested. New navel orange crop sizing well. Lemon harvest slow, desert harvest begin 2 weeks. Grapefruit harvest neared completion. Vegetable harvest continued active. Moderate to heavy supplies broccoli, cauliflower, carrots, celery, lettuce, good quality. Lettuce planting began desert. Onion, potato, sweetpotato, market, processing tomato harvests continued. Livestock continued good. Pastures, rangeland northern counties, valley, mountain areas declined. Water supplies low, supplemental feeding continued. Hay, roughage 15% short, 85% adequate.

COLORADO: Low pressure system moved over most of area bringing some moisture over portions of State. Precipitation 0.90 to 1.43 in. Temperature mostly normal.

Days suitable for fieldwork 5.9. Soil moisture 16% very short, 55% short, 29% adequate. Hay, roughage supplies 9% short, 85% adequate, 6% surplus. Corn 89% dough, 67% dented. Dry beans cut 20%. Barley 77% harvested. Oats 70% harvested.

Dry onion 17% harvested. Fall potatoes 6% harvested. Summer potatoes 45% harvested. Winter wheat 13% planted. Livestock mostly fair to good. Ranges, pastures fair to good.

FLORIDA: Showers, thunderstorms 2.00 to 6.00 in. of rain with moderate amounts statewide nearly everyday. Heavy rain northwest, weekend, as result of approaching cold front inactive with remnants of tropical depression. As much as 9.00 in. 48 hours. Despite rain, cloudiness, temperatures averaged near normal, except northwest fell slightly below normal.

Soil moisture generally adequate; scattered areas surplus. Peanut harvest becoming active; haymaking, corn harvest active. Soybeans, sugarcane, cotton good progress. Sugarcane planting increased. Pastures good to excellent except few dry pockets mostly upper central Panhandle, where weekend rains very beneficial. More ponds, streams in previously dry areas began reaching near normal levels. Hay, roughage supplies 31% short, 69% adequate. Some hay damage, loss because of frequent rains. Cattle, calves generally good to excellent with good weight gains many areas. Rain all citrus areas. Trees excellent, abundant new foliage. New fruit good, sizes varied, splitting few isolated areas with excessive water. Caretakers active, normal late summer work. Summer-like weather, vegetable producing areas. Frequent rains slowed planting many fields. Crops planted celery, cucumbers, eggplant, peppers, squash, tomatoes. Zellwood sweet corn harvested local markets.

GEORGIA: Most areas some rain. Local totals 1.00 to 2.00 in., 3.00 to 4.00 in. extreme southeast. Parts of State less than 0.25 in., mainly mountains. Temperatures 1° below normal extreme north, 1° above normal south. Extremes 50° Blairsville, 97° Valdosta and Albany.

Days suitable for fieldwork 5.3. Soil moisture 7% very short, 52% short, 41% adequate. Corn 42% harvested, 48% 1987, 54% avg., very active. Insects continued main problem in cotton. Peanut digging just started 1%, 3% 1987, 4% avg., none threshed. Tobacco 83% harvested, 90% avg. Apple 44% harvested, 30% 1987, 47% avg. Pasture, hay significantly improved, mostly fair to good. Livestock mostly good.

HAWAII: Weather favorable. Mostly sunny with few evening, early morning showers. Winds gusty to 30 mph some areas. Hurricane passed south of islands, little affect on agriculture. Rainfall none to 0.50 in. Winds 10 to 20 mph. Temperatures low 70s to low 90s.

Days suitable for fieldwork 7.0. Chinese cabbage production moderate. Head cabbage output heavy. Tomato, watermelon harvesting steady.

IDAHO: Temperatures up to 10° above normal north, 1° to 5° above normal elsewhere. Below normal precipitation entire State.

Days suitable for fieldwork 7.0. Irrigation water supply poor to fair. Soil moisture 30% very short, 58% short, 12% adequate. Potatoes 2% harvested, 6% 1987, 5% avg.; fair to good. Winter wheat 100% harvested. Spring wheat 94% harvested, 80% 1987. Spring barley 90%. Oats for grain 85% harvested. Processing sweet corn 80% harvested. Dry peas, lentils nearly 100% harvested. Onions 25% harvested. Dry beans nearly 30% harvested. Plums 52% harvested. Peaches 85% harvested. Mint nearly 100% harvested. Hops 35% harvested. Third cutting alfalfa hay 25% harvested, 16% 1987. Ranges poor to fair. Hay, roughage supplies 33% short, 60% adequate, 7% surplus. Livestock good.

ILLINOIS: Temperatures 1 to 2° below normal north, 3° to 5° below normal south. Precipitation variable, 0.80 in. north, east central, 0.10 in. central, greater than 2.00 in. extreme south.

Days suitable for fieldwork 6.5. Soil moisture 95% short, 5% adequate. Soybeans 43% turning yellow, 63% 1987, 40% avg.; harvested none 3% 1987, 1% avg. Alfalfa 3rd crop cut 81%, 84% 1987, 81% avg.; 2% very poor, 14% poor, 71% fair, 13% good. Hay, roughage supplies 9% very short, 61% short, 28% adequate, 2% surplus. Pasture 22% very poor, 43% poor, 31% fair, 4% good.

INDIANA: Temperatures 1 to 3° below normal north, 3° to 5° below normal southern areas. Lows 40s north and central 60s elsewhere, highs mid 80s. Precipitation varied, less than 0.07 to 2.00 in.

Days suitable for fieldwork 6.2. Topsoil moisture 66% short, 34% adequate. Subsoil moisture 92% short, 8% adequate. Corn, soybean, pasture condition improved. Pastures 15% very poor, 42% poor, 37% fair, 6% good. Soybeans 40% turning yellow, 75% 1987, 40% avg. Wheatland 25% plowed, 23% 1987, 24% avg. Tobacco 25% harvested, 70% 1987, 35% avg. Hay, roughage for feeding season 5% very short, 56% short, 39% adequate. Livestock water supplies 3% very short, 31% short, 65% adequate, 1% surplus. Rain helped soil moisture, crops. Scattered showers brought relief to stressed crops.

IOWA: Near normal temperatures; extremes 39°; 91°. Below normal rainfall; extremes trace to 1.14 in.; average 0.25 in.

Days suitable for fieldwork 6.5. Topsoil moisture 80% short, 20% adequate; subsoil moisture 98% short, 2% adequate. Third crop alfalfa 98% harvested, 76% 1987, 70% avg. Pastures 40% very poor, 37% poor, 18% fair, 5% good. Soybeans 70% turning, 50% 1987, 31% avg.; 20% mature, 7% 1987, 2% avg.; 3% harvested, none 1987, none avg. Livestock mostly good. Some pink eye in cattle. Replacements slow. Pig litter sizes small.

KANSAS: Temperatures low 70s except 69° southwest; 5° below normal south, 3° below normal north. Precipitation 0.50 to 1.50 in. south central, southwest; 0.10 to 0.25 in. northwest, northeast, little or no rain elsewhere.

Days suitable for fieldwork 6.5. Topsoil moisture 96% short, 4% adequate. Subsoil moisture 81% short, 19% adequate. Row crops develop ahead of normal, accelerated by lack of rain. Third generation corn borers remained south central areas, pose possible problem for late planted corn, milo. Sorghum harvest began east. Hay, roughage supplies 10% very short, 44% short, 43% adequate, 3% surplus. Pasture poor. Third cutting alfalfa complete, 4th cutting 35% finished. Some wheat seeding west central, southwest; most areas too dry for planting.

KENTUCKY: Southeast start of week highs lower 90s. Cool, rainy central, western. Midweek highs upper 70s. Temperatures moderated end of week afternoon highs mid to upper 80s. Series of weekend cold fronts brought cooler temperatures, rains. Portions of central received over 3.00 in. of rain.

Days suitable for fieldwork 5.3. Soil moisture 6% very short, 69% short, 25% adequate. Corn harvest began. Rain benefited late soybeans, tobacco. Burley, dark tobacco 40% cut. Housed tobacco curing well. Tobacco in fields mostly good to fair. Pastures improved 5% very poor, 16% poor, 60% fair, 18% good, 1% excellent. Baling hay active. Hay, roughage 5% very short, 76% short, 19% adequate.

LOUISIANA: Temperatures 2° below to 1° above normal. Temperature extremes 54°; 98°. Rainfall 0.63 to 4.65 in.

Days suitable for fieldwork 4.8. Soil moisture 2% very short, 12% short, 53% adequate, 33% surplus. Corn 100% mature; 61% harvested. Cotton 2% harvested. Rice 69% ripe. Sorghum 100% headed; 22% harvested. Soybeans 95% blooming; 6% turning color. Farmers spraying for stinkbugs, loopers. Few early beans harvested northeast. Sweetpotatoes good; 27% harvested. Sugarcane good; 15% planted. Final cutting of hay 27%. Livestock feed from pastures 91%. Hay, roughage supplies 1% very short, 50% short, 47% adequate, 2% surplus. Livestock good. Pastures, pecans fair to good. Vegetables fair. Main activities: Fertilizing pastures, hay; harvesting hay, sorghum, cotton, corn, sweetpotatoes, rice; preparing winter pastures, fall vegetables for planting; planting sugarcane.

MARYLAND & DELAWARE: Maryland: Precipitation 1.00 in. Temperature 72°, normal 72°. Temperature extremes 41°; 95°.

Days suitable for fieldwork 5.2. Topsoil moisture 10% short, 80% adequate, 10% surplus. Subsoil moisture 20% short, 80% adequate. Hay supplies 20% short, 70% adequate, 10% surplus. Corn 15% poor, 65% fair, 20% good; 91% dough, 93% avg.; 75% dent, 75% avg.; 30% mature, 25% avg.; 30% silage harvested, 40% avg. Soybeans 30% fair, 70% good; 95% bloomed, 99% avg.; 75% podded, 85% avg. Tobacco 100% good; 83% topped, 100% avg.; 45% harvested, 55% avg. Alfalfa 3rd cutting 85%, 90% avg. Apples, peaches 10% poor, 40% fair, 50% good. Peaches 80% harvested, 90% avg. Apples 30% harvested, 25% avg.

Delaware: Precipitation 0.95 in. Temperature 72°, normal 73°. Temperature extremes 50°; 90°.

Days suitable for fieldwork 5.3. Topsoil moisture 100% adequate. Subsoil moisture 30% short, 70% adequate. Hay supplies 100% adequate. Corn 100% fair; 95% dough, 95% avg.; 80% dent, 80% avg.; 15% mature, 30% avg.; 3% grain harvested, 5% avg.; 45% silage harvested, 40% avg. Soybeans 100% good; 99% bloomed, 97% avg.; 80% podded, 90% avg. Alfalfa 4th cutting 40%, 40% avg. Apples, peaches 100% good. Peaches 90% harvested, 95% avg. Apples 25% harvested, 25% avg.

