

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

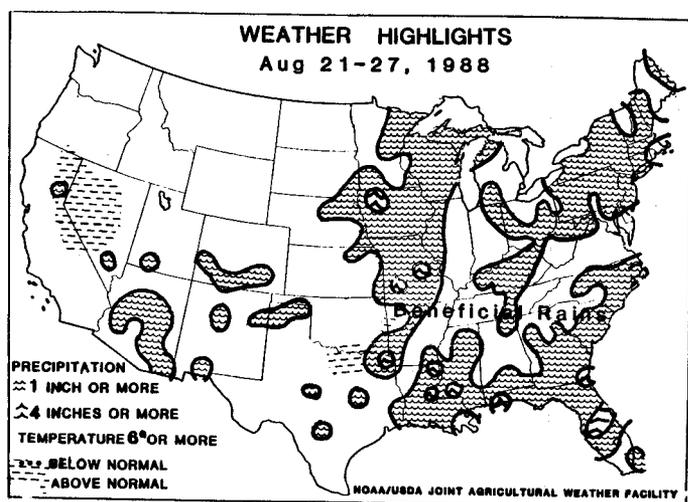
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Aug. 30, 1988

National Weather Summary

August 21 - 27, 1988



WEDNESDAY...The cold front pushed eastward from New England into the lower Mississippi Valley as rain continued east of this system. Thunderstorms produced locally heavy rain in the southwest. A tropical depression caused heavy rain and flooding in Puerto Rico. Smoke from forest fires over northwest Wyoming spread into western Nebraska.

THURSDAY...Another frontal system swept across the Great Lakes and caused rain from New England to Ohio. The southwest was hot and humid as scattered thunderstorms continued to bring locally heavy rain. Record heat returned to northern California and the southern Plains. The tropical depression continued to drench Puerto Rico.

FRIDAY...The cold front pushed eastward to the New England and mid-Atlantic coasts, bringing sunny skies and pleasant temperatures to the Midwest and Northeast. The interior Pacific States remained hot, and showery conditions prevailed across the Southwest.

SATURDAY...A new cold front trekked eastward across the Plains States, setting off thunderstorms from Minnesota and Wisconsin southward into Texas. Temperatures again exceeded 100 degrees in interior sections of Oregon and California. The tropical depression, which became tropical storm Chris on Sunday, brought rain to Florida's east coast.

HIGHLIGHTS: A cold front, during the first part of the week, brought substantial rain and relief from heat to the Eastern United States. A tropical depression, which later became tropical storm Chris, caused torrential rain and flooding in Puerto Rico at midweek. Scattered thunderstorms caused local flooding in the southwest.

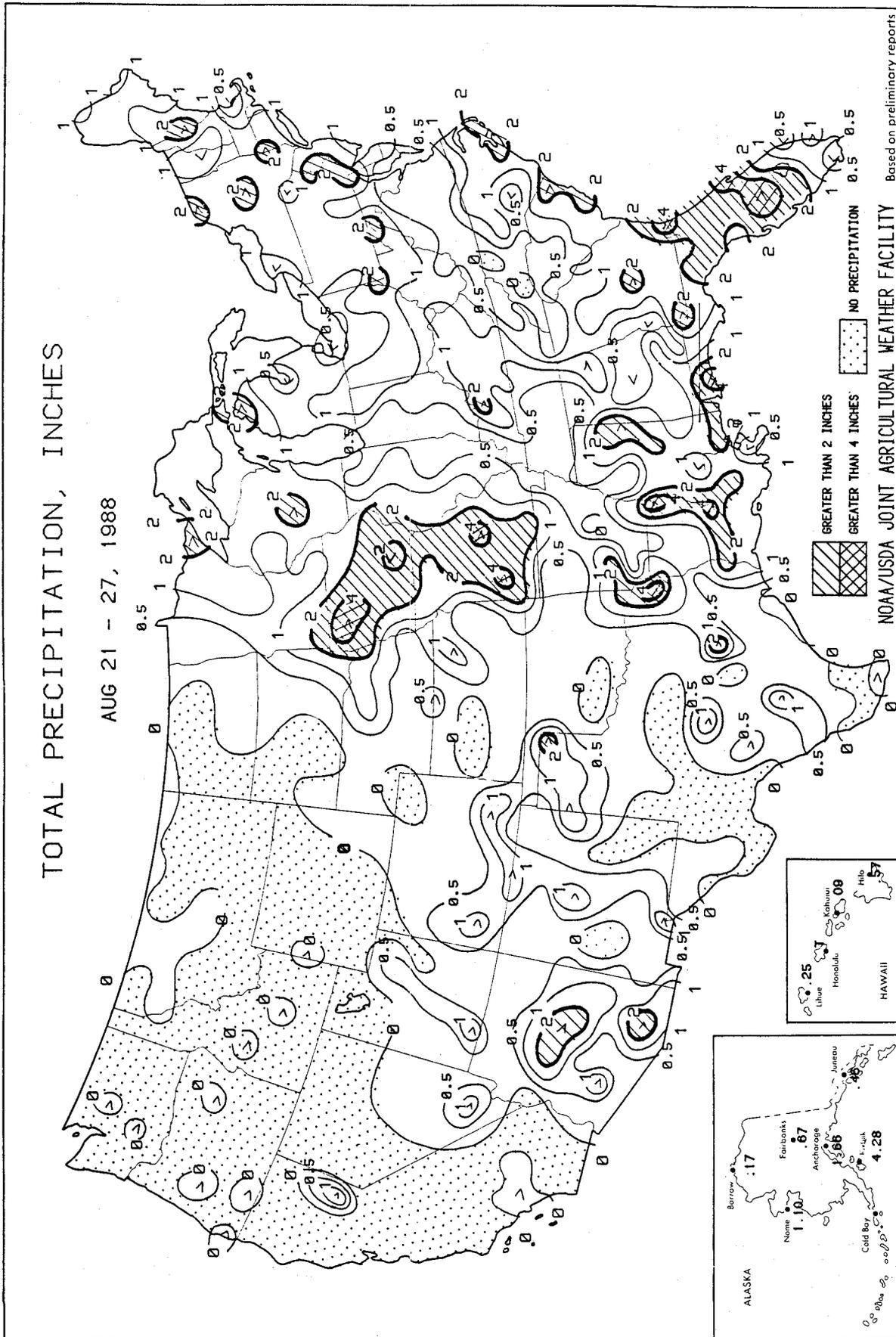
SUNDAY...A slow moving cold front, extending through the northern and central Plains, produced strong thunderstorms in the middle Mississippi Valley. Widespread showers covered the southeast. Locally heavy rain caused flooding in the southwest. The southern Plains remained hot, while the Northeast enjoyed pleasant weather. Portions of the Northwest had record-low temperatures for the date.

MONDAY...The front extended from the upper Mississippi Valley into the southern Plains and pulled much cooler air into the northern Plains. Thunderstorms brought heavy rain and high winds in advance of the front from the upper Great Lakes to southern Missouri. Moberly, Missouri had wind gusts of 56 miles an hour. Temperatures of over a hundred degrees preceded the frontal system in the central Plains.

TUESDAY...Widespread rain covered much of the country east of the cold front, stretching from the lower Great Lakes to central Texas. Showers and thunderstorms continued to be scattered over the southwest due to monsoonal moisture that occurs at this time of year.

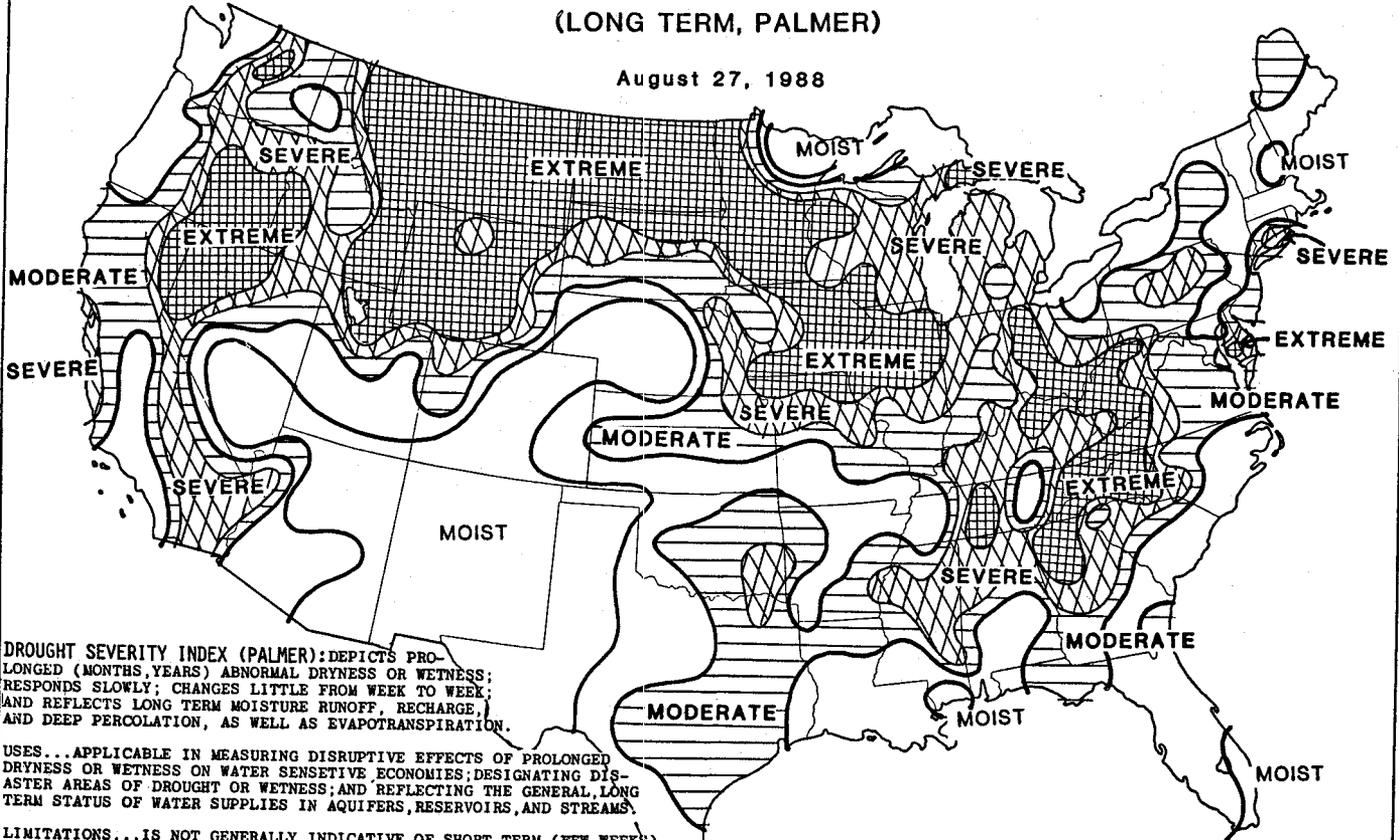
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DROUGHT SEVERITY (LONG TERM, PALMER)

August 27, 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.

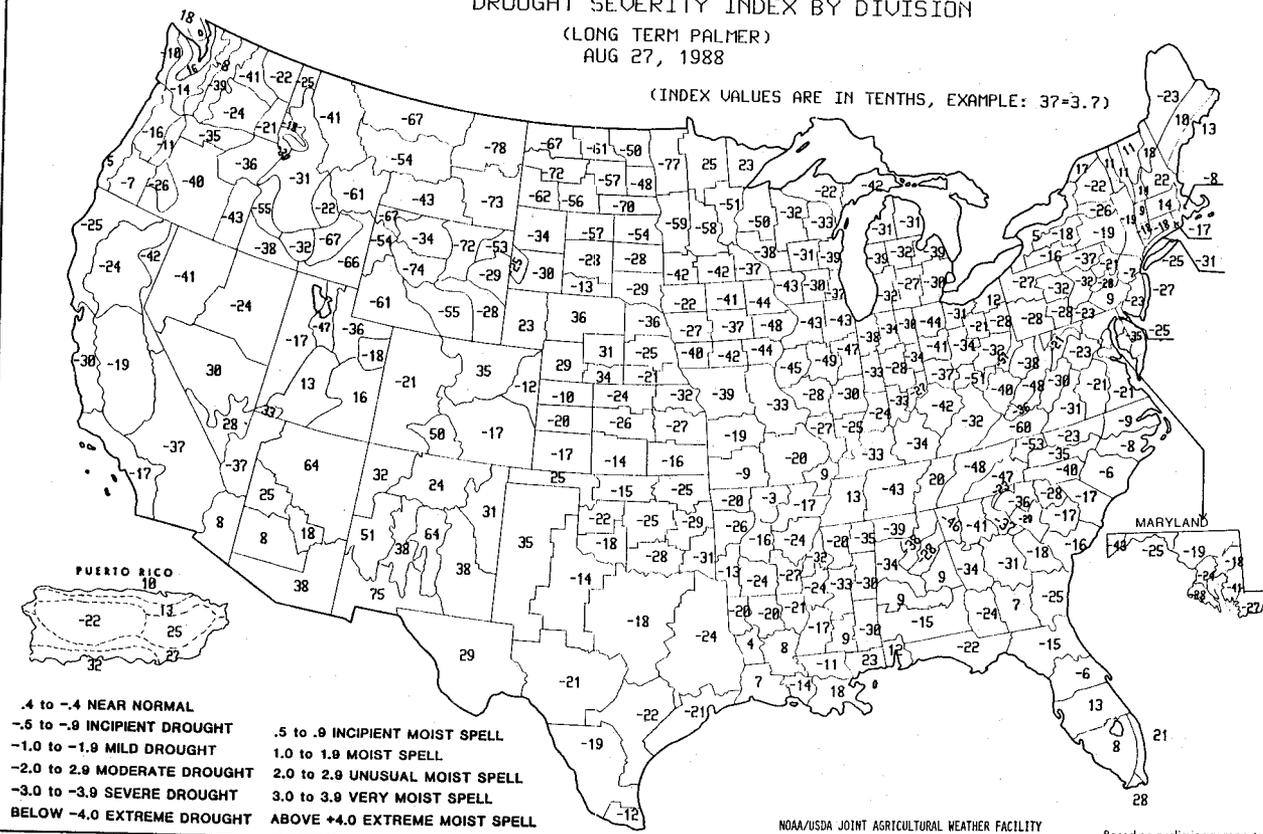
USES... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES; DESIGNATING DISASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL LONG TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS, AND STREAMS.

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).

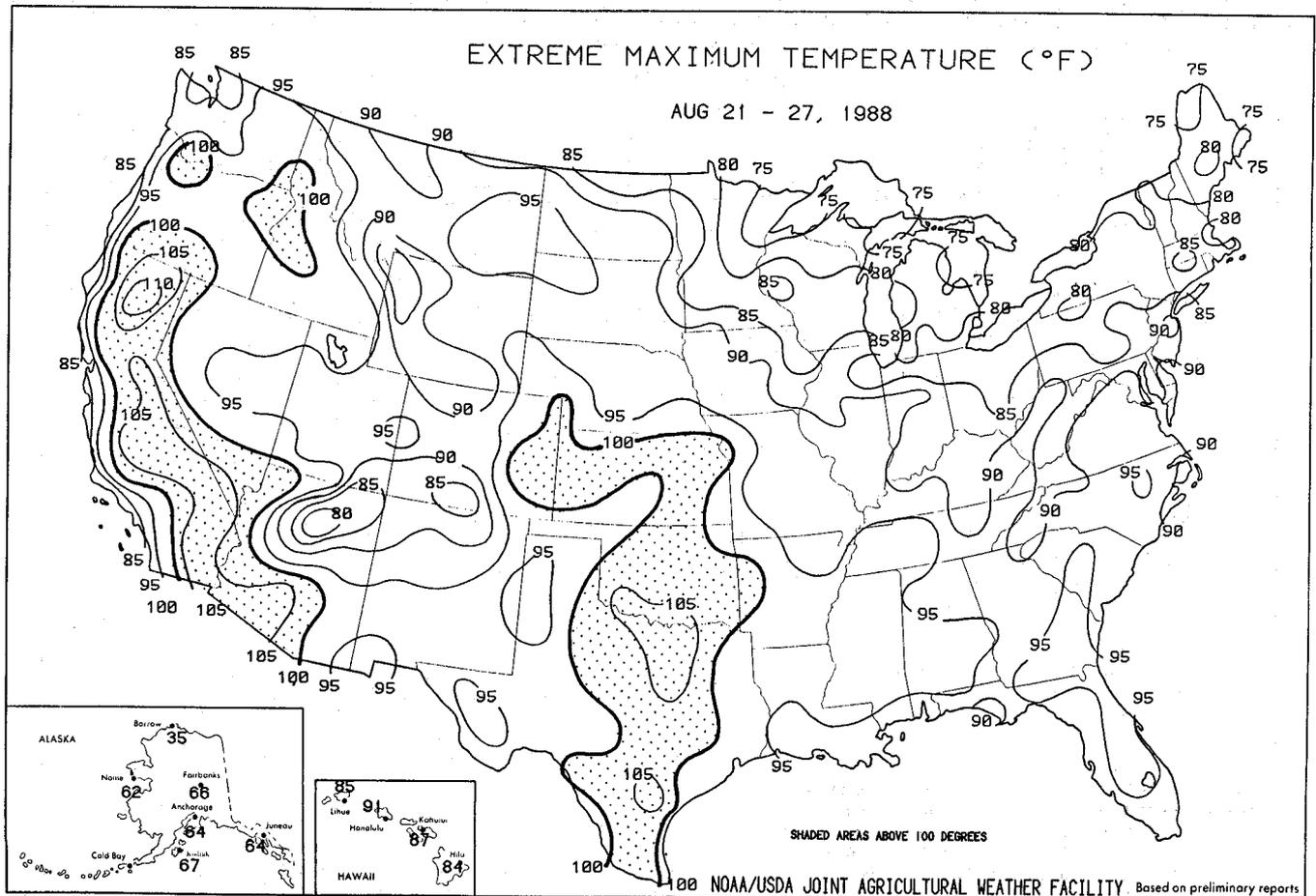
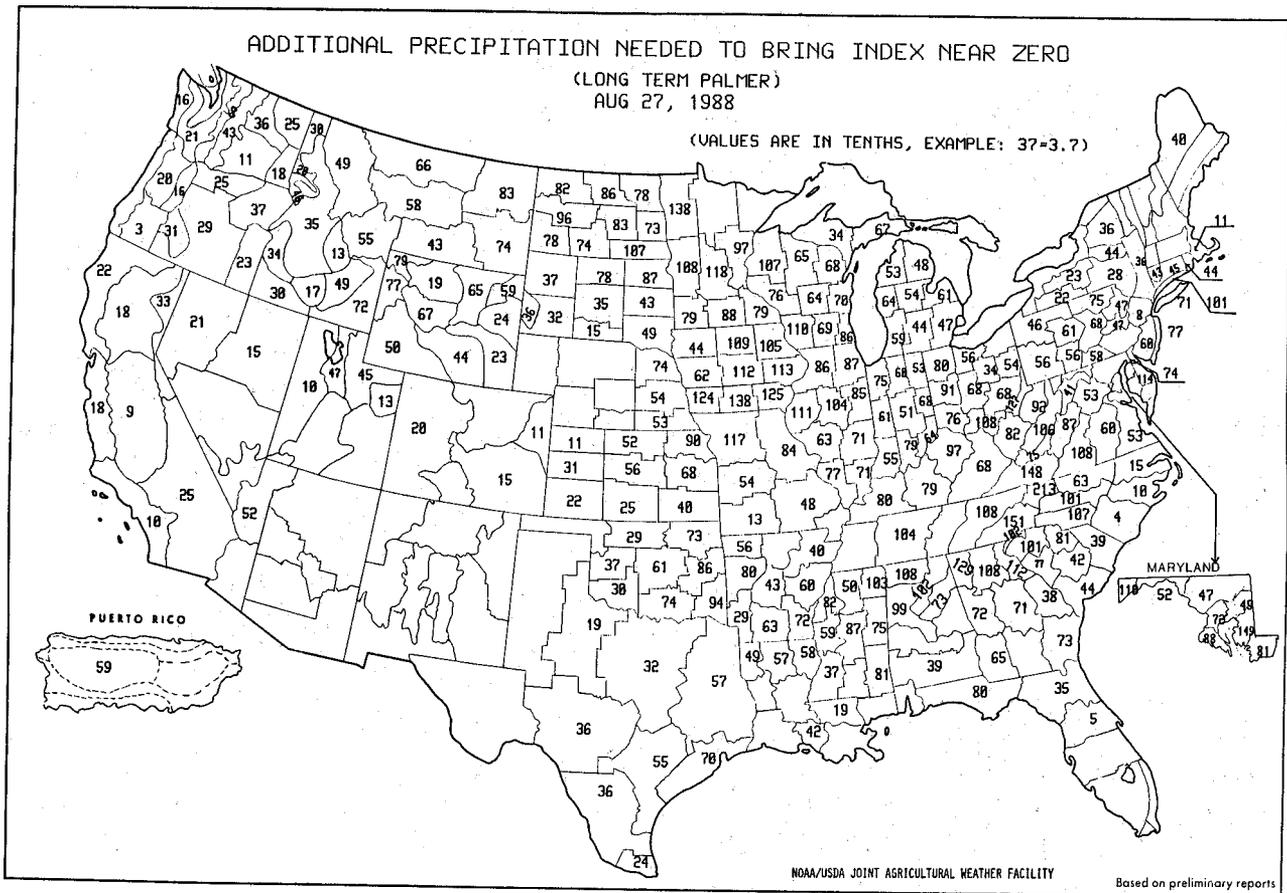
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

