

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

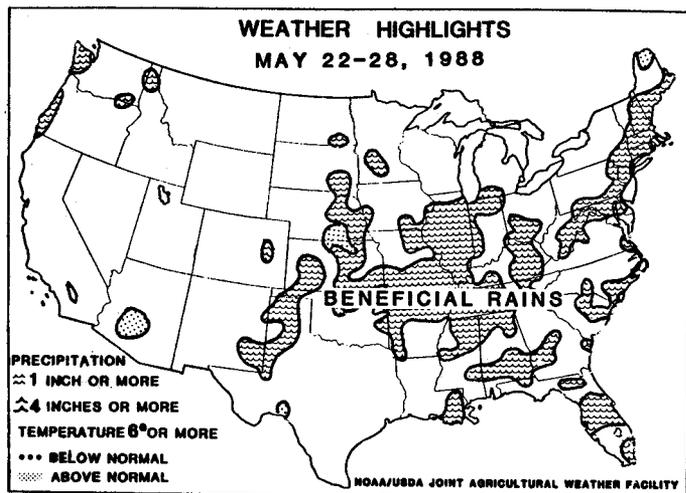
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June 1, 1988

National Weather Summary

May 22-28, 1988



WEDNESDAY...Rain lingered along the eastern seaboard, as very cool Canadian air invaded the Great Lakes region and the Ohio Valley. Showers and thunderstorms were scattered over the central and southern High Plains.

THURSDAY...Fair, cool weather dominated the Nation east of the Mississippi River, except for New England which continued to experience rainy weather from the frontal system that had brought rain to much of the East on Wednesday. Scattered showers and thunderstorms extended from the northwest Pacific coast to the upper Mississippi Valley.

FRIDAY...Thunderstorms were scattered throughout the Rockies and High Plains. Locally heavy rain caused flooding in western Kansas. Rain was falling along the northern Pacific coast in advance of a strong frontal system off the coast. Rain fell along the Carolina coast and over southern Florida.

HIGHLIGHTS: A storm system moved slowly from the southern Great Plains through the Mississippi Valley, the Ohio Valley, and finally to the Atlantic coast, producing needed rainfall through the central winter wheat belt and through much of the Corn Belt. Cool, dry air moved southward into the north-central States during the latter half of the week. A Pacific storm system brought scattered rain to the Northwest at the end of the week.

SATURDAY...A Pacific storm system produced scattered rainshowers over the Northwest with snow in the higher elevations. Showers and thunderstorms continued in the High Plains. Strong thunderstorms were scattered across the northern Plains. Showers lingered over southern Florida and along the Carolina coast.

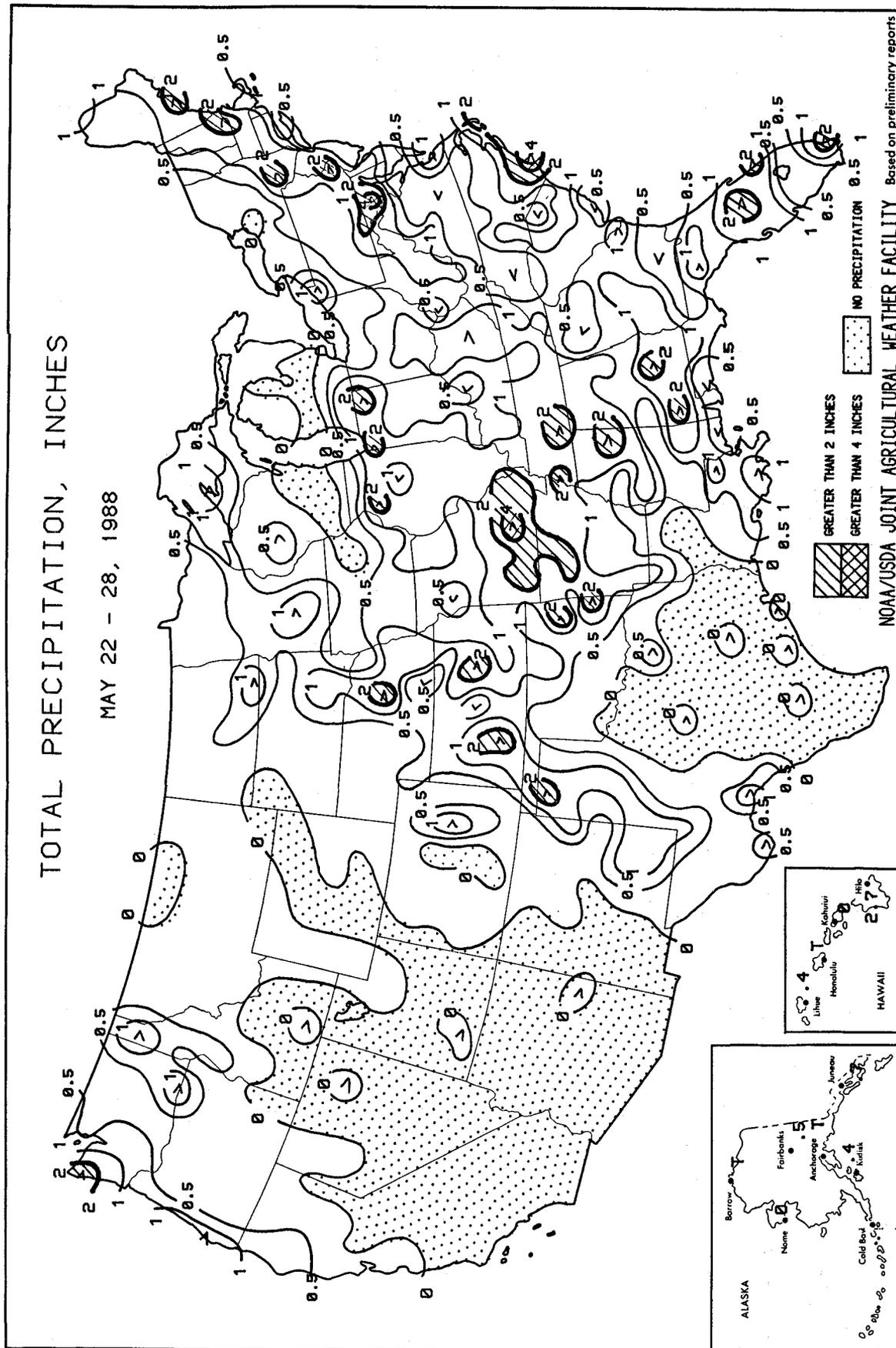
SUNDAY...A low-pressure system moved from Kansas to Missouri, spreading rain as far west as Colorado and as far north as Minnesota and North Dakota. Strong thunderstorms moved through the middle and lower Mississippi Valley.

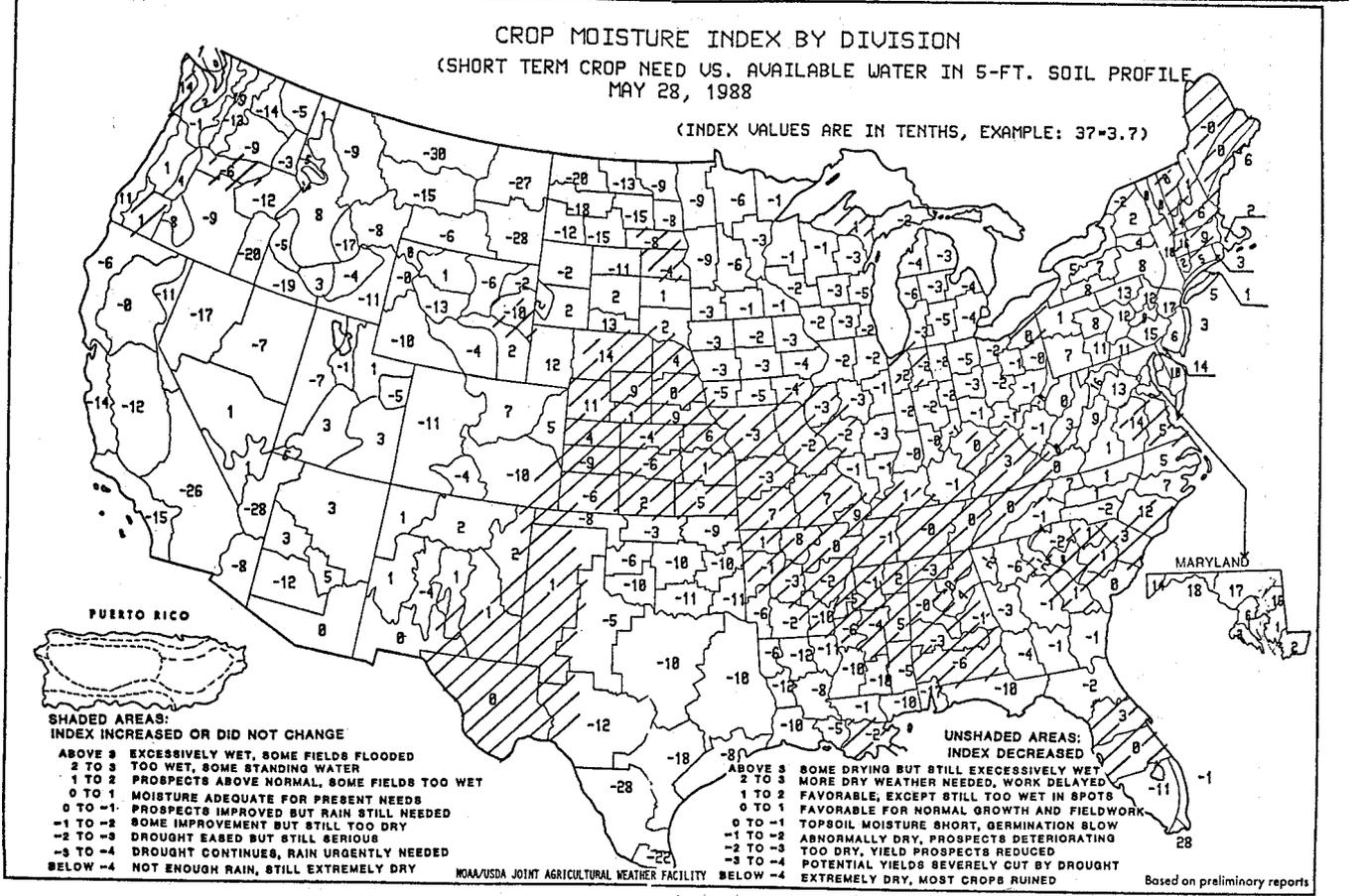
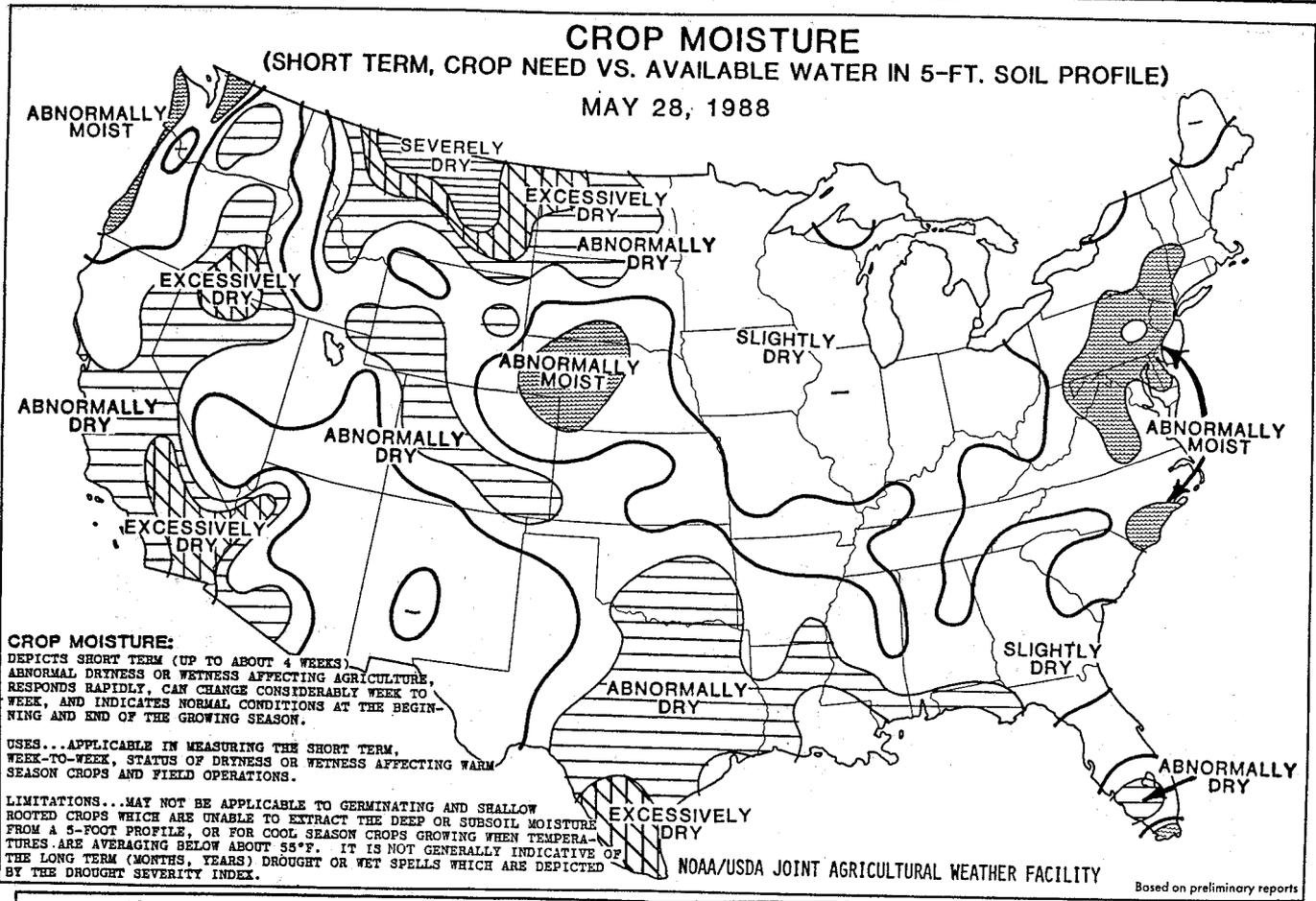
MONDAY...The rain-producing system spread into the eastern United States. Thunderstorms reached from western Pennsylvania into the Carolinas. Beneficially scattered rain fell across the Corn Belt and into the Southeast.

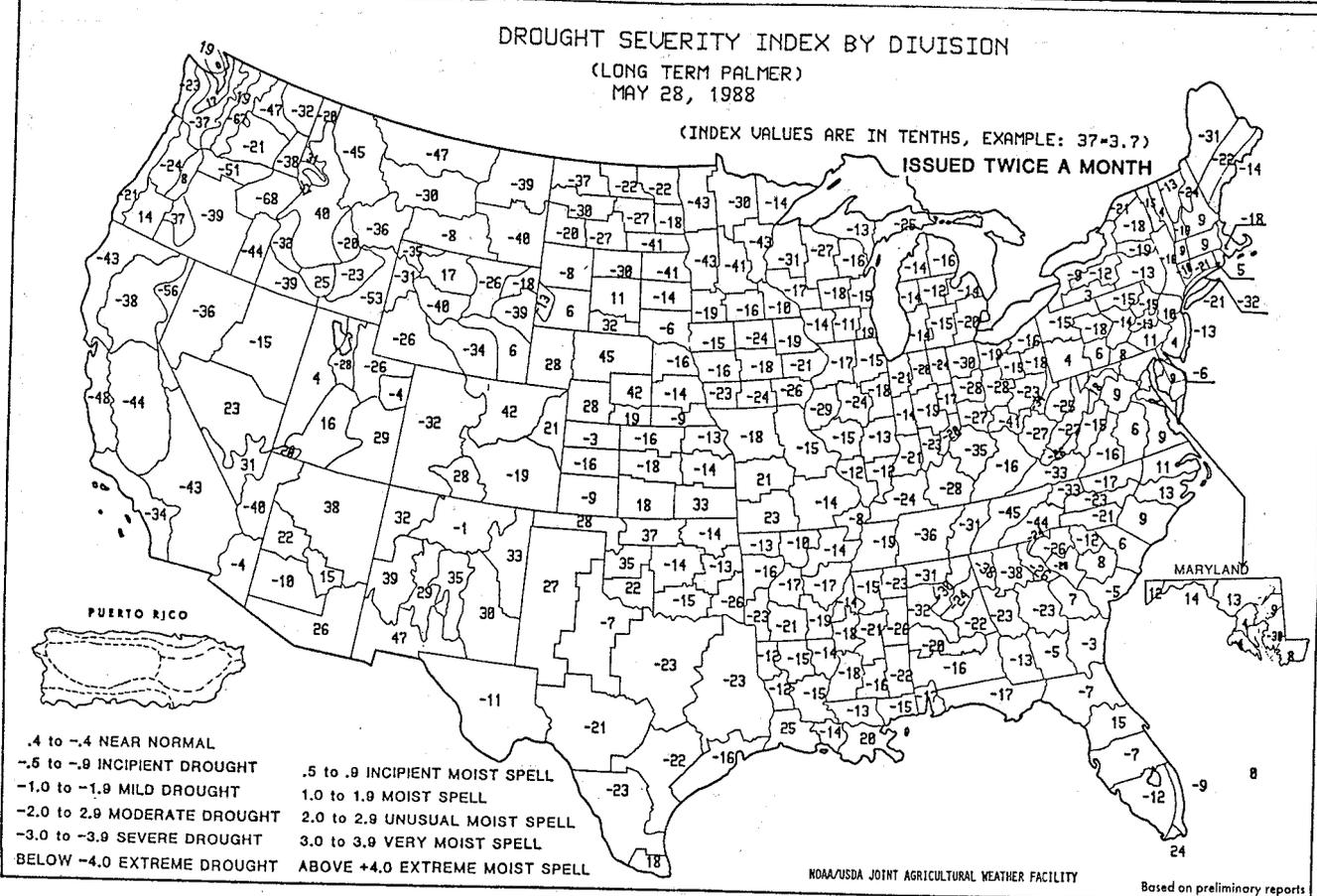
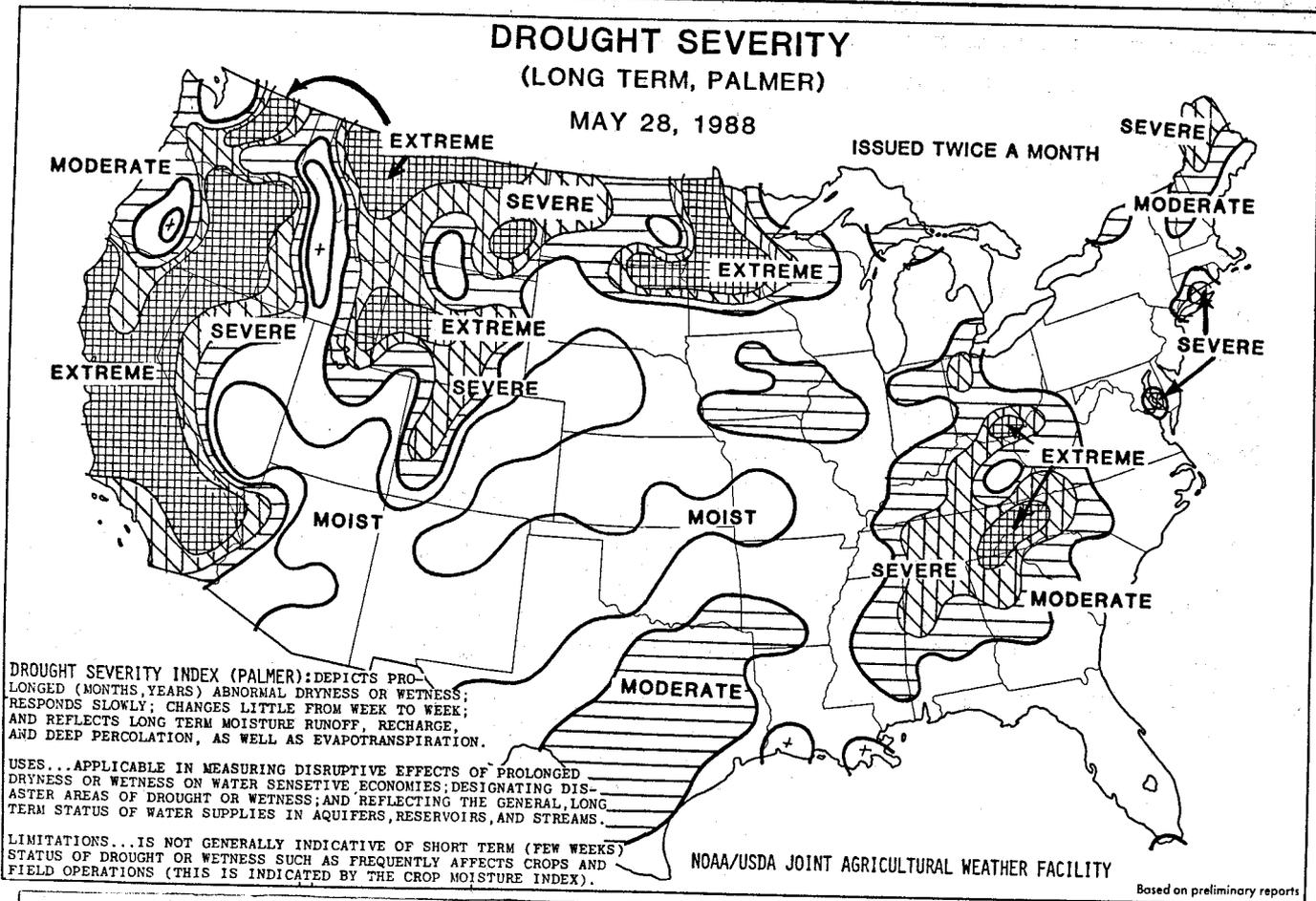
TUESDAY...Rain fell in a broad swath through the Ohio, Tennessee, and Mississippi Valleys. Thunderstorms broke out in the afternoon through much of the Nation east of the Mississippi River.