MICHIGAN: Temperatures 2° below to 4° above normal. Temperature extremes 39°; 86°. Precipitation none to 2.63 in. across State.

Days suitable for fieldwork 6.0. Soil moisture 50% short, 50% adequate. Corn 80% dough, 99% 1987, 90% avg.; 45% dent, 90% 1987, 45% avg.; 3% mature, 20% 1987, 5% avg.; 10% very poor, 25% poor, 40% fair, 23% good, 2% excellent. Soybeans 95% setting pods, 100% 1987, 99% avg.; 20% turning, 50% 1987, 30% avg.; 5% very poor, 15% poor, 30% fair, 40% good, 10% excellent. Dry beans 45% turning, 85% 1987, 75% avg.; 5% very poor, 20% poor, 45% fair, 25% good, 5% excellent. Pastures supplying 30% livestock feed. Hay, roughage supplies 20% very short, 60% short, 20% adequate. Major activities: Corn silage harvesting, hay harvesting, fruit, vegetable harvesting; alfalfa hay seeding, fall tillage.

MINNESOTA: Temperatures none to 3° above normal. Temperature extremes 38°; 90°. Precipitation 0.02 to 0.76 in. Greatest weekly total 1.80 in.

Days suitable for fieldwork 5.9. Topsoil moisture 27% very short, 54% short, 19% adequate. Corn 97% denting, 97% 1987, 66% avg.; 40% mature, 33% 1987, 10% avg.; 32% cut for silage, 18% 1987, 6% avg. Soybeans 92% turning yellow, 82% 1987, 44% avg.; 36% dropping leaves, 27% 1987, 9% avg.

Sweet corn 91% harvested for processing, 90% 1987, 73% avg. Dry edible beans 23% harvested, 31% 1987, 17% avg. Winter wheat 49% seeded, 52% 1987, 32% avg. Rye 51% seeded, 56% 1987, 30% avg. Hay, grain 63% stubble plowed, 62% 1987, 45% avg. Soybeans 10% very poor, 34% poor, 48% fair, 8% good. Field corn 18% very poor, 42% poor, 36% fair, 4% good. Hay supplies 14% very short, 61% short, 25% adequate. Livestock feed now coming from pastures 28%.

MISSISSIPPI: Rainfall above normal over entire State except northeast. Temperatures mostly below normal. Extremes 50°; 96°.

Days suitable for fieldwork 5.0, 6.4 1987, 5.2 avg. Soil moisture 10% very short, 40% short, 40% adequate, 5% surplus, 5% excessive. Corn fair; 19% harvested, 41% 1987, 35% avg. Sorghum fair; 21% harvested, 49% 1987, 33% avg. Cotton good; 56% open bolls, 79% 1987, 56% avg.; 2% harvested, 4% 1987, 3% avg. Rice good; 6% harvested, 10% 1987, 19% avg. Soybeans fair; 7% shedding leaves, 6% 1987, 7% avg.; harvest of early varieties just began. Hay 75% harvested, 84% 1987, 81% avg. Corn silage 77% harvested, 89% 1987, 82% avg. Sorghum silage 60% harvested, 79% 1987, 71% avg. Peanuts 49% harvested, 37% avg. Sweetpotatoes 25% harvested, 23% avg. Watermelons 91% harvested, 96% 1987. Wheat planting just began. Pasture good to fair. Livestock good. Hay, roughage supplies 5% very short, 45% short, 50% adequate. Activities: Cotton defoliation, grain, hay and silage harvest.

MISSOURI: Temperatures 2 to 8° below normal. Rain 2.00 to 4.00 in. extreme south, less than 0.10 in. elsewhere.

Days suitable for fieldwork 6.3. Topsoil moisture 72% short, 28% adequate. Late crops, pastures showing minor improvement since August rain. Silage cutting well along. Alfalfa hay 3rd cutting 86%, 100% 1987, 85% avg. Supply of hay, roughage 19% very short, 65% short, 16% adequate. Livestock water supplies 19% critically short, 43% short, 38% adequate. Pastures 17% very poor, 31% poor, 37% fair, 15% good; poorest northwest.

MONTANA: Dry week with no precipitation. Temperatures near normal east to 8° above normal west, southwest.

Days suitable for fieldwork 6.8. Topsoil moisture 97% short, 3% adequate. Subsoil moisture 95% short, 5% adequate. Spring grain 90% harvested. Corn silage 15% harvested, none 1987, 1% avg. Dry beans 10% harvested, none 1987, 4% avg. Winter wheat 1% seeded, 5% 1987, 2% avg. Range, pasture feed 57% very poor, 29% poor, 11% fair, 3% good. Cattle, calves moved from summer range 47%, none 1987, 16% avg. Sheep, lambs moved from summer range 54%, none 1987, 16% avg. Hay, roughage supplies 37% very short, 33% short, 27% adequate, 3% surplus. Second cutting alfalfa 90% harvested, 79% 1987, 78% avg.

NEBRASKA: Dry week with mild temperatures, precipitation amounts trace to over 0.50 in. Temperatures near normal. Extremes 34°; 99°.

Days suitable for fieldwork 6.9. Topsoil moisture 94% short, 6% adequate. Subsoil moisture 86% short, 14% adequate. Winter wheat 10% sown, 15% 1987, 9% avg.; needs rain to emerge. Corn borer northeast, east. Soybeans 60% leaves turning, 34% 1987, 22% avg.; 1% harvested. Bean leaf beetles northeast, east. Sorghum 1% harvested. Alfalfa 7% very poor, 21% poor, 44% fair, 25% good, 3% excellent; 3rd cut 90%, 86% 1987, 75% avg. Pasture, range feed supplies 14% very short, 49% short, 37% adequate. Hay, roughage supplies 2% very short, 16% short, 82% adequate.

NEVADA: Temperatures remained well above normal, some record highs. Scattered afternoon, evening thunderstorms first part week southern areas. Total precipitation generally light. Temperature extremes 21°; 113°.

Russet potato digging operations gained momentum main production areas. Alfalfa seed harvest full swing most areas. High elevation ranges furnishing inadequate grazing. Stockwater supplies drying. Hay, roughage supplies 33% short, 60% adequate, 7% surplus.

NEW ENGLAND: Precipitation 2.00 to 2.50 in. over southern Maine, New Hampshire, Vermont, coastal, central Massachusetts. Elsewhere 0.50 to 1.50 in. Temperatures 60° north to 70° south slightly above normal.

Days suitable for fieldwork 4.8. Fieldwork 2 days behind schedule. Soil moisture 84% adequate, 16% surplus. Grazing availability 6% short, 89% adequate, 6% surplus. Hay, roughage 17% short, 83% adequate. Feed now being obtained from pastures 59%. Maine potatoes 5% harvested, 15% 1987, 4% avg. Connecticut River Valley potatoes 20% harvested, 15% 1987, 25% avg.; fair to good. Maine oats 80% harvested; good. Field corn 8% harvested, 11% 1987, 3% avg.; good to excellent. Sweet corn 90% picked; good. Outdoor tobacco 95% cut, fair to good. Shade tobacco 95% cut, good to excellent. Second crop hay 85% cut, 85% 1987, 86% avg.; good. Third crop hay 45% cut, 39% 1987, 46% avg.; good to excellent. Apples good; 8% harvested, 11% 1987, 6% avg.; size medium. Major activities: Harvesting hay, corn silage, potatoes, apples, vegetables.

NEW JERSEY: Temperatures slightly below normal. Extremes 44°; 85°. Rainfall 2.48 in. north, 1.58 in. central, 2.21 in. south. Heaviest 24-hour total 2.11 in. on 4th, 5th. Estimated soil moisture percent field capacity averaged 85% north, 65% central, 84% south. Four inch soil temperatures 68° north, 69° central, 70° south.

Soil moisture adequate. Cooler temperatures aided late season crop quality. Light harvest of summer vegetables continued. Irish potato digging continued. Late variety peach harvest active. Fall apples continued sizing, coloring. Grape harvest increased. Cranberry coloring advanced. Poor grain corn cutting for silage continued. Some 4th cutting hay continued as conditions permitted. Soybeans set pods. Pasture growth continued to improve. Hay, roughage supplies mostly short.

NEW MEXICO: Temperatures low 90s southeastern plains to high 70s northwest; 1.00 in. eastern, southwestern areas of State.

Days suitable for fieldwork 4.6. Soil moisture 7% short, 79% adequate, 14% surplus. Cotton 23% bolls open; 50% fair, 50% good. Cattle 13% fair, 74% good, 13% excellent. Sheep 10% fair, 90% good. Ranges 27% fair, 46% good, 27% excellent. Hay, roughage supplies 27% short, 64% adequate, 9% surplus.

NEW YORK: Temperatures few degrees cooler than normal western, eastern plateaus while coastal division 5° warmer than usual. Rainfall heaviest over Hudson Valley, eastern plateau exceeded 2.50 in. Driest area coastal division where rainfall 0.31 in.

Days suitable for fieldwork 4.7. Soil moisture adequate. Pastures fair to good. Hay, corn good. Drier weather needed for field crop harvesting. Second cutting alfalfa 93%, 93% 1987, 89% avg. Third cutting, 24%, 44% 1987, 31% avg. Oat 86% harvested, 92% 1987, 85% avg. Hay, roughage supplies 41% short, 53% adequate, 6% surplus. Lake Ontario fruits remained good. Jersey mac apple harvest completed. Bartlett pears 60% harvested.

Severe thunderstorms ripped through Finger Lakes 28th, caused extensive damage to grape crop. Vegetable harvest neared peak. Upstate potato harvest delayed because of wet soil. Orange County onion harvest remained active.

NORTH CAROLINA: Temperatures about normal. Temperature extremes 43°; 92°. Precipitation 0.12 to 4.54 in. across State.