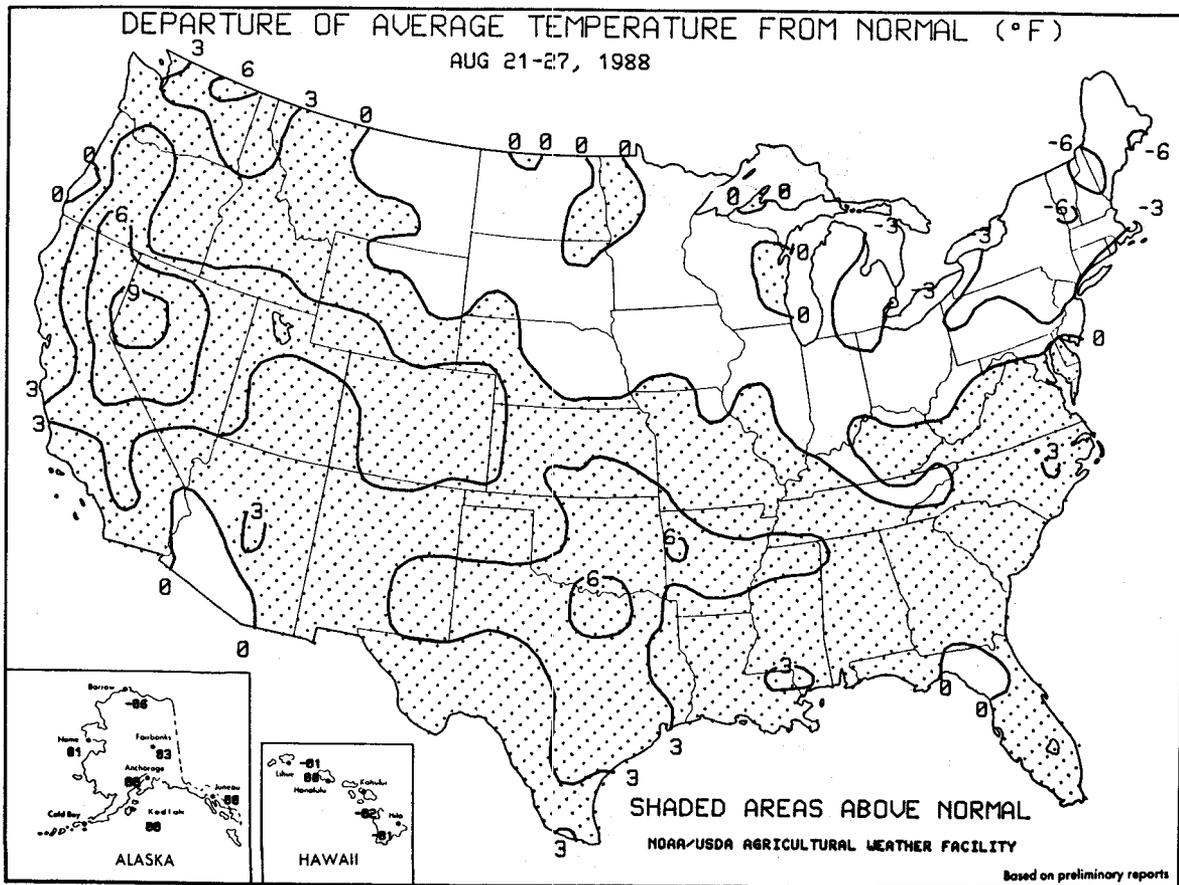
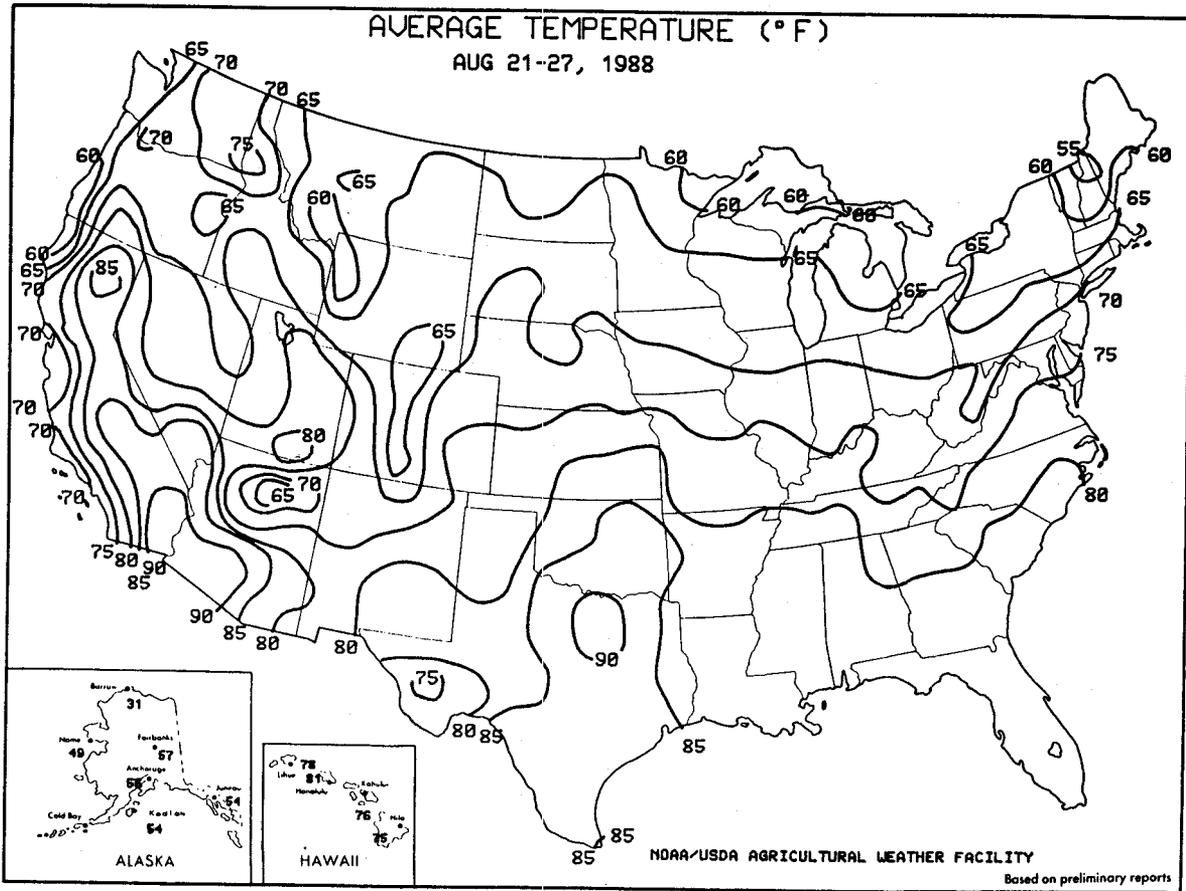
DROUGHT SEVERITY INDEX BY DIVISION (LONG TERM PALMER) AUG 27, 1988

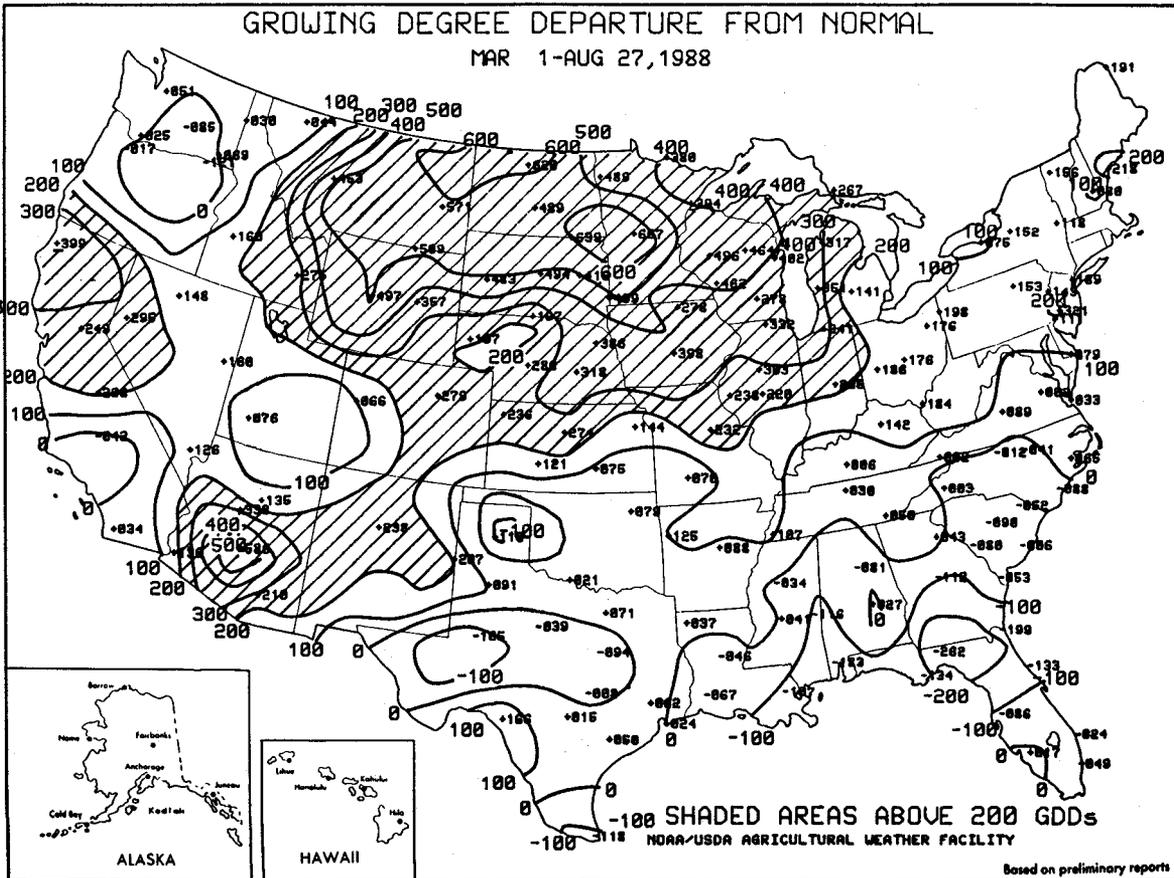
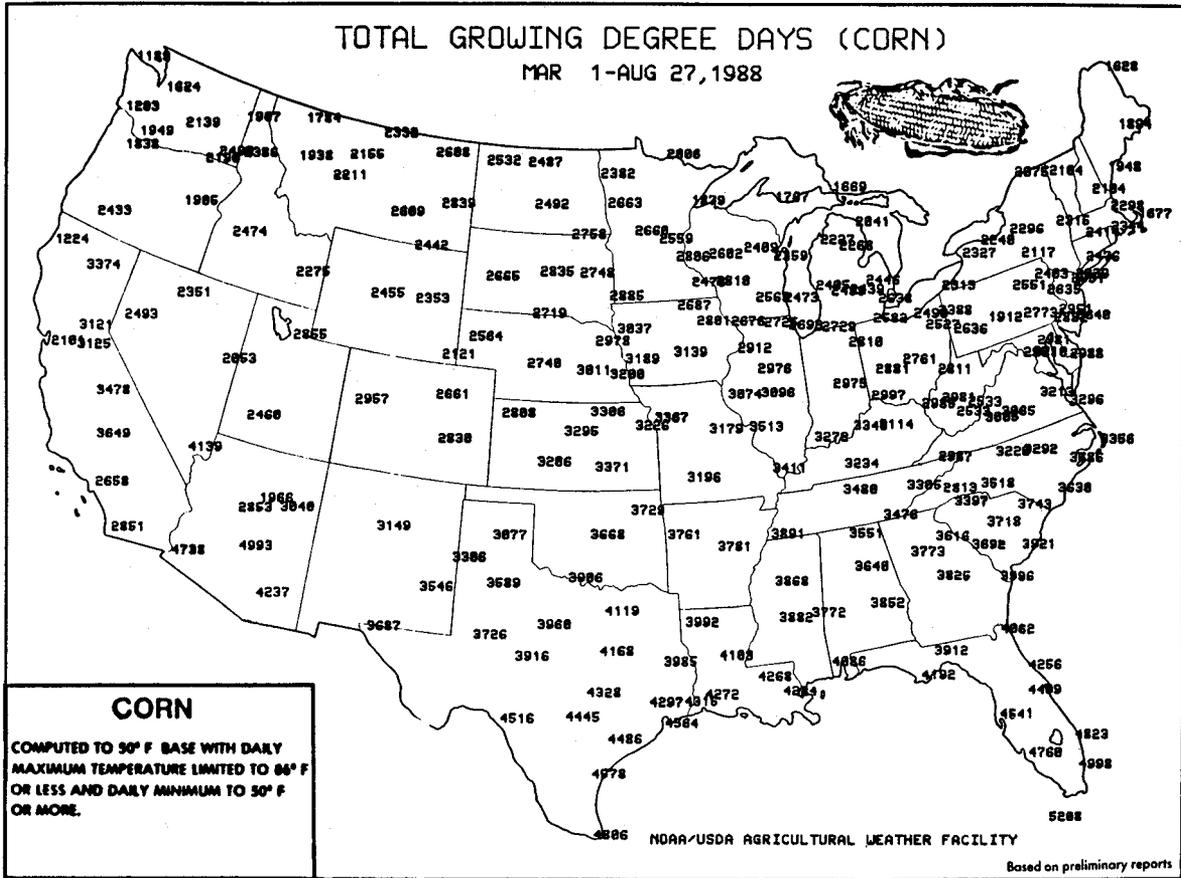
(INDEX VALUES ARE IN TENTHS, EXAMPLE: 37=3.7)



NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports







National Weather Data for Selected Cities

Weather Data for the Week Ending August 27, 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	91	68	94	61	80	1	1.2	.4	1.0	6.4	52	22.0	57	96	47	4	0	2	1
MOBILE	91	72	94	69	82	0	2.2	.7	1.5	18.9	101	42.3	93	99	55	5	0	4	1
MONTGOMERY	92	70	96	65	81	0	.4	-.4	.3	14.0	128	39.7	117	98	51	5	0	3	0
AK ANCHORAGE	60	49	64	44	55	5	1.7	1.2	.6	4.2	86	6.5	78	95	58	0	0	6	1
BARROW	33	29	35	26	31	6	.2	0	-.1	2.6	126	2.8	96	98	86	0	0	2	0
FAIRBANKS	66	48	73	40	57	3	.5	-.1	-.2	5.0	105	7.2	104	92	47	0	7	5	0
JUNEAU	59	49	64	45	54	0	.9	-.3	.8	10.1	88	29.4	103	98	77	0	0	2	0
KODIAK	60	47	67	42	54	0	4.3	3.1	1.8	12.2	103	46.9	132	98	72	0	0	4	1
NOME	56	42	62	28	49	1	.1	0	0	1.1	84	9.1	99	94	63	0	0	4	3
AZ PHOENIX	101	82	106	77	92	2	.2	-.4	.7	5.1	84	9.1	99	94	63	1	1	5	1
PRESCOTT	83	62	90	57	72	3	.2	0	.2	1.2	87	3.6	85	70	35	7	0	1	0
TUCSON	97	72	100	70	84	1	2.1	1.7	1.4	8.3	121	12.6	98	88	49	1	0	5	2
YUMA	101	82	107	79	91	0	.1	-.1	-.1	11.9	7.9	111	94	38	7	0	5	2	
AR FORT SMITH	101	70	104	66	86	6	.1	-.7	-.7	.7	132	1.7	120	83	42	7	0	1	0
LITTLE ROCK	95	73	97	71	84	4	.1	-.7	-.7	11.7	119	26.9	81	76	49	7	0	0	0
CA BAKERSFIELD	98	71	105	64	85	3	0	0	0	T	33	3.0	79	59	25	7	0	0	0
EUREKA	64	53	69	51	58	1	0	-.1	0	2.3	248	15.9	70	93	75	0	0	0	0
FRESNO	99	69	106	64	84	6	0	0	0	T	87	5.5	79	65	19	7	0	0	0
LOS ANGELES	77	65	83	60	71	0	0	0	0	T	20	4.6	55	87	58	0	0	1	0
REDDING	104	66	110	62	85	5	0	-.2	0	T	27	5.5	79	65	19	7	0	0	0
SACRAMENTO	98	61	105	58	80	0	0	0	0	1.7	123	16.9	67	60	13	7	0	0	0
SAN DIEGO	79	67	84	64	73	2	0	0	0	T	118	6.9	65	73	16	6	0	0	0
SAN FRANCISCO	78	56	93	55	67	4	0	0	0	T	0	6.7	102	91	60	0	0	0	0
CO DENVER	87	60	95	58	74	4	.2	-.1	.2	5.3	111	12.5	109	80	28	3	0	2	0
GRAND JUNCTION	90	62	95	59	76	2	.9	-.7	.8	1.8	106	5.9	117	77	26	4	0	2	1
PUEBLO	93	61	100	57	77	7	.1	-.4	-.4	4.9	106	9.3	112	72	22	6	0	1	0
CT BRIDGEPORT	76	61	83	52	68	3	1.4	.6	1.3	10.9	114	23.8	89	86	55	0	0	2	1
HARTFORD	76	53	86	42	65	5	1.6	.6	1.6	10.9	110	26.1	93	93	46	0	0	2	1
DC WASHINGTON	86	67	92	62	77	0	.1	-.9	0	6.2	56	20.7	78	91	43	2	0	2	0
FL APALACHICOLA	89	75	91	73	82	1	.8	-.1	.5	24.7	133	45.8	127	96	65	5	0	5	0
DAYTONA BEACH	93	74	96	73	84	3	2.6	1.1	1.6	9.6	55	24.7	78	96	55	6	0	5	1
JACKSONVILLE	92	74	96	73	83	2	4.6	2.8	2.9	16.5	87	36.3	100	94	55	5	0	4	2
KEY WEST	90	79	92	74	85	0	1.4	.3	1.0	15.8	126	31.5	140	86	62	5	0	4	1
MIAMI	91	77	92	72	84	1	1.4	-.3	1.4	28.6	136	38.6	104	88	56	7	0	3	1
ORLANDO	92	75	95	73	84	1	3.8	2.4	1.2	20.6	99	36.0	101	95	57	5	0	5	3
TALLAHASSEE	91	71	96	69	81	0	1.7	.1	1.4	14.3	66	36.6	79	99	57	5	0	4	1
TAMPA	91	76	93	71	84	1	2.3	.6	1.1	18.2	94	29.6	89	94	58	6	0	4	2
WEST PALM BEACH	91	76	92	75	83	1	.1	-.3	.1	31.0	165	53.5	148	95	55	6	0	2	0
GA ATLANTA	88	69	92	65	79	1	1.2	.5	1.0	10.1	91	28.4	82	91	51	2	0	3	1
AUGUSTA	90	69	95	61	80	0	.7	-.2	.4	9.1	78	26.5	84	96	52	5	0	2	0
MACON	91	71	94	63	81	1	1.5	.8	1.3	9.7	85	28.4	87	99	54	5	0	4	1
SAVANNAH	92	74	94	71	83	2	1.8	.4	1.1	11.7	62	29.9	81	97	52	6	0	4	1
HI HILO	83	67	84	64	75	-.1	.6	-.6	.2	26.6	112	80.6	97	86	59	0	0	3	0
HONOLULU	90	72	91	70	81	0	0	-.1	0	.5	30	7.2	51	84	42	5	0	0	0
KAHULUI	86	67	87	63	76	-.2	.1	0	.1	.5	59	12.7	104	82	53	0	0	1	0
LIHUE	84	72	85	70	78	-.1	.3	-.2	.1	5.2	100	24.7	95	88	62	0	0	2	0
ID BOISE	90	52	100	44	71	1	0	-.1	0	.6	40	6.9	92	46	13	3	0	0	0
LEWISTON	93	58	103	50	76	5	0	-.2	0	2.6	101	6.8	80	44	13	5	0	0	0
IL CHICAGO	89	48	98	36	69	2	0	-.1	0	.6	29	4.6	64	52	13	3	0	0	0
MOLINE	78	60	84	54	69	-.1	.6	-.3	.4	7.1	67	15.7	68	84	38	0	0	2	0
PEORIA	80	59	87	52	70	-.2	3.4	2.6	1.8	7.9	63	16.7	64	96	49	0	0	3	2
QUINCY	83	60	90	53	72	0	1.2	.4	.6	3.0	28	11.9	49	90	39	1	0	2	2
ROCKFORD	85	62	92	54	73	0	1.4	.5	.9	5.8	49	12.1	46	92	43	2	0	3	1
SPRINGFIELD	79	59	86	52	69	-.1	.2	-.6	.2	4.8	39	14.3	56	91	43	0	0	2	0
IN EVANSVILLE	84	60	90	55	72	-.1	.6	-.2	.5	3.9	39	13.2	55	97	41	1	0	3	0
FORT WAYNE	78	57	83	52	68	-.2	.4	-.2	.4	10.2	101	23.4	80	95	44	0	0	1	0
INDIANAPOLIS	83	60	87	56	72	0	1.5	.8	1.2	11.0	111	22.3	93	94	48	0	0	2	1
SOUTH BEND	76	58	79	54	67	-.2	.9	0	.6	7.4	67	18.9	74	93	46	0	0	2	1
IA DES MOINES	83	60	92	53	72	0	2.6	1.7	2.2	10.6	97	14.4	64	92	39	1	0	3	1
SIOUX CITY	82	57	93	49	70	-.1	3.3	2.6	3.2	8.6	86	15.4	80	91	40	1	0	3	1
WATERLOO	80	56	89	49	68	-.1	1.8	1.0	1.6	7.7	63	13.5	56	93	40	0	0	3	1
KS CONCORDIA	91	63	100	54	77	2	.1	-.7	.1	6.5	62	12.3	61	77	30	5	0	1	0
DODGE CITY	95	65	100	54	80	3	.1	-.4	.1	3.2	39	11.4	72	77	26	6	0	1	0
GOODLAND	90	59	100	51	74	3	.4	0	.4	8.8	130	17.8	141	83	28	4	0	1	0
TOPEKA	93	60	101	49	76	1	T	-.8	T	6.2	50	15.5	65	94	32	5	0	1	0
WICHITA	96	69	104	63	83	4	.1	-.5	.1	3.9	39	14.3	72	81	26	6	0	2	0
KY BOWLING GREEN	86	64	91	60	75	-.1	.6	-.2	.6	8.6	73	22.9	67	97	48	1	0	1	1
LEXINGTON	84	63	88	58	74	0	1.0	.2	1.0	7.6	60	21.9	67	90	43	0	0	1	1
LOUISVILLE	86	66	89	63	76	1	.8	.1	.8	8.1	77	24.8	82	85	41	0	0	1	1
LA ALEXANDRIA	93	74	95	71	83	1	.8	-.1	.7	10.7	88	29.1	79	93	53	6	0	2	1
BATON ROUGE	93	73	95	71	83	2	2.4	1.4	1.2	20.7	141	51.8	132	97	53	6	0	2	2
LAKE CHARLES	93	74	94	71	83	2	1.6	.4	1.2	19.3	137	40.1	115	98	56	7	0	2	1
NEW ORLEANS	91	73	94	71	82	1	.4	-.9	.2	24.7	148	59.5	145	100	60	5	0	2	0

Based on 1951-80 normals

Weather Data for the Week Ending August 27, 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
SHREVEPORT	95	74	96	70	84	2	.7	.1	.5	6.7	73	20.1	67	95	50	7	0	0	0
ME CARIBOU	66	47	77	38	56	1.4	1.5	-.7	1.3	10.6	99	21.0	91	99	60	0	0	0	
PORTLAND	70	52	77	43	61	1.1	2.0	1.3	1.3	11.3	137	26.4	99	96	64	0	0	0	
MD BALTIMORE	84	64	89	59	74	0	.6	-.4	.5	6.4	54	22.0	78	93	44	0	0	0	
SALISBURY	84	65	90	59	75	1	.7	-.6	.7	12.0	92	32.0	105	98	48	1	1	1	
MA BOSTON	75	59	86	53	67	1.3	.3	-.6	.3	9.6	110	23.9	86	87	53	0	0	0	
CHATHAM	70	57	78	53	64	1.3	.8	-.1	.8	7.8	84	23.1	78	89	74	0	0	0	
MI ALPENA	71	50	75	41	60	1.1	1.1	-.4	.5	7.8	88	17.3	90	100	57	0	0	0	
DETROIT	76	57	80	52	67	1.3	.4	-.3	.2	6.6	71	13.4	63	91	45	0	0	0	
FLINT	74	53	77	47	64	1.4	.9	-.2	.6	8.4	94	15.6	78	95	51	0	0	0	
GRAND RAPIDS	75	55	79	51	65	1.3	.6	1.1	7.0	75	16.8	77	94	50	0	0	0		
HOUGHTON LAKE	71	53	74	46	62	1.3	.6	0	.3	7.5	87	15.4	83	94	54	0	0	0	
LANSING	74	53	77	47	63	1.4	.9	-.2	.7	7.9	87	15.4	83	94	54	0	0	0	
MARQUETTE	68	50	74	43	59	1.1	1.1	-.4	.4	10.7	109	22.2	91	96	58	0	0	0	
MUSKIEGON	75	59	82	55	67	0	.9	-.2	.9	5.2	69	16.0	81	85	50	0	0	0	
SAULT ST. MARIE	67	50	75	44	58	1.3	1.8	1.0	1.0	7.4	80	18.0	88	98	65	0	0	0	
MN ALEXANDRIA	76	56	82	51	66	1.1	.7	-.1	.7	10.7	105	16.2	89	87	41	0	0	0	
DULUTH	67	52	73	47	60	1.2	1.2	.3	.3	12.5	109	20.3	98	96	60	0	0	0	
INT'L FALLS	69	53	77	47	61	1.0	1.0	.4	.7	13.8	138	17.5	104	98	59	0	0	0	
MINNEAPOLIS	77	58	81	50	68	1.1	.5	-.3	.3	5.7	53	11.9	62	86	42	0	0	0	
ROCHESTER	76	53	83	44	65	1.1	.8	0	.6	5.5	52	13.2	66	92	43	0	0	0	
MS GREENWOOD	92	71	95	62	82	2	.3	-.3	.3	4.4	43	17.2	47	93	52	6	0	0	
JACKSON	91	71	96	65	81	1	1.5	.7	1.3	5.8	53	25.0	69	100	53	6	0	0	
MERIDIAN	91	70	95	65	80	0	1.3	.6	1.2	8.4	71	27.7	74	100	54	5	0	0	
MO CAPE GIRARDEAU	86	64	93	56	75	0	.7	-.1	.6	4.6	45	19.0	62	96	38	5	0	0	
COLUMBIA	91	64	102	55	77	1	1.2	.3	.3	6.9	72	19.2	76	92	44	2	0	0	
KANSAS CITY	87	68	92	64	78	2	1.4	.9	1.1	4.9	41	12.7	51	86	34	5	0	0	
SAINT LOUIS	88	66	93	62	77	2	1.4	.9	.9	7.3	76	20.2	85	88	41	3	0	0	
SPRINGFIELD	88	66	93	62	77	2	3.4	2.7	3.4	15.1	143	32.7	124	96	50	2	0	0	
MT BILLINGS	85	53	95	48	69	1	1	-.3	T	.6	16	6.1	57	53	16	1	0	0	
GLASGOW	81	51	93	45	66	1	1	-.3	T	3.3	62	5.9	68	61	22	1	0	0	
GREAT FALLS	81	48	90	43	64	1	2	-.1	.2	3.5	72	7.5	65	69	23	1	0	0	
HAVRE	81	46	91	36	64	3	3	-.3	T	2.7	59	3.8	42	64	21	1	0	0	
HELENA	85	49	94	43	67	3	3	-.3	T	1.9	46	6.3	72	59	16	2	0	0	
KALISPELL	83	43	92	37	63	1	1	-.3	T	2.7	62	9.0	85	87	21	2	0	0	
MILES CITY	83	54	97	44	69	1	1	-.3	T	.9	18	2.3	21	57	18	1	0	0	
MISSOULA	87	45	96	37	66	2	0	-.2	0	2.5	72	8.7	95	69	17	3	0	0	
NE GRAND ISLAND	86	57	94	48	71	1	1	-.5	0	11.1	130	16.9	95	87	33	2	0	0	
LINCOLN	88	57	96	48	73	1	2	-.6	.1	4.1	41	10.5	51	90	35	4	0	0	
NORFOLK	84	55	94	45	70	1	2	-.7	.7	8.3	85	17.2	93	91	34	1	0	0	
NORTH PLATTE	86	56	95	46	71	0	0	-.4	T	10.1	121	16.8	108	91	37	1	0	0	
OMAHA	84	61	93	55	73	1	1	-.9	.9	6.9	62	15.0	68	82	42	1	0	0	
SCOTT'SBLUFF	86	54	97	46	70	1	2	0	1	3.9	69	13.4	115	84	26	2	0	0	
VALENTINE	85	52	91	45	68	2	1	-.1	.1	8.9	120	17.3	126	67	23	3	0	0	
NV ELY	86	50	90	43	68	5	1	0	1	2.2	113	6.0	96	79	26	3	0	0	
LAS VEGAS	99	75	106	70	87	1	2	-.1	.2	4	40	2.1	77	74	28	7	0	0	
RENO	97	57	98	53	77	11	1	-.1	T	.8	108	2.4	50	59	14	7	0	0	
WINNEMUCCA	96	53	99	48	75	8	0	-.1	0	.7	53	4.3	83	31	9	7	0	0	
NH CONCORD	71	47	81	38	59	6	8	-.1	.8	10.8	123	22.4	97	99	50	0	0	0	
NJ ATLANTIC CITY	82	61	88	50	71	1	1.7	-.3	.6	7.7	70	21.7	77	98	50	0	0	0	
NM ALBUQUERQUE	86	65	93	59	76	1	1.3	1.0	1.1	6.5	57	9.6	184	82	38	1	0	0	
CLOVIS	88	67	93	61	78	3	.5	0	.3	9.2	119	16.0	133	85	39	2	0	0	
ROSWELL	94	70	98	65	82	5	T	-.5	T	6.0	132	11.4	166	76	28	7	0	0	
NY ALBANY	75	50	84	41	62	5	1.0	.2	.6	6.7	74	18.5	80	100	51	0	0	0	
BINGHAMTON	73	52	81	42	63	3	1.5	.7	.7	7.9	80	21.5	89	94	46	0	0	0	
BUFFALO	75	56	81	46	65	2	.9	-.1	.7	9.3	99	23.6	100	92	44	0	0	0	
NEW YORK	78	65	86	60	72	2	1.4	.5	1.4	10.9	103	25.6	91	88	49	0	0	0	
ROCHESTER	75	53	81	44	64	4	1.8	1.0	1.3	7.7	94	16.3	79	94	46	0	0	0	
SYRACUSE	76	51	83	43	64	4	2.0	1.2	.8	10.5	98	21.6	85	97	46	0	0	0	
NC ASHEVILLE	83	60	89	53	72	0	T	1.0	T	5.0	44	15.4	51	100	48	0	0	0	
CHARLOTTE	88	69	91	67	79	2	.1	-.8	.1	7.3	68	19.6	65	89	44	4	0	0	
GREENSBORO	87	66	90	62	77	1	.8	-.1	.7	8.8	75	20.8	71	97	45	2	0	0	
HATTERAS	83	73	86	71	78	0	2.6	1.2	1.8	10.3	68	30.5	87	97	69	0	0	0	
NEW BERN	88	73	90	71	80	2	1.9	.5	1.9	19.5	112	39.7	108	94	60	3	0	0	
RALEIGH	88	66	92	62	77	1	1.1	.1	.9	7.0	59	20.7	71	97	47	3	0	0	
WILMINGTON	88	71	90	69	80	1	1.2	-.3	1.1	22.5	119	45.0	120	96	62	3	0	0	
ND BISMARCK	82	48	93	40	65	2	.1	-.3	.1	4.9	76	8.1	68	80	23	1	0	0	
FARGO	82	55	89	46	68	1	1	-.4	.2	3.9	44	8.6	59	84	31	0	0	0	
GRAND FORKS	81	50	89	42	66	1	T	-.6	T	6.0	74	8.9	66	79	28	0	0	0	
WILLISTON	80	49	91	45	65	2	T	-.3	T	4.4	77	7.5	73	70	22	1	0	0	
OH AKRON-CANTON	77	55	82	49	66	2	1.3	.6	1.0	8.4	83	19.1	76	97	48	0	0	0	
CINCINNATI	84	61	86	57	73	1	.6	0	.6	10.0	91	27.0	96	87	37	0	0	0	
CLEVELAND	78	57	82	52	67	2	2	-.4	-.3	6.4	66	17.3	72	93	45	0	0	0	
COLUMBUS	81	58	84	55	69	2	.7	-.1	.7	11.0	98	24.4	92	93	45	0	0	0	