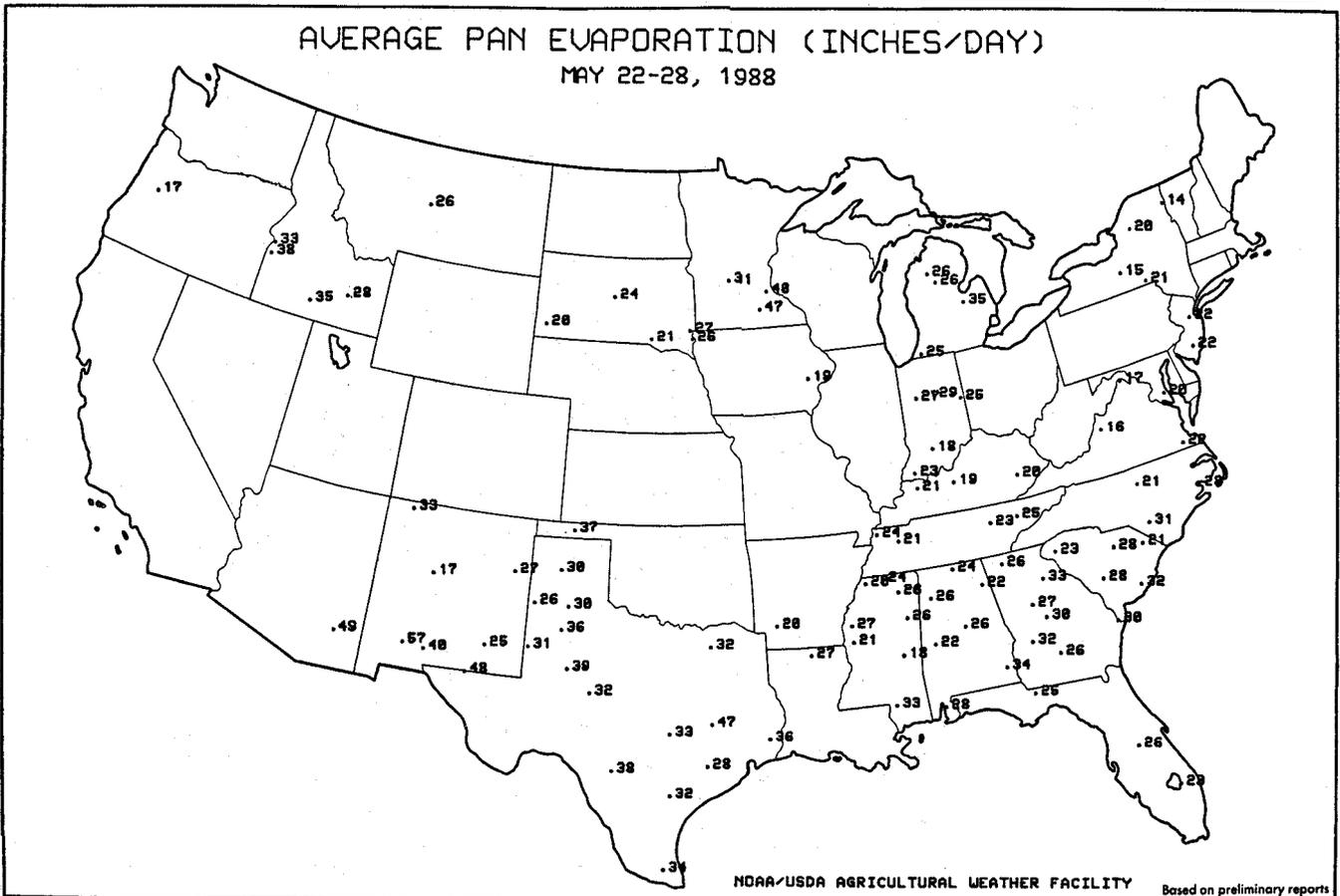
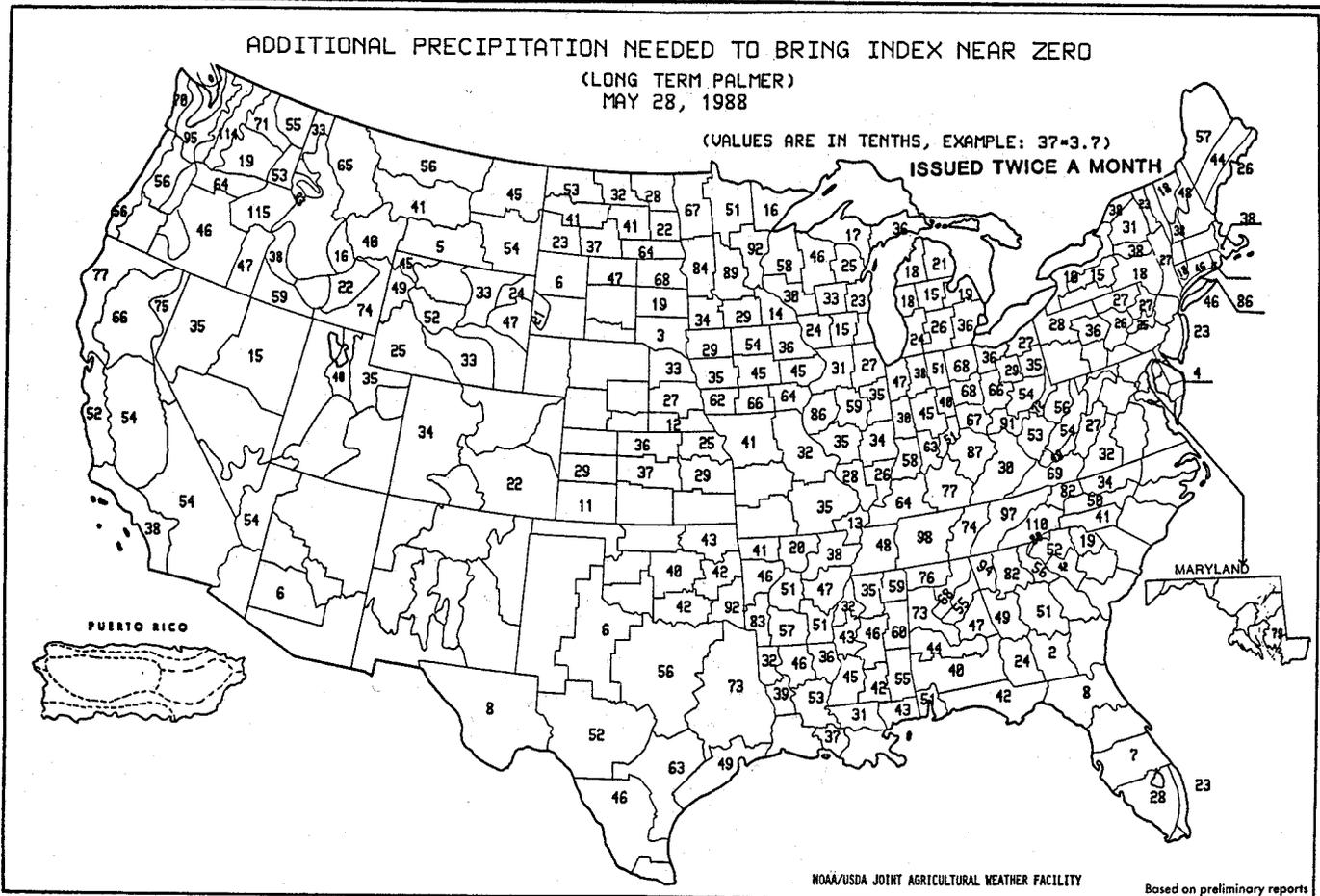
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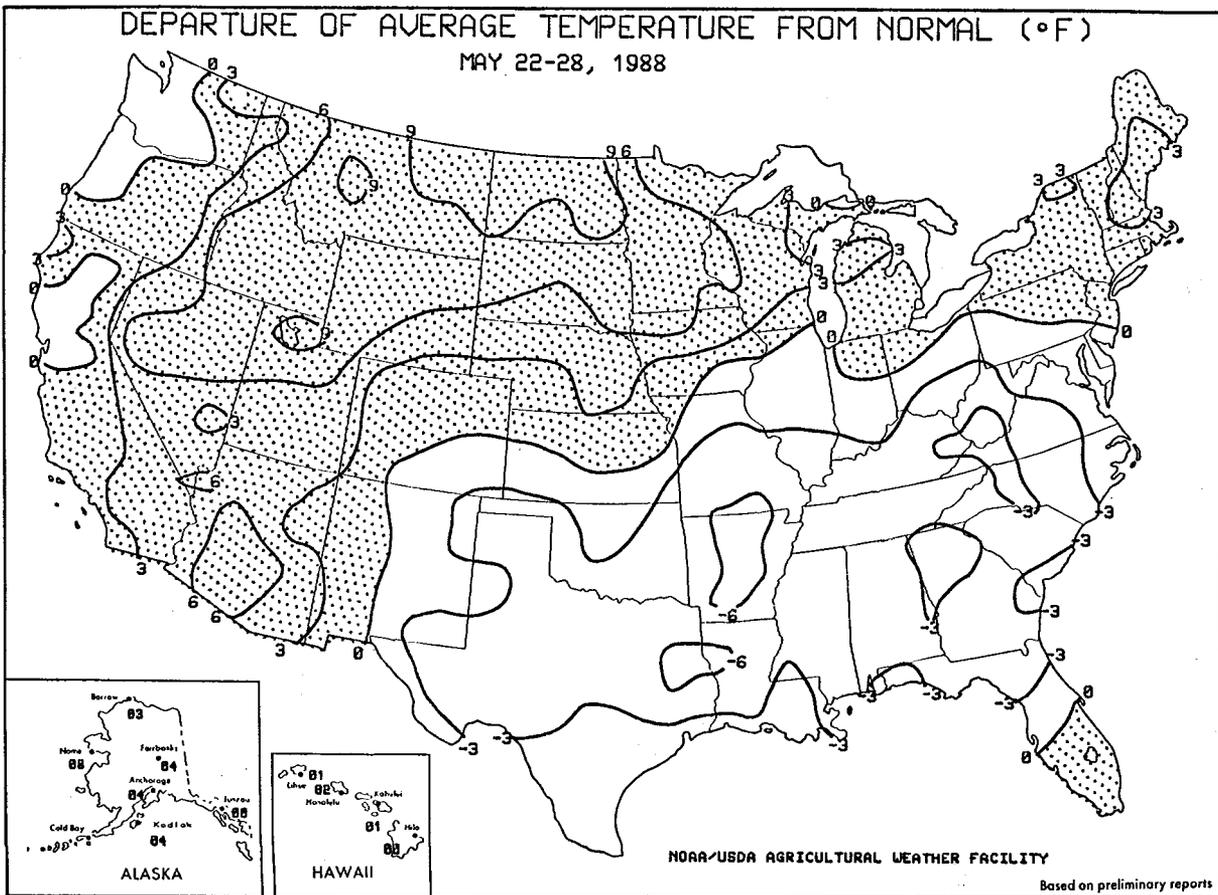
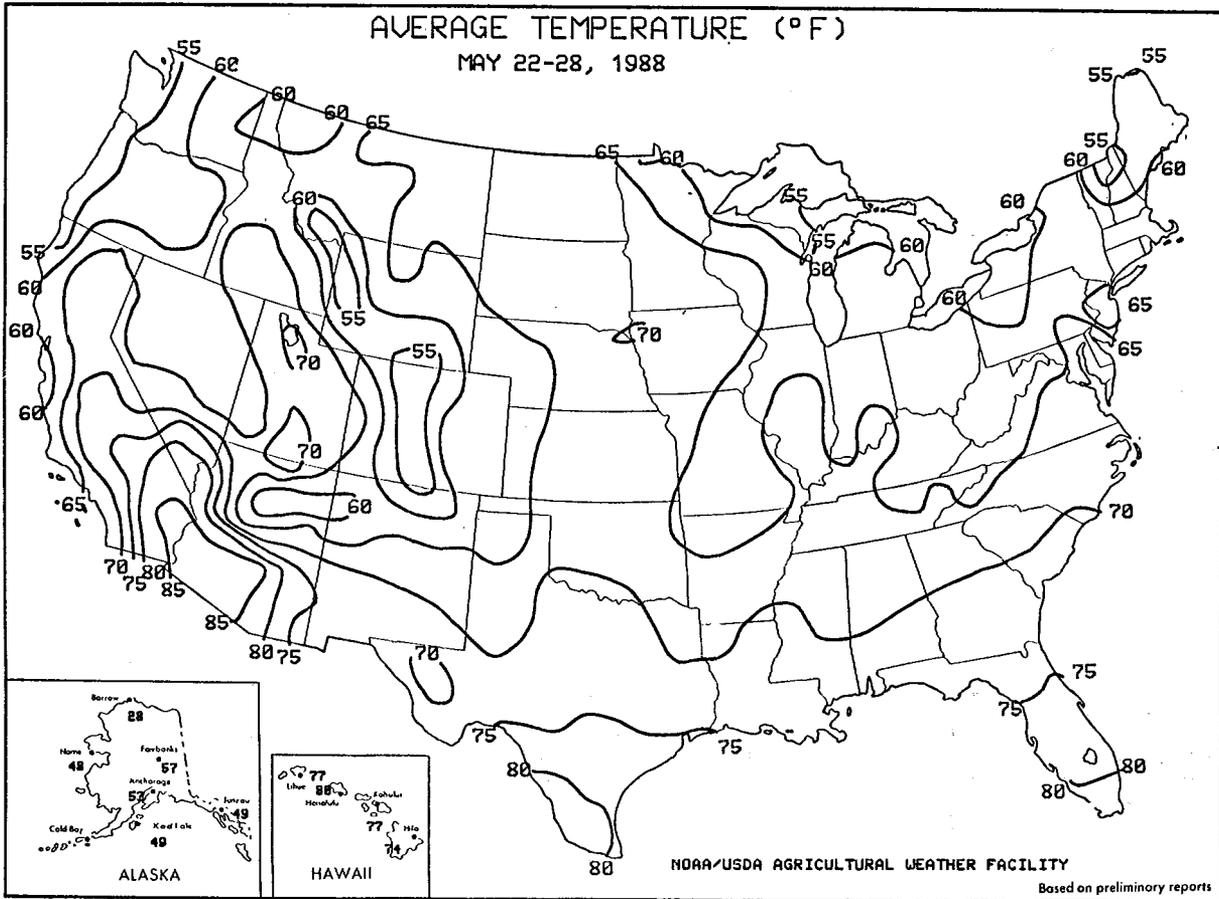
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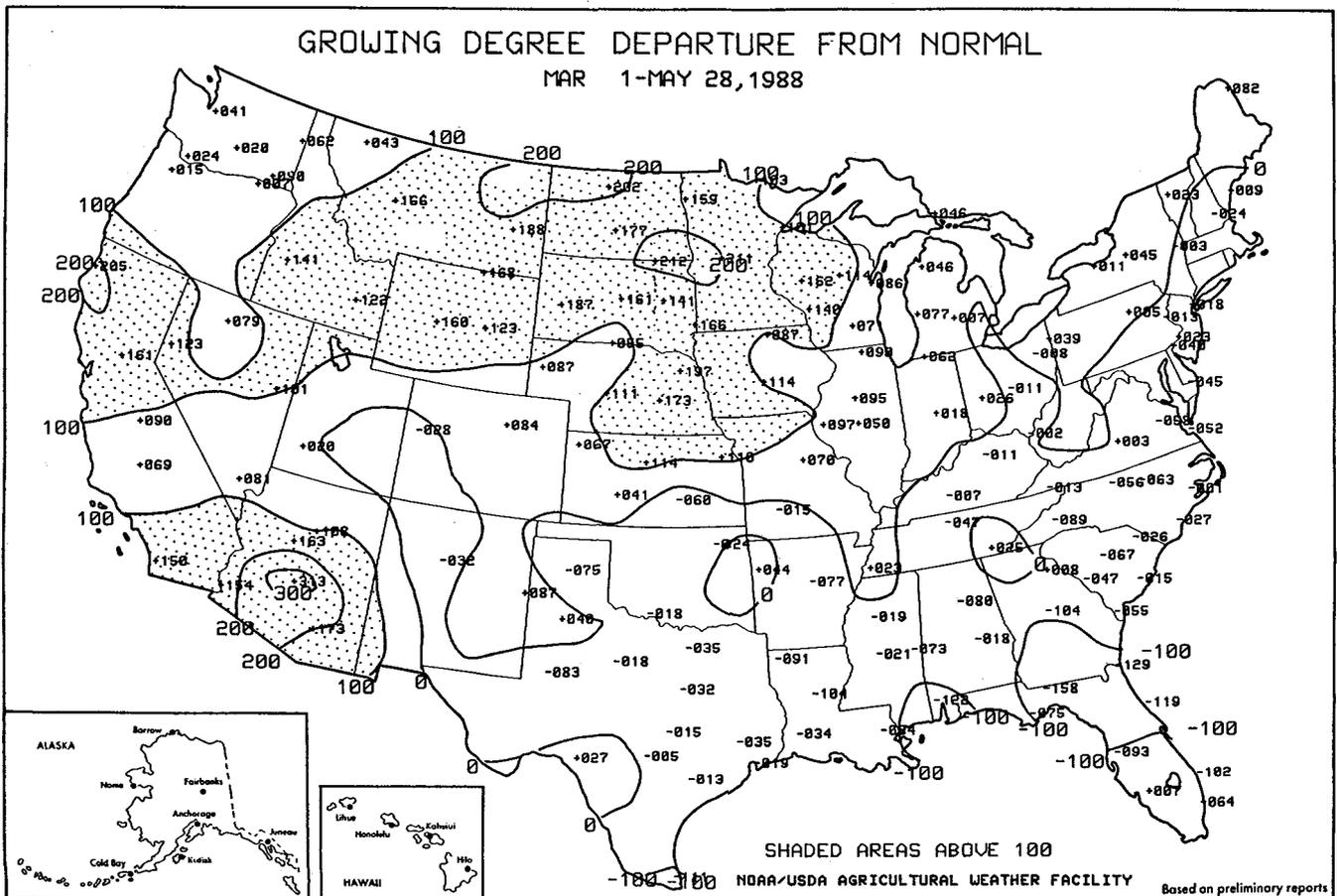
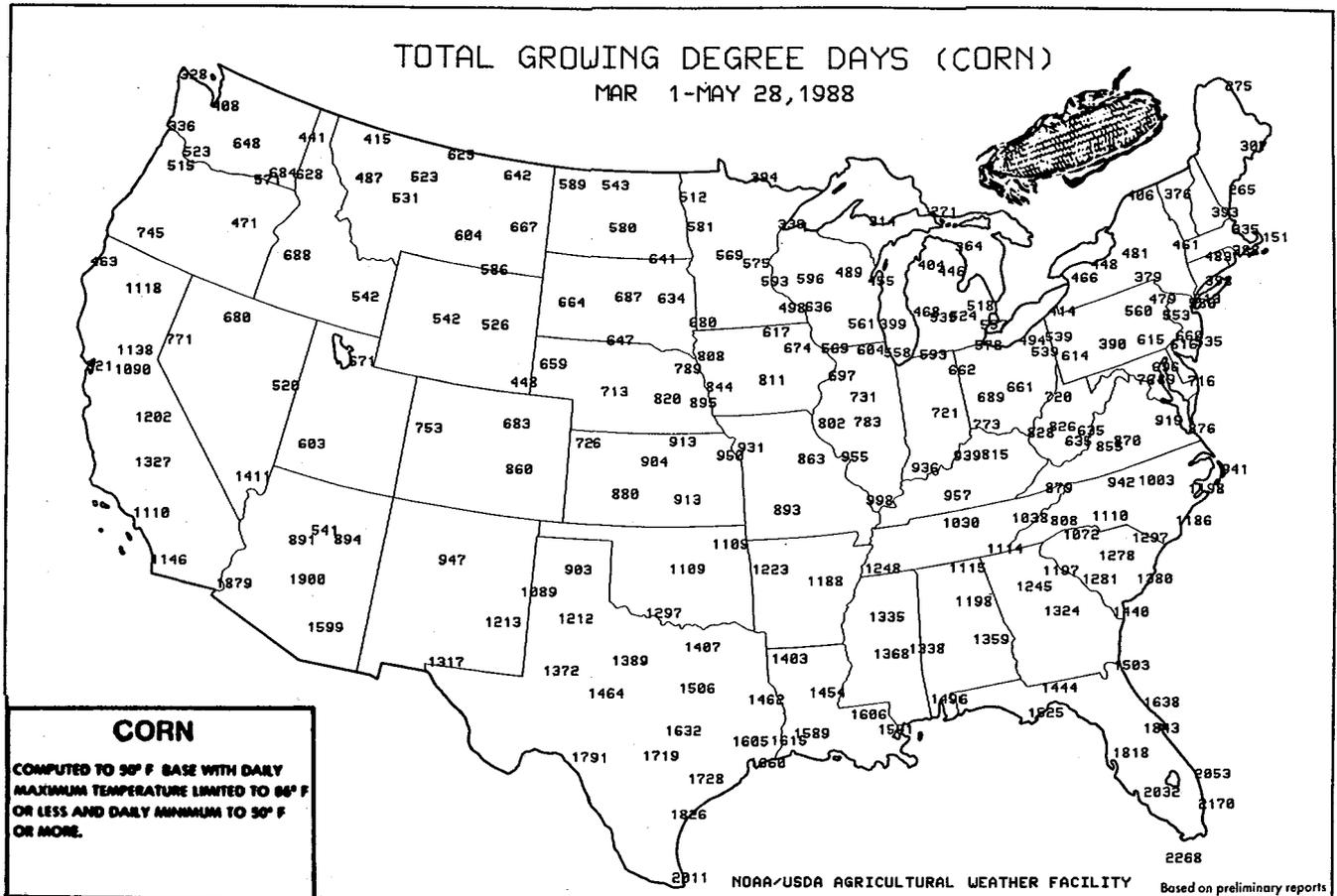