Days suitable for fieldwork 4.7. Soil moisture 1% very short, 24% short, 64% adequate, 11% surplus. Pasture 1% very poor, 15% poor, 39% fair, 40% good, 5% excellent. Flue-cured tobacco 63% harvested, 61% 1987, 65% avg. Tobacco 32% fair, 66% good, 2% excellent. Peanuts 20% fair, 77% good, 3% excellent. Sweetpotatoes 20% fair, 71% good, 9% excellent; 11% harvested, 8% 1987, 6% avg. Hay, roughage supplies 15% short, 80% adequate, 5% surplus; 15% poor, 42% fair, 39% good, 4% excellent. Livestock feed obtained from pasture 70%. Apple 18% harvested, 24% 1987, 18% avg. Apples 3% poor, 52% fair, 45% good. Corn silage 51% harvested, 64% 1987, 58% avg. Sorghum for grain 9% harvested, 15% 1987, 12% avg.; 6% poor, 54% fair, 39% good, 1% excellent. Burley tobacco 20% harvested, 42% 1987, 26% avg. Major activities: Tobacco harvesting, marketing; baling hay; scouting for insects; harvesting corn silage, peaches, sorghum, apples; spraying soybeans, cotton, peanuts; shearing Christmas trees; land preparation for fall planting; tending livestock; general farm maintenance.

NORTH DAKOTA: Temperatures normal to 3° below normal. Extremes 26°; 97°. Little or no precipitation across most of State; none to 0.19 in. Heaviest 1.07 in. southeast.

Days suitable for fieldwork 7.0. Topsoil moisture supplies 74% very short, 26% short. Subsoil moisture 83% very short, 15% short, 2% adequate. Durum wheat harvest nearly complete; 97% combined, 85% 1987, 77% avg. Cool weather kept row crop conditions generally same. Corn for grain 11% very poor, 71% poor, 12% fair, 6% good; corn for silage 9%, 74%, 14%, 3%; dry edible beans 1%, 43%, 49%, 7%; sunflower 17%, 33%, 39%, 11%; soybeans none, 45%, 34%, 21%; potatoes none, 72%, 24%, 4%; flax 24%, 41%, 34%, 1%. Corn for silage, soybean, dry edible bean, flax harvest progressed ahead of normal. Corn for silage 60% cut, 10% 1987, 9% avg.; potatoes 14% dug, 23% 1987, 9% avg.; dry edible beans 29% combined, 8% 1987, 10% avg.; sunflower 36% bracts brown and beyond, 17% 1987, 10% avg.; corn for grain 87% dented and beyond, 80% 1987, 70% avg.; soybeans 7% combined, none 1987, 1% avg.; flax 55% combined, 23% 1987, 28% avg. Winter wheat, rye fall planting delayed by dry soil conditions. Winter wheat 12% planted; rye 9%. Stockwater 12% adequate. Hay, roughage supplies 29% very short, 63% short, 7% adequate, 1% surplus. Pastures deteriorated 97% very poor to poor; furnished 65% roughage requirements. Blackbirds in sunflowers continued problem.

OHIO: Low temperatures low to mid 50s north, mid to upper 50s central, south near normal. High temperatures mid to upper 70s, 1 to 4° below normal north, 2 to 6° below normal central, south. Moderate to heavy rainfall 1.00 to 3.00 in.

Days suitable for fieldwork 5.4. Soil moisture 35% short, 64% adequate, 1% surplus. Continued cooler temperatures, rain helped crop conditions. Corn began maturing, poor to fair. Soybeans experiencing some problems with beans out growing pods, pods splitting. Beans poor to fair. Rain decreased spider mite activity. Hay, pasture continued improved, poor to fair. Hay, roughage supplies 16% very short, 40% short, 41% adequate,

3% surplus. Vegetable harvest continued. Grape, fall apple, tobacco harvest began.

OKLAHOMA: Temperatures 8° below normal Panhandle to 5° below normal northeast. Precipitation 0.01 in. north central to 2.29 in. Panhandle.

Days suitable for fieldwork 6.5. Topsoil moisture 93% short, 7% adequate. Subsoil moisture 80% short, 20% adequate. Cotton 10% poor, 55% fair, 35% good; 10% open bolls, 2% 1987, 5% avg. Weevil infestation increased southwest. Sorghum 5% poor, 35% fair, 60% good; 65% coloring, 65% 1987, 65% avg.; 5% mature, 5% 1987, 10% avg. Peanuts 15% mature, 5% 1987, 5% avg. Soybeans 55% setting pods, 90% 1987, 75% avg.; 1% mature, 15% 1987, 5% avg. Corn 25% harvested, 40% 1987, 25% avg. Pastures fair. Livestock supplemental feed 15%. Cattle marketings average, prices up slightly.

OREGON: Temperatures along coast 2° below normal to 2° above. Except for couple spots temperatures again well above normal over interior. Week started hot, cooled slightly midweek, ended in scorcher with maximum temperatures. Many stations soaring to or slightly above 100°. Portland, Salem, Eugene, Medford set new record high temperature. Other stations set daily record maximum temperatures. No precipitation over interior. Few stations along coast had trace to 0.01 in. of drizzle.

Soil moisture 79% short, 21% adequate. Winter wheat 98% harvested. Barley 86% harvested. Hay, roughage supplies 31% short, 66% adequate, 3% surplus. Grain harvest wrapping up few counties, essentially complete elsewhere. Some early seeding winter wheat on summer fallow began. Some late 2nd cutting alfalfa; more 3rd cutting began, some 4th cutting in Umatilla County. Grass seed harvest virtually complete; field burning continued. Few red clover fields swathed, Washington County. Hop harvest continued. Mint harvest mostly complete west; continued central. Silage corn harvest underway; sugarbeet harvest to begin shortly. Granny smith apple harvest started; other types continued. Pear, peach harvest full swing. Evergreen blackberry, red raspberry, everbearing strawberry harvest continued. Malheur potatoes being dug; onion, dry bean harvest full swing. Vegetable crops Willamette Valley continued harvesting. Livestock good. Range, pastures fair to good east, west. Feeder cattle moving early; calves being weaned.

PENNSYLVANIA: Second week in row, temperatures below normal, rainfall above normal. Temperature 65°, 3° below normal. Temperature extremes 38°; 88°. Precipitation 2.00 in., 1.16 in. above normal.

Days suitable for fieldwork 4.0. Soil moisture 35% short, 60% adequate, 5% surplus. Corn 97% silk, 100% 1987, 100% avg.; 71% dough, 92% 1987, 86% avg.; 27% dent, 57% 1987, 40% avg.; 3% mature, 10% 1987, 5% avg. Ensilage corn 13% harvested, 20% 1987. Corn 19% very poor, 28% poor, 27% fair, 21% good, 5% excellent. Soybeans 8% very poor, 20% poor, 34% fair, 30% good, 8% excellent. Wheat 3% planted, 18% 1987. Oats 98% harvested, 100% 1987. Barley 3% planted, 20% 1987. Tobacco 35% harvested, 62% 1987. Potatoes 29% harvested, 38% 1987. Second cutting alfalfa 94%, 96% 1987; 3rd cutting 69%, 58% 1987; 4th cutting 21%, 22% 1987. Second cutting clover-timothy 87%, 85% 1987. Hay, roughage supplies 14% very short, 52% short, 34% adequate. Livestock feed now obtained from pastures 25%. Quality of hay fair to good. Feed from pastures below average. Apples 26% harvested, 30% 1987. Peaches 69% harvested, 84% 1987. Grapes none harvest, 15% 1987. Fall plowing 32%, 36% 1987. Activities: Harvesting corn silage,

oats, hay, haylage, tobacco, fruit, potatoes, other vegetables; planting wheat, barley; fall plowing; controlling weeds, insects; caring for livestock; maintaining machinery.

PUERTO RICO: Island average rainfall 1.31 in., 0.51 in. below normal. Highest weekly total rainfall 5.15 in. Lares, 3.72 in. Trujillo Alto, 3.59 in. San Sebastian. Highest 24-hour total 2.28 in. Trujillo Alto. Total rainfall since January 1st 42.51 in., 13% above normal. San Juan WSFO mean temperature 83°, 1° above normal. Total rainfall 0.89 in., 0.51 in. below normal. Divisional temperature 80 to 81° on coasts, 76 to 79° interior. Mean station temperature 68° Pico Del Este-Luquillo to 83° San Juan WSFO. Lowest minimum temperature 64° Pico Del Este-Luquillo. Highest maximum temperature 93° several locations.

SOUTH CAROLINA: Temperatures 3 to 5° below seasonal levels. Rainfall 0.61 to 7.66 in.

Days suitable for fieldwork 4.6. Soil moisture 3% very short, 31% short, 61% adequate, 5% surplus. Cotton 24% open bolls, 34% 1987, 45% avg.; 2% very poor, 1% poor, 93% fair, 4% good. Soybeans 95% blooming, 97% 1987, 94% avg.; 71% setting pods, 71% 1987, 71% avg.; 5% leaves turning, 6% 1987, 2% avg.; 2% leaves shedding, 1% 1987; 8% poor, 41% fair, 51% good. Tobacco fair to good; 81% harvested, 90% 1987, 89% avg.; 14% stalks destroyed, 18% 1987, 22% avg. Corn fair; 94% mature, 95% 1987, 94% avg.; 27% harvested, 43% 1987, 43% avg. Peanuts fair to good; 1% harvested, 5% 1987, 3% avg. Sorghum fair to good; 15% harvested, 32% 1987, 20% avg. Peaches fair to good; 99% harvested, 98% 1987, 99% avg. Pastures fair. Hay, roughage supplies 11% very short, 64% short, 25% adequate.

SOUTH DAKOTA: Temperatures 3° below to 5° above normal. Extremes 28°; 99°. Rainfall confined to small amounts east.

Days suitable for fieldwork 6.1. Topsoil moisture 55% critically short, 31% short, 14% adequate. Hay, roughage supplies 13% very short, 51% short, 35% adequate, 1% surplus. Livestock feed obtained from pastures 69%. Corn combining just begun but not started statewide. More corn than normal being cut for silage.

TENNESSEE: High pressure 30th brought cooler temperatures. Rain across State 3rd, 4th. Cold front moved in 4th. Temperatures 3 to 10° below normal, greatest departure Cumberland Plateau. Precipitation 1.00 in. most areas, less northwest, north central. Over 2.00 in. Crossville, Chattanooga.

Days suitable for fieldwork 5.8. Soil moisture 18% very short, 54% short, 27% adequate, 1% surplus. Hay, roughage supplies 9% very short, 76% short, 15% adequate. Corn 86% dented, 96% 1987, 93% avg.; 36% mature, 71% 1987, 50% avg.; 10% harvested, 11% 1987, 8% avg.; 10% very poor, 28% poor, 52% fair, 10% good. Tobacco 90% topped, 95% 1987, 95% avg.; 2% very poor, 8% poor, 60% fair, 29% good, 1% excellent. Burley 40% harvested, 66% 1987, 50% avg. Dark fired 32% harvested, 59% 1987, 48% avg. Dark air-cured 34% harvested, 55% 1987, 46% avg. Primary activities: Harvesting tobacco, apples, peaches; general farm chores.