Weather Data for the Week Ending August 27, 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	TEMPERA- TURE °F		PRECIPI- TATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	82	60	86	56	71	-1	1.8	1.2	1.2	7.7	79	19.7	79	85	35	0	0	3	2
TOLEDO	78	55	81	51	67	-2	.9	.2	.8	8.9	95	15.9	73	93	48	0	0	2	1
YOUNGSTOWN	77	51	82	39	64	-4	.9	.7	.7	7.6	72	18.7	73	97	43	0	0	3	1
OK OKLAHOMA CITY	97	72	102	67	84	4	.1	.5	.1	6.9	77	20.7	95	78	30	7	0	1	0
TULSA	97	72	100	67	85	5	.3	.5	.2	5.8	55	18.8	72	85	31	7	0	3	0
OR ASTORIA	72	49	88	42	61	1	T	.4	T	5.3	109	31.4	82	97	63	0	0	0	0
BURNS	88	42	98	37	65	0	0	.1	0	1.2	98	4.9	80	49	12	3	0	0	0
MEDFORD	99	53	104	50	76	6	T	.1	T	1.0	82	6.8	63	73	14	7	0	1	0
PENDLETON	89	56	94	48	72	2	0	.1	0	.3	23	7.3	99	44	17	4	0	0	0
FORTLAND	89	54	101	40	50	2	0	.3	0	.3	23	7.3	99	44	17	4	0	1	0
SALEM	91	47	102	41	69	4	0	.2	0	2.0	111	19.5	93	91	27	3	0	0	0
PA ALLENTOWN	80	56	86	46	68	-3	1.6	.6	1.0	10.0	87	27.3	94	98	52	0	0	0	0
ERIE	76	57	82	50	66	-2	1.4	.5	1.2	7.5	70	20.2	81	87	44	0	0	4	1
HARRISBURG	81	59	87	50	70	-3	1.0	.2	.5	8.5	87	24.4	94	96	49	0	0	3	1
PHILADELPHIA	83	62	89	54	73	-1	1.7	.8	1.5	11.6	103	27.3	98	96	48	0	0	2	1
PITTSBURGH	80	57	88	50	69	-1	.6	.1	.5	5.4	53	17.7	68	87	45	0	0	2	1
SCRANTON	77	55	85	44	66	-3	.8	0	.7	9.4	97	22.0	96	90	42	0	0	3	0
RI PROVIDENCE	77	57	84	47	67	-3	.8	.1	.8	7.5	80	25.5	88	95	53	0	0	1	1
SC CHARLESTON	90	73	94	72	82	2	2.4	1.0	2.3	13.6	69	25.6	68	98	57	4	0	3	1
COLUMBIA	93	71	96	65	82	3	.4	.8	.4	9.2	63	22.4	63	94	44	7	0	1	0
FLORENCE	92	71	94	67	81	2	1.5	.5	1.3	11.1	77	24.0	75	98	47	6	0	3	1
GREENVILLE	90	66	94	60	78	1	1	.2	.2	7.7	63	22.5	64	96	43	5	0	1	0
SD ABERDEEN	82	56	91	40	69	1	2	.2	.2	7.6	104	12.1	87	73	27	2	0	1	0
HURON	82	51	91	42	66	-3	.2	.2	.1	4.4	60	13.8	96	87	30	1	0	3	0
RAPID CITY	86	53	92	44	70	0	T	.3	T	3.5	53	8.4	63	56	16	3	0	1	0
SIOUX FALLS	80	56	90	47	68	-2	1.9	1.2	1.6	5.4	60	12.3	70	91	36	1	0	4	1
TN CHATTANOOGA	89	66	92	60	78	0	.5	.3	.3	10.6	98	26.9	75	96	45	4	0	2	0
KNOXVILLE	89	64	93	56	76	0	.1	.6	.1	7.3	67	21.7	66	98	45	3	0	1	0
MEMPHIS	94	73	97	68	84	4	.6	.3	.6	8.2	76	25.4	71	87	45	7	0	1	1
NASHVILLE	92	67	95	61	80	2	.2	.6	.2	6.0	58	17.9	53	94	43	6	0	1	0
TX ABILENE	99	72	101	64	86	4	0	.6	0	6.7	100	12.7	82	69	25	7	0	0	0
AMARILLO	90	64	96	59	77	1	1.4	.8	.8	10.0	115	19.9	137	87	34	5	0	3	2
AUSTIN	100	76	104	73	88	4	0	.6	0	7.0	105	15.7	79	91	33	7	0	0	0
BEAUMONT	93	75	95	73	84	2	1.2	.1	.7	14.6	93	31.7	87	99	56	7	0	3	1
BROWNSVILLE	93	76	95	74	84	1	.2	.6	.2	6.3	97	13.5	100	98	56	7	0	1	0
CORPUS CHRISTI	97	75	100	73	86	2	0	.1	T	4.8	52	9.2	49	98	47	7	0	1	0
DEL RIO	96	75	99	69	86	1	0	.4	0	8.4	177	10.3	97	75	33	7	0	0	0
EL PASO	94	68	96	66	81	1	.3	0	.2	6.2	194	7.6	162	90	34	7	0	3	0
FORT WORTH	103	78	106	74	90	7	.1	.4	.1	5.8	94	14.3	69	74	25	7	0	1	0
GALVESTON	91	81	95	79	86	3	T	.1	T	9.2	84	23.5	96	83	56	7	0	0	0
HOUSTON	97	76	98	72	86	4	.3	.6	.2	8.7	76	18.7	63	95	43	7	0	0	0
LUBBOCK	95	67	98	62	81	4	T	.5	T	4.5	65	9.7	77	80	31	6	0	2	0
MIDLAND	97	67	98	64	82	2	T	.4	T	8.7	194	12.2	139	81	28	7	0	0	0
SAN ANGELO	99	68	100	63	83	2	T	.5	T	4.3	93	10.1	91	84	27	7	0	1	0
SAN ANTONIO	99	76	101	72	87	4	.2	.5	.2	13.1	183	16.9	92	93	34	7	0	1	0
VICTORIA	98	76	99	72	87	4	.2	.8	.2	5.0	50	9.3	41	95	40	7	0	1	0
WACO	103	76	106	71	90	5	T	.5	T	7.3	124	14.4	72	82	28	7	0	1	0
WICHITA FALLS	104	74	106	70	89	6	.1	.5	.1	3.9	60	14.0	80	76	24	7	0	1	0
UT BLANDING	85	60	93	58	73	3	.2	.2	.2	3.1	114	7.7	109	82	42	1	0	1	0
CEDAR CITY	88	58	94	55	73	3	.3	.1	.3	2.9	111	10.2	147	87	31	3	0	2	0
SALT LAKE CITY	91	62	96	55	77	4	0	.2	0	.3	12	6.4	61	58	20	4	0	0	0
VT BURLINGTON	72	51	82	43	62	-4	.9	.1	.3	7.9	76	15.5	71	94	47	0	0	5	0
VA NORFOLK	85	70	92	64	77	1	.2	.1	.1	11.2	84	28.2	92	99	52	1	0	2	0
RICHMOND	88	65	93	59	76	1	.1	.1	.1	12.0	91	26.9	91	97	41	3	0	2	0
ROANOKE	86	62	91	57	74	0	.4	.5	.4	9.2	91	19.5	74	96	43	1	0	1	0
WA QUILLAYUTE	75	49	87	42	62	3	0	.8	0	5.3	68	57.4	97	95	53	0	0	0	0
SEATTLE-TACOMA	81	55	91	51	68	4	0	.3	0	2.3	74	17.0	81	93	42	1	0	0	0
SPOKANE	87	54	98	44	71	4	0	.2	0	1.3	59	8.7	85	58	17	2	0	0	0
YAKIMA	90	47	94	41	68	1	T	.1	T	1.0	99	3.5	74	84	21	4	0	0	0
WV BECKLEY	81	58	87	53	69	2	.3	.6	.2	8.5	71	20.6	69	94	43	0	0	2	0
CHARLESTON	84	61	91	54	72	0	.8	0	.8	6.4	52	18.1	60	98	43	1	0	1	1
HUNTINGTON	84	61	90	59	73	-1	1.1	.3	1.1	10.2	88	22.7	78	96	47	1	0	1	1
PARKERSBURG	82	60	89	55	71	-2	.5	.3	.5	9.7	87	19.9	73	95	45	0	0	1	0
WI GREEN BAY	75	57	81	51	66	0	1.3	.5	.8	6.5	71	12.7	66	97	53	0	0	3	1
LACROSSE	78	57	83	51	68	-2	1.6	.8	1.5	10.2	92	16.3	76	94	42	0	0	2	1
MADISON	77	57	82	52	67	0	1.2	.3	1.1	7.4	68	14.5	67	88	49	0	0	3	1
MILWAUKEE	76	61	83	56	69	0	.8	.1	.8	5.5	56	15.9	75	87	48	0	0	2	1
WAUSAU	73	56	79	49	65	0	1.9	1.0	1.5	8.2	71	13.6	62	94	47	0	0	3	1
WY CASPER	85	48	94	42	67	0	0	.1	0	1.0	36	4.7	56	54	15	1	0	0	0
CHEYENNE	82	53	91	48	68	3	T	.3	T	5.6	110	13.0	124	84	27	1	0	2	0
LANDER	85	53	91	47	69	2	0	.1	0	1.2	49	5.9	61	40	15	2	0	0	0
SHERIDAN	84	48	95	43	66	0	T	.2	T	.9	22	7.5	68	57	17	1	0	0	0
PR SAN JUAN	87	75	90	73	81	-1	6.5	5.1	4.1	16.1	108	40.3	127	95	72	1	0	7	4

Cooling Degree Days Summary

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

LAST DATE OF DATA COLLECTION PERIOD IS 8-27-1988
ACCUMULATIONS ARE FROM JANUARY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

Table with columns: STATE CITY, CALL, WEEK TOTAL, WEEK DEV, WEEK FROM, WEEK TO, CUM TOTAL, CUM DEV, CUM FROM, CUM TO, CUM FROM, CUM TO, CUM FROM, CUM TO. Lists 100+ cities and their cooling degree day data.

National Agricultural Summary

August 22 to 28, 1988

HIGHLIGHTS: Precipitation relieved crop stress in much of the Corn Belt, Delta, and Southeast. Cooler temperatures brought some relief to the northern Great Plains and Corn Belt. Soil moisture was mostly short to adequate, which was slightly improved from the previous week. Fieldwork averaged 5 to 6 days in the eastern half of the Nation and 6 to 7 days in the Western areas.

Winter and spring wheat harvests neared completion. Ground preparation for fall seeding of winter wheat began in the central Great Plains and Delta. Winter wheat seeding has started. Corn condition was mostly poor to fair. Corn harvest for grain continued in Texas and the South, while in other areas silage cutting was in progress. Twenty percent of the crop was mature, 8 percentage points behind 1987 but 7 points ahead of the 5-year average. Soybean condition remained mostly fair. Setting pods was on schedule when compared with normal. Seven percent (%) of the acreage was dropping leaves, 3 points behind last year but 4 points ahead of normal. Cotton boll opening was on schedule at 23% completion but was 10 points behind last year. Harvest resumed in Texas after rain delays the previous week. Sorghum heading neared completion except in Kansas and Oklahoma. Forty-seven percent of the acreage turned color, just slightly ahead of normal. Rice was 17% harvested, trailing 5 points behind the average.

SMALL GRAINS: Spring wheat harvest neared completion in North Dakota, 27 points ahead of the 72% average. Montana's harvest was 85% finished, 20 points ahead of normal. In Idaho, harvest reached 79% completion. Winter wheat harvest remained on schedule in Oregon. Harvest in Washington was nearly complete. Ground preparation for fall seeding of wheat began in Kansas. In Utah, Colorado, Wyoming, and Arkansas winter wheat seeding was underway. Twenty percent of the acreage was seeded in Minnesota, compared with 14% normally. In Washington, small grain planting continued, but most areas awaited additional moisture.

CORN: Corn was mostly poor to fair. Ninety-four percent of the acreage reached the dough stage, 3 points behind 1987, but 7 points ahead of normal. Seventy percent of the acreage was dented, 10 points behind last year but 17 points ahead of normal.

SOYBEANS: Soybean condition remained mostly fair, unchanged from the previous week. Ninety-six percent of the acreage reached blooming, only 1 point behind normal. Pod setting was 89% complete which was normal. Seven percent were dropping leaves, slightly behind last year but 4 points ahead of normal. Ohio producers continued to battle spider mites and velvetleaf weeds. Slightly more than one-fifth of the acreage dropped leaves in Minnesota, 20 points ahead of normal. Iowa reported 16% dropping leaves, which was 15 points ahead of normal. Aerial blight problems increased in the Southwest. In Louisiana and Tennessee, insect problems increased.

SORGHUM: Sorghum was mostly fair to good. Ninety-three percent was headed compared with 95% in 1987 and the 89% year average. Forty-seven percent of the crop was turning color, 2 points ahead of normal but 9 points behind last year. Harvest was virtually complete in central Texas and winding down in east Texas. Harvest continued in South

Carolina, Arkansas, Alabama, Louisiana, and North Carolina.

COTTON: Cotton was mostly good to fair in most growing areas. Twenty-three percent of the acreage was opening bolls, 10 points behind last year but equaled the average. Boll opening in Alabama was 35% finished, 17 points ahead of normal, while in South Carolina only 9% were open, 22 points behind normal. In Texas, harvest increased after heavy rains in the Rio Grande Valley. Harvest at Coastal Bend was mostly complete with stalk destruction underway. Dryland fields in the High Plains showed signs of stress from lack of moisture. In Arizona, the crop was mostly good to excellent. High winds and rain caused some lodging in both Arizona and California. Cooler weather caused some rust problems in the southeast area of Arizona. Harvest was underway in Arizona. In California, growers continued applying insecticides. Cotton defoliation continued in the southeastern interior of California. Growers in Mississippi also began applying defoliants. Arkansas producers picked the first bale shortly after mid-August.

OTHER FIELD CROPS: Rice was 89% headed, 7 points behind last year and 1 point behind normal. Rice harvest was 17% complete, 7 and 5 points behind last year and normal, respectively. Harvest continued in Texas after rain delays. Fields in the Sacramento Valley, California were drained to prepare for harvest. Plantings in the Central Valley continued heading. Insects and birds damaged rice in Arkansas.

Peanut harvest began in Alabama, Georgia, and Texas and continued in South Carolina. The crop was mostly in good condition. Dryland peanuts in Texas were under stress due to high temperatures.

In Florida, tobacco harvest was finished. Flue-cured harvest tobacco continued lagging behind normal in the Southeast. Harvest trailed behind normal in the Burley Belt.

FRUITS AND NUTS: In Florida, daily rains kept citrus trees in good condition with new growth apparent in all areas. Fruit sized well. In Texas, pecan harvest was expected to start soon. Trees dropped nuts in many areas due to lack of rainfall. Avocado and prune harvests neared completion in California. Wine grape harvest was still active and raisin grape drying continued. Bartlett and Asian pear harvests were in progress. Growers prepared for walnut and pistachio harvests. Spraying for insect control continued.

VEGETABLES: Wet conditions slowed planting and ground preparation in Florida. Celery, cucumbers, eggplant, peppers, squash, strawberries, and tomatoes were planted. In Texas, planting resumed as fields dried in the Rio Grande Valley. East Texas sweetpotatoes and High Plains vegetable harvests continued. Some potato fields were plowed under because of the low market price. Harvest in California of artichokes, broccoli, cauliflower, celery, lettuce, and onions continued. Lettuce suffered from heat in the Salinas area.

PASTURES AND LIVESTOCK: Pasture condition remained mostly poor to fair. Livestock was in mostly fair to good condition. Cooler temperatures improved livestock condition in the northern Plains and much of the Midwest and Northeast.

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 mostly under 1.00 in.; 3.00 to 4.00 in. local areas northeast. Temperatures averaged 2 to 4° above normal extreme north; 1° above normal elsewhere.

Days suitable for fieldwork 5.7. Soil moisture 12% very short, 64% short, 19% adequate, 5% surplus. Scattered showers provided some relief isolated areas; continued hot, dry weather slowed crop progress, development most areas. Soybeans 83% blooming, 81% 1987, 90% avg.; 60% setting pods, 61% 1987, 71% avg.; 13% turning yellow, 12% 1987, 9% avg.; 5% dropping leaves, 1% 1987; 2% poor, 47% fair, 51% good. Corn 97% dented, 100% 1987, 99% avg.; 78% mature, 90% 1987, 87% avg.; 48% harvested, 48% 1987, 41% avg.; 19% very poor, 27% poor, 46% fair, 8% good. Cotton 35% bolls opened, 27% 1987, 18% avg.; 10% very poor, 38% poor, 33% fair, 18% good, 1% excellent. Sorghum 30% harvested, 17% 1987, 17% avg.; 6% very poor, 3% poor, 63% fair, 25% good, 3% excellent. Peanuts 1% dug, 1% 1987, 1% avg.; 12% fair, 62% good, 26% excellent. Livestock, pastures mostly fair to good. Feed supplies from pastures 2% very short, 40% short, 56% adequate, 2% surplus. Hay, roughage supplies 3% very short, 61% short, 36% adequate. Primary activities: Harvesting corn, sorghum, hay, vegetables, peaches; controlling insects, diseases in row crops; repairing, maintaining harvest equipment; clipping pastures; preparing winter grazing land; routine care of livestock, poultry.