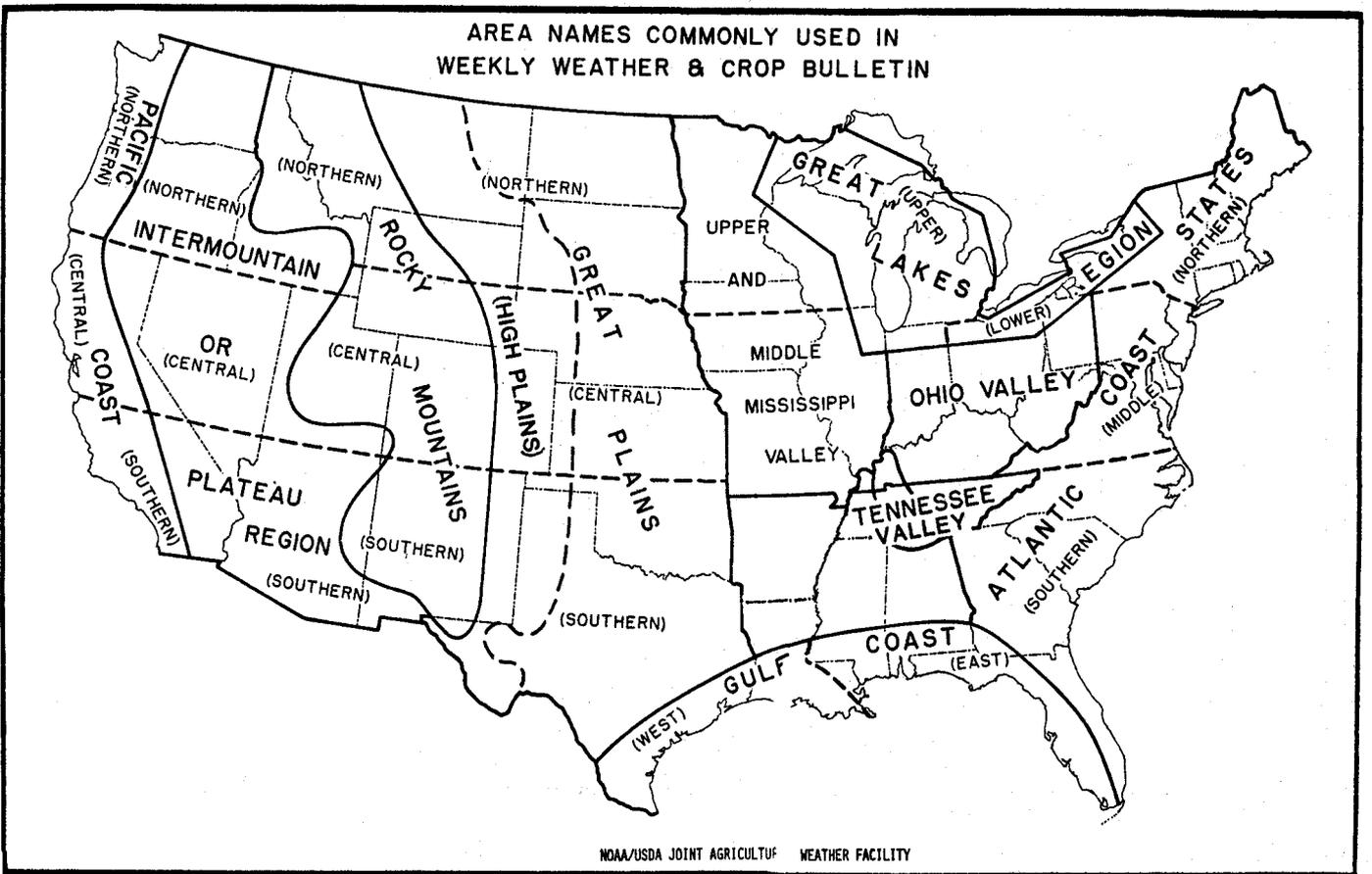
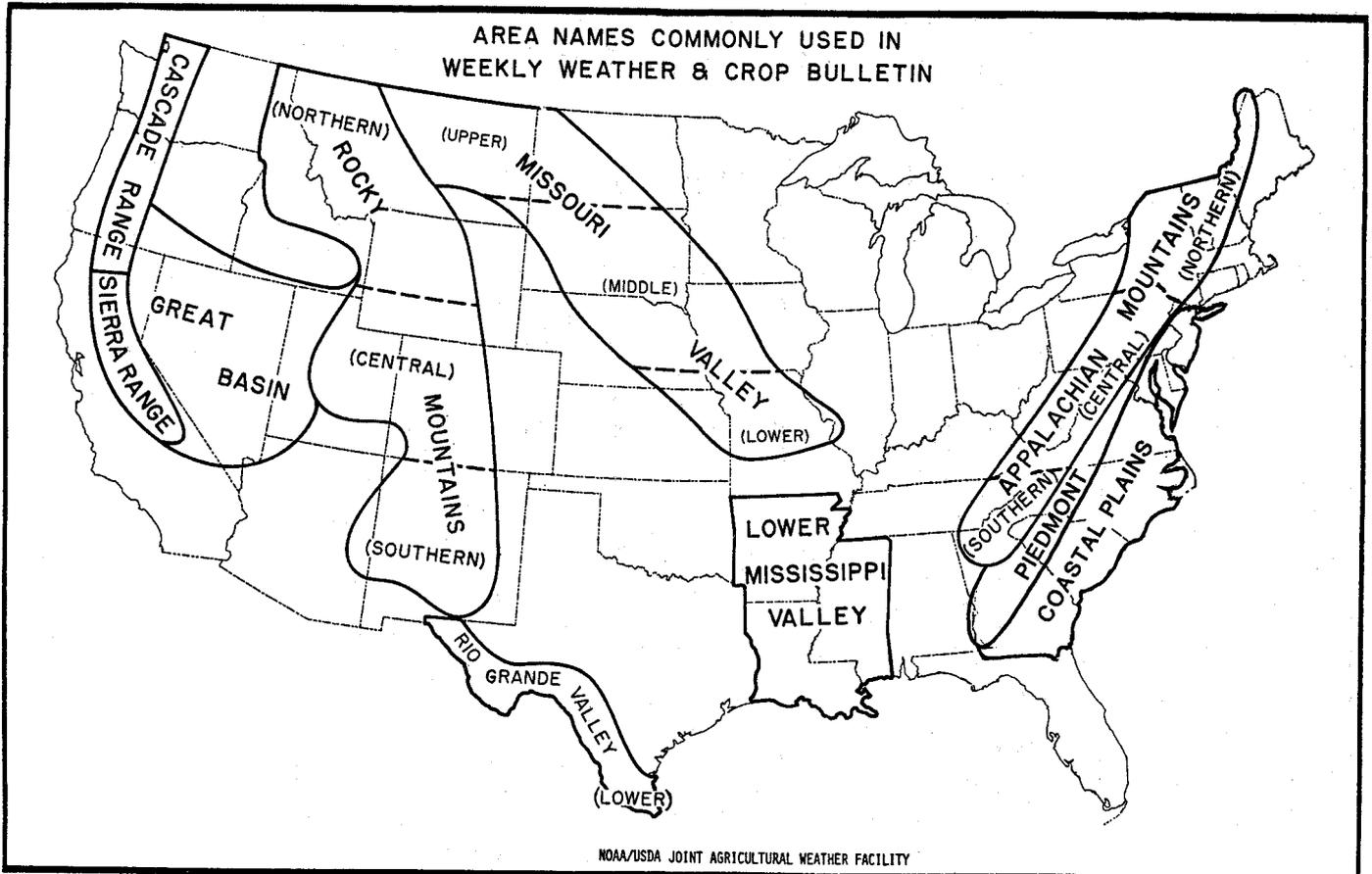












National Weather Data for Selected Cities

Weather Data for the Week Ending May 28, 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 MAR 1	PCT. NORMAL SINCE MAR 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	80	54	87	46	67	-5	.8	-.2	.4	7.4	47	15.0	58	95	41	0	0	3	0
MOBILE	85	61	87	56	73	-4	.2	-1.1	.1	12.6	75	23.5	89	92	40	0	0	2	0
MONTGOMERY	83	58	87	51	70	-4	2.6	1.8	1.4	14.3	103	25.7	114	94	43	0	0	3	0
AK ANCHORAGE	60	46	65	43	53	4	T	-1.1	T	1.6	91	2.3	68	74	42	0	0	1	0
BARROW	31	24	35	21	28	3	T	0	T	2.2	36	.2	24	97	83	0	7	1	0
FAIRBANKS	67	47	72	43	57	4	.5	.3	.2	1.5	132	2.0	93	83	36	0	0	5	0
JUNEAU	56	42	60	37	49	0	.7	-1.1	.6	9.9	107	18.9	113	98	54	0	0	3	1
KODIAK	55	42	63	37	49	4	.4	-1.8	.2	17.4	141	34.6	148	89	58	0	0	3	0
NOME	59	38	65	28	48	8	0	0	0	2.1	131	4.0	136	81	42	0	2	0	0
AZ PHOENIX	103	75	106	72	89	9	0	0	0	1.3	110	2.4	98	27	9	7	0	0	0
PRESCOTT	84	50	86	45	67	7	T	-1.1	T	2.6	94	4.4	72	39	11	0	0	0	0
TUCSON	102	65	105	61	83	7	0	0	0	1.5	138	2.5	97	27	7	7	0	0	0
YUMA	102	70	107	66	86	5	0	0	0	.6	229	1.0	112	40	13	7	0	0	0
AR FORT SMITH	82	55	87	44	69	-4	.9	-2.2	.6	11.9	95	15.6	92	95	30	0	0	2	1
LITTLE ROCK	76	58	85	51	67	-7	.9	-3.3	.6	9.1	61	15.3	67	73	49	0	0	2	1
CA BAKERSFIELD	90	58	95	54	74	1	0	0	0	1.8	102	2.9	78	63	19	3	0	0	0
EUREKA	62	53	70	50	57	4	.7	.4	.7	5.0	54	12.7	59	87	62	0	0	1	1
FRESNO	88	57	95	55	73	2	0	0	0	3.1	105	5.5	79	68	22	3	0	0	0
LOS ANGELES	70	58	74	56	64	0	0	0	0	1.2	45	4.6	56	92	64	0	0	0	0
REDDING	82	57	88	53	69	-2	.5	.3	.5	6.8	78	14.2	60	82	29	0	0	1	1
SACRAMENTO	82	52	89	50	67	0	T	0	T	2.6	73	6.5	62	86	34	0	0	0	0
SAN DIEGO	70	61	77	60	65	1	T	0	T	4.3	163	6.7	104	85	64	0	0	0	0
SAN FRANCISCO	65	51	71	49	58	0	.1	.1	.1	2.4	54	6.7	54	90	58	0	0	1	0
CO DENVER	76	47	85	38	62	1	T	-5.5	T	6.1	115	7.1	109	84	27	0	0	0	0
GRAND JUNCTION	84	52	88	44	68	3	T	-2.2	T	2.6	125	3.9	119	49	13	0	0	0	0
PUEBLO	80	47	90	44	64	-1	T	-3.3	T	2.9	96	4.3	121	93	27	1	0	0	0
CT BRIDGEPORT	74	54	82	48	64	3	.5	.3	.3	6.5	61	12.8	75	86	51	0	0	3	0
HARTFORD	77	51	87	41	64	1	1.4	.7	1.1	7.9	70	15.2	85	96	49	0	0	3	1
DC WASHINGTON	78	55	85	47	67	-2	.5	.3	.4	8.8	92	14.4	97	93	45	0	0	3	0
FL APALACHICOLA	82	65	86	58	74	-3	.7	-1.1	.4	9.7	98	21.1	123	89	53	0	0	2	0
DAYTONA BEACH	86	65	94	59	75	-1	.9	-1.1	.4	8.0	98	15.1	109	96	50	3	0	3	0
JACKSONVILLE	85	62	94	52	73	-4	.2	-1.9	.1	7.3	72	19.7	117	96	43	3	0	2	0
KEY WEST	87	77	88	71	82	0	.6	-3.3	.5	9.6	168	14.8	157	87	66	0	0	2	0
MIAMI	90	72	93	70	81	2	2.0	.3	1.7	5.7	52	8.2	54	90	49	4	0	2	1
ORLANDO	89	67	93	65	78	-1	2.1	1.0	1.3	10.9	123	15.4	108	93	46	3	0	3	1
TALLAHASSEE	87	57	93	45	72	-4	.1	-1.2	.1	11.7	82	22.3	92	96	35	2	0	2	0
TAMPA	88	67	90	63	77	-2	1.3	.4	.7	7.2	88	11.4	84	93	48	3	0	2	2
WEST PALM BEACH	88	71	92	69	80	1	.4	-1.1	.3	12.2	107	18.6	111	95	53	3	0	3	0
GA ATLANTA	81	60	86	53	70	-1	.1	-1.8	.1	10.3	74	18.3	78	79	34	0	0	1	0
AUGUSTA	84	55	94	46	70	-4	.6	-3.3	.3	9.8	85	17.4	89	98	34	2	0	3	0
MACON	84	58	89	47	71	-4	1.1	-2.2	.9	10.8	89	18.7	89	95	34	0	0	2	1
SAVANNAH	85	62	93	49	73	-2	1.0	-1.1	.9	10.7	95	18.2	104	87	36	2	0	2	1
HI HILO	80	67	83	65	74	0	2.7	.9	1.6	33.2	95	53.5	92	93	65	0	0	5	2
HONOLULU	87	72	88	71	80	2	T	-2.2	T	2.1	35	6.4	51	80	45	0	0	2	0
KAHULUI	84	70	85	65	77	1	T	-1.1	T	2.4	57	11.1	99	82	51	0	0	0	0
LIHUE	82	73	87	70	77	1	.4	-2.2	.4	6.6	63	19.2	94	85	62	0	0	2	0
ID BOISE	83	53	93	45	68	8	.2	-1.1	.2	3.8	117	5.6	93	62	17	1	0	1	0
LEWISTON	76	52	93	48	64	3	.4	.1	.4	2.7	79	3.8	67	64	30	1	0	1	0
POCATELLO	83	45	87	39	64	7	T	-3.3	T	2.6	83	3.9	76	75	17	0	0	0	0
IL CHICAGO	72	49	88	37	61	-2	.6	-2.2	.6	5.4	58	8.6	70	89	40	0	0	4	1
MOLINE	77	51	87	38	64	-1	1.2	.2	1.1	6.1	58	9.0	67	83	35	0	0	2	1
PEORIA	77	52	87	40	65	0	.8	0	.7	5.9	57	8.6	64	85	34	0	0	2	1
QUINCY	76	52	84	41	64	-3	1.1	.1	.9	4.6	42	6.2	45	87	46	0	0	2	1
ROCKFORD	77	49	88	36	63	0	.4	-4.4	.4	6.5	63	9.5	74	84	36	0	0	2	0
SPRINGFIELD	77	52	86	41	65	-2	1.3	.6	1.0	5.7	56	9.3	69	88	38	0	0	3	1
IN EVANSVILLE	77	51	87	45	64	-5	.8	-2.2	.5	6.0	47	13.2	70	96	42	0	0	3	1
FORT WAYNE	80	50	90	40	65	2	1.6	.8	1.6	7.8	81	11.3	82	79	26	1	0	2	1
INDIANAPOLIS	77	50	86	38	64	-2	.7	-1.1	.6	8.3	79	13.7	87	89	31	0	0	2	1
SOUTH BEND	77	50	88	37	64	1	1.2	.5	.6	7.4	77	11.5	82	83	36	0	0	2	2
IA DES MOINES	78	56	89	50	67	2	.8	-2.3	.3	2.9	32	3.8	34	84	45	0	0	3	0
SIOUX CITY	81	59	88	52	70	5	.2	-1.7	.1	5.2	73	6.4	73	82	43	0	0	2	0
WATERLOO	82	55	91	42	68	6	T	-1.0	T	4.7	49	5.8	51	74	31	1	0	0	0
KS CONCORDIA	81	58	89	52	69	2	.3	-1.7	.2	3.3	43	4.7	50	82	43	0	0	3	0
DODGE CITY	77	55	88	48	66	-2	2.3	1.5	1.4	6.3	101	7.3	101	96	49	0	0	3	2
GOODLAND	76	52	87	47	64	1	.3	-5.5	.1	6.1	125	7.9	142	93	47	0	0	4	0
TOPEKA	79	59	87	50	69	1	.7	-3.3	.6	6.7	76	9.3	85	84	49	0	0	2	1
WICHITA	80	58	87	52	69	0	.6	-4.4	.4	8.9	111	9.6	100	88	50	0	0	2	0
KY BOWLING GREEN	77	51	86	40	64	-5	1.1	.1	.8	7.1	53	14.3	65	98	40	0	0	3	1
LEXINGTON	75	52	84	42	64	-3	.9	0	.4	8.3	65	14.3	73	87	41	0	0	3	0
LOUISVILLE	78	54	86	45	66	-2	.3	-6.6	.2	9.2	73	16.7	87	93	39	0	0	3	0
LA ALEXANDRIA	82	59	84	51	71	-6	T	-1.1	T	13.0	85	18.0	74	85	39	0	0	0	0
BATON ROUGE	87	64	90	59	75	-2	.2	-1.8	.1	14.6	100	31.1	128	86	35	1	0	2	0
LAKE CHARLES	85	63	90	56	74	-3	.2	-1.1	.2	12.5	103	20.8	103	91	42	1	0	1	0
NEW ORLEANS	84	64	88	58	74	-3	.1	-1.0	.1	19.0	138	34.0	141	97	45	0	0	1	0