TEXAS: Fair weather early, midweek. West, coast significant precipitation, tropical moisture abundant these areas. Late week, first major cold front fall brought scattered showers, thunderstorms most State 2nd, 3rd. Cooler, dry conditions 4th. High Plains, Upper Coast above normal rainfall, because thunderstorms throughout week. Southeast, Trans-Pecos, Coastal Bend, Lower Valley also above

normal amounts. Below normal departures north central, northeast, south central, southwest. Temperatures dropped to below normal levels.

Crops: Corn harvest about complete Blacklands. Increase aflatoxin some fields. Corn mature Plains; progress slowed by cooler weather. Rain late week also slowed silage harvest. Harvesting winding down east fair yields. Corn 100% doughing, 100% 1987, 99% avg. Grain sorghum harvest mostly complete Blacklands. Harvest operations increased Cross-Timbers fair yields. Rains Plains help late maturing dryland fields. Fields rapidly turning color through midweek. Most fields look good, good prospects. Sorghum 98% headed, 100% 1987, 97% avg.; 57% harvested, 53% 1987, 57% avg. Cotton harvest moved ahead central, southern areas. Producers winding down operations Lower Valley. Conditions good most week. Good weather through midweek Blacklands allowed harvest progress. Above average yields. Harvest began east. Bolls continued to open rapidly through midweek Plains, Cross-Timbers. Cooler weather late week slowed progress. Insect numbers remained high. Irrigation operations began winding down. Bolls continued to open Trans-Pecos. Cotton 14% harvested, 12% 1987, 11% avg. Small grain seeding continued through midweek Plains. Late week rains slowed progress, added moisture benefit planting conditions. Some dry planting oats underway Blacklands. Land preparation wheat slow because dry conditions. Wheat 9% planted, 10% 1987, 5% avg. Rice harvest continued Upper Coast some producers completing operations. Yields dropped off little some fields. Peanuts neared harvest many areas some early harvesting underway south central. Dryland fields continued stress for moisture many areas. Irrigation steady, fields looked very good. Soybeans continued look good Plains. Recent moisture very beneficial, pods filling. Upper Coast early bean harvest continued. Yields down some. Lodging later varieties because dry weather. Other Field Crops: Peanuts 3% harvested, 4% 1987, 3% avg. Soybeans 18% harvested, 12% 1987, 5% avg. Sunflowers none harvested, none 1987, 1% avg. Oats 1% planted, 3% 1987, 2% avg.

Commercial Vegetables: Rio Grande Valley recent rains helped peppers, tomatoes. Other planting operations continued. Citrus trees benefited from recent rains. East sweetpotato harvest continued good quality. High Plains rain slowed harvest most vegetables, potatoes late week. Trans-Pecos harvest peppers continued good yields. Pecans continued mature. Spraying for weevils, aphids increased. Good rains missed most major producing areas, nut droppage continued. However, many beginning sets too heavy. Hulls starting to open south, harvest begin soon.

Range and Pasture: Forage conditions again declined across State from lack of rain, hot temperatures. Pastures High Plains good. Hay cutting continued, need for supplemental feeding increased. Stockers arriving Plains for winter pasture. Water supplies also declined drier areas. Hay, roughage supplies steady; 13% very short, 39% short, 43% adequate, 5% surplus.

UTAH: Precipitation light to moderate. Temperatures 6° above normal.

Days suitable for fieldwork 6.7. Soil moisture 65% short, 35% adequate. Winter wheat 12% seeded, 45% 1987, 24% avg. Oats for grain 86% harvested, 86% 1987, 68% avg. Alfalfa hay 3rd cutting 51%, 49% 1987, 30% avg. Corn 83% dough, 81% 1987, 65% avg.; 36% dented, 44% 1987, 35% avg. Apple harvest began, peach harvest well along, pear harvest neared completion. Early variety potato harvest began. Onion harvest continued. Range, pasture 15% very poor, 38% poor, 33% fair, 14% good.

Irrigation water supplies 19% very short, 46% short, 35% adequate. Stockwater supplies 12% very short, 44% short, 44% adequate. Hay, roughage supplies 27% short, 58% adequate, 15% surplus.

VIRGINIA: Normal temperatures, rainfall. Temperature 47 to 96°. Precipitation very variable, 0.22 to 2.67 in. Most rain from tropical storm Chris. More rain on 4th.

Days suitable for fieldwork 4.7. Topsoil moisture 2% very short, 31% short, 52% adequate, 15% surplus. Improved soil moisture benefited hay, pasture land. Corn mostly fair; 62% mature, 65% 1987, 62% avg.; silage 28% harvested, 45% 1987, 41% avg. Soybeans fair to good. Sprayed for corn earworms; 84% setting pods, 88% 1987, 88% avg. Peanuts excellent, spraying for insects, diseases as needed. Flue-cured tobacco harvest 43% complete, 44% 1987, 47% avg. Burley tobacco 16% harvested, 34% 1987, 37% avg. Cut hay, alfalfa. Seeded pastures, alfalfa. Small grain seeding preparation. Some oats, barley seeded. Hay and roughage supplies: 2% very short, 35% short, 51% adequate, 12% surplus.

WASHINGTON: Weak frontal system passed over State early week, leaving some measurable precipitation west. East side dominated by high pressure area which moved in from coast, producing temperatures 10 to 17° above normal midweek.

Days suitable for fieldwork 7.0. Harvest of winter wheat virtually complete. Planting of dryland cereals continued early areas. Heavy winds Douglas County forced some reseeded of small grains. Soil moisture levels 72% short, 28% adequate. Corn silage harvest increased. Harvest of dry beans, alfalfa, clover seed continued Grant County. Second cutting timothy hay underway Kittitas County. Potato harvest continued Columbia Basin. Excellent quality Franklin County. Hay, other roughage feed supplies 5% short, 40% adequate, 55% surplus. Blueberry, blackberry harvest neared completion. Apples being picked several counties. Sweet corn harvest continued. Cucumber harvest underway westside. White onion harvest progress Grant County. Range, pasture mostly short southeast area, short to adequate elsewhere.

WEST VIRGINIA: Temperature 67°, 1 to 3° below normal. Extremes 39° Greenbank, 95° Williamson. Precipitation 1.88 in., 0.89 to 1.25 in. above normal.

Days suitable for fieldwork 5.1. Soil moisture 21% very short, 49% short, 30% adequate. Corn poor to fair; 98% silked, 75% dough, 25% mature. Apples fair to good, peaches good to fair. Feed supplies 17% very short, 48% short, 35% adequate. Feed from pasture 76%. Farm activities: General farm maintenance, haying, clipping pasture, livestock care.

WISCONSIN: Cool temperatures 64°, 1° below normal. Extremes 36°; 92°. Precipitation 0.20 to 2.00 in., heaviest east central, southeast.

Days suitable for fieldwork 5.7. Soil moisture 80% short, 20% adequate. Crops 5% very poor, 46% poor, 34% fair, 15% good. Corn 10% very poor, 44% poor, 33% fair, 12% good, 1% excellent; yield prospects low; 81% in dent, 80% 1987, 50% avg.; 19% mature, 32% 1987, 14% avg. Corn silo filling advanced rapidly 19%, 7% 1987, 3% avg. More being cut as grain yields poor. Third crop hay 52% cut, 54% 1987, 38% avg. Yields mostly good. Soybeans 35% turning, 27% 1987; 14% shedding, 5% 1987. Second crop snap beans good. Feed, roughage supplies 18% very short, 70% short, 12% adequate.

(Continued to back cover)

CROP PROGRESS 1/

FOR WEEK ENDING SEPTEMBER 4, 1988

SOYBEANS
% SETTING PODS

	1988	1987	AVG.
ALA	70	78	84
ARK	76	90	81
GA	89	100	92
ILL	100	100	100
IND	100	100	99
IOWA	100	100	100
KANS	99	96	85
KY	76	84	78
LA	83	96	93
MICH	95	100	99
MINN	100	100	100
MISS	76	78	78
MO	95	98	94
NEBR	100	100	99
N C	68	70	71
OHIO	99	100	100
S C	71	71	71
S DAK	100	100	100
TENN	90	94	90

19 STATES 94 96 94

THESE 19 STATES PRODUCED 96% OF THE 1987 SOYBEANS CROP.

SOYBEANS
% DROPPING LEAVES

	1988	1987	AVG.
ALA	7	7	2
ARK	1	2	4
GA	4	7	8
ILL	16	36	18
IND	13	54	13
IOWA	35	16	8
KANS	15	25	15
KY	11	15	12
LA	2	9	4
MICH	2	15	5
MINN	36	27	9
MISS	7	6	7
MO	5	14	3
NEBR	25	3	3
N C	0	0	0
OHIO	4	41	12
S C	2	1	0
S DAK	48	20	15
TENN	10	16	6

19 STATES 16 22 9

THESE 19 STATES PRODUCED 96% OF THE 1987 SOYBEANS CROP.

COTTON
% BOLLS OPENING

	1988	1987	AVG.
ALA	43	46	33
ARIZ	80	80	74
ARK	47	70	45
CALIF	45	75	50
GA	36	46	37
LA	58	72	52
MISS	56	79	56
MO	36	96	43
N MEX	23	30	64
N C	42	57	43
OKLA	10	2	5
S C	24	34	45
TENN	28	59	35
TEX	21	27	20

14 STATES 34 47 34

THESE 14 STATES PRODUCED 100% OF THE 1987 COTTON CROP.

RICE
% HEADED

	1988	1987	AVG.
ARK	95	100	95
CALIF	90	99	88
LA	99	99	98
MISS	97	100	97
TEX	100	100	100

5 STATES 96 100 95

THESE 5 STATES PRODUCED 97% OF THE 1987 RICE CROP.

RICE
% HARVESTED

	1988	1987	AVG.
ARK	4	17	11
CALIF	1	0	0
LA	51	67	67
MISS	6	10	19
TEX	89	99	87

5 STATES 23 33 29

THESE 5 STATES PRODUCED 97% OF THE 1987 RICE CROP.

CORN
% MATURE

	1988	1987	AVG.
COLO	15	1	NA
GA	98	100	98
ILL	45	63	32
IND	28	78	30
IOWA	75	61	21
KANS	65	55	30
KY	25	72	39
MICH	3	20	5
MINN	40	33	10
MO	49	76	53
NEBR	35	23	9
N C	78	74	79
OHIO	4	43	18
PA	3	10	5
S DAK	35	33	14
TEX	71	73	73
WIS	19	32	14

17 STATES 42 50 NA

EXCL. STATES WITH NA 42 50 24

THESE 17 STATES PRODUCED 94% OF THE 1987 CORN CROP.