ALASKA: Harvesting active under varied weather conditions. Temperature lows ranged normal to 6° warmer than normal. Highs ranged 3° below normal to 3° warmer than normal. Seasonal precipitation totals ranged 2.19 in. drier than normal to 3.82 in. wetter than normal.

Days suitable for haying or harvest of small grains 3.0. Topsoil moisture supplies 11% short, 88% adequate, 1% surplus. Subsoil moisture supplies 10% short, 88% adequate, 2% surplus. Second crop hay harvest nearly 40%, comparable with 1987. Barley for grain 70% harvested, 40% 1987. Commercial potato harvest for early market, seed continued. Potato harvest 1 week ahead of 1987. Commercial vegetable harvest continued.

ARIZONA: Monsoons continued 21st, numerous heavy showers, thunderstorms. Heaviest rainfall west, between 1.00 to 3.00 in. Less activity 22nd, confined to White Mountains, Mogollon Rim. Early afternoon 23rd, intense thunderstorms east, north; locally heavy rain, 1.00 to 2.00 in. South central, wind gusts 64 mph, hail 1.00 in. in diameter. Scattered showers, thunderstorms 24th to 26th; local amounts 1.00 to 2.00 in., minor flooding, wind damage. Activity wide spread 27th. Rainfall amounts for period 0.75 to 2.50 in. Average temperatures 1° below normal to 3° above.

Cotton crop mostly good to excellent. Gusty winds caused lodging some areas. Whiteflies, pink bollworms increased west. Limited boll loss in pima cotton stands west. Defoliation gradually increased, favorable yields expected, most growers applied final irrigations west. Rain damage scattered, lodging open bolls most severe problem. Rains caused lodging central. Cool weather contributed to cotton rust problems southeast. Statewide 70% fields opening bolls, 3% harvested. Alfalfa hay susceptible to rains, cured lost due to rains. Rain damage central is expected to decrease yield. South central fields plagued by weeds. Hay, roughage supplies 13% short, 87% adequate

statewide. Lemons harvested, packed small scale west. Citrus groves good; new crop fruit sizing, developing normally. Planting, irrigation fall lettuce, cauliflower. Land preparation later plantings fall vegetables progressed. Growers dried, shipped raisins. Cantaloupe, honeydew melon harvest continued Aguila. Watermelons harvested Salt River Valley. Apple harvest, packing continued east. Green chili, assorted vegetable harvest progressed. Planting, replanting fall lettuce continued.

ARKANSAS: Continued hot with widely scattered showers. Most rainfall amounts less than 1.00 in. Temperature extremes 55°; 105°. Rainfall totals none to 1.99 in.

Days suitable for fieldwork 6.0. Soil moisture supplies 81% short, 19% adequate. Main farming activities: Harvesting hay, corn; irrigation; applying pesticides, fertilizers; preparing for harvest of row crops; harvesting fruits; preparing land for fall seedings. First bale of cotton harvested 18th Craighead County. Rice 20% ripe, 31% 1987, 22% avg. Rice affected by diseases, insects, black birds. Soybeans 2% yellowing, 5% 1987, 4% avg. Frog eye leaf spot disease on late planted beans. Sorghum 23% mature, 70% 1987. Sorghum 2% harvested, 35% 1987, 24% avg. Corn 20% harvested, 50% 1987, 41% avg. Peach harvest neared completion. Hay, roughage supplies 7% very short, 82% short, 11% adequate. Pastures, ranges 33% poor, 59% fair, 8% good. Livestock fair. Some poultry losses due to heat stress Lafayette County. Stockwater supplies 44% short, 56% adequate.

CALIFORNIA: Hot late August. Central valley 3 to 5° above normal. Rain confined to desert thunderstorms.

Dry bean harvest started some Sacramento, San Joaquin Valley areas. Silage corn harvest full swing, field corn stands neared maturity central valley area. Cotton defoliation continued southeastern interior. Thundershowers, wind caused some early boll rot, lodging. Fields other areas looked good. Opening bolls delayed some central valley areas cool morning temperatures. Growers continued apply insecticides. Wheat, barley harvesting moved towards completion central valley, northeastern interior. Alfalfa hay cut, baled, some 3rd cutting put up northern counties. Hay cut Palo Verde Valley, suffered storm damage. Rice fields Sacramento Valley drained in preparation for harvest. Plantings central valley continued head out. Safflower harvest active. Few fields neared completion Sacramento Valley. Sugarbeet fields dug Sacramento, San Joaquin Valleys. Some central valley fields treatment worms, mildew. Apple picking continued. Avocado harvest neared completion. Date harvest started. Drying raisin grapes continued. Table grape harvest progressed. Wine grape harvest active. Nectarines, peaches, plums packed. Prune harvest neared completion. Bartlett, asian pear harvests active. Pomegranate harvest started. Harvesting of figs continued. Valencia oranges, grapefruit movement slow. Almond harvest gained momentum. Growers preparing for walnut, pistachio harvests. Spraying for insect control continued. Artichokes light, good quality Castroville. Broccoli moderate Salinas, heavy Santa Maria; quality good. Cauliflower fairly heavy, variable quality Salinas, moderate Santa Maria, good quality. Carrots dug Salinas, good quality. Central coast celery moderate, good quality. Salinas lettuce suffering heat related

problems including tip burn, seeding, mosaic; quality very variable; supplies moderate. Santa Maria lettuce moderate, good quality. Melons harvested Merced-Atwater, Riverside, Sacramento Valley, Westside. Onion harvest completed Riverside, very active Westside. Potato harvest nearly completed Riverside, below normal yields; fields normal Tulelake. Sweetpotatoes dug Merced-Atwater. Sweet corn harvest active Kern-Tulare, Sacramento Valley, Westside areas. Fresh market processing tomatoes harvested Sacramento Valley, Merced-Atwater, Westside. Livestock generally good. Non-irrigated rangeland, pasture dry, poor San Joaquin, Sacramento Valley, mountain areas. Supplemental feeding central valley. Cattle movement heavy Redding. Water supplies low to very low most areas. Hay, roughage supplies 15% short, 85% adequate.

COLORADO: High pressure continued over southern Great Plains brought steady flow of moisture over State. Precipitation ranged none to 0.90 in. Average temperature normal to 5° above normal.

Days suitable for fieldwork 6.1. Soil moisture 9% very short, 52% short, 37% adequate, 2% surplus. Hay, roughage supplies 21% short, 76% adequate, 36% surplus. Dry beans 15% cut. Barley 73% harvested. Oats 60% harvested. Dry onion 11% harvested. Fall potatoes 5% harvested. Summer potatoes 31% harvested. Winter wheat 3% planted. Livestock mostly good to excellent. Ranges, pastures fair to good.

FLORIDA: Thunderstorms widely scattered. No inordinate amounts rainfall from tropical disturbances. Temperatures generally averaged 1 to 3° above normal.

Soil moisture generally adequate. Harvest corn, grain sorghum active. Peanut digging underway. Tobacco harvest complete. Lower bolls, early cotton, opening. Sugarcane planting started. Soybeans, sugarcane good progress. Haymaking active. Hay, roughage supplies 32% short, 68% adequate. Pastures good to excellent except some Panhandle, upper Peninsula areas only fair. Cattle mostly good to excellent. Citrus trees very good condition from daily rains. New growth apparent all areas. Fruit sizing well. Normal caretaking activities. Typical summertime weather, vegetable producing areas. Wet conditions slowed ground preparation, planting. Crops being planted include celery, cucumbers, eggplant, peppers, squash, strawberries, tomatoes.

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 97° Valdosta, Albany; 50° Blairsville.

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 main problem in cotton. Peanut digging just started 1%, 3% 1987, 4% avg.; none threshed. Tobacco 83% harvested, 90% avg. Apples 44% harvested, 30% 1987, 47% avg. Pastures, hay significantly improved, mostly fair to good. Livestock mostly good.

HAWAII: Favorable weather early week. Mostly sunny with few morning showers. Pleasant trade winds mostly 10 to 20 mph. Weakening high pressure areas diminished trade winds, produced warm humid conditions with little rainfall to develop for most of week. Rainfall none to 1.30 in. Winds 5 to 20 mph. Temperatures ranged low 70s to low 90s.

Days suitable for fieldwork 7.0. Chinese cabbage production moderate. Head cabbage good, output

moderate. Cucumber production moderate. Snap bean production light. Papaya harvesting active. Banana production of Cavendish varieties heavy. Tomato production light, increasing. Watermelon production above 1987.

IDAHO: Near normal temperatures. Precipitation below normal.

Days suitable for fieldwork 7.0. Soil moisture 26% very short, 39% short, 35% adequate. Irrigation water supplies fair. Potato harvesting underway, 4% 1987, 4% avg. Potatoes good. Winter wheat 97% harvested, well ahead of average. Spring wheat 79% harvested, 69% 1987. Spring barley 85% harvested, 74% 1987, 56% avg. Oats 77% harvested. Onions 16% harvested. Dry peas 94% harvested. Lentils 95% harvested. Dry beans 20% harvested. Mint 92% harvested. Processing sweet corn 60% harvested. Peaches nearly 80% harvested. Plums 40% harvested. Second cutting alfalfa wrapping up. Third cutting 19% harvested. Hops over 30% harvested. Range, pastures; poor, fair. Livestock good. Hay, roughage 26% short, 70% adequate, 4% surplus.

ILLINOIS: Temperatures averaged 2 to 5° below normal north, central; normal south. Precipitation averaged 0.33 to 0.75 in., parts of west; central 1.00 to 1.50 in.

Days suitable for fieldwork 6.3. Soil moisture 96% short, 4% adequate. Soybeans 24% turning yellow, 42% 1987, 18% avg. Sorghum 5% mature, 20% 1987. Alfalfa 3rd crop cut 77%, 73% 1987, 69% avg.; 7% very poor, 18% poor, 59% fair, 16% good. Hay, roughage supplies 6% very short, 70% short, 23% adequate, 1% surplus. Pasture 32% very poor, 38% poor, 26% fair, 4% good.

INDIANA: Temperatures 2 to 3° below normal most areas. Lows mid 50s to low 60s, highs mid 70s to mid 80s. Precipitation scattered. Totals less than 0.25 to 2.00 in.

Days suitable for fieldwork 6.2. Topsoil moisture 76% short, 24% adequate. Subsoil moisture 89% short, 11% adequate. Corn, soybean condition virtually unchanged. Pastures 14% very poor, 52% poor, 30% fair, 4% good. Soybeans 9% turning yellow, 45% 1987, 21% avg. Wheatland 17% plowed, 16% 1987, 20% avg. Hay, roughage for feeding season 8% very short, 60% short, 32% adequate. Livestock water supplies 7% very short, 34% short, 59% adequate. Cooler temperatures, scattered showers brought relief to stressed crops.

IOWA: Temperatures 1 to 4° below normal; extremes 39°; 92°. Precipitation averaged 1.40 in.; extremes 0.23 to 3.44 in.

Days suitable for fieldwork 5.1. Topsoil moisture 70% short, 30% adequate; subsoil moisture 97% short, 3% adequate. Hay 22% very poor, 39% poor, 32% fair, 7% good. Third crop alfalfa 85% harvested, 59% 1987, 54% avg. Hay availability 6% very short, 30% short, 60% adequate, 4% surplus. Hay being fed to supplement pastures 17% light, 51% moderate, 32% heavy. Soybeans 42% leaves turning, 19% 1987, 12% avg. Soybeans 5% mature, none 1987, none avg. Livestock having relief from cooler temperatures. Pink eye noted in some cattle. Pastures 53% very poor, 33% poor, 12% fair, 2% good.

KANSAS: Temperatures near normal, ranged low to middle 70s; within degree or 2 of normal. Precipitation averaged 0.50 to 2.00 in. central, northeast; 1.00 in. along Missouri, Oklahoma borders; 0.10 in. or less elsewhere.

Days suitable for fieldwork 6.5. Topsoil moisture 85% short, 15% adequate; decrease from previous week. Subsurface moisture 85% short, 15% adequate. Some irrigators stopped watering due to

maturing crops. Most, however, kept busy. Third generation southwestern, European corn borers south central, possible problems for late corn and milo. Corn silage harvest picked up steam. Greenbugs in sorghum mostly light, beneficial insects helped control pests this season. Some corn earworms present southeast; less serious than week ago. No major insect problems in soybeans but white flies abundant southeast. Beneficial lady beetles feeding on them at this time. Hay, roughage supplies 6% very short, 51% short, 43% adequate. Pastures poor, worst condition northeast very poor; best condition southeast, good. Third cutting alfalfa neared completion, 4th cutting 25%. Preparing wheat ground for seeding, selling calves major activities. First russian wheat aphids, wheat curl mites found since harvest far western area. Growers encouraged to destroy volunteer wheat to control wheat curl mite, wheat streak mosaic.

KENTUCKY: Average temperatures mid 70s about normal late August, lows lower 60s, highs mid to upper 80s. Rainfall less than 0.50 in. over extreme west to 1.50 in. east.

Days suitable for fieldwork 4.7. Soil moisture 5% very short, 62% short, 33% adequate. Tobacco 1% very poor, 5% poor, 25% fair, 65% good, 4% excellent. Burley 18% cut, 56% 1987, 32% avg. Darks 16% some Black shank, aphids problems. Pastures 10% very poor, 28% poor, 45% fair, 15% good, 2% excellent. Late hay 15% very poor, 27% poor, 46% fair, 12% good, 1% excellent. Hay, roughage supplies 12% very short, 67% short, 21% adequate.

LOUISIANA: Temperatures normal to 2° above normal. Temperature extremes 63°; 99°. Rainfall averaged 0.78 to 2.50 in.

Days suitable for fieldwork 3.8. Soil moisture 2% very short, 6% short, 60% adequate, 32% surplus. Corn 98% mature, 40% harvested. Rice 53% ripe. Sorghum 36% ripe, 12% harvested. Sweetpotatoes fair to good; 17% harvested. Soybeans 3% turning color. Aerial blight severity increased southwest. Hay final cutting 22%. Sugarcane good; 9% planted. Hay roughage supplies 4% very short, 50% short, 45% adequate, 1% surplus. Livestock feed obtained from pastures 92%. Livestock, pecans good. Pastures fair to good. Vegetables fair. Main activities: Fertilizing pastures, hay; harvesting hay, sorghum, corn, rice, sweetpotatoes. Sprayed pastures for army worms western areas.

MARYLAND & DELAWARE: Maryland: Precipitation averaged 2.03 in. Average temperature 71°, normal 73°. Temperature extremes 44°; 92°.

Days suitable for fieldwork 5.0. Topsoil moisture 30% short, 60% adequate, 10% surplus. Subsoil moisture 50% short, 50% adequate. Current hay supplies 30% short, 70% adequate. Corn 30% poor, 60% fair, 10% good. Corn 90% dough, 90% avg. Corn 65% dent, 55% avg. Corn silage 15% harvested, 25% avg. Soybeans 30% fair, 70% good. Soybeans 90% bloomed, 95% avg. Soybeans 65% podded, 70% avg. Tobacco 40% fair, 60% good. Tobacco 95% bloomed, 80% avg. Tobacco 75% topped, 70% avg. Tobacco 30% harvested, 45% avg. Alfalfa 3rd cutting 80%, 90% avg. Apples, peaches 60% fair, 40% good. Peaches 65% harvested, 80% avg. Apples 20% harvested, 20% avg.

Delaware: Precipitation averaged 1.57 in. Average temperature 72°, normal 74°. Temperature extremes 53°; 89°.

Days suitable for fieldwork 5.5. Topsoil moisture 100% adequate. Subsoil moisture 100% short. Current hay supplies 100% adequate. Corn 100% fair. Corn 90% dough, 90% avg. Corn 65% dent, 70% avg. Corn silage 20% harvested, 20% avg.

Soybeans 100% good. Soybeans 95% bloomed, 95% avg. Soybeans 65% podded, 75% avg. Alfalfa 4th cutting 25%, 25% avg. Apples, peaches 100% good. Peaches 90% harvested, 90% avg. Apples 25% harvested, 25% avg.

MICHIGAN: Temperatures ranged normal to 4° below normal. Temperature extremes 41°; 82°. Precipitation ranged 0.29 to 1.78 in.

Days suitable for fieldwork 5.0. Soil moisture 35% short, 65% adequate. Corn 65% dough, 98% 1987, 80% avg.; 25% dent, 65% 1987, 25% avg.; 1% mature, 10% 1987, 2% avg.; 10% very poor, 25% poor, 40% fair, 23% good, 2% excellent. Soybeans 80% setting pods, 98% 1987, 90% avg.; none dropping leaves, 4% 1987, 1% avg.; 5% very poor, 15% poor, 35% fair, 35% good, 10% excellent. Dry beans 15% turning, 70% 1987, 40% avg.; 5% very poor, 20% poor, 35% fair, 35% good, 5% excellent. Pastures supplying 35% livestock feed. Hay, roughage supplies 20% very short, 60% short, 20% adequate. Major activities: Corn silage harvesting, hay harvesting, oats combining, apple, peach picking; vegetable harvesting, alfalfa hay seeding, fall tillage.

MINNESOTA: Temperatures averaged none to 3° below normal. Temperature extremes 35°; 89°. Precipitation averaged 0.16 to 1.54 in. Greatest weekly total 2.28 in.

Days suitable for fieldwork 5.5. Topsoil moisture 19% very short, 51% short, 28% adequate, 2% surplus. Corn 78% denting, 81% 1987, 39% avg.; 14% mature, 14% 1987, 3% avg.; 17% cut for silage, 5% 1987, none avg. Soybeans 65% yellow, 45% 1987, 15% avg.; 22% dropping leaves, 7% 1987, 2% avg. Sweet corn 80% harvested for processing, 76% 1987, 60% avg. Potatoes 18% harvested, 10% 1987, 3% avg. Winter wheat 20% seeded, 28% 1987, 14% avg. Rye 31% seeded, 27% 1987, 12% avg. Dry edible beans 20% harvested, 16% 1987, 8% avg. Grain stubble 59% plowed, 52% 1987, 32% avg. Soybeans 15% very poor, 32% poor, 46% fair, 7% good. Field corn 23% very poor, 42% poor, 31% fair, 4% good. Hay supplies remainder of feeding season 18% very short, 57% short, 25% adequate. Livestock feed now obtained from pastures 27%.