Based on 1951-80 normals

Weather Data for the Week Ending May 28, 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 MAR 1	PCT. NORMAL SINCE MAR 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE	
SHREVEPORT	82	57	87	50	70	-6	.4	-6	.4	7.8	61	13.4	66	89	38	0	0	2	0	
ME CARIBOU	67	45	78	35	56	2	.5	-1	.3	4.6	61	10.0	83	97	55	0	0	5	0	
PORTLAND	73	49	90	45	61	5	1.4	-7	.7	9.5	88	14.8	81	93	49	1	0	2	0	
MD BALTIMORE	78	53	87	43	66	0	1.1	.3	.7	9.2	91	15.7	97	96	44	0	0	3	0	
SALISBURY	77	54	85	45	66	0	.2	-6	.2	11.9	116	20.0	117	94	48	0	0	1	0	
MA BOSTON	75	54	85	47	65	3	.9	-2	.6	7.9	72	14.3	76	92	56	0	0	1	0	
CHATHAM	63	52	65	48	57	3	.1	-7	.1	6.9	63	15.1	76	93	71	0	0	3	0	
MI ALPENA	74	43	87	34	58	3	.1	-7	.1	7.1	63	15.1	76	93	71	0	0	3	0	
DETROIT	77	49	87	37	63	1	.1	-7	.1	6.9	100	9.5	95	93	33	0	0	2	0	
FLINT	77	48	86	37	63	1	.1	-6	.1	3.5	43	6.9	58	75	29	0	0	0	0	
GRAND RAPIDS	76	48	85	35	62	3	.1	-6	.1	4.4	58	7.2	68	78	30	0	0	0	0	
HOUGHTON LAKE	74	48	83	34	61	4	.1	-6	.1	5.1	71	9.7	79	79	32	0	0	0	0	
LANSING	76	47	85	33	62	1	.1	-6	.1	5.1	75	8.0	83	73	31	0	0	1	0	
MARQUETTE	70	42	82	26	56	2	.8	-1	.3	6.1	83	8.7	84	81	31	0	0	1	0	
MUSKEGON	74	49	86	37	62	2	.1	-6	.1	6.5	64	11.4	81	91	45	0	2	3	0	
SAULT ST. MARIE	67	38	79	29	52	-1	.1	-6	.1	6.2	78	10.8	90	81	33	0	0	0	0	
MN ALEXANDRIA	80	54	92	47	67	8	.8	.1	.5	6.6	94	10.6	97	95	43	0	2	2	0	
DULUTH	73	44	84	30	59	5	1.0	.2	1.0	4.2	70	5.4	71	80	38	1	0	3	1	
INT'L FALLS	77	45	86	36	61	6	.2	-4	.2	7.0	103	7.9	89	91	38	0	0	2	1	
MINNEAPOLIS	80	56	92	43	63	6	.2	-4	.2	3.0	61	3.6	56	85	26	0	0	1	0	
ROCHESTER	76	52	87	38	64	4	.2	-7	.2	4.6	69	6.2	75	75	36	1	0	1	0	
MS GREENWOOD	81	58	88	48	70	-5	.4	-6	.2	6.3	85	7.7	86	80	41	0	0	1	0	
JACKSON	85	57	90	50	71	-4	.2	-7	.2	8.4	52	12.8	49	91	40	0	0	3	0	
MERIDIAN	82	54	88	47	68	-6	.3	-6	.1	12.4	78	19.4	76	95	39	1	0	3	0	
MO CAPE GIRARDEAU	77	53	87	43	65	-1	2.2	1.1	1.1	9.0	65	14.4	72	98	43	0	0	3	0	
COLUMBIA	74	52	83	42	63	-4	.6	-4	.5	8.5	75	12.3	81	88	50	0	0	2	0	
KANSAS CITY	79	58	87	52	68	-1	.3	-8	.2	5.7	57	7.8	63	77	44	0	0	2	0	
SAINT LOUIS	76	56	86	47	66	-3	.8	.0	.6	7.3	73	12.9	92	79	40	0	0	2	1	
SPRINGFIELD	74	52	83	40	63	-5	3.8	2.7	3.2	14.0	123	17.6	115	91	48	0	0	2	2	
MT BILLINGS	83	51	88	42	67	9	.1	-4	.1	4.5	86	5.6	82	70	20	0	0	2	2	
GLASGOW	86	53	92	43	69	11	.1	-4	.1	1.5	61	2.2	70	56	17	1	0	0	0	
GREAT FALLS	82	50	88	40	66	10	.1	-6	.0	2.2	46	3.4	53	63	19	0	0	3	0	
HAVRE	84	49	89	39	66	8	.0	-4	.0	.5	14	1.0	23	61	17	0	0	0	0	
HELENA	83	47	85	39	65	10	.1	-4	.1	2.8	85	3.6	81	76	22	0	0	2	0	
KALISPELL	73	42	86	36	58	4	.3	-2	.2	3.2	93	5.0	82	90	31	0	0	3	0	
MILES CITY	85	51	89	40	68	8	.1	-5	.1	.9	23	1.3	25	59	19	0	0	2	0	
MISSOULA	77	45	89	37	61	7	.1	-4	.1	3.4	104	4.7	86	79	28	0	0	1	0	
NE GRAND ISLAND	81	56	93	48	69	4	.4	-5	.3	3.7	49	5.2	58	86	43	1	0	2	0	
LINCOLN	81	57	88	49	69	3	1.3	-4	.8	5.6	68	6.2	62	85	51	0	0	3	1	
NORFOLK	82	58	90	51	70	6	.1	-8	.1	6.8	96	8.0	95	85	42	1	0	1	0	
NORTH PLATTE	77	51	88	44	64	2	1.4	-7	.1	6.0	99	6.7	97	93	46	0	0	1	0	
OMAHA	79	59	86	54	69	2	.5	-2	.3	8.6	64	6.2	59	85	52	0	0	4	1	
SCOTT'SBLUFF	78	50	87	43	64	3	.3	-4	.3	5.0	165	8.9	156	91	35	0	0	2	0	
VALENTINE	79	53	91	43	66	5	.3	-4	.3	6.5	122	8.0	132	83	39	2	0	1	0	
NV ELY	79	39	81	35	59	6	.5	-2	.2	2.2	80	3.6	85	60	18	0	0	0	0	
LAS VEGAS	98	68	100	63	83	6	.0	.0	.0	.8	100	1.7	98	22	8	7	0	0	0	0
RENO	81	47	88	43	64	7	.2	-2	.1	1.0	55	1.5	38	57	14	0	0	0	0	
WINNEMUCCA	83	43	89	38	63	6	.2	.0	.2	2.1	98	3.5	96	53	14	0	0	1	0	
NH CONCORD	76	48	89	38	62	3	1.1	.4	1.0	6.8	79	11.0	79	98	42	0	0	2	1	
NJ ATLANTIC CITY	76	51	83	40	63	0	.6	-1	.5	7.2	72	14.0	83	96	51	0	0	2	0	
NM ALBUQUERQUE	83	53	88	43	68	0	.1	.0	.1	2.9	222	3.1	150	64	17	0	0	1	0	
CLOVIS	80	55	86	51	68	-1	.4	-2	.3	3.1	94	3.6	86	75	30	0	0	2	0	
ROSWELL	84	54	91	48	69	-1	1.7	1.5	1.4	3.7	262	5.4	242	79	27	1	0	2	1	
NY ALBANY	75	52	88	43	63	3	.8	.0	.6	6.7	76	11.7	86	93	46	0	0	2	1	
BINGHAMTON	71	50	82	39	60	2	.4	-3	.4	8.3	93	13.6	99	87	48	0	0	2	0	
BUFFALO	70	51	82	40	61	1	.2	-5	.2	8.7	101	14.3	102	82	40	0	0	1	0	
NEW YORK	76	57	83	50	67	2	.8	.1	.3	8.5	78	14.6	85	90	54	0	0	3	0	
ROCHESTER	72	49	82	37	60	2	.1	-6	.1	5.7	77	8.6	71	84	41	0	0	1	0	
SYRACUSE	74	51	85	44	63	2	.1	-7	.1	7.5	82	11.2	77	87	43	0	0	0	0	
NC ASHEVILLE	75	48	81	38	62	-4	.1	-8	.1	5.8	49	10.4	57	92	37	0	0	2	0	
CHARLOTTE	80	56	89	50	68	-2	.4	-4	.3	7.8	69	12.3	65	89	35	0	0	2	0	
GREENSBORO	78	52	87	43	65	-4	.8	.1	.8	8.4	84	12.0	71	94	38	0	0	1	0	
HATTERAS	75	62	82	56	68	-1	2.3	1.3	1.0	9.7	20.2	102	95	66	0	0	4	2		
NEW BERN	80	61	91	52	71	-1	1.6	.5	.9	12.9	122	20.2	108	92	47	2	0	4	1	
RALEIGH	79	53	90	44	66	-3	.4	-4	.2	8.7	88	14.3	84	95	43	1	0	3	0	
WILMINGTON	80	59	91	51	69	-4	4.3	3.2	2.5	15.3	142	22.7	126	94	49	1	0	4	2	
ND BISMARCK	85	47	91	36	66	8	.7	.1	.4	2.2	51	3.2	63	86	25	2	0	3	0	
FARGO	83	53	90	44	68	9	.1	-4	.1	2.8	60	4.7	82	84	33	1	0	2	0	
GRAND FORKS	83	49	90	41	66	8	.1	-4	.1	2.1	55	2.9	57	80	24	1	0	1	0	
WILLISTON	85	51	92	39	68	10	.1	-4	.1	2.2	62	3.2	71	77	22	1	0	3	0	
OH AKRON-CANTON	74	48	82	37	61	-1	.1	-7	.1	6.8	70	10.7	73	92	42	0	0	1	0	
CINCINNATI	76	50	85	39	63	-3	1.5	.6	1.2	9.3	85	17.0	101	89	36	0	0	3	1	
CLEVELAND	75	50	83	37	62	0	.1	-7	.1	7.0	76	10.9	78	82	39	0	0	1	0	
COLUMBUS	76	48	85	39	62	-3	.7	-2	.5	7.1	71	13.5	90	95	37	0	0	2	0	