NA - NOT AVAILABLE.

CORN
% HARVESTED

	1988	1987	AVG.
COLO	0	0	0
GA	56	71	67
ILL	2	5	1
IND	1	5	0
IOWA	5	2	0
KANS	10	10	2
KY	2	9	6
MICH	0	0	0
MINN	0	0	0
MO	7	13	8
NEBR	2	0	0
N C	12	12	15
OHIO	0	2	0
PA	0	0	0
S DAK	0	0	0
TEX	67	63	59
WIS	0	0	0

17 STATES 4 6 4

THESE 17 STATES PRODUCED 94% OF THE 1987 CORN CROP.

	1988	1987	AVG.
COLO	67	40	44
GA	100	100	100
ILL	92	98	87
IND	85	99	78
IOWA	98	93	72
KANS	90	85	65
KY	80	98	85
MICH	45	90	45
MINN	97	97	66
MO	94	99	94
NEBR	95	88	66
N C	94	94	94
OHIO	47	97	78
PA	27	57	40
S DAK	94	86	46
TEX	98	98	94
WIS	81	80	50

17 STATES 86 92 71

THESE 17 STATES PRODUCED 94% OF THE 1987 CORN CROP.

	GRAIN SORGHUM % COLORING		
	1988	1987	AVG.
ARK	86	96	NA
ILL	66	85	NA
KANS	50	55	30
LA	80	96	96
MISS	81	96	99
MO	80	87	84
NEBR	85	77	64
OKLA	65	65	65
S DAK	77	83	49
TENN	78	94	73
TEX	74	80	78
11 STATES	67	71	NA
EXCL. STATES WITH NA	66	70	56

THESE 11 STATES PRODUCED 96%
OF THE 1987 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

	GRAIN SORGHUM % MATURE		
	1988	1987	AVG.
ARK	42	86	NA
ILL	28	45	NA
KANS	10	10	5
LA	55	84	83
MISS	54	83	74
MO	31	52	37
NEBR	20	13	5
OKLA	5	5	10
S DAK	13	15	7
TENN	34	66	43
TEX	59	59	62
11 STATES	28	32	NA
EXCL. STATES WITH NA	28	30	26

THESE 11 STATES PRODUCED 96%
OF THE 1987 GRAIN SORGHUM CROP.

NA - NOT AVAILABLE.

1/ AVERAGES FOR THESE SUMMARIES ARE FOR YEARS 1983 - 1987.

Crop Condition
FOR WEEK ENDING SEPTEMBER 4, 1988

STATE	RICE				
	VP	P	F	G	EX
ARK	0	0	36	59	5
CALIF	0	0	10	85	5
LA	0	0	28	67	5
MISS	0	0	40	60	0
TEX	0	1	13	65	21
5 STATE	0	0	28	66	6

STATE	GRAIN SORGHUM				
	VP	P	F	G	EX
ARK	0	10	38	42	10
ILL	0	6	67	27	0
KANS	0	18	53	24	5
LA	0	12	48	39	1
MISS	5	20	50	25	0
MO	4	13	51	27	5
NEBR	0	25	54	19	2
OKLA	0	5	35	60	0
S DAK	7	22	58	11	2
TENN	3	7	65	25	0
TEX	0	3	22	63	12
11 STATE	1	14	43	36	6

STATE	SOYBEANS				
	VP	P	F	G	EX
ALA	1	9	44	44	2
ARK	0	10	58	32	0
GA	2	3	56	34	5
ILL	1	28	59	12	0
IND	1	27	59	13	0
IOWA	7	33	50	10	0
KANS	1	26	36	20	17
KY	0	4	57	39	0
LA	0	5	39	43	13
MICH	5	15	30	40	10
MINN	10	34	48	8	0
MISS	9	25	45	20	1
MO	9	23	50	15	3
NEBR	6	18	60	14	2
N C	0	5	28	62	5
OHIO	12	26	41	21	0
S C	0	8	41	51	0
S DAK	0	12	60	26	2
TENN	1	9	50	40	0
19 STATE	5	23	50	20	2

STATE	CORN				
	VP	P	F	G	EX
COLO	1	2	14	64	19
GA	1	28	53	18	0
ILL	8	50	40	2	0
IND	5	52	41	2	0
IOWA	15	39	40	6	0
KANS	6	7	35	33	19
KY	10	41	43	6	0
MICH	10	25	40	23	2
MINN	18	42	36	4	0
MO	18	47	24	10	1
NEBR	2	9	31	43	15
N C	3	14	44	38	1
OHIO	18	32	38	12	0
PA	19	28	27	21	5
S DAK	12	45	35	7	1
TEX	0	0	20	46	34
WISC	10	44	33	12	1
17 STATE	10	36	37	14	3

STATE	COTTON				
	VP	P	F	G	EX
ALA	0	31	53	16	0
ARIZ	0	0	11	78	11
ARK	0	0	31	59	10
CALIF	0	0	15	70	15
GA	0	15	74	11	0
LA	0	0	62	35	3
MISS	5	4	40	50	1
MO	0	0	38	54	8
N MEX	0	0	50	50	0
N C	0	6	21	64	9
OKLA	0	10	55	35	0
S C	2	1	93	4	0
TENN	0	4	10	86	0
TEX	0	5	27	66	2
14 STATE	1	4	32	60	3

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

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

August 1988

International Weather and Crop Summary

August 28 - September 3, 1988

HIGHLIGHTS

USSR ... In Western USSR, variable showers slow winter grain planting. In the New Lands, warm, mostly dry weather favors spring grain harvesting.

EUROPE ... A late-week storm brings heavy rain and high winds to northwestern Europe. Light to moderate rain covers sections of the southeast.

SOUTH ASIA ... Showers benefit reproductive to filling crops in southern India. Scattered showers in eastern India and Bangladesh exacerbate flooding.

EASTERN ASIA ... Heavy rain over southern China benefits late-crop rice but delays harvest of the single crop. Torrential rains likely cause flooding in sections of the Yangtze Valley.

SOUTHEAST ASIA ... Dry weather continues in eastern Thailand, favoring corn harvesting. Rain elsewhere benefits rainfed rice.

SOUTH AMERICA ... Mostly dry weather prevails except for light showers in Buenos Aires, Argentina.

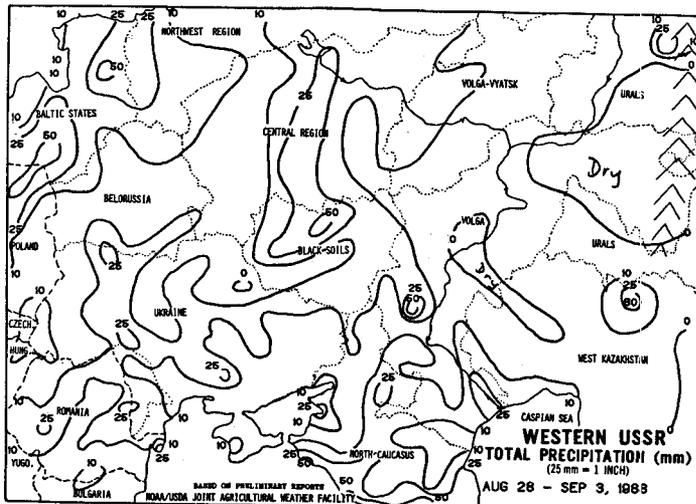
AUSTRALIA ... Rain favors winter grains across most growing areas.

MEXICO ... Widespread, heavy rain soaks the Plateau corn belt and southern areas.

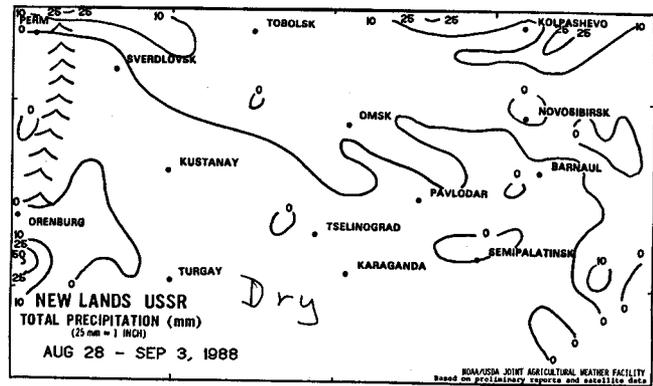
CANADA ... Dry weather favors harvesting.