MISSISSIPPI: Hot, humid with widely scattered thunderstorms. Rainfall below normal north; above normal south. Temperature extremes 58°; 100°.

Days suitable for fieldwork 5.1, 6.1 1987, 5.6 avg. Soil moisture 15% very short, 20% short, 60% adequate, 5% surplus. Corn fair; 8% harvested, 22% 1987, 24% avg. Sorghum fair; 7% harvested, 33% 1987, 22% avg. Cotton fair; 27% open bolls, 52% 1987, 40% avg. Farmers beginning to apply defoliants. Rice good; 2% harvested, 3% 1987, 10% avg. Soybeans fair; 6% coloring, 11% 1987, 5% avg. Hay 71% harvested, 81% 1987, 78% avg. Corn silage 67% harvested, 81% 1987, 74% avg. Sorghum silage 58% harvested, 68% 1987, 61% avg. Peanuts 22% harvested, 22% 1987, 27% avg. Sweetpotatoes 9% harvested, 15% 1987, 15% avg. Watermelons 84% harvested, 93% 1987. Pasture good to fair. Livestock good. Insect pressure high in cotton, soybeans. Activities: Insect control, harvesting silage, hay; irrigating soybeans, preparing to harvest. Supplies of hay, roughage 10% very short, 65% short, 25% adequate.

MISSOURI: Temperatures 2° above normal north, 1° below normal south. Rain over 2.00 in. southwest through east central, northern half up to 1.50 in., southeast less than 0.50.

Days suitable for fieldwork 5.1. Topsoil moisture 62% short, 38% adequate. Recent moisture helped late crops, pastures. Silage cutting in progress. Corn harvest started, mainly southeast. Alfalfa hay 3rd cutting 80%, 100% 1987, 81% avg.

Supply of hay, roughage 22% very short, 69% short, 9% adequate. Stockwater supplies 22% critically short, 49% short, 29% adequate. Pasture 22% very poor, 30% poor, 36% fair, 12% good.

MONTANA: Temperatures 1 to 2° above normal west, normal to 1° below normal east. Most locations no measurable rainfall.

Days suitable for fieldwork 6.7. Topsoil moisture 97% short, 3% adequate. Subsoil moisture 93% short, 7% adequate. Spring wheat 85% harvested, 51% 1987, 65% avg. Barley 81% harvested, 46% 1987, 63% avg. Oats 81% harvested, 39% 1987, 62% avg. Corn silage harvest getting underway. Expect dry bean harvest to start next week. Range, pasture feed 45% very poor, 40% poor, 12% fair, 3% good. Cattle, calves moved from summer range 42%, none 1987, 10% avg. Sheep, lambs moved from summer range 42%, none 1987, 10% avg. Hay, roughage supplies 32% very short, 36% short, 27% adequate, 5% surplus. Second cutting alfalfa 87% harvested, 75% 1987, 74% avg. Other hay 93% harvested, 95% 1987, 94% avg.

NEBRASKA: Scattered showers beginning of week produced only light rainfall amounts except in extreme east where local amounts up to 3.00 in. in places. Average temperatures ranged 1 to 4° below normal. Extremes 39°, 98°.

Days suitable for fieldwork 6.2. Topsoil moisture 71% short, 29% adequate. Subsoil moisture 72% short, 28% adequate. Alfalfa hay 4% very short, 13% short, 54% adequate, 29% surplus. Alfalfa hay 3rd cut 80%, 73% 1987, 58% avg. Pasture, range feed supplies 8% very short, 36% short, 51% adequate, 5% surplus. Hay, roughage supplies 3% very short, 35% short, 58% adequate, 4% surplus.

NEVADA: Summertime weather pattern across State. Fairly general showers south, northern areas cooler early, but latter part of week temperatures soared. Temperatures ranged near normal northeast to 13° above west. Precipitation ranged 0.98 in. Pahrump to none locations west.

Third crop alfalfa hay harvest started northern areas, mostly finished Fallon area. Melon harvest continued normal. Ranges continued to deteriorate from hot, dry weather. Stockwater supplies critically low many areas. Hay, roughage supplies 33% short, 60% adequate, 7% surplus.

NEW ENGLAND: Precipitation averaged 0.50 to 1.00 in. southeast areas, northern Maine; 1.00 to 2.00 in. remainder. Average temperatures ranged mid 50s north to mid 60s southern coast. Temperatures 2 to 4° below normal.

Days suitable for fieldwork 6.0. Fieldwork normal. Soil moisture 26% short, 70% adequate, 4% surplus. Grazing availability 5% very short, 15% short, 80% adequate. Hay, roughage 37% short, 63% adequate. Feed now being obtained from pastures 35%. Maine potato good; harvest started. Rhode Island potatoes good; 20% harvested, 33% 1987, 38% avg. Connecticut River Valley potatoes fair; 20% harvested, 12% 1987, 19% avg. Maine oats fair to good. Field corn fair to good. Sweet corn 70% picked, 62% 1987, 63% avg.; fair to good. Shade tobacco good; 85% harvested. Outdoor tobacco 70% cut; fair to good. Second crop hay 80% cut, 79% 1987, 79% avg.; fair to good. Third crop hay 40% harvested, 36% 1987, 39% avg.; fair to good. Apples good; size medium, 10% harvested. Peaches good; 50% picked. Blueberries 80% harvested. Major farm activities: Haying, harvesting vegetables, fruits; pest control.

NEW JERSEY: Temperatures averaged above normal. Extremes 42°, 92°. Rainfall averaged 2.19 in. north, 1.59 in. central, 1.15 in. south. Heaviest

24-hour total 1.77 in. on 23th, 24th. Estimated soil moisture percent field capacity averaged 70% north, 64% central, 79% south. Four inch soil temperatures averaged 71° north, 72° central, south.

Days suitable for fieldwork averaged 4.0 to 7.0. Near normal temperatures, showers 23rd, 24th improved conditions for late season crops. Summer vegetable volume declined. Irish potato digging active. Peach harvest remained active with loring, cresthaven varieties being picked. Fall variety apple harvest expected to begin next week. Corn silage making begun. Soybeans, corn for grain conditions extremely varied. Hay making continued as conditions permitted. Pasture growth responded to improved conditions. Hay, roughage supplies 50% short, 50% adequate.

NEW MEXICO: Temperatures above normal; rainfall almost statewide.

Days suitable for fieldwork 6.0. Soil moisture 29% short, 57% adequate, 14% surplus. Cotton 20% bolls open; 43% fair, 57% good. Cattle 23% fair, 62% good, 15% excellent. Sheep 20% fair, 70% good, 10% excellent. Ranges 23% fair, 62% good, 15% excellent. Hay, roughage stock supplies 27% short, 73% adequate.

NEW YORK: Temperatures averaged 3 to 6° below normal. Lows in 40s, highs in 80s. Precipitation averaged well above normal. Most stations received at least 1.00 in.

Days suitable for fieldwork 4.4. Soil moisture short to adequate. Pastures mostly fair. Hay, corn mostly good. Second cutting alfalfa 83%, 90% 1987, 85% avg. Third cutting 19%, 38% 1987, 22% avg. Oats 76% harvested, 86% 1987, 78% avg. Hay, roughage supplies 31% short, 69% adequate. Fruit crops in Lake Ontario area good. Recent rains beneficial. Clapp pear harvest neared completion. Jersey mac apple picking well underway. Many Long Island vineyards have seen clusters with shriveled berries. Early potato harvest underway. Onion growers in Orange County continued to disk under storm damaged onions. Frost injured some snap beans on 22nd.

NORTH CAROLINA: Temperatures slightly above normal except Mountain Region temperatures few degrees below normal. Temperature extremes 46°, 97°. Precipitation ranged none to 5.96 in.

Days suitable for fieldwork 5.7. Soil moisture 13% very short, 38% short, 48% adequate, 1% surplus. Pasture 4% very poor, 14% poor, 42% fair, 37% good, 3% excellent. Flue-cured tobacco 55% harvested, 54% 1987, 56% avg. Tobacco 2% poor, 24% fair, 72% good, 2% excellent. Peanuts 17% fair, 83% good. Sweetpotatoes 2% poor, 16% fair, 74% good, 8% excellent. Peaches 96% harvested, 93% 1987, 96% avg.; 28% fair, 66% good, 6% excellent. Truck crops 1% very poor, 11% poor, 26% fair, 62% good. Hay, roughage supplies 2% very short, 15% short, 81% adequate, 2% surplus; 2% very poor, 21% poor, 37% fair, 38% good, 2% excellent. Livestock feed obtained from pasture 71%. Apple 13% harvested, 17% 1987, 11% avg.; fair to good. Corn silage 38% harvested, 54% 1987, 46% avg. Sorghum for grain 6% harvested, 11% 1987, 9% avg. Burley tobacco 7% harvested, 14% 1987, 6% avg. Major farm activities: Tobacco harvesting, marketing; baling hay; harvesting truck crops, 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 2° below normal, first frost northwest, south central. Extremes 27°, 97°. Scattered, light precipitation averaged 0.01 in. west central to 0.20 in.

northwest. Season precipitation ranged 3.71 in. below normal northeast to 6.79 in. west central.

Days suitable for fieldwork 7.0. Topsoil moisture supplies 63% very short, 33% short, 4% adequate. Subsoil moisture driest since 1961; 72% very short, 26% short, 2% adequate. Harvest of spring wheat, durum wheat nearly complete. Spring wheat 99% combined, 81% 1987, 72% avg.; durum 95%, 66% 1987, 59% avg. Cool weather helped stabilize row crop conditions. Corn for grain 25% very poor, 58% poor, 12% fair, 5% good; corn for silage 19%, 75%, 3%, 3%; dry edible beans 4%, 41%, 48%, 7%; sunflower 14%, 31%, 38%, 17%; soybeans 10%, 45%, 30%, 15%; potatoes none, 72%, 24%, 4%; flax 21%, 40%, 38%, 1%. Corn for silage, potato, dry edible bean harvest progressed ahead of normal. Corn for silage 30% cut, 3% 1987, 3% avg.; potatoes 9% dug, 9% 1987, 4% avg.; dry edible beans 6% combined, 2% 1987, 2% avg.; sunflower 13% bracts brown and beyond, 4% 1987, 2% avg.; corn for grain 70% dented and beyond, 57% 1987, 45% avg.; soybeans 41% mature and beyond, 12% 1987, 8% avg.; flax 36% combined, 13% 1987, 14% avg. Hay, roughage supplies 29% very short, 61% short, 10% adequate. Pastures 88% very poor to poor; furnished 60% roughage requirements.

OHIO: Average high temperatures upper 70s to low 80s fell short of normal by 1 to 3°. Average low temperatures mid 50s to low 60s close to normal. Rainfall exceeded 1.00 in. over most of State with as much as 2.98 in. Youngstown.

Days suitable for fieldwork 5.5. Soil moisture 54% short, 45% adequate, 1% surplus. Crop conditions improved considerably as result of improved weather. Corn smut problem continued. Corn fair to poor. Soybean pods filling out. Still problems with spider mites, velvetleaf. Beans fair to poor. Hay, pasture showed great improvement. Both fair to poor. Hay, roughage supplies 19% very short, 44% short, 35% adequate, 2% surplus. Tobacco harvest began. Continuation of hay baling, vegetable harvest.

OKLAHOMA: Temperatures averaged 2° below normal Panhandle, north central to 3° above normal south central. Precipitation averaged 0.05 in. southeast to 1.46 in. northeast.

Days suitable for fieldwork 6.7. Topsoil moisture 92% short, 8% adequate. Subsoil moisture 70% short, 30% adequate. Cotton 50% fair, 50% good; 10% open bolls, 1% 1987, 2% avg. Bolls opening prematurely because of dryness. Weevils numerous southwest. Sorghum 1% poor, 35% fair, 64% good; 80% heading, 85% 1987, 90% avg.; 50% coloring, 60% 1987, 45% avg. Peanuts 85% setting pods, 90% 1987, 90% avg. Soybeans 45% setting pods, 80% 1987, 55% avg. Corn 60% mature, 80% 1987, 50% avg. Pastures fair. Hay, roughage 15% very short, 50% short, 35% adequate. Supplemental feed comprised 20% livestock feed. Cattle marketings average, prices steady to slightly lower than preceding week.

OREGON: Temperatures 1 to 2° below normal, coast except Astoria, record high 22nd. Temperatures well above normal; western interior, eastern. Maximum temperatures Portland, Salem, Eugene; 23rd. Minimum temperatures dipped below freezing; northeast. Ukiah, 24° 22nd; Enterprise, 30°. Drizzle along coast. Measurable rain; west, south. Amounts light. Light rain, Klamath Falls.

Soil moisture 59% short, 41% adequate. Winter wheat 93% harvested, 94% 1987, 94% avg. Barley 84% harvested, 75% 1987, 84% avg. Hay, roughage supplies 23% short, 68% adequate, 9% surplus. Grain harvest continued to wind down as field burning post harvest activities began. Red clover turning color northwest. Alfalfa cutting continued. Mint, hop harvest continued west. Cereal crops harvested, red clover seed ready for

harvest Washington County. Red clover harvest underway east. Last inspection of seed potatoes completed Wallowa County. Apples, pears, peach harvest continued. Walnuts, filberts sizing nicely Lane County. Summer berry harvest over northwest. Evergreen blackberry harvest in progress. Vegetable harvest peaking, harvest underway for green beans. Sweet corn, red beets, table beets, cucumbers, garlic, onions, some potatoes east. Livestock good to excellent. No forward contracting on calves Wheeler County. Range, pasture poor to good. Ranges dry, pasture needing water east. Forest fire danger extremely high; Wallowa County - no regrowth on hay fields on dryland. Irrigated pastures, west good.

PENNSYLVANIA: Coolest, wettest week since late May. Several fast moving weather fronts swept across State. Average temperature 66°, 3° below normal. Temperature extremes 37°, 90°. Average precipitation 1.32 in., 0.48 in. above normal.

Days suitable for fieldwork 5.0. Soil moisture 71% short, 28% adequate, 1% surplus. Corn 96% silk, 100% 1987, 100% avg.; 58% dough, 84% 1987, 75% avg.; 13% dent, 40% 1987, 25% avg.; none mature, 5% 1987, 2% avg. Ensilage corn 11% harvested, 14% 1987. Corn 15% very poor, 28% poor, 34% fair, 19% good, 4% excellent. Soybean 8% very poor, 20% poor, 34% fair, 30% good, 8% excellent. Wheat none planted, 8% 1987. Oats 95% harvested, 97% 1987. Barley none planted, 7% 1987. Tobacco 32% harvested, 45% 1987. Potatoes 27% harvested, 31% 1987. Second cutting alfalfa 92%, 94% 1987. Third cutting alfalfa 56%, 54% 1987. Fourth cutting alfalfa 18%, 12% 1987. Second cutting clover-timothy 79%, 78% 1987. Hay, roughage supplies 26% very short, 47% short, 27% adequate. Livestock feed now obtained from pastures 20%. Quality of hay fair to good. Feed from pastures below average to average. Apple 22% harvested, 25% 1987. Peaches 68% harvested, 74% 1987. Fall plowing 24%, 31% 1987. Activities: Harvesting corn silage, oats, hay, haylage, tobacco, fruit, potatoes, other vegetables; fall plowing; controlling weeds, insects; caring for livestock; maintaining machinery.

PUERTO RICO: Island average rainfall 6.19 in., 4.46 in. above normal. Highest weekly total rainfall 14.87 in. Sabana Grande, 11.99 in. Yauco, 11.79 in. Lajas. Highest 24-hour total 10.00 in. Sabana Grande. Total rainfall since January 1st 41.20 in., 15% above normal. San Juan WSFO mean temperature 81°, 1° below normal. Total rainfall 5.94 in., 4.54 in. above normal. Divisional temperature averaged about 79 to 80° on coasts, 75 to 77° interior. Mean station temperature ranged 67° Pico Del Este-Luquillo to 83° Roosevelt Roads. Lowest minimum temperature 62° Pico Del Este-Luquillo. Highest maximum temperature 95° Ponce.

SOUTH CAROLINA: Seasonal temperatures. Rainfall ranged 3.23 in. Myrtle Beach to less than 0.10 in. upstate.

Days suitable for fieldwork 5.9. Soil moisture 14% very short, 69% short, 17% adequate. Cotton 9% open bolls, 18% 1987, 31% avg.; 2% very poor, 88% fair, 8% good. Soybeans 91% blooming, 92% 1987, 87% avg.; 55% setting pods, 61% 1987, 56% avg.; 9% poor, 66% fair, 25% good. Insect population increased many fields. Tobacco fair to good; 71% harvested, 81% 1987, 81% avg. Corn fair; 80% matured, 92% 1987, 89% avg.; 20% harvested, 29% 1987, 29% avg. Peanuts fair to good; 1% harvested, 3% 1987, 1% avg. Sorghum fair; 12% harvested, 27% 1987, 16% avg. Peaches fair to good; 94% harvested, 96% 1987, 98% avg. Pastures fair. Livestock fair to good. Hay, roughage supplies 17% very short, 65% short, 18% adequate.

SOUTH DAKOTA: Average temperatures 4° below to 4° above normal. Extremes 33°; 101°. Heavy precipitation over parts of southeast; lighter precipitation northeast. Little rain west of Missouri River.

Days suitable for fieldwork 6.2. Topsoil moisture 47% critically short, 38% short, 14% adequate, 1% surplus. Hay, roughage supplies 15% very short, 49% short, 34% adequate, 2% surplus. Livestock feed obtained from pastures 72%.

TENNESSEE: Several weak cold fronts with significant rainfall 24th. Temperatures averaged above normal west, middle; at or below normal east.