Based on 1951-80 normals

Weather Data for the Week Ending May 28, 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 MAR 1	PCT. NORMAL SINCE MAR 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	77	50	87	39	64	-2	1.1	.3	1.0	6.7	68	11.9	82	82	33	0	0	2	1
TOLEDO	77	47	86	37	62	0	.7	0	.7	4.4	54	6.9	57	88	32	0	0	2	1
YOUNGSTOWN	74	45	83	30	59	-1	T	-1.7	T	7.4	77	11.1	76	90	41	0	1	1	0
OK OKLAHOMA CITY	79	58	86	54	68	-3	.1	-1.1	.1	11.6	117	13.3	108	84	44	0	0	2	0
TULSA	78	57	84	50	68	-4	.8	-.4	.4	10.9	91	13.0	86	87	44	0	0	2	0
OR ASTORIA	59	47	62	42	53	0	.6	0	.3	15.5	107	25.6	77	92	61	0	0	4	0
BURNS	73	39	82	35	56	1	.7	.5	.5	2.6	113	3.9	80	76	25	0	0	2	0
MEDFORD	75	47	82	38	61	1	.2	-1.1	.2	2.9	73	5.6	59	83	31	0	0	1	0
PENDLETON	73	48	84	39	60	-1	1.1	.9	1.1	4.8	161	6.8	116	73	31	0	0	3	1
FORTLAND	67	49	72	43	58	-1	.6	-.1	.4	10.1	131	16.2	91	91	50	0	0	3	0
SALEM	66	44	69	35	55	-2	.3	-.1	.3	9.1	109	16.7	83	93	50	0	0	3	0
PA ALLENTOWN	77	51	85	43	64	1	.8	0	.3	11.3	103	17.4	100	96	47	0	0	4	0
ERIE	70	50	78	37	60	1	1.2	.5	.8	8.5	92	12.5	91	83	37	0	0	2	1
HARRISBURG	77	52	86	43	65	0	.9	0	.6	10.4	103	15.8	100	93	41	0	0	3	1
PHILADELPHIA	78	54	86	46	66	0	1.1	.4	.5	8.8	87	15.7	97	95	47	0	0	4	1
PITTSBURGH	75	47	83	35	61	-2	.6	-.2	.5	7.3	73	12.3	80	95	44	0	0	2	0
SCRANTON	74	50	85	43	62	0	.6	-.1	.3	8.9	105	12.6	98	89	45	0	0	3	0
RI PROVIDENCE	75	51	84	46	63	2	1.3	.6	1.1	10.0	88	18.0	94	97	52	0	0	2	1
SC CHARLESTON	82	62	90	54	72	-3	.3	-.9	.3	6.9	63	12.0	68	93	43	1	0	1	0
COLUMBIA	84	55	94	43	69	-4	.9	-.1	.8	7.1	58	13.2	64	97	36	2	0	3	1
FLORENCE	82	58	91	49	70	-4	.4	-.5	.2	8.8	88	12.9	76	93	38	3	0	3	0
GREENVILLE	81	54	89	46	67	-4	.3	-.6	.3	9.0	66	14.7	65	90	37	0	0	1	0
SD ABERDEEN	80	54	92	48	67	7	.8	.1	.8	3.8	72	4.4	70	91	42	1	0	1	1
HUMPH	79	56	88	49	68	7	1.0	.3	.7	8.1	143	9.0	131	91	50	0	0	3	1
RAPID CITY	79	52	89	47	66	7	.1	-.6	0	4.3	81	4.8	76	82	40	0	0	2	0
SIOUX FALLS	81	58	90	49	69	8	.1	-.7	0	4.9	72	6.7	81	82	41	1	0	2	0
TN CHATTANOOGA	79	56	87	47	68	-3	1.4	.6	1.1	7.3	51	16.3	66	99	38	0	0	3	1
KNOXVILLE	80	52	90	43	66	-4	.5	-.3	.5	7.2	57	14.4	67	95	36	1	0	2	0
MEMPHIS	80	58	88	52	69	-5	1.0	-.1	.7	9.4	60	17.2	69	87	42	0	0	3	1
NASHVILLE	78	55	86	47	67	-4	1.1	.1	.9	6.1	43	11.9	52	93	41	0	0	3	1
TX ABILENE	83	59	86	54	71	-4	0	-.7	0	4.9	75	5.3	63	74	35	0	0	0	0
AMARILLO	75	52	85	46	64	-5	1.3	.5	.6	5.9	133	6.3	114	92	37	0	0	4	1
AUSTIN	87	64	92	61	75	-2	0	-.9	0	7.1	82	7.7	60	74	32	2	0	0	0
BEAUMONT	86	63	90	56	74	-3	0	-1.1	0	8.8	75	17.1	85	96	39	1	0	0	0
BROWNSVILLE	91	68	95	65	80	-1	T	-.5	T	1.7	42	7.2	106	94	42	3	0	0	0
CORPUS CHRISTI	90	65	96	57	77	-2	0	-.9	0	2.2	39	4.2	48	94	44	0	0	0	0
DEL RIO	89	65	93	57	77	-3	.9	.5	.8	1.7	39	1.9	34	65	28	3	0	2	1
EL PASO	91	56	95	50	74	-2	T	-.1	T	.5	72	1.4	96	61	13	6	0	1	0
FORT WORTH	84	60	88	56	72	-3	0	-.9	0	5.2	49	7.3	52	75	33	0	0	0	0
GALVESTON	83	71	91	69	77	-1	0	-.8	0	10.4	134	14.3	108	83	45	1	0	0	0
HOUSTON	86	61	89	58	74	-3	T	-1.1	T	7.4	69	10.0	57	89	34	0	0	0	0
LUBBOCK	82	55	90	49	69	-3	1.0	.4	1.0	3.9	90	4.6	87	90	34	1	0	2	1
MIDLAND	83	56	87	47	70	-5	.4	-.1	.4	3.0	93	3.4	83	90	32	0	0	2	0
SAN ANGELO	84	56	86	51	70	-6	T	-.5	T	4.9	103	5.4	85	85	36	0	0	1	0
SAN ANTONIO	90	63	93	58	77	-1	T	-.8	T	2.4	33	3.7	35	75	29	3	0	0	0
VICTORIA	89	65	94	60	77	-1	T	-1.1	T	3.8	47	4.3	35	92	36	2	0	1	0
WACO	86	59	90	56	73	-4	0	-1.0	0	5.0	49	7.1	51	83	33	1	0	0	0
WICHITA FALLS	84	58	90	53	71	-4	T	-1.0	T	7.6	86	9.4	87	83	33	1	0	0	0
UT BLANDING	80	48	83	44	64	4	0	-.1	0	1.9	95	4.4	102	58	17	0	0	0	0
CEDAR CITY	81	47	82	37	64	4	0	-.2	0	5.1	181	6.7	156	58	15	0	0	0	0
SALT LAKE CITY	86	57	90	47	71	10	T	-.3	T	4.1	78	5.3	67	54	16	1	0	0	0
VT BURLINGTON	72	52	86	45	62	3	.2	-.5	.2	4.8	63	7.2	64	93	43	0	0	2	0
VA NORFOLK	76	59	90	48	68	-2	1.3	.5	.6	11.2	111	17.0	99	90	48	1	0	3	2
RICHMOND	78	54	89	43	66	-3	.4	-.4	.3	9.4	97	15.0	93	93	38	0	0	2	0
ROANOKE	77	50	84	40	64	-4	.1	-.7	.1	7.4	75	10.3	64	95	41	0	0	2	0
WA QUILLAYUTE	58	43	62	36	51	-2	3.6	2.6	1.5	33.8	142	51.4	102	98	66	0	0	5	3
SEATTLE-TACOMA	63	47	66	43	55	-2	1.0	.7	.8	9.7	133	14.5	82	96	50	0	0	4	1
SPOKANE	71	47	88	42	59	2	1.0	.7	.8	5.1	139	7.2	93	75	31	0	0	3	1
YAKIMA	73	46	84	36	60	0	T	-.1	T	1.8	119	2.5	67	77	28	0	0	1	0
WV BECKLEY	73	47	84	33	60	-2	1.0	.1	.6	8.2	77	12.1	70	91	36	0	0	3	1
CHARLESTON	77	49	85	38	63	-3	.8	0	.4	7.5	69	11.6	66	98	41	0	0	3	0
HUNTINGTON	78	49	87	38	63	-4	.4	-.5	.3	8.2	74	12.5	73	97	37	0	0	2	0
PARKERSBURG	76	48	85	35	62	-4	.6	-.2	.5	7.4	74	10.2	65	97	44	0	0	2	0
WI GREEN BAY	76	48	85	32	62	4	0	-.7	0	3.7	50	6.2	64	81	38	0	1	0	0
LACROSSE	82	55	93	43	69	6	.1	-.8	.1	5.4	65	6.7	66	74	29	1	0	1	0
MADISON	78	49	88	30	63	3	T	-.8	T	4.8	58	7.1	68	79	34	0	1	0	0
MILWAUKEE	70	49	87	38	59	1	T	-.6	T	5.9	71	10.5	92	81	44	0	0	1	0
WAUSAU	78	48	87	32	63	4	.3	-.6	.2	5.0	61	5.4	54	77	33	0	1	2	0
WY CASPER	80	43	85	33	62	6	.1	-.4	.1	2.7	60	3.7	68	75	16	0	0	1	0
CHEYENNE	71	45	80	39	58	3	.2	-.4	.1	6.1	137	7.3	139	90	35	0	0	2	0
LANDER	80	47	83	39	63	8	T	-.6	T	4.2	73	4.7	67	58	17	0	0	0	0
SHERIDAN	82	45	87	35	63	8	.1	-.5	.1	3.9	73	5.3	78	86	25	0	0	1	0
PR SAN JUAN	88	76	89	73	82	2	T	-1.3	T	13.2	118	19.3	118	89	71	0	0	1	0

Based on 1951-80 normals

National Agricultural Summary

May 23 to 29, 1988

HIGHLIGHTS: Rain helped ease dry conditions throughout most of the eastern half of the Nation, but soil moisture remained short in most areas. The moisture aided germination and planting. Fieldwork averaged 5 to 6 days in most areas of the Nation. Rain limited fieldwork to 4 days in the central Great Plains.

Corn was mostly good to fair. Rain provided much needed moisture for early growth in the Corn Belt. Corn reached the silking stage in the Southeast. Soybeans were 74 percent (%) planted, 21 percentage points above the 5-year average. Seeding surged 12 points ahead of the previous week. Seventy-eight percent of the cotton acreage was planted, 2 points ahead of normal. Planting was finished or neared completion except in Oklahoma and Texas. Grain sorghum seeding climbed 12 points ahead of the previous week to 58% completion. Sorghum turned color in Texas. Winter wheat was 74% headed compared with 70% normally. Harvest gained momentum in the Southeast. Wheat turned color as far North as Illinois. Spring wheat was mostly fair to good. Livestock was mostly good.

SMALL GRAINS: Winter wheat condition varied across the Nation. Crop condition was mostly good to fair in the Corn Belt and Southeast. Despite significant precipitation, the crop remained mostly fair in the northern and central Great Plains. Heading climbed 12 points ahead of the previous week to 74% completion. This compares with 82% headed in 1987 and 70% headed normally. Harvest expanded across the Southeast and Delta. Wheat turned color in Illinois, Kansas, and Missouri. Harvest was underway as far North as Oklahoma.

Small grain harvest increased in Blackland, Low Plains, and central areas of Texas. Rain helped improve dryland yield prospects. In Kansas, widespread rain was good for wheat but was too light and too late for some dryland fields in western areas. A few fields neared maturity in southern Kansas. Wheat streak mosaic disease was present in most areas of Nebraska with the highest degree of concern in the Panhandle and southwest. Disease continued plaguing winter wheat in South Dakota.

Small grain harvest was underway in south-central and southern California. In Arizona, small grain harvest reached 25% completion.

Spring wheat was mostly fair to good. Emergence was finished or neared completion except in Montana. Idaho's spring wheat was mostly good with 29% jointing. Jointing was 25% finished in Minnesota, 18 points above normal.

CORN: Corn was mostly good to fair in most areas of the Nation. Dryness caused condition to register fair to good in some Corn Belt States. Corn planting neared completion in Kansas. Minor replanting was necessary following rains. Emergence was good and moisture was sufficient for early growth. Corn suffered some fertilizer and herbicide damage in drier areas of Nebraska. Corn reached the silking stage in some Southeast and Delta States and the dough stage in Texas.

SOYBEANS: Soybeans were 74% seeded, 21 points ahead of normal and 12 points above the previous week. Seeding approached completion in the Corn Belt and was more than 50% finished in the central and northern Great Plains. Planting surged 20 points ahead of the previous week in Michigan and Nebraska and up 24 points in South Dakota.

Planting continued lagging behind normal in the Delta and Georgia.

COTTON: Cotton was 78% planted, 2 points above normal. Rain slowed planting in Oklahoma, but accelerated planting in Texas. Planting inched 5 points higher than the previous week in Oklahoma but was up 10 points in Texas. Seeding was finished or neared completion except in Texas. Isolated wind and hail damaged cotton in the High Plains and caused some replanting. Cotton was squaring in the Blackland, central, and Coastal Bend areas and began setting bolls in the Rio Grande Valley. Cool temperatures slowed cotton growth in Texas and Arkansas. Cotton was squaring and setting bolls in Arizona.

SORGHUM: The 11 major sorghum producing States seeded 58% of their acreage, surpassing the average by 11 points. Moisture pushed Oklahoma's seeding to 50% completion, 40 points above the previous week and 15 points above normal. In Nebraska, seeding surged 25 points ahead of the previous week to 70% completion. In Texas, planting increased in many areas of the Plains. High winds damaged some young plants. Sorghum began heading in south-central areas and was heading and turning color in the Rio Grande Valley, Coastal Bend, and southern Texas.

OTHER CROPS: Peanut planting was virtually finished in South Carolina, Georgia, Alabama, and Virginia. Planting was 5-points behind normal in North Carolina at 86% completion. Seeding progressed normally in Texas but was ahead of normal in Oklahoma.

Rice was 98% seeded and 84% emerged. Seeding neared completion in Arkansas, Louisiana, and California. Emergence was slightly ahead of normal.

Burley tobacco transplanting was 20 points ahead of normal in Kentucky. Tennessee's tobacco was 55% transplanted, compared with 49% average. Hail caused significant tobacco loss in Georgia.

FRUITS AND NUTS: Florida's citrus groves were irrigated considerably, but more rain is needed. Valencia harvest slowed and grapefruit supplies were limited. Caretakers fertilized, sprayed, and cultivated groves. Citrus progressed well in Texas. Valencia oranges were harvested in California's San Joaquin Valley, and some orchards were treated for red scale and lepidopteran. Lemons were picked in the south coast area. Clingstone peaches were treated for fruit moths and peach twig borers in the Sacramento Valley. Apple growers thinned fruit in the coastal and central valley regions. Heavy almond crop caused limb breakage.

VEGETABLES: Rain benefited most vegetables except in western Florida. Harvest declined for most crops. Tomatoes, watermelons, potatoes, sweet corn, cucumbers, and peppers were volume leaders. Truck crop harvest was underway in east Texas. Dry conditions reduced yield prospects. Vegetable harvest continued in the Rio Grande Valley and San Antonio-Winter Garden areas. California vegetable harvest consisted mostly of broccoli, cauliflower, celery, lettuce, and strawberries. Soils were prepared for fall lettuce planting at Westside.

PASTURES AND LIVESTOCK: Pastures were mostly fair. Inadequate moisture retarded growth in most areas. Livestock was mostly good.

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 between 0.50 to 1.00 in.; only light amounts coastal areas. Temperatures averaged 3° below normal wiregrass area, 5° below normal elsewhere.

Days suitable for fieldwork 5.0. Soil moisture 63% short, 37% adequate. Scattered showers benefited crops, pastures; additional moisture needed most areas. Corn 26% silked, 16% 1987, 9% avg.; 4% very poor, 7% poor, 53% fair, 36% good. Sorghum 57% planted, 54% 1987, 54% avg. Cotton 99% planted, 98% 1987, 96% avg.; 9% poor, 58% fair, 33% good. Peanuts 97% planted, 94% 1987, 88% avg.; 8% poor, 62% fair, 30% good. Soybeans 45% planted, 48% 1987, 41% avg. Wheat 89% turning color, 84% 1987, 83% avg.; 45% harvested, 26% 1987, 16% avg.; 8% poor, 42% fair, 50% good. First hay 66% harvested, 54% 1987, 43% avg. Pastures mostly fair; livestock mostly good. Cattle producers provided supplemental feed due to depleted pastures extreme south. Primary activities: Planting soybeans, sorghum, peanuts; cultivating row crops; applying herbicides, pesticides; cutting, baling hay; fertilizing pastures; harvesting vegetables, peaches, other fruits; harvesting catfish, building fish ponds; general care livestock, poultry.

ALASKA: Cloudiness, shower activity prevailed in upper, lower areas of Railbelt while Palmer and surrounding areas received more sunshine than rain. Lows ranged 1 to 5° warmer than normal. Highs ranged normal to 5° warmer than normal. Seasonal precipitation totals ranged 0.02 in. Palmer to 1.05 in. Clearwater.

Days suitable for fieldwork 6.0. Topsoil moisture supplies 6% short, 91% adequate, 3% surplus. Subsoil moisture supplies 1% short, 79% adequate, 20% surplus. Fieldwork progress on schedule. Barley, oats for grain seeding virtually complete; emergence on newly seeded barley over 25%. Commercial potatoes 75% planted, 95% 1987, planting continued in Tanana Valley. Prospects for new growth to hayfields, pastures averaged good to excellent.

ARIZONA: Hot, dry, sunny 22nd to 27th. Isolated afternoon showers, thunderstorms Mogollon Rim, White Mountains 22nd to 25th. Rain amounts trace to 0.10 in. Average temperatures 3 to 9° above normal.

Cotton continued to progress well statewide; 99% planted, 40% squaring, 2% setting bolls. Selected fields setting bolls west, some hail damage northwest. Limited replanting continued southeast. Alfalfa good to excellent statewide. Harvest active west; growers in 3rd cutting cycle with favorable curing conditions. Third, 4th cuttings central. Insect, weed damage light to moderate statewide. Small grain harvests continued; 25% harvested. Most fields good. Field corn continued to progress. Watermelon harvest underway west, honeydews harvested Parker-Poston area. Dry onions, assorted vegetables harvested Salt River Valley. Table, chipper potatoes harvested central. Watermelon harvest began central. Grape harvest continued Salt River Valley; harvest beginning west. Sweet corn harvested central. Dry onions, lettuce harvested east. Valencia orange, grapefruit harvest continued west, central. Cattle, calves good; average feed conditions middle, higher elevations. Feed conditions excellent Mogollon Rim, higher elevations of White Mountains; stock water remained adequate. Ranges 65% of normal, poor water, soil moisture conditions

northwest. Sheep, lambs good. Insect damage to pastures minimal statewide.

ARKANSAS: Statewide showers first part of week, dry weather rest of week. High pressure system from north kept temperatures well below normal. Temperature extremes 38°; 91°. Rainfall totals 0.16 to 2.48 in.

Days suitable for fieldwork 5.0. Soil moisture supplies 45% short, 53% adequate, 2% surplus. Most rain northern two-thirds, lesser amounts southern one-third. Cotton 86% emerged, 95% 1987, 87% avg.; unusually cool nights hampered growth. Soybeans 17% emerged, 40% 1987, 26% avg.; 28% poor, 46% fair, 22% good, 4% excellent; ample soil moisture for germination most areas; planting at rapid pace. Sorghum 78% emerged, 89% 1987; 3% very poor, 5% poor, 82% fair, 10% good. Wheat crop maturing rapidly, harvest expected to start midweek. Hay harvest nearly 50%. Pastures greened up since rains. Strawberry harvest winding down. Tomato harvest preparations underway. Livestock good.

CALIFORNIA: High pressure kept temperatures well above normal over State. By end of week, low pressure developed along coast, weak Pacific weather front produced widely scattered light showers.

Warm, dry weather, rapid progress field activities. Cotton seeding, reseeding virtually complete. Mite, thrip control applications active. Rice planting approached completion. Treatments weeds, algae, shrimp, insects applied. Early small grain south central, southern harvested. Seeding dry beans active. Harvest overwintered sugarbeets, seeding new crop progressed. Green chopping winter forage, alfalfa active. Hay harvest alfalfa, small grains normal. Insect controls alfalfa seed fields. Early safflower approached bloom. Sunflower seeding active. Apple growers thinned fruit; coastal, central valley areas. Apricot harvest continued San Joaquin Valley. Bing cherry harvest neared completion Lodi area. Splits caused by earlier rains reduced crop size. Grapes dusted with sulfur, mildew control. Nectarine, freestone peach, plum harvests continued San Joaquin Valley. Clingstone peaches treated for oriental fruit moths, peach twig borers Sacramento Valley. Lemon picking active south coast area. Valencia oranges harvested San Joaquin Valley, some orchards treated for red scale, lepidoptera larvae. Almond limb breakage from heavy crop Sacramento Valley. Walnuts treated for blight. Artichoke harvest light, good quality Castroville. Broccoli, cauliflower: supplies heavy, good quality Salinas, Santa Maria. Celery harvest active south, central coasts. Lettuce heavy, variable quality Salinas, Santa Maria. Ground prepared fall lettuce Westside. Melons harvested Palo-Verde Valley. Sweetpotato planting continued Merced-Atwater, Selma District. Strawberries light, variable quality Salinas, Santa Maria; harvest to processors south coast. Tomatoes rapid growth Sacramento Valley, grew well Merced-Atwater, Cutler-Orosi areas. Livestock fair, good condition. Ranges, pastures continued deterioration. Cattle movement summer pasture, feedlots increased. Water supplies light.

COLORADO: Scattered showers Eastern Plains. Precipitation none to 1.35 in. Average temperatures 6° below to 1° above normal.

Days suitable for fieldwork 3.8. Soil moisture supplies 4% very short, 8% short, 79% adequate, 9% surplus. Small grain seedings virtually complete. Corn 75% emerged. Dry bean, sorghum plantings slowed due to wet fields. Sugarbeets 43% thinned. Late season frost damaged fruit crops on western slope. Livestock good; ranges, pastures good.

FLORIDA: Low pressure trough moved into State early week, producing thunderstorms, showers. System stalled over southern Peninsula, producing locally heavy rain southeast coast. Temperatures averaged within 3° seasonal normals.

Soil moisture mostly short, except adequate few Peninsula areas. Nonirrigated crops under moisture stress. Recently planted cotton not germinating; cotton, peanut planting stopped because of dry soils. Soybean growers without irrigation waited on rain before planting. Harvesting wheat, oats, baling straw active. Haymaking active few areas. Thrips more prevalent than normal cotton, peanuts. Sugarcane, tobacco good progress. Midweek rains some localities Peninsula, Big Bend areas boosted forage growth while most Panhandle pastures remained dry. Grazing very poor to fair Panhandle, poor to good northern, central Peninsula, mostly good southern Peninsula. Cattle mostly fair Panhandle; elsewhere generally good. Citrus groves dry. Considerable irrigation; some rain, more needed. Valencia harvest began slowing, grapefruit supplies limited. Caretakers cultivated, sprayed, fertilized. Hot days, warm nights vegetable producing areas. Beneficial thundershowers all areas except west. Harvest declining most crops. Volume leaders: Tomatoes, watermelons, potatoes, sweet corn, cucumbers, peppers. Also good volume celery, cabbage, carrots, squash, snap beans, eggplant, radishes. Lettuce harvest complete.