COUNTRY	CITY	TEMPERATURE (C)					PRECIPITATION (MM)		
		AVG MAX	AVG MIN	HI	LO	AVG	DPART F/NRM	DPART F/NRM	
NORWAY	OSLO	18	9	24	2	14	-0.1	149.2	51.0
SWEDEN	STOCKHOLM	20	11	23	7	16	-0.6	44.8	-26.0
FINLND	HELSINKI	18	12	22	5	15	-0.6	102.9	27.3
U KING	GLASGOW	18	11	27	3	14	-1.0	123.6	32.7
	EDINBURGH	19	11	27	6	15	0.3	74.2	0.2
	BIRMINGHAM	20	11	28	4	15	-0.2	47.3	-24.8
	LONDON	21	11	27	6	16	0.2	19.5	-37.5
IRELND	DUBLIN	18	11	22	9	15	0.0	51.1	-23.5
ICELND	REYKJAVIK	13	9	16	5	11	0.3	42.0	-13.3
DENMRK	COPENHAGEN	20	12	25	9	16	-1.1	41.7	-24.3
LUXEMB	LUXEMBOURG	22	13	28	8	18	0.9	44.4	-29.1
SWITZL	ZURICH	23	14	30	10	19	1.8	149.4	7.2
	GENEVA	27	13	33	7	20	1.9	64.5	-36.6
FRANCE	PARIS	25	13	32	6	19	0.9	22.0	-35.6
	STRASBOURG	26	14	31	8	20	1.6	67.0	-5.9
	BOURGES	26	13	32	7	19	0.7	18.4	-48.6
	BORDEAUX	26	15	33	8	21	1.5	17.0	-47.2
	TOULOUSE	27	16	34	10	22	1.3	16.9	-30.7
	MARSEILLE	29	18	34	12	23	0.7	0.1	-25.5
SPAIN	VALLADOLID	30	14	35	8	22	1.3	0.1	-9.8
	MADRID	34	16	40	13	25	1.2	0.5	-9.9
	SEVILLE	36	19	41	12	27	0.8	0.1	-4.4
E GRMY	LEI PZIG	24	14	31	8	19	1.4	47.6	-11.8
	DRESDEN	24	14	32	10	19	1.0	34.8	-37.2
W GRMY	HAMBURG	21	12	27	7	17	0.6	59.6	-24.3
	BERLIN	23	14	30	9	19	0.5	18.4	-46.7
	DUSSELDORF	23	14	30	9	19	0.6	51.7	-26.3
	STUTTGART	23	12	31	8	18	1.1	80.7	-17.9
	NURNBERG	24	13	31	7	19	1.4	86.7	13.6
	MUNICH	24	13	32	5	18	1.5	119.5	7.1
AUSTRI	VIENNA	26	15	33	9	20	0.9	95.4	33.4
	INNSBRUCK	24	13	30	9	18	1.3	160.9	41.3
CZECH	PRAGUE	24	12	30	6	18	0.7	61.8	-4.0
POLAND	WARSAW	23	12	31	5	17	-0.2	77.6	21.9
	LODZ	23	12	31	7	18	0.9	87.1	20.0
	KATOWICE	23	12	32	7	18	1.4	75.9	-15.0
	PRZEMYSL	23	14	31	7	18	0.8	77.3	-0.6
HUNGAR	BUDAPEST	27	15	35	8	21	0.6	83.0	36.0
YUGOSL	SARAJEVO	29	13	37	6	21	3.4	50.3	-26.7
ROMANI	BUCHAREST	30	15	36	8	23	0.6	10.1	-42.1
BULGAR	SOFIA	29	16	35	9	22	2.6	6.1	-32.7
ITALY	MILAN	29	18	33	13	24	1.7	96.3	1.7
	VERONA	30	19	34	13	24	2.1	43.0	-38.3
	VENICE	29	18	33	13	23	0.8	50.0	-26.3
	GENOA	28	23	34	20	26	1.2	26.6	-27.2
	ROME	30	19	33	15	24	0.4	23.0	-4.2
	NAPLES	32	20	37	15	26	3.0	5.3	-51.8
GREECE	THESSALONIKA	32	20	35	16	26	-0.3	17.0	-3.0
	LARISSA	34	18	36	13	26	-0.8	1.9	-10.1
	ATHENS	33	24	36	19	28	-0.1	0.1	-5.2
TURKEY	ISTANBUL	30	20	33	14	25	1.6	1.3	-19.7
	ANKARA	29	11	35	5	20	-3.2	0.1	-36.9
CYPRUS	LARNACA	33	23	37	19	28	0.5	0.3	-0.7
USSR	TALLINN	18	12	23	9	15	-0.4	135.4	66.0
	LENINGRAD	19	13	25	9	16	-0.2	138.3	64.5
	KAUNAS	21	12	27	8	16	0.0	120.4	57.3
	MINSK	22	12	31	8	17	0.4	64.3	-13.3
	KAZAN	23	14	32	8	19	1.5	84.2	20.3
	MOSCOW	21	13	29	6	17	0.4	96.2	22.2
	SVERDLOVSK	24	12	31	4	18	2.9	26.0	-38.7
	OMSK	24	12	30	5	18	2.1	17.0	-36.4
	KUSTANAY	26	14	33	9	20	2.2	24.3	-7.0
	KRASNOYARSK	20	11	27	2	15	0.1	76.9	6.3
	NOVOSIBIRSK	21	11	28	3	16	0.1	36.2	-17.1
	BARNAUL	23	13	29	7	18	1.0	26.3	-26.3
	KHABAROVSK	25	17	34	12	21	1.9	204.7	83.0
	VLADIVOSTOK	24	19	33	15	21	1.9	167.4	14.0
	KIEV	23	14	29	12	19	-0.1	70.9	-0.1
	LVOV	22	11	28	5	17	-0.2	92.7	8.6
	KIROVOGRAD	26	14	32	10	20	0.0	37.4	-6.7

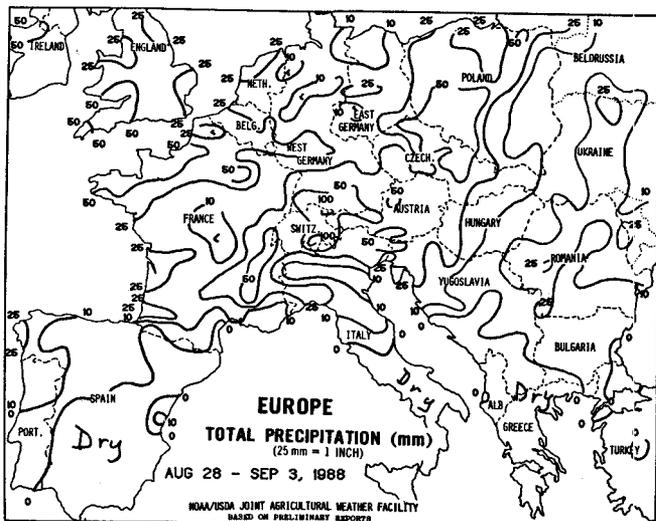
COUNTRY CITY		TEMPERATURE (C)					PRECIPITATION (MM)			COUNTRY CITY		TEMPERATURE (C)					PRECIPITATION (MM)			
August 1988		AVG	AVG	HI	LO	DPART	DPART		TOTAL	August 1988		AVG	AVG	HI	LO	DPART	DPART		TOTAL	F/NRM
MAX	MIN	MAX	MIN	AVG	F/NRM	F/NRM	F/NRM	MAX		MIN	MAX	MIN	AVG	F/NRM	F/NRM	F/NRM	F/NRM			
USSR	ODESSA	26	18	33	12	22	0.5	15.4	-17.8	TANZAN	DAR ES SALAAM	30	19	31	16	25	1.0	52.5	27.4	
	YALTA	29	21	33	17	25	1.0	16.0	-9.9	GABON	LIBREVILLE	28	23	30	20	25	0.8	15.3	8.8	
	VORONEZH	24	13	30	7	18	-0.3	39.3	-19.4	TOGO	LOME	29	23	31	21	26	1.1	1.2	-24.9	
	SARATOV	25	16	32	10	21	1.3	79.6	40.2	B FASO	OUAGADOUGOU	30	23	33	20	27	0.4	254.5	4.7	
	KHARKOV	24	14	30	10	19	-0.5	50.1	-33.2	IVRY C	ABIDJAN	27	22	29	21	25	0.7	26.9	-2.2	
	VOLGOGRAD	27	16	33	8	22	-0.7	55.5	25.1	MOZAMB	MAPUTO	28	15	36	11	21	1.6	1.2	-15.0	
	ROSTOV	28	17	33	12	22	-0.1	9.1	-32.4	ZAMBIA	KAPWE	26	11	32	7	19	0.2	0.1	0.1	
	ASTRAKHAN	31	19	36	12	25	1.1	24.5	8.9	ZIMBAB	HARARE	24	9	29	2	17	0.9	0.1	-1.9	
	KRASNODAR	29	17	34	13	23	-0.2	53.0	-2.9	S AFRI	PRETORIA	23	9	28	4	16	2.2	0.1	-5.4	
	ORENBURG	29	16	36	10	22	2.7	20.7	-7.6		KROONSTAD	23	2	26	-6	12	0.7	1.0	-12.0	
	TSELINOGRAD	26	14	32	10	20	2.1	37.2	3.3		JOHANNESBURG	21	8	25	4	14	2.1	0.1	-6.2	
	KARAGANDA	24	13	30	8	19	1.1	67.6	38.8		BETHAL	20	5	25	-1	13	1.2	0.3	-8.6	
	TBILISI	27	19	32	14	23	-1.1	37.2	-7.8		DURBAN	24	15	32	10	19	2.1	61.7	11.0	
	TASHKENT	34	17	37	9	25	0.4	8.8	5.8		CAPE TOWN	19	9	24	1	14	1.5	78.3	-0.9	
	ASHKhabAD	36	20	40	15	28	-1.1	4.4	3.6	CANADA	TORONTO	28	15	35	6	21	1.7	37.6	-39.2	
SYRIA	DAMASCUS	36	18	40	14	27	0.4	0.1	0.1		MONTREAL	26	16	33	7	21	0.9	154.9	63.0	
ISRAEL	JERUSALEM	29	18	34	15	24	-0.1	0.1	0.1		WINNIPEG	27	13	39	8	20	1.9	8.4	-66.8	
PAKIST	KARACHI	32	28	35	27	30	0.9	1.6	-52.0		REGINA	25	11	37	3	18	0.5	73.0	28.3	
INDIA	AMRITSAR	34	24	38	19	29	-0.6	128.2	-55.8		SASKATOON	22	11	31	3	17	-0.7	89.4	51.7	
	NEW DELHI	33	26	36	24	29	-0.3	401.7	153.6		LETHBRIDGE	25	10	33	3	17	-0.1	49.5	2.3	
	AHMEDABAD	32	26	38	24	29	0.7	153.4	-66.1		CALGARY	21	9	30	3	15	-0.2	164.3	108.8	
	INDORE	29	23	33	21	26	0.9	340.8	50.0		EDMONTON	22	11	28	7	16	0.0	97.0	19.1	
	CALCUTTA	32	27	34	24	29	0.4	153.8	-134.3		VANCOUVER	22	13	27	11	18	0.7	27.5	-13.6	
	VERAVAL	31	25	33	23	28	0.6	67.0	-116.0	MEXICO	GUADALAJARA	26	17	29	14	21	0.7	337.7	126.4	
	BOMBAY	31	25	32	25	28	1.2	283.0	-377.5		MEXICO CITY	23	13	27	11	18	1.6	84.6	-18.8	
	POONA	28	22	30	21	25	0.6	87.0	-29.0		ACAPULCO	31	24	35	23	28	-0.8	341.4	69.4	
	BEGAMPET	30	23	33	20	26	0.6	184.7	18.5		BERMUD	ST. GEORGES	32	27	33	23	29	2.2	51.7	-94.4
	MADRAS	33	25	37	23	30	-0.3	271.9	115.9		BAHAMA	NASSAU	32	24	33	21	28	0.2	92.3	-94.7
	MANGALORE	29	24	31	22	26	0.2	538.8	-38.3		CUBA	HAVANA	32	24	33	22	28	0.5	62.8	-36.5
H KONG	HONG KONG	30	27	32	24	28	0.2	516.1	102.7		JAMAIC	KINGSTON	33	25	35	22	29	0.5	104.8	8.3
N KREA	PYONGYANG	29	20	34	16	25	0.4	94.0	-137.9		P RICO	SAN JUAN	32	25	33	23	28	0.5	286.4	138.4
S KREA	SEOUL	31	23	37	18	27	1.6	83.0	-141.0		GUADEL	RAIZET	31	24	32	21	27	0.4	249.0	104.7
JAPAN	SAPORO	27	20	33	15	24	2.4	162.5	27.9		MARTINQ	LAMENTIN	31	25	32	22	28	1.7	161.8	-82.0
	NAGOYA	32	24	35	21	28	1.2	111.0	-59.3		BARBAD	BRIDGETOWN	30	25	31	19	27	-0.2	81.5	-66.7
	TOKYO	30	25	33	21	27	0.7	355.3	218.0		TRINID	PORT OF SPAIN	32	23	34	16	28	1.5	108.9	-125.1
	YOKOHAMA	30	24	33	17	27	0.7	311.3	179.1		COLOMB	BOGOTA	17	8	20	1	13	-0.1	80.5	43.0
	KYOTO	32	24	35	20	28	1.1	137.2	-22.7		VENEZU	CARACAS	32	25	33	23	28	1.2	123.7	72.8
	OSAKA	32	25	35	22	29	0.6	117.0	13.8		F GUIA	CAYENNE	32	22	33	-1	27	1.0	183.7	18.9
THAILN	PHETCHABUN	32	24	34	23	28	1.0	252.3	53.7		BRAZIL	FORTALEZA	31	23	33	21	27	0.3	3.2	-27.1
	BANGKOK	32	25	35	23	29	0.1	338.2	140.3			RECIFE	27	21	28	19	24	-0.2	200.0	31.7
MALAYS	KUALA LUMPUR	31	24	35	22	27	1.0	320.6	178.1			BELO HORIZONTE	26	15	31	11	20	0.0	0.1	-9.7
VIETNM	HANOI	32	26	35	24	29	0.8	265.1	-77.8			CAMPO GRANDE	31	17	36	8	24	2.9	0.1	-28.9
CHINA	HARBIN	26	18	33	9	22	0.5	152.3	55.1			FRANCA	27	14	31	8	20	1.1	0.1	-10.8
	HAMI	34	18	39	13	26	0.3	1.5	-2.0			RIO DE JANEIRO	26	19	34	15	22	0.3	6.1	-44.5
	LANCHOW	27	16	33	10	22	0.5	88.3	2.9			LONDRINA	28	13	33	7	20	2.0	0.1	-57.2
	BEIJING	29	21	33	16	25	0.5	206.7	-5.6			SANTA MARIA	21	11	32	3	16	0.6	62.6	-63.4
	TIENTSIN	29	22	34	17	26	0.0	152.4	-10.0	PERU	LIMA	18	14	20	12	16	-0.6	2.2	0.4	
	LHASA	21	10	24	9	15	-0.1	213.7	81.4		BOLIVI	LA PAZ	16	-2	19	-5	7	-0.8	0.1	-15.5
	KUNMING	24	17	27	14	20	1.2	177.3	-25.0		CHILE	SANTIAGO	17	3	25	-4	10	0.4	38.2	-10.3
	CHENGCHOW	29	22	35	16	25	-0.5	119.1	-0.2		ARGENT	IGUAZU	26	13	33	4	20	***	11.1	***
	YEHCHANG	31	24	37	19	28	-0.2	400.0	224.1			FORMOSA	25	15	36	7	20	3.4	20.1	-27.9
	HANKOW	32	25	38	18	28	-0.4	314.0	194.5			CERES	22	9	35	0	16	1.7	20.9	-3.2
	CHIHKIANG	31	23	37	18	27	-0.2	398.3	274.8			CORDOBA	21	5	37	-2	13	1.1	0.8	-10.0
	SHANGHAI	31	24	34	20	27	-0.5	135.0	9.0			RIO CUARTO	19	5	34	-1	12	1.0	1.0	-15.9
	NANCHANG	33	26	38	20	29	-0.3	108.0	4.8			ROSARIO	19	6	33	-3	13	1.5	2.0	-36.6
	TAIPEI	35	27	38	25	31	2.7	295.4	10.4			BUENOS AIRES	18	6	25	-3	12	1.5	16.5	-46.4
	CANTON	32	25	34	23	29	0.4	382.3	154.6			SANTA ROSA	17	3	27	-5	10	0.6	16.9	0.3
	NANNING	32	25	35	24	29	1.1	256.8	41.2			TRES ARROYOS	15	3	24	-4	9	0.8	36.0	-5.8
CNRY I	LAS PALMAS	28	22	35	18	25	0.9	0.1	0.1	MIDW I	MIDWAY ISLAND	30	25	32	22	28	1.4	132.6	-33.1	
MOROCC	CASABLANCA	27	21	37	17	24	1.3	0.1	-0.8	N CALD	NOUMEA	24	18	28	16	21	1.3	63.9	-5.7	
	MARRAKECH	39	23	45	17	31	3.2	0.1	-2.0	FIJI	NAUSORI	26	21	36	18	24	1.0	61.4	-137.0	
ALGERI	ALGER	34	21	48	15	27	2.1	0.7	-3.5	SAMOA	PAGO PAGO	29	25	30	22	27	1.0	102.4	-77.5	
	BATNA	34	19	38	15	26	2.1	7.8	-12.3		TAHITI	PAPEETE	29	22	31	19	26	1.2	60.2	15.1
TUNISI	TUNIS	34	22	44	18	28	1.6	0.1	-8.4	N ZEAL	AUCKLAND	15	10	19	4	12	0.7	126.6	1.7	
NIGER	NIAMEY	32	23	35	21	28	0.3	179.4	-18.8			WELLINGTON	13	7	17	3	10	1.0	61.0	-69.8
MALI	TIMBUKTU	36	25	39	22	30	0.4	102.6	22.6	PA N G	PORT MORESBY	29	25	32	23	27	0.7	4.0	-23.7	
	BAMAKO	30	21	36	18	26	-0.2	316.0	12.3	AUSTRL	DARWIN	32	2							