Days suitable for fieldwork 6.6. Soil moisture 28% very short, 51% short, 21% adequate. Hay roughage supplies 12% very short, 73% short, 14% adequate, 1% surplus. Corn 70% dented, 92% 1987, 84% avg.; 18% mature, 54% 1987, 36% avg.; 10% very poor, 28% poor, 52% fair, 9% good, 1% excellent. Tobacco 66% topped, 92% 1987, 92% avg.; 1% very poor, 8% poor, 69% fair, 20% good, 2% excellent. Burley 18% harvested, 50% 1987, 35% avg. Dark fired 36% harvested, 40% 1987, 32% avg. Dark air-cured 26% harvested, 44% 1987, 30% avg. Apple, peach harvest getting underway. Apples, peaches mostly good. Driest soybeans field dropping pods, insect populations increased. Armyworms, boll weevils, stink bugs, red aphids causing problems. Primary activities: Tobacco harvesting, marketing; baling hay; harvesting truck crops, corn silage, peaches, sorghum, apples; spraying soybeans, cotton; land preparation for fall planting; managing fish ponds, harvesting catfish; tending livestock, general farm maintenance.

TEXAS: Widely scattered thunderstorms across most State. Areas where thunderstorms not develop, very hot temperatures did. High Plains above normal rainfall. Below normal elsewhere. Temperatures High, Low Plains below normal. Other areas above normal temperatures.

Crops: Corn harvest winding down central, Blacklands with open weather. Yields better than expected. Fields Plains rapidly reaching maturity under hot temperatures. Many producers finishing final waterings. Harvest silage corn continued. Grain sorghum harvest virtually complete central, winding down Blacklands, east. Harvest began portions Low Plains, Cross-Timbers. Average yields. Fields rapidly turning color High Plains. Irrigation remained steady, many dryland fields could use another good rain. Cotton Harvest increased again Lower Valley after rains. Heavy rainfall amounts some areas may affect quality. Harvest mostly completed Coastal Bend, stalk destruction underway. Harvesting moved ahead central, Blacklands with open weather. Yields good. Bolls began opening Cross-Timbers, Low Plains. Many dryland fields could use additional rain. Irrigation steady High Plains, fields good progress. Dryland fields becoming stressed for moisture. Boll began to open Trans-Pecos. Cotton 98% setting bolls, 100% 1987, 97% avg.; 12% harvested, 9% 1987, 9% avg. Small grain planting underway Plains irrigated fields. Dryland producers need additional moisture. Land preparation underway Blacklands. Wheat 3% planted, 4% 1987, 1% avg. Rice harvest continued after several rain delays. Yields good. Peanuts look good irrigated fields. Hot temperatures stressed many dryland fields. Some light harvest started central. Yields fair. Soybeans Plains look very good under steady irrigation. Harvest resumed early varieties Upper Coast. Yields good. Recent rain should help later varieties. Sugarbeets continued good progress. Some minor disease problems. Other Field Crops: Peanuts 1% harvested, 3% 1987, 2% avg. Soybeans 6% harvested, 4% 1987, 2% avg. Oats none planted, 1% 1987, none avg.

Commercial Vegetables: Rio Grande Valley planting resumed as fields dried out. Progress good on planted fields peppers, tomatoes. East sweetpotato harvest continued good quality, fair production. Melon harvest continued. High Plains harvest cabbage, carrots, cucumbers, peppers, potatoes continued. Some fields potatoes plowed under because low market. Trans-Pecos harvest green chilies, cantaloupes continued. Pecans maturing east, south, harvest should begin soon. Nuts dropping many areas because lack of rainfall. Rain could help in these areas. Spraying aphids, weevils continued.

Range and Pasture: Many ranges, pastures becoming very dry, hot temperatures continued. Wetter areas Valley, east some improvement after recent rains. Haying continued east. Supplemental feeding increased with decline in pasture growth. Stock tanks critically low some drier areas. Livestock remained fair. Hay, roughage supplies declining with feeding. Current supplies 15% very short, 37% short, 43% adequate, 5% surplus.

UTAH: Precipitation light south, moderate southeast, dry north. Temperatures 5 to 6° above normal.

Days suitable for fieldwork 6.8. Soil moisture 67% short, 33% adequate. Winter wheat 2% seeded, 36% 1987, 8% avg. Oats for grain 82% harvested, 71% 1987, 52% avg. Corn 60% dough, 76% 1987, 54% avg. Alfalfa 3rd cutting 39%, 29% 1987, 19% avg. Onion harvest began. Peach harvest underway. Pastures, ranges 13% very poor, 30% poor, 39% fair, 18% good. Irrigation water supply 23% very short, 39% short, 38% adequate. Stock water supply 12% very short, 40% short, 48% adequate. Hay, roughage 25% short, 60% adequate, 15% surplus. Livestock good to excellent.

VIRGINIA: Average temperatures, partly cloudy with scattered showers. Precipitation averaged 1.25 in.

Days suitable for fieldwork 5.8. Topsoil moisture 13% very short, 57% short, 22% adequate, 8% surplus. Crop conditions stabilized, cooler temperatures relieved stressed crops. Corn poor to fair most areas, good to excellent southeast. Corn 82% in or beyond dough stage, 92% 1987, 92% avg.; 56% in or beyond dent stage, 73% 1987, 71% avg.; 28% mature, 50% 1987, 46% avg. Soybeans poor north, central, east; good south, southeast. Soybeans 84% in or beyond bloom stage, 92% 1987, 91% avg.; 56% setting pods, 66% 1987, 62% avg. Corn ear worm scouted, some spraying. Peanuts good to excellent. Flue-cured tobacco excellent; harvest 32%, 30% 1987, 36% avg. Burley tobacco poor; harvest 8%, 22% 1987, 20% avg. Hay, roughage supplies 22% very short, 32% short, 46% adequate. Some cut hay, seeded. Hay, pastures excellent south, southeast; fair north, east, west; poor central. Apples 26% harvested.

WASHINGTON: High pressure ridge dominated State. Temperatures near normal with below normal precipitation. Isolated thundershowers southwest, extreme eastern areas.

Days suitable for fieldwork 7.0. Soil moisture 75% short, 25% adequate. Winter wheat 97% harvested, 99% 1987, 95% avg. Yields average to above average. Planting fall cereals continued some areas, most areas waiting for additional moisture. Conditions dry eastern area. Early potato harvest continued Columbia Basin. Corn silage harvest underway. Second cutting alfalfa near complete, 3rd cutting full swing. Hay, other roughage feed supplies 5% short, 70% adequate, 25% surplus. Bartlett pear harvest underway Chelan and Klickitat Counties; fruit size improving. Blueberry harvest continued western area. Green

(Continued to back cover)

CROP PROGRESS 1/
FOR WEEK ENDING AUGUST 28, 1988

GRAIN SORGHUM
% HEADED

	1988	1987	AVG.
ARK	96	100	NA
ILL	98	100	NA
KANS	90	90	80
LA	96	100	100
MISS	99	100	97
MO	96	100	94
NEBR	100	99	98
OKLA	80	85	90
S DAK	93	98	88
TENN	100	100	100
TEX	95	98	93

GRAIN SORGHUM
% COLORING

	1988	1987	AVG.
ARK	73	90	NA
ILL	47	77	NA
KANS	25	35	20
LA	67	92	92
MISS	70	92	90
MO	53	80	78
NEBR	55	61	39
OKLA	50	60	45
S DAK	50	55	31
TENN	68	88	63
TEX	69	73	73

COTTON
% BOLLS OPENING

	1988	1987	AVG.
ALA	35	27	18
ARIZ	70	60	64
ARK	17	56	31
CALIF	25	45	23
GA	21	32	27
LA	37	45	37
MISS	27	52	40
MO	32	74	24
N MEX	20	25	48
N C	26	29	15
OKLA	10	1	2
S C	9	18	31
TENN	10	40	18
TEX	19	22	15

11 STATES 93 95 NA

11 STATES 48 58 NA

14 STATES 23 33 23

EXCL. STATES WITH NA 93 95 89

EXCL. STATES WITH NA 47 56 45

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

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

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

NA - NOT AVAILABLE.

NA - NOT AVAILABLE.

RICE
% HEADED

	1988	1987	AVG.
ARK	87	98	89
CALIF	80	85	75
LA	92	98	95
MISS	90	98	94
TEX	100	100	100

RICE
% HARVESTED

	1988	1987	AVG.
ARK	1	7	5
CALIF	0	0	0
LA	36	53	53
MISS	2	3	10
TEX	79	94	76

5 STATES 89 96 90

5 STATES 17 24 22

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

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

SOYBEANS
% BLOOM

	1988	1987	AVG.
ALA	83	81	90
ARK	81	95	90
GA	95	99	98
ILL	100	100	100
IND	100	100	100
IOWA	100	100	100
KANS	99	98	95
KY	89	97	90
LA	92	97	96
MICH	100	100	100
MINN	100	100	100
MISS	86	87	91
MO	97	100	96
NEBR	100	100	100
N C	82	82	84
OHIO	100	100	100
S C	91	92	87
S DAK	100	100	100
TENN	84	96	97

SOYBEANS
% SETTING PODS

	1988	1987	AVG.
ALA	60	61	71
ARK	59	77	67
GA	75	90	85
ILL	99	100	98
IND	97	100	94
IOWA	100	100	100
KANS	95	90	75
KY	56	78	64
LA	74	90	85
MICH	80	98	90
MINN	100	99	97
MISS	62	65	65
MO	92	94	86
NEBR	99	99	97
N C	49	54	57
OHIO	94	100	100
S C	55	61	56
S DAK	100	100	92
TENN	64	85	76

19 STATES 96 98 97

19 STATES 89 93 89

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

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

SOYBEANS
% DROPPING LEAVES

	1988	1987	AVG.
ALA	5	1	0
ARK	0	0	1
GA	3	4	5
ILL	7	18	6
IND	3	30	6
IOWA	16	4	1
KANS	10	15	10
KY	6	8	4
LA	1	2	0
MICH	0	4	1
MINN	22	7	2
MISS	0	1	NA
MO	1	5	1
NEBR	0	0	0
N C	0	0	0
OHIO	0	11	0
S C	0	0	0
S DAK	24	19	7
TENN	2	8	3

19 STATES 7 9 NA

EXCL. STATES WITH NA 7 10 3

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

NA - NOT AVAILABLE.

CORN % DOUGH				CORN % DENT				CORN % MATURE			
	1988	1987	AVG.		1988	1987	AVG.		1988	1987	AVG.
COLO	78	68	66	COLO	32	39	43	COLO	0	0	2
GA	100	100	100	GA	100	100	100	GA	97	100	96
ILL	92	100	95	ILL	79	92	69	ILL	21	41	16
IND	96	100	95	IND	43	95	55	IND	8	56	17
IOWA	100	100	90	IOWA	92	87	55	IOWA	32	23	5
KANS	96	99	85	KANS	70	70	45	KANS	45	40	20
KY	100	100	94	KY	76	81	71	KY	18	41	24
MICH	65	98	80	MICH	25	65	25	MICH	1	10	2
MINN	99	99	82	MINN	78	81	39	MINN	14	14	3
MO	97	100	96	MO	91	94	84	MO	35	51	32
NEBR	100	97	90	NEBR	70	68	43	NEBR	10	7	2
N C	96	95	96	N C	83	87	90	N C	55	64	68
OHIO	89	100	95	OHIO	34	88	60	OHIO	2	28	8
PA	58	84	75	PA	13	40	25	PA	0	5	2
S DAK	97	90	60	S DAK	74	67	29	S DAK	8	13	4
TEX	99	100	97	TEX	94	92	89	TEX	67	69	68
WIS	85	88	70	WIS	58	58	32	WIS	12	10	3
17 STATES	94	97	87	17 STATES	70	80	53	17 STATES	20	28	13

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

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

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

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

Crop Condition

FOR WEEK ENDING AUGUST 28, 1988

CORN					
STATE	VP	P	F	G	EX
COLO	0	2	14	58	26
GA	4	20	61	15	0
ILL	9	46	43	2	0
IND	5	54	37	4	0
IOWA	19	37	38	6	0
KANS	6	12	33	30	19
KY	13	39	42	6	0
MICH	10	25	40	23	2
MINN	23	42	31	4	0
MO	22	48	21	8	1
NEBR	2	12	30	51	5
N C	3	11	45	36	5
OHIO	19	33	36	12	0
PA	15	28	34	19	4
S DAK	9	35	40	16	0
TEX	1	2	20	38	39
WISC	12	34	43	11	0
17 STATE	12	34	36	15	3

RICE					
STATE	VP	P	F	G	EX
ARK	0	5	39	51	5
CALIF	0	0	10	85	5
LA	0	1	36	61	2
MISS	0	0	35	65	0
TEX	0	0	14	66	20
5 STATE	0	2	30	62	6

GRAIN SORGHUM					
STATE	VP	P	F	G	EX
ARK	0	10	47	39	4
ILL	0	10	60	30	0
KANS	0	23	43	26	8
LA	0	10	53	37	0
MISS	0	30	40	30	0
MO	5	12	56	24	3
NEBR	0	22	52	26	0
OKLA	0	1	35	64	0
S DAK	9	18	51	19	3
TENN	3	5	70	22	0
TEX	1	4	23	62	10
11 STATE	1	15	41	37	6

COTTON					
STATE	VP	P	F	G	EX
ALA	10	38	33	18	1
ARIZ	0	0	0	78	22
ARK	0	0	21	67	12
CALIF	0	0	15	65	20
GA	14	11	62	13	0
LA	0	1	59	39	1
MISS	0	10	40	50	0
MO	0	0	50	50	0
N MEX	0	0	43	57	0
N C	0	3	32	62	3
OKLA	0	0	50	50	0
S C	2	2	88	8	0
TENN	0	7	27	61	5
TEX	0	2	31	65	2
14 STATE	0	3	35	58	4

SOYBEANS					
STATE	VP	P	F	G	EX
ALA	0	2	47	51	0
ARK	0	8	74	18	0
GA	0	10	50	40	0
ILL	3	26	65	6	0
IND	3	33	53	11	0
IOWA	5	34	51	10	0
KANS	0	19	24	21	36
KY	0	9	63	28	0
LA	0	6	40	45	9
MICH	5	15	35	35	10
MINN	15	32	46	7	0
MISS	2	20	60	15	3
MO	11	24	48	16	1
NEBR	8	20	53	19	0
N C	2	7	35	47	9
OHIO	13	28	40	18	1
S C	0	9	66	25	0
S DAK	2	7	61	24	6
TENN	4	9	56	31	0
19 STATE	5	23	52	17	3

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

International Weather and Crop Summary

HIGHLIGHTS

August 21 - 27, 1988

USSR ... In Western USSR, winter grain planting continues in the north, while corn and sunflower harvests are just beginning in the south. In the New Lands, unseasonable warm and dry weather in most areas helps harvesting.

EUROPE ... Moderate to heavy rain helps alleviate dryness in the southeast and causes harvest and fieldwork delays in the north.

SOUTH ASIA ... Much needed rain helps reproductive to filling crops in the southern interior, but dry pockets linger. Conditions elsewhere continue mostly favorable for crop development.

EASTERN ASIA ... Heavy rain and flooding continue across central and southern Chinese crop areas.

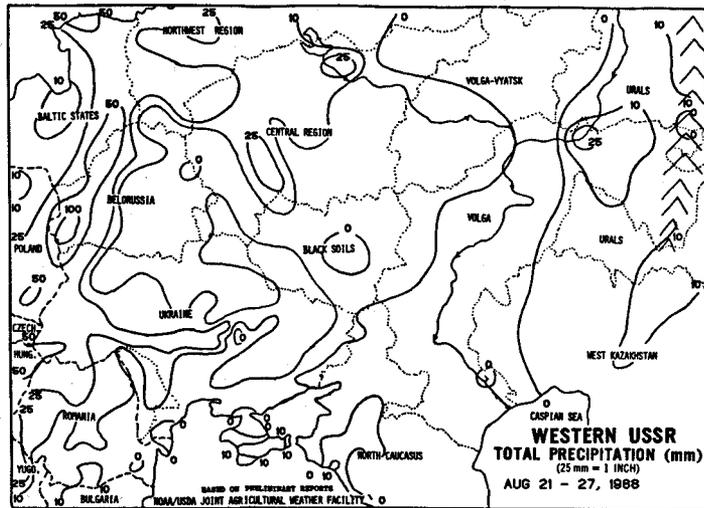
SOUTHEAST ASIA ... Variable rain covers Thailand, maintaining mostly favorable moisture conditions for rainfed rice but slowing corn harvesting.

SOUTH AMERICA ... Dryness and a brief hot spell hamper development of Argentina's wheat crop. Dry, mild weather prevails in south-central Brazil.

AUSTRALIA ... Moderate to heavy rain continues to benefit vegetative winter grains in the east.

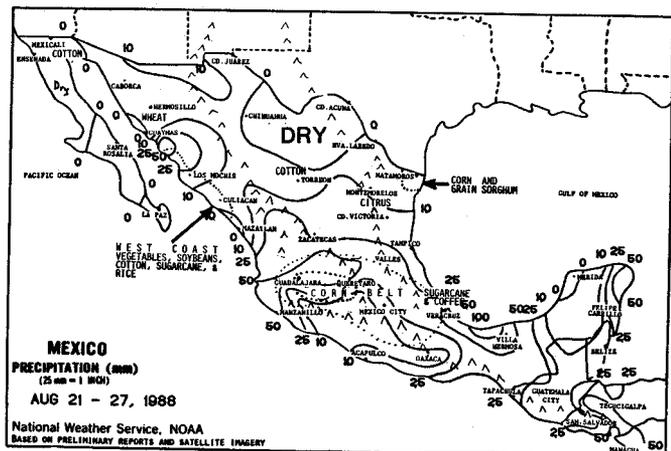
MEXICO ... Periodic rain benefits agriculture.

CANADA ... Showers continue across the Prairies, causing some harvest delays.