GEORGIA: Rain under 0.25 in. south, 0.50 to 1.00 in. elsewhere. Greatest total 1.65 in. Clio. Rain 1 to 2 days. Temperatures 3 to 5° below normal. Extremes 32° Blairsville to 97° Jesup. Central, south 90° or higher 3 days.

Days suitable for fieldwork 5.6. Soil moisture 18% very short, 52% short, 30% adequate. Corn 5% silked, 4% 1987, 19% avg. Grain sorghum poor to mostly good. Peanuts 23% fair, 67% good, 10% excellent; 92% planted, 94% 1987, 95% avg. Soybeans fair to mostly good. Tobacco very poor to mostly good. Significant loss hail damage. Watermelons mostly good, some hail damage. Wheat harvest active; 14%, 15% 1987, 25% avg. Other small grains good. Apples mostly good. Early variety peaches hurt by hail 43% fair, 57% good; 7% harvested, 9% 1987, 11% avg. Pasture, hay mostly good. Livestock good.

HAWAII: Variable weather. Morning showers followed by sunny days most windward areas; hot, dry leeward sections. Irrigation necessary most crop localities. Variable trade winds 10 to 25 mph, gusty at times. Rainfall none to 5.00 in.

Days suitable for fieldwork 7.0. Cabbage production moderate to heavy. Watermelon output heavy, quality good. Papaya harvesting gained momentum, orchards good. Pineapple harvesting increased all islands.

IDAHO: Weekend showers brought relief after week of hot, dry weather.

Days suitable for fieldwork 6.0. Soil moisture 6% very short, 47% short, 47% adequate. Irrigation water supplies fair, good. Potatoes 90% planted, 95% 1987, 80% avg.; 32% emerged, 64% 1987. Spring wheat good, 29% joint. Winter wheat good; 30% boot and beyond, 7% headed. Barley close to 100% emerged, 31% joint. Oat planting wrapping up, 95% emerged. Corn planting nearly finished; 89% avg., 80% emerged. First cutting alfalfa hay underway; 13% 1987, 10% avg. Sugarbeets close to 50% thinned. Dry beans 34% seeded. Dry peas, lentils nearly 100% emerged. Livestock good.

ILLINOIS: Temperature highs averaged 1 to 2° above normal north, 2 to 3° above normal south. Temperature lows averaged 1 to 3° below normal north, 6 to 7° below normal south. Precipitation averaged 0.50 to 1.00 in. or more.

Days suitable for fieldwork 5.0. Soil moisture 84% short, 16% adequate. Corn height 10 in., 10 in. 1987, 6 in. avg.; most advanced 15 in., 18 in. 1987, 11 in. avg. Wheat 65% filled, 68% 1987, 45% avg.; 7% turning yellow, 24% 1987, 10% avg. Oats 18% headed, 37% 1987, 19% avg.; 11% poor, 24% fair, 57% good, 8% excellent. Alfalfa 1st crop 69% cut, 57% 1987, 38% avg.; 5% poor, 41% fair, 49% good, 5% excellent. Red clover 52% cut, 52% 1987, 29% avg.; 6% poor, 32% fair, 57% good, 5% excellent. Sorghum 35% fair, 63% good, 2% excellent. Pasture 2% very poor, 14% poor, 52% fair, 30% good, 2% excellent.

INDIANA: Temperatures 2 to 9° below normal. Lows upper 40s to 50s, highs mid to upper 70s. Precipitation variable. Totals 1.00 in. north, 0.20 to 0.50 in. elsewhere.

Days suitable for fieldwork 5.3. Topsoil moisture 59% short, 41% adequate. Subsoil moisture 71% short, 29% adequate. Corn fair; 94% emerged, 96% 1987, 79% avg. Corn height 6 in., 9 in. 1987, 5 in. avg. Soybeans 65% emerged, 82% 1987, 47% avg. Soybeans height 2 in., 3 in. 1987, 2 in. avg. Wheat fair. Alfalfa hay 53% cut, 48% 1987, 32% avg. Hay quality, yields reduced. Pastures 3% very poor, 36% poor, 51% fair, 10% good. Scattered showers helped relieve dry conditions some areas.

IOWA: Temperatures 1 to 10° above normal. Precipitation amounts none to 1.00 in.; most areas less than 0.30 in.

Days suitable for fieldwork 5.2. Topsoil moisture 75% short, 25% adequate; subsoil moisture 54% short, 46% adequate. Oats 1% very poor, 11% poor, 40% fair, 43% good, 5% excellent. Oats 8% headed, 6% 1987, 4% avg. Winter wheat mostly fair. Hay 4% very poor, 25% poor, 43% fair, 24% good, 4% excellent. First crop alfalfa 15% harvested, 13% 1987, 11% avg. Corn 95% stands, corn 2% replanted. Corn 99% emerged, 100% 1987, 80% avg. Corn 20% cultivated 1st time, 13% 1987, 8% avg. Soybeans 65% emerged, 61% 1987, 32% avg. Livestock good to excellent. Good gains in hogs. Some cattle fed hay to supplement forages. Pasture 17% very poor, 26% poor, 40% fair, 14% good, 3% excellent.

KANSAS: Temperatures averaged 71° north, 68° southwest, 1° below normal southeast to 5° above normal north. Much needed rain across most of State, totals highest in northeast 2.00 to 4.00 in. Generally 1.00 to 2.00 in. elsewhere, except northwest less than 0.50 in.

Days suitable for fieldwork 4.0. Topsoil moisture 35% short, 60% adequate, 5% surplus. Subsoil 44% short, 53% adequate, 3% surplus. Widespread rain generally good for wheat, some dryland stands in west rain too light, too late. Few stands south turning color, neared maturity. Corn planting neared completion, minor replanting necessary following rains. Emergence good, moisture sufficient for early growth. Some cutworm damage. Sorghum planting rapid progress, stands emerging south, southeast. Rain provided adequate moisture to complete planting intention. Soybean planting excellent progress, moisture adequate for seed germination, early growth. Range, pasture modest improvement following rain. Grazing adequate, livestock gains good on native grass, graze-out grain fields. Alfalfa hay 1st cutting 70%, regrowth satisfactory.

KENTUCKY: Rain early; variable amounts showers, scattered thunderstorms. Hardinsburg southwest of Louisville only 0.26 in., Jackson in southeast 1.72 in. Temperatures also varied widely, low temperatures in 40s early, mid to upper 80s 28th.

Days suitable for fieldwork 4.1. Soil moisture 8% very short, 60% short, 32% adequate. Corn fair to mostly good; 96% planted, 85% emerged. All crops need rain, some areas suffering. Burley 55% transplanted, 68% 1987, 35% avg. Dark tobacco 57% transplanted. Tobacco plant supply adequate, some plants too large. Wheat condition average, expected starting date wheat harvest 15th, barley 6th with earliest barley harvest underway. Pastures short, drying many areas; 7% very poor, 20% poor, 57% fair, 15% good, 1% excellent. Strawberry picking active, most crops small to average.

LOUISIANA: Temperature 2 to 5° below normal. Temperature extremes 48°; 92°. Rainfall averaged none to 0.81 in.

Days suitable for fieldwork 5.6. Soil moisture 31% very short, 38% short, 31% adequate. Corn fair; 3% silked, 8% 1987, 18% avg. Cotton 73% emerged, 89% 1987, 87% avg.; 3% squaring, 3% 1987, 3% avg. Sorghum 72% emerged; soybeans 18% emerged, both below normal. Winter wheat fair to good; 99% turning color, 99% 1987, 95% avg.; 51% harvested, 29% 1987, 35% avg. Hay 1st cutting 62%, 50% 1987, 55% avg. Sweetpotatoes fair; 28% planted, 46% 1987, 58% avg. Peaches fair to good; 6% harvested, 6% 1987, 6% avg. Sugarcane good. Livestock, pecans fair to good. Vegetables, pastures fair. Main activities: Fertilizing pastures; harvesting hay, vegetables, wheat; planting cotton, rice, sorghum, soybeans, sweetpotatoes.

MARYLAND & DELAWARE: **Maryland:** Precipitation averaged 1.09 in. Average temperature 66°, normal 66°. General temperature extremes 39°; 89°. Mountain extremes 32°; 85°.

Days suitable for fieldwork 4.7. Topsoil, subsoil moisture adequate. Acreage 93% prepared for planting, 98% avg. Corn 90% planted, 90% avg. Soybeans 30% planted, 30% avg. Tobacco 40% transplanted, 30% avg. Watermelons 90% planted, 90% avg. Wheat, oats, barley, rye good. Wheat 95% headed, 90% avg. Barley 55% turned color, 55% avg.

Delaware: Precipitation averaged 0.75 in. Average temperature 66°, normal 67°.

Days suitable for fieldwork 4.4. Topsoil, subsoil moisture adequate. Acreage 95% prepared for planting, 98% 1987. Corn 95% planted, 95% avg. Soybeans 30% planted, 30% avg. Wheat, barley, rye 70% good, 30% fair. Wheat 97% headed, 87% avg.

MICHIGAN: Temperatures ranged 1 to 4° above normal. Temperature extremes 28°; 88°. Precipitation none to 2.52 in. across State. Most areas none to trace amounts rainfall.

Days suitable for fieldwork 6.5. Soil moisture 95% short, 5% adequate. Corn 1% very poor, 8% poor, 30% fair, 50% good, 11% excellent; 75% emerged. Soybeans 75% planted, 80% 1987, 45% avg. Wheat 20% headed, 40% 1987, 20% avg.; 2% very poor, 10% poor, 33% fair, 45% good, 10% excellent. Dry beans 3% planted, 10% 1987, 4% avg. Field activities: Corn, soybean, potato, dry bean planting, herbicide application, harvesting hay. Dry conditions stressed fruit, vegetable crops. Vegetable planting increased.

MINNESOTA: Temperatures averaged 5 to 11° above normal. Temperature extremes 28°; 96°. Precipitation averaged 0.10 to 0.64 in. Greatest weekly total 1.48 in.

Days suitable for fieldwork 5.9. Topsoil moisture 26% very short, 50% short, 24% adequate. Spring wheat 100% emerged, 99% 1987, 81% avg.; 25% jointing, 23% 1987, 7% avg. Oats 100% emerged, 99% 1987, 88% avg.; 25% jointing, 35% 1987, 11% avg. Barley 100% emerged, 99% 1987, 79% avg.; 20% jointing, 20% 1987, 6% avg. Corn 99% planted, 99%

1987, 90% avg.; 87% emerged, 93% 1987, 61% avg.; 14% cultivated, 15% 1987, 6% avg. Soybeans 89% planted, 90% 1987, 70% avg.; 53% emerged, 58% 1987, 25% avg. Sunflowers 88% planted, 88% 1987, 58% avg. Flax 88% planted, 91% 1987, 63% avg. Potatoes 95% planted, 92% 1987, 79% avg. Dry edible beans 91% planted, 84% 1987, 69% avg. Sweet corn 81% planted, 73% 1987, 65% avg. Soybeans 1% very poor, 5% poor, 40% fair, 49% good, 5% excellent. Field corn 1% very poor, 3% poor, 42% fair, 44% good, 10% excellent. Spring wheat 1% very poor, 9% poor, 47% fair, 40% good, 3% excellent.

MISSISSIPPI: Dry, cool with scattered thunderstorms. Average temperature 70°, 4° below normal. Extremes 43°; 90°. Greatest 24-hour rainfall 1.72 in.; greatest weekly total rainfall 2.23 in.

Days suitable for fieldwork 4.8, 3.2 1987, 4.1 avg. Soil moisture 15% very short, 55% short, 25% adequate, 5% surplus. Rains improved situation around State, allowed farmers to restart planting. Corn fair to good; 95% emerged, 90% avg.; silking just started. Wheat good to fair; 53% mature, 41% avg.; 5% harvested, 5% 1987, 6% avg. Sorghum fair to good; 90% planted, 76% avg.; 80% emerged, 79% 1987. Cotton fair; 89% emerged, 84% avg.; no squaring. Rice fair; 91% emerged, 86% avg. Soybeans 35% planted, 39% avg.; 23% emerged, 23% avg. Peaches fair to good; 2% harvested. Hay 28% harvested, 27% avg. Sweetpotato, peanut, watermelon planting ahead of average. Pasture fair; livestock good. Activities: Planting soybeans, cultivating row crops, insect control on cotton, wheat harvest in southern counties. Planting ahead of normal for all crops except soybeans.

MISSOURI: Temperatures 7° below normal Bootheel to 1° above normal northwest. Rains beginning of week 2.00 to 3.50 in. southern counties, 0.25 to 2.00 in. elsewhere.

Days suitable for fieldwork 4.3. Topsoil moisture 70% short, 30% adequate. Wheat 27% turning color, 64% 1987, 34% avg. Alfalfa hay 1st cutting 67%, 68% 1987, 47% avg. Other hay 33% harvested, 34% 1987. Pasture 11% very poor, 41% poor, 43% fair, 5% good.

MONTANA: Temperatures 5 to 11° above normal. Moisture amounts 0.01 to 0.47 in. with most stations less than 0.25 in.

Days suitable for fieldwork 7.0. Topsoil moisture 78% short, 21% adequate, 1% surplus. Subsoil moisture 73% short, 26% adequate, 1% surplus. Barley 9% very poor, 16% poor, 36% fair, 34% good, 5% excellent. Oats 7% very poor, 13% poor, 39% fair, 37% good, 4% excellent. Sugarbeets 2% very poor, 5% poor, 55% fair, 36% good, 2% excellent. Corn 82% planted, 81% 1987, 80% avg. Potatoes 78% planted, 53% 1987, 55% avg. Dry beans 77% planted, 77% 1987, 71% avg. Cattle moved to summer ranges 67%. Sheep, lambs moved 72%. Stockwater supply 42% short, 52% adequate, 6% surplus.

NEBRASKA: Very warm with scattered showers, thunderstorms. Precipitation none to 1.00 in. locally. Average temperatures ranged 4 to 8° above normal. Extremes 48°; 93°.

Days suitable for fieldwork 4.5. Topsoil moisture 22% short, 73% adequate, 5% surplus. Subsoil moisture 30% short, 67% adequate, 3% surplus. Wheat 98% jointed, 100% 1987, 96% avg. Wheat streak mosaic over most areas, most serious concern in Panhandle, southwest. Corn 99% planted, 98% 1987, 93% avg. Some fertilizer, herbicide damage to corn in drier areas. Soybeans 40% emerged, 56% 1987, 30% avg. Bean leaf beetles

present, increased northeast, east central. Sorghum 40% emerged, 46% 1987, 26% avg. Alfalfa hay 2% poor, 55% fair, 39% good, 4% excellent. Alfalfa 1st cutting 30%, 45% 1987, 23% avg. Alfalfa weevils present in southwest, southeast, east central, north central. Wild hay fair to good. Pasture, range feeds mostly adequate. Pastures responded to recent rainfall, greening up.

NEVADA: Most of week dry, warm. Strong cold front end of period dropped temperatures freezing levels nights, snow accumulations higher elevations. Winds preceding strong weather system gusty. Due sunny skies earlier, temperatures averaged well above normal. Extremes 27°; 105°.

Freezing temperatures end of period slowed vegetative growth. Range grasses, stream flow benefited from melting snow some northern, east central areas. Not ideal fieldwork weather.

NEW ENGLAND: Precipitation averaged 1.00 to 2.00 in. over most of area. Northwest Vermont, southwest coast of Connecticut received less than 0.50 in. while much of Massachusetts received over 2.00 in. Temperatures averaged mid 50s over northern Maine to mid 60s over southern coastal sections. Temperatures at least few degrees above normal over all areas. Season 3 days behind normal this year.

Days suitable for fieldwork 5.0. Soil moisture 65% adequate, 35% surplus. Grazing availability 86% adequate, 14% surplus. Maine potato planting neared completion, 80% 1987, 65% avg. Rhode Island potatoes excellent; 100% planted, 95% 1987, 97% avg.; 60% emerged, 35% 1987, 57% avg. Connecticut River Valley potatoes fair to good; 100% planted, 85% 1987, 95% avg.; 95% emerged, 55% 1987, 68% avg. Field corn fair to good; 65% planted, 70% 1987; 62% avg.; 37% emerged, 30% 1987, 31 avg. Sweet corn fair to good; 75% planted, 65% 1987, 62% avg.; 55% emerged, 35% 1987, 38% avg. Hay good north, excellent south. Fruit trees early to full bloom north to fruit set south. Strawberries early to full bloom north while farther south full bloom to petal stages. Cranberries bud to early bloom. Major farm activities: Fruit spraying, planting, plowing, harvesting vegetables.

NEW JERSEY: Temperatures averaged near normal. Extremes 40°; 90°. Rainfall averaged 1.27 in. north, 0.70 in. central, 0.82 in. south. Heaviest 24-hour total 1.40 in. on 23rd, 24th. Estimated soil moisture percent field capacity averaged 95% north, 88% central, 80% south. Four inch soil temperatures averaged 63° north, 64° central, 65° south.

Sharply higher temperatures over weekend dried topsoils, advanced crop growth. Iceberg lettuce harvest began. Harvest spring vegetables, greens continued active. Apples, peaches, blueberries, grapes continued to size well; spraying active. Scattered strawberry harvest began. Field corn, soybean planting active. Early corn up 6 to 8 in. Hay making increased. Some rye cut for straw. Pasture growth good.

NEW MEXICO: Temperatures slightly below normal north central, east; near normal remainder of State. Showers, thundershowers central; eastern locations.

Days suitable for fieldwork 6.0. Soil moisture 50% short, 50% adequate. Barley 14% fair, 86% good. Wheat 30% poor, 50% fair, 20% good; 100% heading. Cotton 96% planted; slightly ahead of 1987, 10 points above average; 27% poor, 46% fair, 27% good. Onions 13% poor, 87% good. Lettuce 50% poor. 50% good; harvest neared completion. Cattle 64% fair, 36% good. Sheep 60% fair, 40% good. Range 7% poor, 72% fair, 21% good.

NEW YORK: Unusually cool midweek offset by unseasonably warm weather end of week, thus average temperatures near normal. Little or no

precipitation over northwest half of State. Southeast corner over 1.00 in. mostly from thunderstorms 23rd, 24th.

Days suitable for fieldwork 3.6. Soil moisture continued adequate to surplus. Corn 58% planted, 76% 1987, 59% avg. Early planted fields good, emerged. Oats 83% seeded, 95% 1987, 80% avg. Hay, pastures, wheat good. Alfalfa harvest underway. Grapevines rapid growth. Hudson Valley apples petal fall to fruit set stage. Lake Ontario apples neared full bloom. Heavy rains on Savannah muck. Some potato acres under water. Some acreage will be lost. Vegetable planting delayed due to wetness.