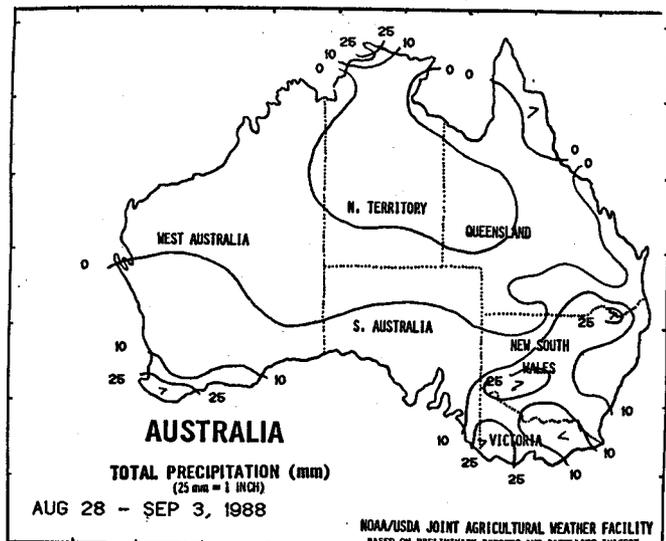
USSR ... In Western USSR, winter grain planting extended as far south as the northern Ukraine, the northern North Caucasus, and the lower Volga. Corn and sunflower harvests were underway in the southern Ukraine and the North Caucasus. Wet weather in parts of the Baltic States, northern Belorussia, the Central Region, and the Black Soils region slowed winter grain planting. Variable showers in the Ukraine and the North Caucasus caused only minor delays in fieldwork for winter wheat planting and corn and sunflower harvesting. Mostly light showers fell in the Volga region, while dry weather prevailed in the Urals.



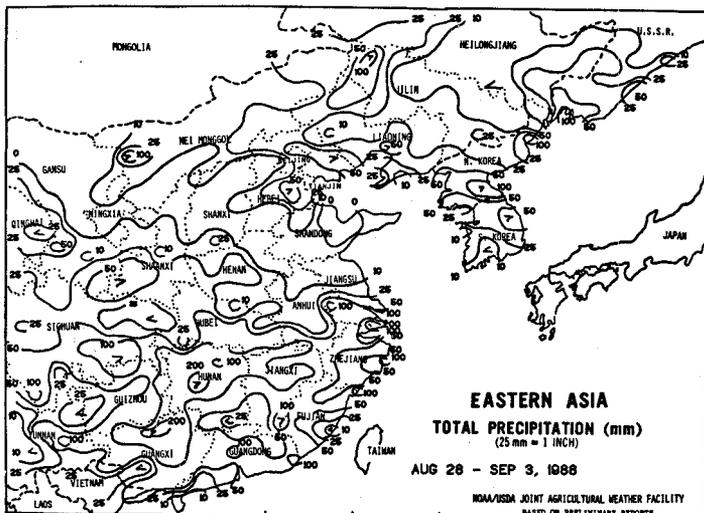
In the New Lands, east of the Ural mountains, unseasonable warm and mostly dry weather continued, allowing spring grain harvesting to progress rapidly. Some light showers (1-9mm) were confined to the northern half of the New Lands.



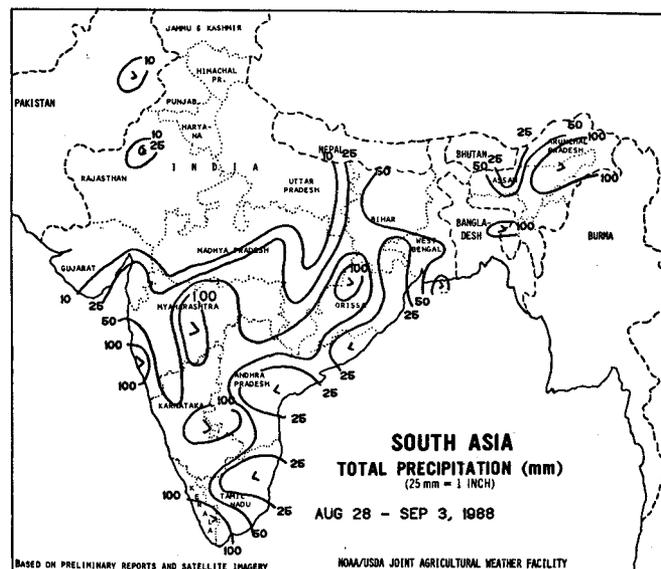
EUROPE ... A strong center of low pressure moved across northwestern Europe late in the week, bringing high winds to sections of the United Kingdom and moderate to heavy rain (15-25mm, with scattered rainfall greater than 30mm) from France eastward to Poland. The rain delayed winter grain harvest and autumn planting, which has begun in northeastern crop areas. Rain also delayed early corn harvest in France and Italy's Po Valley. In southeastern Europe, light to moderate rain (5-15mm, with isolated rainfall greater than 15mm) favored late planted oilseeds in Hungary, Romania, and northern Yugoslavia, while the remainder of the region was mostly dry. Soils in much of the Balkans remain too dry for normal germination and establishment of winter grains due to abnormally hot and dry weather since July. Temperatures ranged from above normal in the east to below normal in the west.