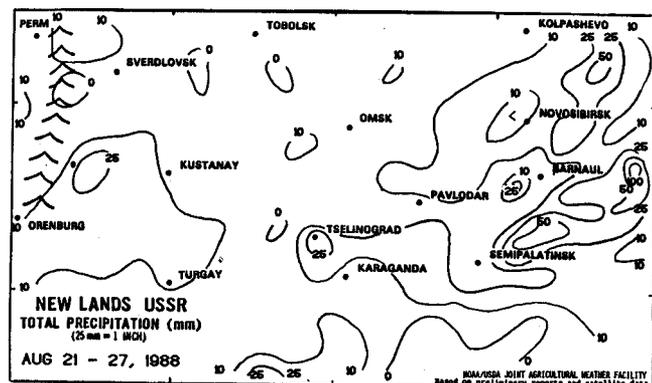


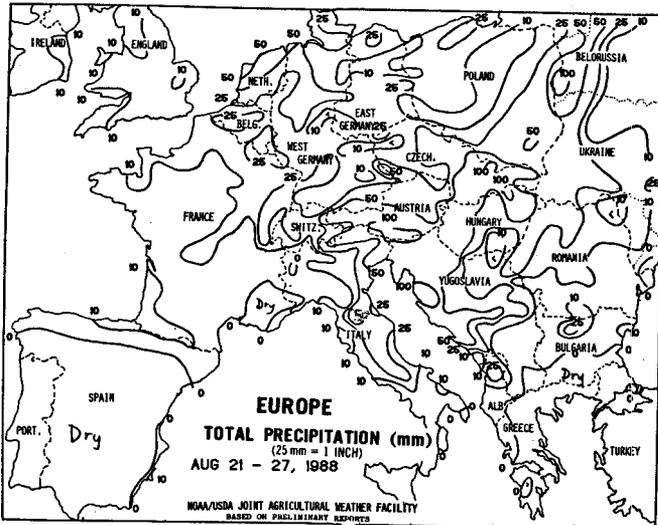
USSR ... In Western USSR, winter grain planting continued in the eastern portion of the Central Region, the Black Soils Region, the upper Volga, and the Volga Vyatsk helped by mostly dry weather. Topsoil moisture in these areas was adequate to abundant for emergence and early plant establishment. Widespread moderate to heavy rain (30-80mm) in the Baltic States, western Belorussia, and the western portion of the Ukraine caused delays in summer crop harvesting and winter grain planting. Mostly dry weather in the southern Ukraine and the North Caucasus favored corn and sunflower maturation and helped early harvest activities. Average weekly temperatures were near normal in the south and 2-4 degrees C above normal across the north.

In the New Lands, spring grain harvesting continued to advance northward. Unseasonable, warm and mostly dry weather in the Urals, the western half of West Siberia, and central Kazakhstan allowed a rapid harvest pace. Intermittent showers in crop areas east of a line which stretched northward from Semipalatinsk, through Barnaul and Novosibirsk, slowed crop maturation and delayed harvesting. Weekly average temperatures were 2-5 degrees C above normal over most of the region. Highest weekly temperatures ranged from 28 to 31 degrees C in the south and 25 to 28 degrees C in the north.

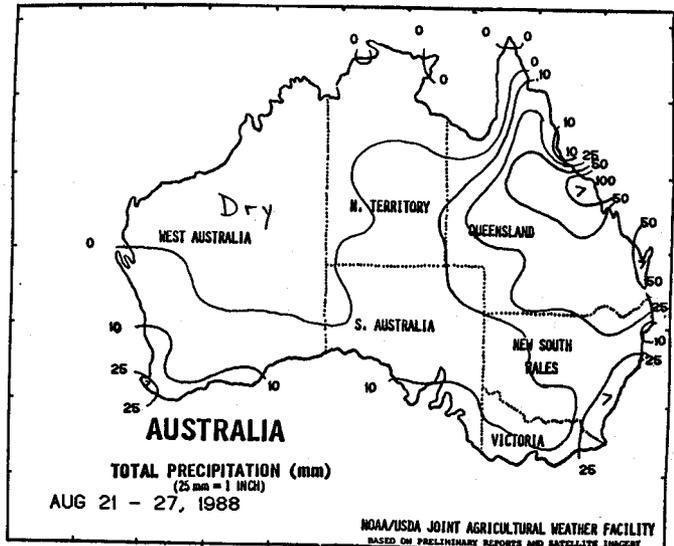


MEXICO ... Periodic showers continued to provide adequate moisture for crop development in western and southern Mexico. Rain (10-25mm) helped irrigation reservoirs in the northwest and favored summer crops along the west coast farming region. Several days of dryness in the northeast promoted crop harvesting. Adequate moisture promoted crop development in the Southern Plateau corn belt. Locally heavy showers (50-99mm) soaked western areas. Tropical showers also covered much of southern Mexico with light rain over the Yucatan peninsula.

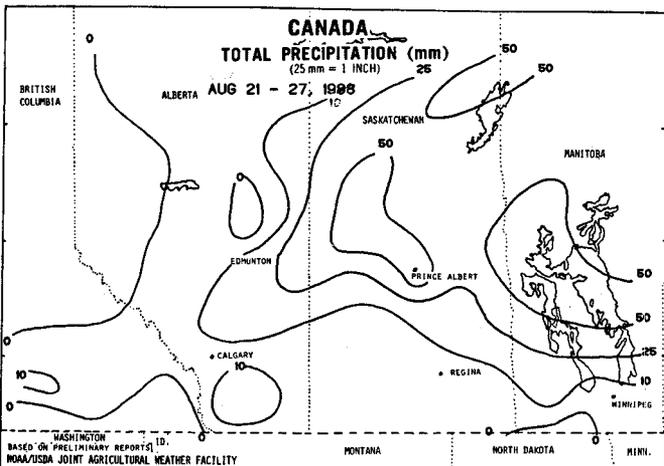




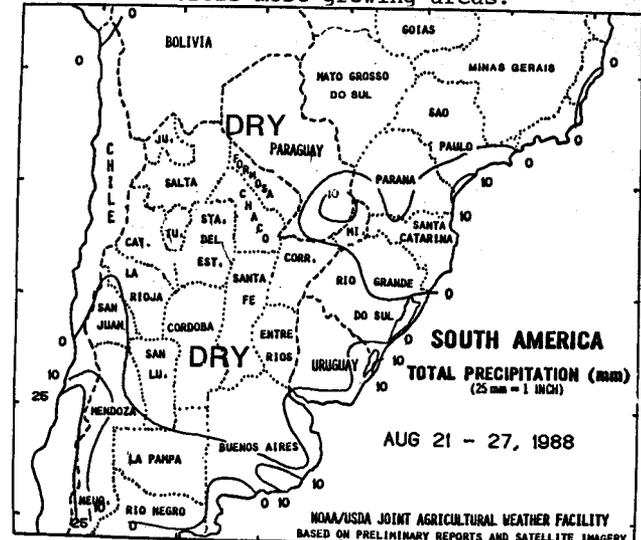
EUROPE ... Moderate to heavy rain (10-20mm, with scattered amounts greater than 50mm) helped alleviate dryness across Hungary, northern Yugoslavia, and northern Romania. Mostly light rain (less than 10mm) covered the remainder of southeastern Europe. The precipitation benefited some late-maturing summer crops but was too late to prevent yield reductions in spring planted corn and oilseed crops, which were stressed by excessive heat and dryness over the past 2 months. In northern Europe, late-week moderate to heavy rain (15-30mm, with scattered rainfall greater than 40mm) caused delays in winter grain harvest and early fall tillage from northeastern France eastward to Poland, while southwestern Europe remained mostly dry. Mean temperatures were normal to below normal over nearly all of Europe except for the extreme south, where they remained above normal.



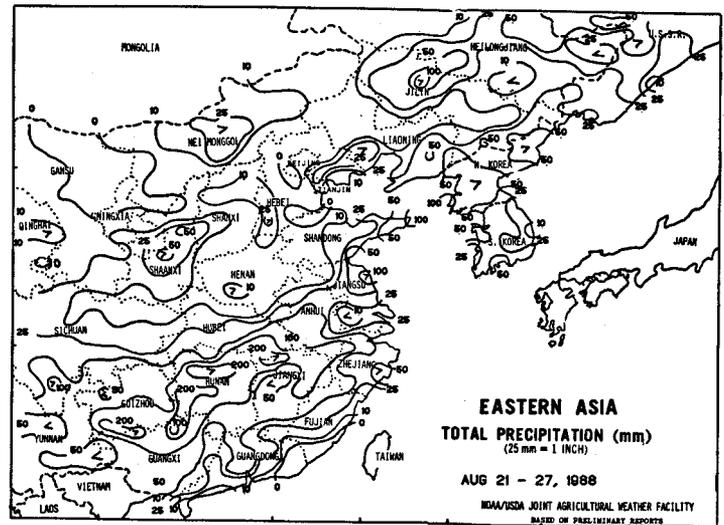
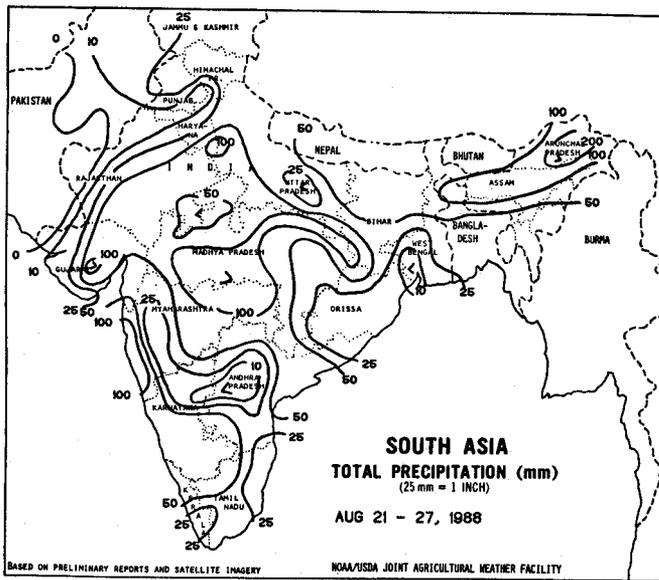
AUSTRALIA ... Widespread moderate to heavy rain (20-40mm) continued across eastern winter grain areas in Queensland and northern New South Wales, benefiting the vegetative crop. Very heavy rain (50-100mm, with isolated rainfall greater than 100mm) delayed sugarcane harvesting and likely caused flooding along Queensland's eastern coast. In the south, light to moderate rain (5-20mm) favored early growth of winter cereals from Western Australia eastward to Victoria and southern New South Wales. Soil moisture levels remain mostly favorable for winter crops. Weekly mean temperatures were near normal across most growing areas.



CANADA ... Moderate to heavy rain (10-25mm or more) continued for the second week across the northern half of the Prairies, creating unfavorably wet field conditions for maturing crops. Late-week dry weather brought some relief, but a continuation of dry, warmer weather is needed for maturation, especially in the northwest. Rainfall averaged less than 10mm from southern Alberta to Manitoba, allowing some harvesting. Weekly temperatures were slightly above normal to the west and below normal over Saskatchewan, with minimum temperatures in isolated areas reaching a low of 2 degrees C.

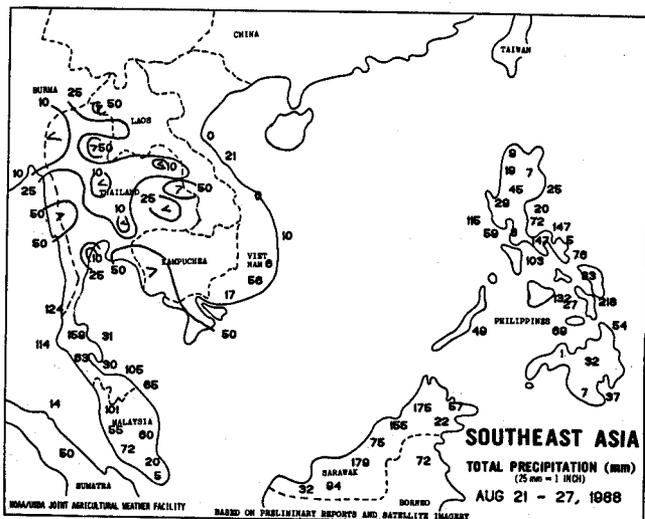


SOUTH AMERICA ... Dry weather prevailed over most of Argentina's major wheat areas, except for some lingering showers in eastern Buenos Aires early in the week. Limited topsoil moisture continued to hamper wheat establishment. Unseasonably hot weather during the first half of the week, with maximum temperatures pushing over 30 degrees C in western wheat areas, aggravated poor growing conditions. Cooler weather relieved heat stress late in the week. In south-central Brazil, mild, dry weather prevailed throughout the week with a cooling trend by week's end. Moisture reserves are diminishing rapidly. Dry weather continued in northern coffee areas. Rain is needed over the entire region during the next few weeks with the onset of the spring planting season.



SOUTH ASIA ... Much-needed rain (25-99mm) covered summer crop regions of Tamil Nadu and southern Karnataka, benefiting reproductive to filling grains and oilseeds. However, pockets of minimal rain (less than 10mm) covered portions of western Maharashtra, northern Karnataka, and western Andhra Pradesh. Moisture is limited in parts of Karnataka and western Maharashtra for reproductive to filling crops. Elsewhere in the south, conditions continued favorable in coastal regions for heading rice. In central and western India, rainfall increased from the previous week with amounts ranging from 50 to 100mm or more over large portions of Rajasthan, Gujarat, Madhya Pradesh, and to the south, central, and western Maharashtra, maintaining favorable growing conditions. Mostly light rain (less than 30mm) fell in rice regions from Orissa to West Bengal, but heavy rain (100-200mm or more) in the eastern states and Bangladesh caused flooding and local crop damage. Light to moderate rain (10-50mm or more) fell in the north from Bihar to northern Pakistan, boosting irrigation reserves but likely causing some local flooding.

EASTERN ASIA ... Widespread rain (10-50mm) continued across much of central and southern China, delaying early stages of intermediate rice harvest, but favoring the vegetative late-planted crop. Very heavy rain (100-200mm, with isolated amounts greater than 200mm) likely caused flooding in sections of Guizhou, Guangxi, and over portions of the Yangtze Valley. Heavy rain (50-100mm) also fell over crop areas in Japan, creating unfavorably wet conditions for azuki beans on the island of Hokkaido. In the north, moderate to heavy rain (20-50mm) caused delays in late spring grain harvest across sections of Shanxi, Nei Mongol, Jilin, and Heilongjiang. Mostly dry weather favored drydown of maturing summer crops across sections of Hebei, western Shandong, and Henan. Mean temperatures were below normal in all areas except the southeast and Japan, where they were above normal.



SOUTHEAST ASIA ... Variable rain (10-50mm or more) covered Thailand's rainfed rice regions, maintaining generally favorable moisture conditions for crop development. However, rainfall averaged less than 25mm over central portions of the Khorat Plateau, reflecting the recent trend of drier-than-normal weather. The rain in central Thailand caused some corn harvesting delays. Mostly moderate showers (25-93mm) fell over western Kampuchea, Laos, and most of Vietnam, with heavier rain (100mm or more) over parts of the Malay Peninsula. In the Philippines, scattered showers continued over most regions, with rainfall ranging from 50 to 122mm in western and southern Luzon, the central islands, and parts of central Mindanao. Light rain (7-19mm) covered grain regions of northern Luzon.

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(Continued from p. 18)

pea harvest complete western area. Cucumber harvest continued Skagit County. Cauliflower, broccoli, beet harvest underway Skagit County. Range, pasture conditions mostly short southeast area, short to adequate elsewhere.

WEST VIRGINIA: Average temperature 71^o, 1^o below to 2^o above normal. Extremes 43^o Greenbank; 97^o Gary. Average precipitation 1.08 in., 0.14 in. below to 0.88 in. above normal.

Days suitable for fieldwork 4.7. Soil moisture 9% very short, 72% short, 19% adequate. Corn fair to poor; 91% silked, 64% dough. Apples, peaches good to fair. Pasture fair to poor. Hay poor to fair. Cattle, sheep good to fair. Feed supplies 18% very short, 43% short, 39% adequate. Feed from pasture 77%. Farm activities: Haying, general farm maintenance, livestock care.

WISCONSIN: Much cooler, temperatures averaged 64^o, 3^o below normal. Extremes 37^o; 88^o. Precipitation 0.80 to 2.10 in.

Days suitable for fieldwork 5.0. Soil moisture 74% short, 26% adequate. Crops 12% very poor, 38% poor, 41% fair, 9% good. Corn 12% very poor, 34% poor, 43% fair, 11% good. Corn maturing, drying rapidly. Corn 85% in dough, 88% 1987, 70% avg. Corn 58% in dent, 58% 1987, 32% avg. Corn 12% mature, 10% 1987, 3% avg. Corn silo filling 8%,

early start to salvage poor crop. Oats 93% harvested, 96% 1987, 92% avg. Third crop hay 40% cut, 38% 1987, 27% avg. Later cuttings appear best of season. Soybeans 15% turning, 12% 1987. Feed, roughage supplies 20% very short, 65% short, 15% adequate. Tobacco harvest started.

WYOMING: Temperatures above normal. Rainfall well below normal.

Days suitable for fieldwork 7.0. Topsoil moisture 94% short, 6% adequate. Barley 15% mature, 15% 1987, 15% avg.; 85% harvested, 75% 1987, 75% avg. Spring wheat 10% mature, 15% 1987, 20% avg.; 90% harvested, 80% 1987, 75% avg. Oats 5% turning color, 5% 1987, 10% avg.; 20% mature, 30% 1987, 25% avg.; 75% harvested, 65% 1987, 60% avg. Corn 40% milk, 55% 1987, 40% avg.; 45% dough, 35% 1987, 40% avg.; 15% dented, 10% 1987, 15% avg.; none mature, none 1987, 5% avg. Dry beans 70% leaves turning color, 80% 1987, 70% avg.; 30% windrowed, 20% 1987, 20% avg.; 5% combined, none 1987, 5% avg. Alfalfa 2nd cutting 85%, 80% 1987, 75% avg. Other hay 95% harvested, 95% 1987, 90% avg. Winter wheat 1989 crop 5% seeded, 5% 1987, 15% avg.; none emerged, small amount 1987, small amount average. Fall grazing prospects poor to fair. Ranges, pastures poor to fair. Hay roughage supplies 10% very short, 60% short, 25% adequate, 5% surplus. Livestock feed obtained from pastures 90%.

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