NORTH CAROLINA: Temperatures averaged 3 to 6° below normal statewide. Temperature extremes 34°; 92°. Precipitation ranged 0.16 to 4.30 in. across State.

Days suitable for fieldwork 4.6. Soil moisture 1% very short, 23% short, 60% adequate, 16% surplus. Oats 2% poor, 11% fair, 79% good, 8% excellent. Barley 11% fair, 77% good, 12% excellent. Rye 2% poor, 8% fair, 83% good, 7% excellent. Pasture 1% poor, 18% fair, 76% good, 5% excellent. Flue-cured tobacco 99% transplanted, 90% 1987, 92% avg. Tobacco plantbeds 2% poor, 10% fair, 88% good. Tobacco plant supply 6% short, 79% adequate, 15% surplus. Tobacco in fields 3% poor, 22% fair, 72% good, 3% excellent. Burley 57% transplanted, 43% 1987, 35% avg. Peanuts 86% planted, 92% 1987, 91% avg. Sweetpotatoes 43% planted, 31% 1987, 36% avg. Irish potatoes 11% fair, 75% good, 14% excellent. Peaches 7% fair, 79% good, 14% excellent. Truck crops 21% fair, 72% good, 7% excellent. Sorghum 58% planted, 54% 1987, 52% avg. Hay 72% 1st cutting, 7% 2nd cutting. Major farm activities: Planting sorghum, cotton, soybeans, peanuts; transplanting tobacco, sweetpotatoes; tending tobacco plantbeds; bedding land for tobacco transplanting; cutting hay; picking strawberries; fertilizing, spraying nursery crops; cultivating tobacco, truck crops, corn; tending livestock; general farm maintenance.

NORTH DAKOTA: Temperatures averaged 10 to 12° above normal. Extremes 34° southwest; 96° west central. Scattered showers, thunderstorms statewide. Precipitation 0.11 to 0.92 in. across State.

Days suitable for fieldwork 6.7. Soil moisture supplies further depleted. Topsoil 37% very short, 56% short, 7% adequate. Subsoil 36% very short, 49% short, 15% adequate. Small grain planting virtually completed. Spring wheat 78% emerged, 12% jointing and beyond; durum 76%, 5%; oats 76%, 12%, barley 78%, 14%. Winter wheat 58% jointing, 31% boot and beyond. Row crop planting ahead normal pace. Corn 86% planted, 87% 1987, 77% avg.; flax 75%, 77% 1987, 71% avg.; soybeans 85%, 74% 1987, 77% avg.; potatoes 93%, 97% 1987, 88% avg.; sunflower 66%, 55% 1987, 52% avg.; dry edible beans 79%, 68% 1987, 67% avg. Pastures 28% very poor, 37% poor, 30% fair, 5% good. Broadleaf spraying 31%, wild oats 51%. Wheat streak mosaic in western counties.

OHIO: Temperatures ranged 30s to 90s. Average temperatures subnormal. Early period cool temperatures limited evaporation losses. Precipitation subnormal ranging 0.10 in. most locations to near normal 0.90 in. few locations.

Days suitable for fieldwork 5.6. Soil moisture 53% short, 45% adequate, 2% surplus. Crop development behind 1987, ahead of average. Dry soils caused uneven emergence, weedy conditions from unactivated herbicides. Oats starting to head. Crop fair to good. No significant damage from midweek frost. Weevils, spittle bugs active in grass, legumes. Bean leaf beetle feeding on newly emerged soybeans.

OKLAHOMA: Temperatures averaged normal Panhandle to 2° below normal south central. Precipitation

averaged 0.02 in. south central to 0.23 in. west central.

Days suitable for fieldwork 6.1. Topsoil moisture 70% short, 30% adequate. Subsoil moisture 30% short, 70% adequate. Wheat 13% fair, 87% good; 99% heading, 99% 1987, 98% avg.; 60% soft dough, 70% 1987, 60% avg. Harvest just beginning southwest corner. Disease problems expected to reduce yield dry areas. Sorghum 50% planted, 15% 1987, 35% avg. Major producing Panhandle began planting. Cotton 45% planted, 20% 1987, 35% avg. Peanuts 55% planted, 55% 1987, 40% avg. Cotton, peanut growers irrigating because of prolonged dryness. Soybeans 30% planted, 55% 1987, 35% avg. Pastures, livestock good. Sales at Oklahoma National Stockyards highest in 15 years. Prices steady to slightly lower than preceding week.

OREGON: Temperatures normal or just below, except Medford 2° above normal. Eastside largest departures with central, northeast 3 to 4° above normal. Central coast over 1.00 in. precipitation. Remainder of coast, northwest interior near 0.50 in. Eastern stations up to 0.30 in. of rainfall, except Pendleton over 1.00 in.

Soil moisture 39% short, 59% adequate, 2% surplus. Spring grains very good, winter grains good Columbia Basin Counties; showers continued to improve conditions. Last of spring cereal seeding wrapping up Klamath Basin, most spring grain emerged high desert country. Grain, grass seed crops quite good Willamette Valley; pollination of many seed varieties underway. Red clover fields cut for hay, silage. Haying underway in much of west, quality generally good. Hay cutting also started Malheur County, central areas. Sugarbeet hoeing Malheur County. Tillage on summer fallow full swing. Hood River fruit orchards good, no adverse weather or disease problems. Pears very good Medford District. Cherry crop sizing well, beginning to turn color, crop looks heavy at The Dalles; spraying for fruit fly. Bloom continued on strawberries, raspberries Willamette Valley; bloom started on boysenberries, marionberries. Early strawberries not quite mature. Cranberries progressed well, early bloom showing north coast. Hybrid cranberries 10% bloomed, good condition south coast; bee hives placed but warmer weather needed for best pollination. Planting vegetables at rapid pace with break in weather Willamette Valley, crops include snap beans, sweet corn, beets, carrots. Onions, peas up, growing well west. Watermelon planting neared completion Hermiston-Boardman. Seed potato planting full swing Wallowa County. Last of potatoes planted Klamath Basin. Livestock good to excellent. Cattle moved or moving to summer pasture, forest permits east. Western pastures accelerated production with warmer soil temperatures. High elevation eastern rangeland generally good, many areas hoping for one more good rain.

PENNSYLVANIA: Unsettled weather conditions beginning week. Fair, dry through holiday weekend. Average temperature 61°, 2° above normal. Temperature extremes 30°; 88°. Average precipitation 0.61 in., 0.21 in. below normal.

Days suitable for fieldwork 3.0. Soil moisture 3% short, 32% adequate, 65% surplus. Plowing 92%, 93% 1987, 90% avg. Corn 61% planted, 80% 1987, 73% avg. Soybeans 24% planted, 44% 1987, 39% avg. Potatoes 83% planted, 86% 1987, 85% avg. Barley 8% pre-boot, 12% 1987, 11% avg.; 18% boot, 12% 1987, 19% avg.; 74% heading or headed, 76% 1987, 70% avg. Wheat 14% pre-boot, 19% 1987, 25% avg.; 40% boot, 29% 1987, 31% avg.; 46% heading or headed, 52% 1987, 44% avg. Wheat 5% poor, 19% fair, 55% good, 21% excellent. Oats 2% poor, 17% fair, 55% good, 26% excellent. Hay stands mostly good to fair. Feed from pastures mostly average to above average. Activities: Planting corn, potatoes, oats, hay, soybeans; spring plowing;

fence work; hauling manure; spreading fertilizer; caring for livestock; machinery maintenance.

PUERTO RICO: NO DATA AVAILABLE.

SOUTH CAROLINA: Temperatures averaged 4 to 6° below normal. Showers early widely distributed. Amounts varied none to 2.38 in. most stations 0.33 to 0.50 in.

Days suitable for fieldwork 5.3. Soil moisture 42% short, 58% adequate. Cotton 98% planted, 99% 1987, 97% avg; 2% very poor, 9% poor, 19% fair, 70% good. Soybeans 39% planted, 42% 1987, 37% avg.; 32% fair, 68% good. Tobacco fair to good; some premature flowering. Peanuts good; 94% planted, 87% 1987, 88% avg. Sorghum fair to good; 42% planted, 54% 1987, 47% avg. Spring cukes, snap beans fair to good; early harvest underway. Tomatoes good; harvest 3 weeks away. Peaches good; 1% harvested, 1% 1987, 3% avg. Wheat good; 27% ripe, 29% 1987, 47% avg.; 10% harvested, 3% 1987, 6% avg. Oats good; 35% ripe, 37% 1987, 46% avg.; 11% harvested. Grain hay good; 79% harvested, 81% 1987, 80% avg. Barley good; 26% ripe, 25% 1987, 42% avg.; 10% harvested, 12% 1987, 10% avg. Pastures fair to good.

SOUTH DAKOTA: Average temperatures 1 to 8° above normal. Extremes 31°; 93°. Widespread rainfall improved topsoil moisture considerably.

Days suitable for fieldwork 4.0. Topsoil moisture mostly adequate; 12% critically short, 17% short, 63% adequate, 8% surplus. Disease problems wheat streak mosaic, barley yellow dwarf on winter wheat.

TENNESSEE: Widespread rainfall early week. Precipitation averaged normal to 0.80 in. below normal. Temperatures averaged below normal.

Days suitable for fieldwork 4.4. Soil moisture 15% very short, 39% short, 43% adequate, 3% surplus. Corn 96% planted, 95% 1987, 85% avg. Tobacco 55% transplanted, 65% 1987, 49% avg. Primary activities: Land preparation, seeding spring crops; harvesting, marketing vegetables; cutting, baling hay; fertilizing pastures; controlling weeds in row crops; thinning, harvesting peaches; general care of livestock, poultry. Cattle good. Pastures fair.

TEXAS: Week began with cooler, drier air spilling into State, low pressure Mississippi Valley pulled cooler air in. Few thunderstorms west midweek. Showers increased High Plains, Trans-Pecos 29th, these thunderstorms moved eastward. Although some showers, most areas normal precipitation. High Plains wettest, portions east, Lower Valley very little rain.

Crops: Small grain harvest increased central Blacklands. Yields fair to good. Harvest increased Low Plains warmer daytime temperatures matured fields. Fields continued head High Plains. Recent rains helped to improve yield prospects dryland fields. Irrigated fields blooming, good progress. High winds some minor lodging problems. Wheat 10% harvested, 3% 1987, 14% avg. Corn planting virtually complete High Plains. Most fields good stands, good growth. High winds hurt some fields. Fields Blacklands silked. Most need additional moisture. Fields south, Coastal Bend, Rio Grande Valley doughing stage. Rain south too late to help yield prospects. Corn 25% silked, 17% 1987, 33% avg.; 4% doughing, 1% 1987, 7% avg. Grain sorghum planting increased many parts Plains with recent rain. Early fields emerged to good stands. High winds hurt some young plants. Fields Blacklands, central could use additional moisture. Fields beginning to head south central. South, Coastal Bend, Rio Grande Valley fields continued to head, turn color. Rain these areas too late to be value. Fields heading Upper Coast. Sorghum 19% headed, 9% 1987, 23% avg.; 2% turning color, 4% 1987, 3% avg. Cotton planting increased Low

Plains with recent moisture. Cooler temperatures night slowed growth slightly. Isolated wind, hail damage High Plains caused some replanting. Producers continued spraying operations Blacklands thrips increased. Fields squaring Blacklands, central. Coastal Bend, Valley fields set bolls. Some hail damage Trans-Pecos. Cotton 11% squaring, 9% 1987, 8% avg.; 2% setting bolls, none 1987, 2% avg. Rice producers continued flooding fields. Most fields good progress. Peanut planting slowly increasing rainfall improved moisture. Stands fair to good Cross-Timbers, south central. Irrigated fields good stands. Soybean planting increased Plains, Upper Coast. Planting slow because dry conditions. Other field crops: Oats 28% harvested, 19% 1987, 22% avg. Peanuts 30% planted, 27% 1987, 30% avg. Soybeans 41% planted, 36% 1987, 37% avg. Sunflowers 10% planted, 9% 1987, 34% avg.

Commercial Vegetables: Rio Grande Valley harvest melons continued, onion, cabbage harvest wound down. Citrus good progress. San Antonio-Winter Garden onion, beet harvest continued. Watermelons slightly behind but setting fruit. East harvest truck crops underway. Dry conditions decreased yield prospects. Some wilt melon vines. High Plains irrigation continued. Thrips increased onion fields. Other vegetables good progress. Trans-Pecos rabbits damaged cabbage, cantaloup fields. Onions neared harvest. Peach harvest continued east Hill Country. Quality good. Pecan groves good sets most areas. Some hail damage west. Outbreaks casebearers light so far, spraying continued.

Range and Pasture: Ranges south very good rains; not enough moisture fully relieve dry conditions. Other areas responding to recent moisture. Additional hay cut. Dry conditions kept yields down some. Livestock conditions improved little as forage availability increased. Marketings steady.

UTAH: Precipitation very light western, south central, Uinta Basin, dry elsewhere. Temperatures 2 to 7° above normal.

Days suitable for fieldwork 6.3. Soil moisture 47% short, 53% adequate. Winter wheat 72% booting, 62% 1987, 39% avg.; 28% headed, 37% 1987, 28% avg. Spring wheat 32% booting, none 1987, none avg., 7% headed, none 1987, none avg. Barley 40% booting, 50% 1987, 20% avg.; 18% headed, 22% 1987, 4% avg. Oats 53% jointed, 50% 1987, 19% avg.; 29% booting, 15% 1987, 4% avg. Corn height 4 in., 5 in. 1987, 2 in. avg. Alfalfa 1st cutting beginning outside extreme southwest. Alfalfa weevil problems some locations. Pastures, ranges vary widely. Livestock good to excellent. Cattle moved to summer range 54%, 49% 1987, 40% avg. Sheep moved to summer range 50%, 32% 1987, 31% avg. Major farm activities: Moving livestock, 1st cutting hay, irrigating, spraying fruit, alfalfa, weeds.

VIRGINIA: Cloudy, isolated thunderstorms. Cold front mid period dropped temperatures sharply. Period averaged 2° below normal, range 32 to 90°. Precipitation heavy in some localities. Average range 0.25 to 1.75 in.

Days suitable for fieldwork 3.3. Topsoil moisture 6% short, 60% adequate, 34% surplus. Modest planting progress due to wet weather. Corn 90% planted, 87% 1987, 92% avg. Peanuts 99% planted, 100% 1987, 99% avg. Soybeans 38% planted, 33% 1987, 42% avg. Flue-cured tobacco 87% transplanted, 64% 1987, 87% avg. Burley tobacco 48% transplanted, 48% 1987, 32% avg. All crops, pastures good to excellent. Some lodging in small grains. Small grain silage cut, just beginning barley harvest for grain. Cereal leaf beetle, disease control active in small grains. Cut hay, some rain damaged, some over mature due to rain delays. Hail caused minor damage to fruit, major

damage to tomatoes. Livestock good to excellent. Sheep shearing winding down.

WASHINGTON: Migratory Pacific frontal systems kept State moist, cool during early, latter portions of week with temporary ridge of high pressure over State 22rd to 25th. Mean temperatures generally below normal over western area, warmer than normal eastern areas.

Days suitable for fieldwork 6 to 7 east, 2 to 4 west. Soil moisture 75% short, 25% adequate. Dryland crop conditions worsened, drought stress affected crops several areas. Spring, winter wheat heading slightly behind normal. By weekend, winter wheat 24% headed, 52% 1987, 31% avg. Potato planting completed, 86% emergence. Rains delayed cutting 1st crop hay some areas, otherwise cutting continued near normal. Alfalfa weevil damage showing some fields. Warmer temperatures encouraged expedient corn, pea planting most vegetable growing areas. Codling moth control programs initiated Chelan, Spokane Counties. First cover spray application neared completion Yakima County. Fireblight bosc pears continued problem Chelan, Yakima County. Chelan County capture of 1st cherry fruit fly this growing season. Asparagus harvest continued Yakima Valley, lower Columbia Basin. Transplanting warmer season vegetables nearly completed Yakima Valley. Strawberries, raspberries continued blooming west. Range, pasture feeds mostly adequate west, mostly short east. Hay, other roughage feeds mostly adequate statewide.

WEST VIRGINIA: Average temperature 61°. Extremes 92° Creston; 28° Greenbank. Average precipitation 0.61 in.

Days suitable for fieldwork 3.4. Soil moisture 34% short, 44% adequate, 22% surplus. Oats, wheat, barley good to fair. Oats 100% planted, 94% emerged. Wheat 95% jointed, 57% headed. Barley 97% jointed, 64% headed. Corn fair to good; 74% planted, 47% emerged. Tobacco 100% emerged, 25% set. Apples, peaches fair to good. Cattle, sheep good to fair. Farm activities: Fieldwork, general farm maintenance, gardening.

WISCONSIN: Temperatures averaged 64°, 3° above normal. Extremes 23°; 96°. Precipitation none to 0.40 in., most central. Rain needed.

Days suitable for fieldwork 6.9. Soil moisture 95% short, 5% adequate. Crops 3% very poor, 10% poor, 43% fair, 44% good. Some frost damage 25th. Corn 96% planted, 95% 1987, 85% avg. Corn 1% very poor, 6% poor, 35% fair, 54% good, 4% excellent. Average height 3 in., 4 in. 1987, 1 in. avg.; slowed by dryness. Soybeans 85% planted, 59% 1987, 50% avg. Later planted soybeans slow emerging. Winter wheat started heading, short. First crop hay 15% cut, 2% 1987, 5% avg. Yields down, quality good. Alfalfa weevils south. Pastures poor 64% of normal, 86% of normal avg.

WYOMING: Temperatures above normal most areas. Precipitation below normal.

Days suitable for fieldwork 6.0. Topsoil moisture 20% short, 70% adequate, 10% surplus. Spring wheat most planted, most 1987, 95% avg.; 85% emerged, 95% 1987, 85% avg. Oats 95% planted, 95% 1987, 95% avg.; 75% emerged, 80% 1987, 75% avg. Barley most planted, most 1987, 95% avg.; 90% emerged, 90% 1987, 85% avg. Sugarbeets 90% emerged, 95% 1987, 90% avg. Corn 85% planted, 85% 1987, 90% avg.; 40% emerged, 60% 1987, 60% avg. Potatoes 65% planted, 70% 1987, 75% avg.; 45% emerged, 45% 1987, 35% avg. Dry beans 25% planted, 40% 1987, 45% avg. Winter wheat fair to good. Livestock mostly good. Cattle, sheep moved to summer ranges 35%. Calf, lamb losses light to normal. Ranges, pastures fair to good.