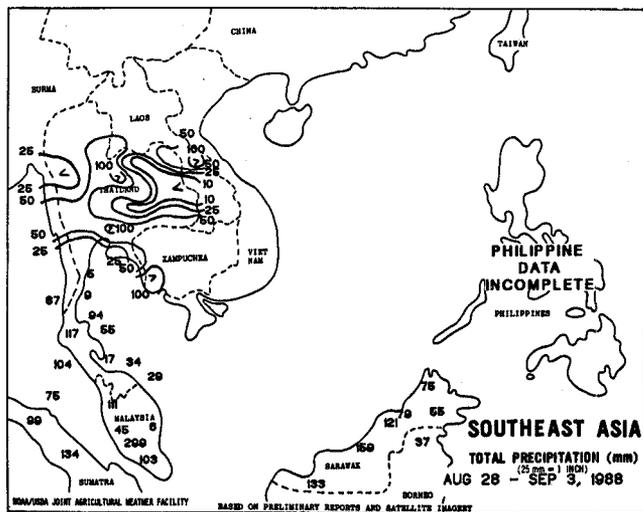
AUSTRALIA ... Light to moderate rain (5-15mm) favored vegetative winter grains across crop areas of Western Australia and South Australia. In eastern crop areas, moderate to heavy rain fell over sections of Victoria and New South Wales. Scattered light rain (less than 10mm) covered winter grains in Queensland, which are entering the heading stage. Normal to above-normal mean weekly temperatures favored winter grain development, although near freezing minimum temperatures in New South Wales may have produced localized frost early in the week. In eastern Queensland, scattered light showers (less than 10mm) caused only brief delays in sugarcane harvest.



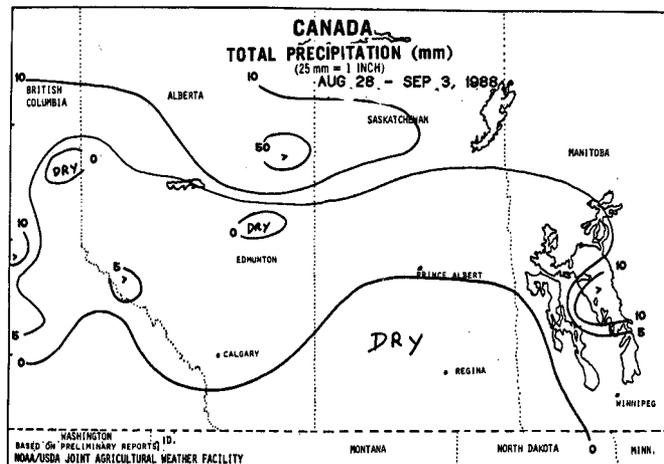
EASTERN ASIA ... Heavy rain (30-80mm) fell over much of southern China, benefiting late-crop rice entering reproductive stages but causing extensive delays in the harvest of the single season crop. Very heavy rain (100-200mm, with isolated rainfall over 200mm) likely caused flooding in sections of southern Sichuan, Hunan, Guangxi, Guangdong, and Jiangxi. In the north, heavy rain (25-50mm) delayed harvest of single-crop rice, corn, and soybeans across northern Hebei, Liaoning, southern Jilin, and the Korean Peninsula. Scattered rainfall (5-30mm) over the North China Plain benefited pre-planting soil moisture levels for winter grains. Mean temperatures for the week were below normal over the Yangtze Valley, the Korean Peninsula, and western Japan, and near normal to above normal elsewhere.



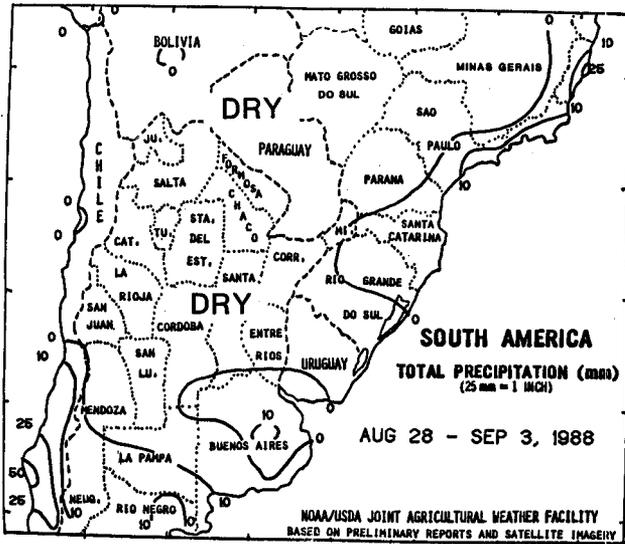
SOUTH ASIA ... Beneficial showers (25-100mm or more) continued from the previous week over India's southern interior, with amounts ranging from 39 to 90mm over chronically dry regions of western Maharashtra and northern Karnataka. Crops throughout the south are reproductive to filling. Light to moderate rain (11-40mm) continued along the southeast coast, maintaining favorable conditions for heading to filling rice. Rainfall diminished over central and northern India, but conditions continued favorable for crops advancing through reproduction. Scattered light to moderate showers (10-50mm or more) continued in the east from Bihar through Bangladesh to Assam, exacerbating flood conditions. Drier weather is needed in the northeast to alleviate flooding, but historically, monsoon showers continue over the region into early October.



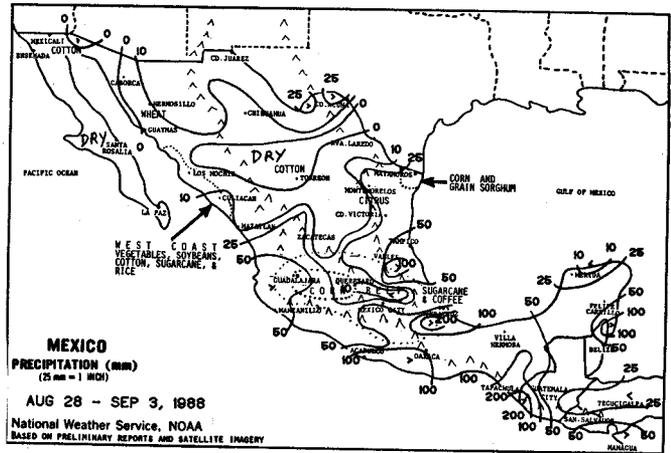
SOUTHEAST ASIA ... Minimal rain (less than 10mm) covered a large portion of eastern Thailand, favoring corn harvesting. Moisture is limited, however, in some eastern rainfed rice regions for normal crop development. Light to moderate rain (25-50mm or more) fell elsewhere in Thailand, maintaining favorable conditions for crop development. Light to moderate rain (25-50mm or more) over Laos, Kampuchea, and most of Vietnam reflected this season's trend of frequent but below-normal rainfall. Heavy rain (100mm or more) continued for the second week over most Malaysian crop regions. In the Philippines, satellite imagery suggested infrequent shower activity over most regions, with scattered rain reported over western Luzon and portions of Mindanao.



CANADA ... Much needed dry, warmer-than-normal weather covered the Prairie Provinces, favoring harvesting. The dry, warm weather also helped maturing crops in parts of the north that had been too wet following recent weeks of above-normal rainfall. Minimum temperatures dipped below 3 degrees C over a large portion of Saskatchewan, with local frost likely in northern and eastern crop areas. Most crops, however, should be well beyond temperature sensitive stages of development.



SOUTH AMERICA ... Mostly dry weather continued over south-central Brazil and the major crop areas of Argentina. In Argentina, light showers provided little help to dry topsoils in Buenos Aires, the leading wheat-producing province. Rainfall averaged mostly less than 5mm in both northern and southern thirds of the province where the majority of the wheat is grown. Minimum temperatures fell below freezing over Buenos Aires late in the week, aggravating unfavorable conditions for early wheat growth. Weekly rainfall ranged from 5 to 12mm over the central portion of the province. Dryness persisted over the remainder of Argentina's wheat areas. Elsewhere, minimal rain (1mm) fell in Rio Grande do Sul while scattered heavier showers fell along Brazil's coastal areas. Weekly temperatures averaged above normal in south-central Brazil and below normal in Argentina.



MEXICO ... Heavy rain fell over eastern Mexico as Hurricane Debby hit the east coast before dissipating rapidly further inland. Weekly rainfall ranged from 85 to 137mm in the area surrounding Ciudad Valles, and inundating rain (130-368mm) deluged the area around Veracruz. Substantial rain (50-77mm) also soaked western and southeastern portions of the Plateau corn belt. Hurricane Kristy skirted the western coast before moving off in a northwesterly direction. Heavy tropical showers also covered much of southern Mexico. In the north, dry weather over north-central cotton areas favored harvesting. Light rain along the west coast farming region eased irrigation requirements. Showers (25-50mm) benefited immature crops in the northeast but slowed harvesting.

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(Continued from p. 20)

WYOMING: Temperatures 2 to 5° above normal. No rainfall except scattered trace amounts.

Days suitable for fieldwork 7.0. Topsoil moisture 100% short. Subsoil moisture 100% short. Barley 5% mature, 10% 1987, 15% avg.; 95% harvested, 90% 1987, 85% avg. Spring wheat 10% mature 1987, 15% avg.; most harvested, 90% 1987, 85% avg. Oats 10% mature, 15% 1987, 20% avg.; 90% harvested, 85% 1987, 80% avg. Dry beans 90% leaves turning color, 95% 1987, 85% avg.; 50% windrowed, 40% 1987, 45% avg.; 25% combined, 10% 1987, 15% avg. Corn 15% milk, 15% 1987, 10% avg.; 45% dough, 40% 1987, 40% avg.; 35% dented, 45% 1987, 45% avg.; 5% mature, none 1987, 5% avg. Corn silage 10% harvested, 15% 1987. Potatoes 10% harvested, 5% 1987. Winter wheat 15% seeded, 25% 1987, 35% avg.; none emerged, 5% 1987, 5% avg. Alfalfa hay 2nd cutting 95%, 90% 1987, 85% avg.; 3rd cutting 45%, 15% 1987. Roughage supplies 25% very short, 50% short, 25% adequate. Livestock feed obtained from pastures 90%. Livestock fair to good.

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