Crop Progress 1/

FOR WEEK ENDING MAY 29, 1988

**WINTER WHEAT
% HEADED**

	1988	1987	AVG.
ARK	100	100	NA
CALIF	99	99	100
COLO	25	41	35
GA	100	100	100
IDAHO	6	26	8
ILL	98	97	84
IND	90	90	73
KANS	95	98	80
MICH	20	40	20
MO	100	99	94
MONT	12	2	1
NEBR	65	93	52
N MEX	100	100	NA
N C	97	95	NA
OHIO	70	76	54
OKLA	99	99	98
OREG	37	78	47
S DAK	17	48	26
TEX	94	99	97
WASH	24	52	31

20 STATES 75 83 NA

EXCL. STATES WITH NA 74 82 70

THESE 20 STATES PRODUCED 91% OF THE 1987 WINTER WHEAT CROP.

NA - NOT AVAILABLE.

**GRAIN SORGHUM
% PLANTED**

	1988	1987	AVG.
ARK	91	95	86
ILL	85	71	40
KANS	35	35	20
LA	84	88	91
MISS	90	89	76
MO	80	73	55
NEBR	70	62	54
OKLA	50	15	35
S DAK	27	40	30
TENN	77	77	68
TEX	73	69	75
11 STATES	58	54	47

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

**SOYBEANS
% PLANTED**

	1988	1987	AVG.
ALA	45	48	41
ARK	33	50	35
GA	40	50	47
ILL	97	88	67
IND	89	90	57
IOWA	98	83	66
KANS	45	45	20
KY	54	46	28
LA	36	45	52
MICH	75	80	45
MINN	89	90	70
MISS	35	39	39
MO	68	66	39
NEBR	75	72	57
N C	40	34	40
OHIO	89	86	58
S C	39	42	37
S DAK	76	78	46
TENN	35	43	29

19 STATES 74 72 53

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

Crop Condition

FOR WEEK ENDING MAY 29, 1988

RICE

STATE	VP	P	F	G	EX
ARK	0	17	56	27	0
CALIF	0	5	15	70	10
LA	0	0	37	63	0
MISS	0	0	55	45	0
TEX	0	0	0	64	36

SPRING WHEAT

STATE	VP	P	F	G	EX
IDAHO	0	3	29	57	11
MINN	1	9	47	40	3
MONT	5	20	42	27	6
N DAK	5	16	49	30	0
S DAK	4	20	44	28	4

CORN

STATE	VP	P	F	G	EX
COLO	0	0	26	51	23
GA	0	2	20	68	10
ILL	0	1	21	70	8
IND	2	10	53	33	2
IOWA	0	2	23	68	7
KANS	7	0	24	35	34
KY	0	3	32	62	3
MICH	1	8	30	50	11
MINN	1	3	42	44	10
MO	0	14	65	20	1
NEBR	0	0	24	74	2
N C	1	2	25	65	7
OHIO	1	10	38	44	7
S DAK	1	4	13	71	11
TEX	1	8	36	47	8
WISC	1	6	35	54	4

COTTON

STATE	VP	P	F	G	EX
AL	0	9	58	33	0
ARIZ	0	0	33	50	17
ARK	0	19	76	5	0
CA	0	0	10	50	40
GA	0	0	28	72	0
LA	2	37	61	0	0
MISS	0	5	65	30	0
MO	0	15	54	31	0
N MEX	0	27	46	27	0
N C	0	8	28	64	0
S C	2	9	19	70	0
TENN	0	13	37	48	2

WINTER WHEAT

STATE	VP	P	F	G	EX
ARK	0	24	35	36	5
CALIF	0	5	20	70	5
COLO	0	4	22	59	15
GA	0	2	5	83	10
IDAHO	0	1	28	56	15
ILL	0	6	20	66	8
IND	3	11	61	24	1
KANS	3	33	45	16	3
MICH	2	10	33	45	10
MO	1	13	56	29	1
MONT	17	19	30	26	8
NEBR	0	3	43	49	5
N MEX	0	30	50	20	0
N C	0	0	8	81	11
OHIO	0	10	41	42	7
OKLA	0	0	13	87	0
OREG	0	0	27	68	5
S DAK	8	21	40	26	5
TEX	3	17	40	34	6
WASH	0	5	50	35	10

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

14 STATES 78 75 76

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

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

	RICE % PLANTED		
	1988	1987	AVG.
ARK	98	99	90
CALIF	95	98	81
LA	98	97	96
MISS	100	100	96
TEX	100	100	100
5 STATES	98	99	91

	RICE % EMERGED		
	1988	1987	AVG.
ARK	83	93	79
CALIF	65	80	54
LA	90	93	93
MISS	91	96	86
TEX	100	99	97
5 STATES	84	92	80

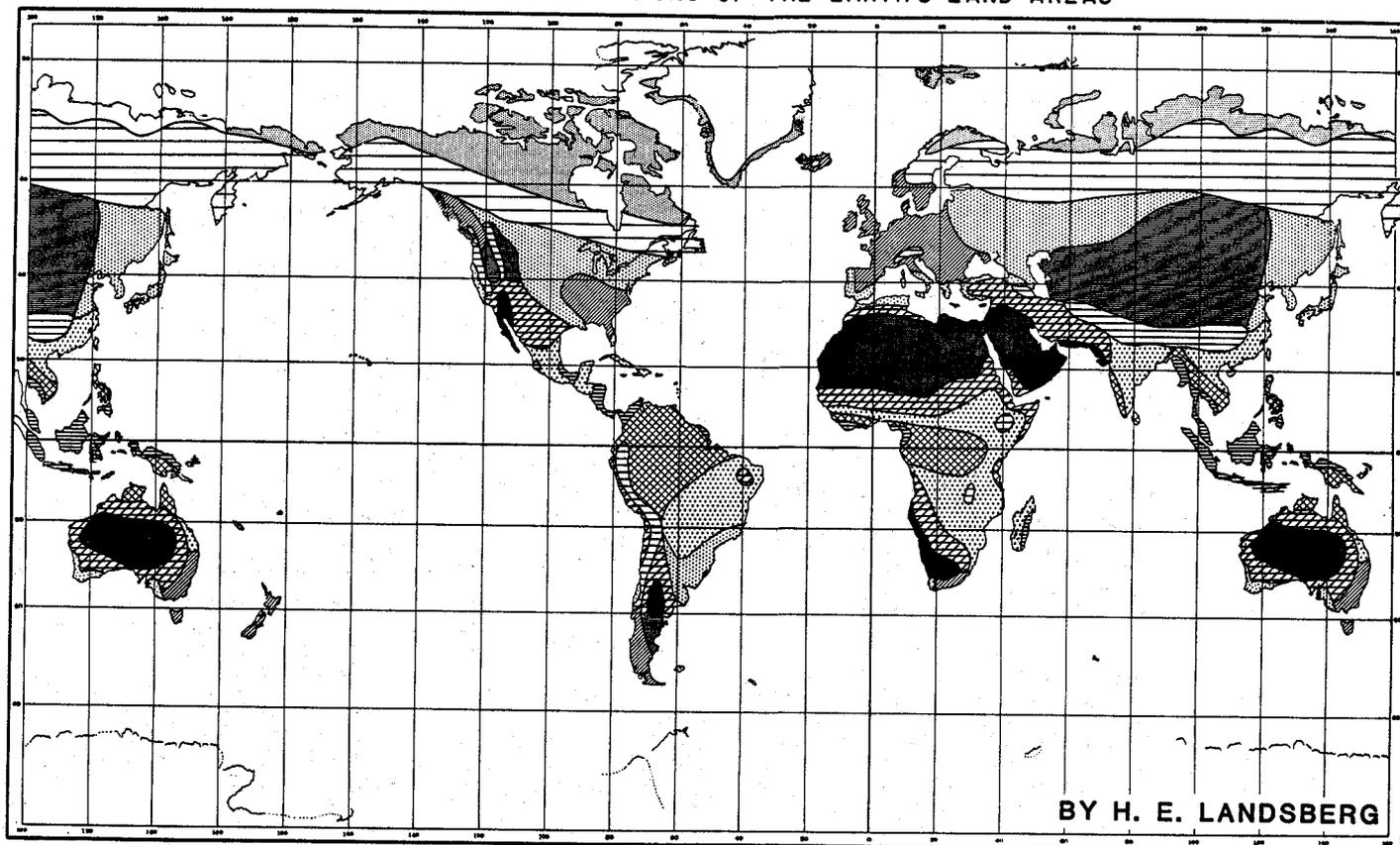
	SPRING WHEAT % EMERGED		
	1988	1987	AVG.
IDAHO	92	100	84
MINN	100	99	81
MONT	88	88	82
N DAK	90	92	78
S DAK	100	100	94
5 STATES	93	94	82

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

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

THESE 5 STATES PRODUCED 95% OF THE 1987 SPRING WHEAT CROP.

MAJOR CLIMATIC SUBDIVISIONS OF THE EARTH'S LAND AREAS



BY H. E. LANDSBERG

- | | | | |
|---|--|---|---|
| COLD AREAS | MODERATE AREAS | WARM AND HOT AREAS | MOUNTAIN AREAS |
| GLACIATED | COLD WINTERS - RAINFALL GENERALLY ADEQUATE FOR CROPS | HOT AND RAINY THROUGHOUT YEAR | WITH MARKEDLY DIFFERENT CLIMATE FROM SURROUNDINGS, ACTING AS CLIMATIC BARRIER |
| COLD - TUNDRA (NO TREES) | DISTINCT WINTER SEASON GENERALLY AMPLE RAINFALL | HOT WITH SEASONAL VARIATION OF RAINFALL | |
| SHORT SUMMERS WITH CHANCE OF FROST IN ANY MONTH | MILD MODERATE RAINFALL (USUALLY WINTER) | WARM WITH DISTINCT RAINY SEASON | |
| | COOL ARID OR SEMIARID REGIONS | WARM DESERT | |
| | | WARM SEMIARID REGION | |

Note: Boundaries between areas should be regarded as broad transition zones.

International Weather and Crop Summary

May 22-28, 1988

HIGHLIGHTS:

UNITED STATES ... Rain helps ease dry conditions throughout most of the eastern half of the Nation, but soil moisture remains short in most areas.

USSR ... In Western USSR, timely rains over the western and southern Ukraine and the North Caucasus benefit winter grains entering the reproductive phase of development. In the New Lands, spring grain planting progresses with minimal delays, but unusually cool weather slows crop emergence and early growth.

EUROPE ... Light rain helps to relieve dryness over sections of north-central Europe.

SOUTH ASIA ... Light rain covers south coastal rice areas where planting is underway. Heavy rain causes flooding from Bangladesh eastward, but light rain covers other eastern crop regions.

CANADA ... Dry weather persists over most western grain regions, where moisture is insufficient for germination. Rain covers eastern Saskatchewan.

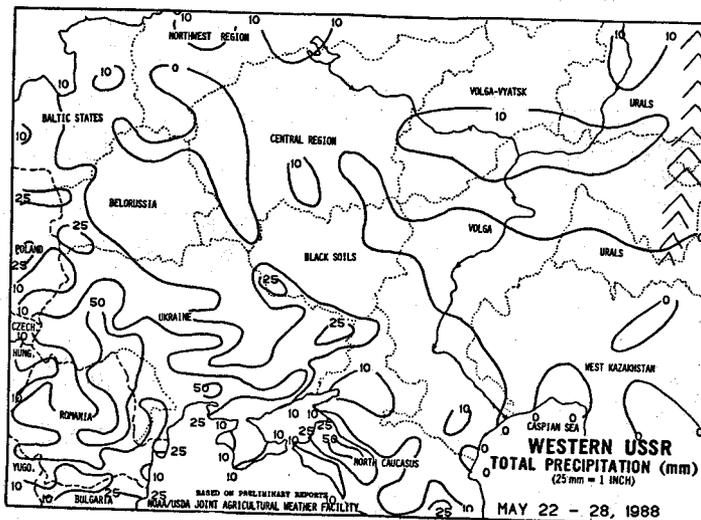
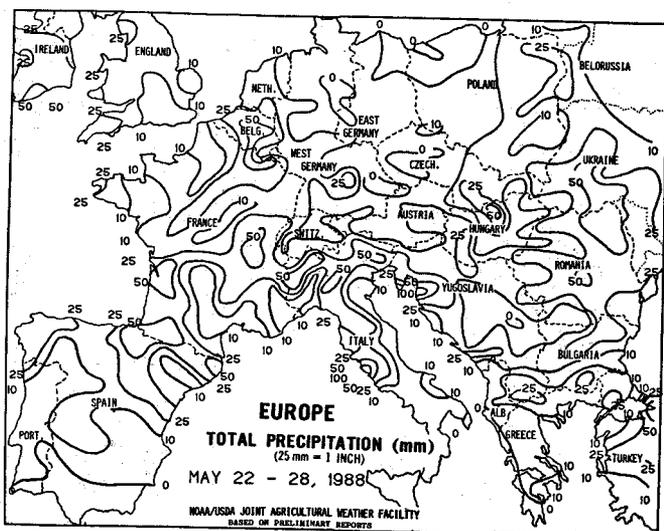
EASTERN ASIA ... Heavy rain and flooding continue in the southeast. Widespread rain delays late spring planting in the northeast.

SOUTHEAST ASIA ... Variable showers continue in Indochina, maintaining favorable planting conditions. Late-week, tropical showers cause local flooding in the northern Philippines.

SOUTH AMERICA ... Wetness persists in south-central Brazil. Dry, cool weather continues over Argentina's crop areas, extending into extreme southern Brazil.

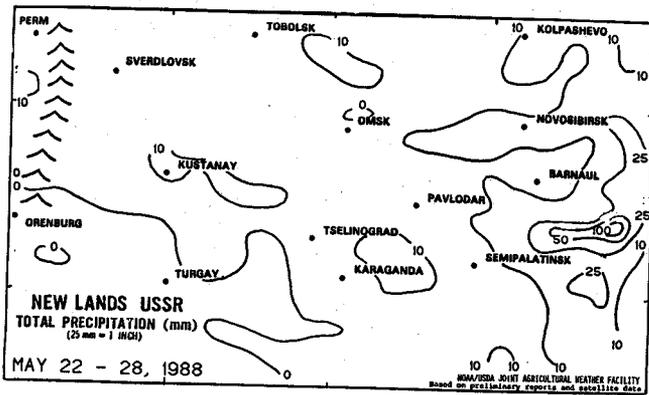
AUSTRALIA ... Heavy rain delays fall planting over southeastern crop areas. Mostly dry weather favors harvest progress in summer crop areas.

MEXICO ... Some beneficial rain falls along the east coast and southeastern Plateau corn belt, but mostly dry weather prevails elsewhere.

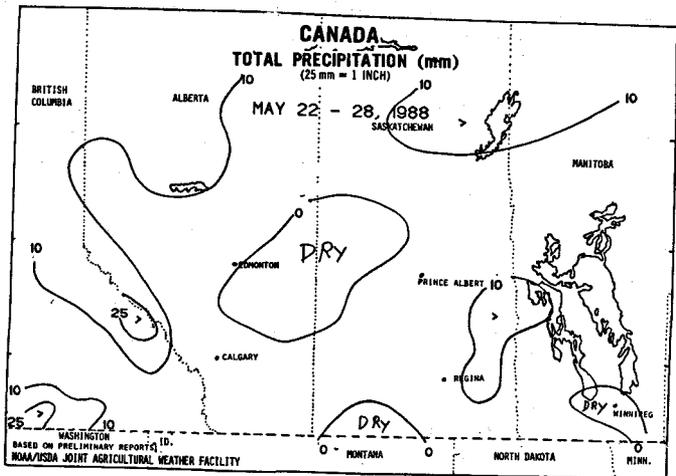


EUROPE ... Light rain (less than 10mm) helped to relieve dryness over sections of East Germany, northern West Germany, western Poland, and northern Czechoslovakia. Topsoil moisture remained mostly at unfavorable low levels for vegetative to heading winter grains, however. Moderate to heavy rain (greater than 25mm) favored winter and summer crops across sections of northern Spain, France, northern Italy, and the Balkans, while lighter rain covered much of the remainder of the continent. Above-normal temperatures accelerated crop growth rates and moisture requirements across northern growing areas. Scattered rainfall in extreme southern crop areas caused minor delays in winter grain harvest. Winter grains across Europe range from mature in the south to vegetative in the northeast.

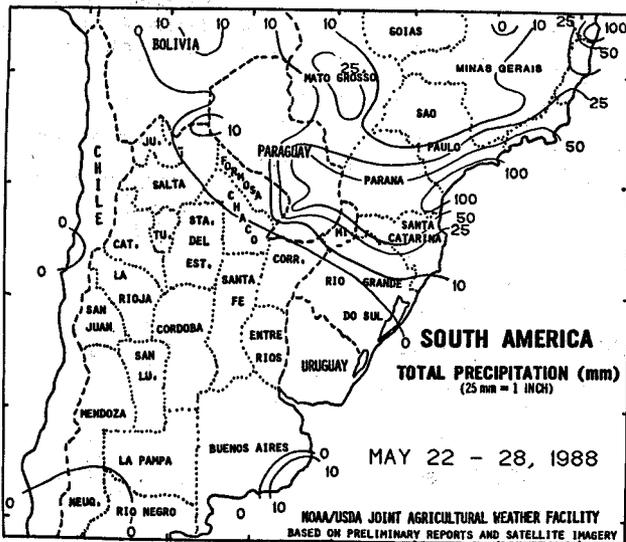
USSR ... Timely rain covered the western and southern Ukraine and the North Caucasus benefiting winter grains entering the reproductive phase of development as well as corn, sugarbeets, and sunflowers in the vegetative stage. Precipitation amounts in these areas ranged from 20 to 60mm with localized amounts in excess of 60mm covering crops in the southwestern Ukraine. Dry weather covered most of Belorussia, the Central Region, the Black Soils Region, and the Volga where winter grains are jointing and spring grains range from tillering to jointing. Although the weather was dry in these areas, soil moisture was adequate for crop growth except in the extreme northeastern Black Soils Region and the southern Volga Vyatsk Region where soil moisture was limited. Weekly average temperatures were near normal in the south and 1-3 degrees C above normal in the north.



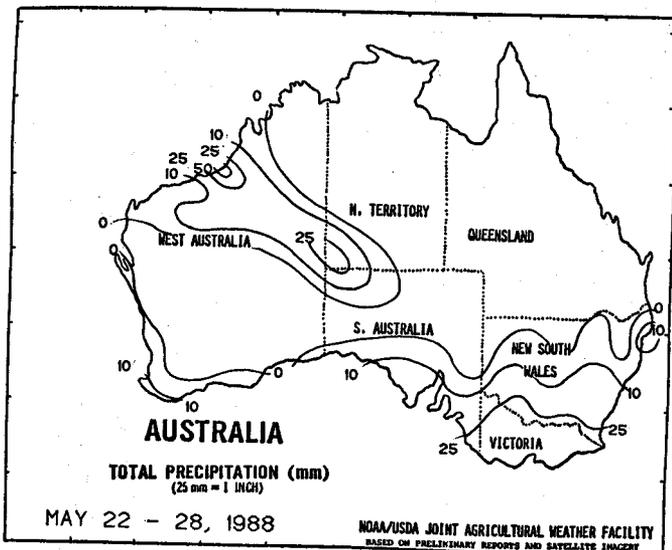
In the New Lands, spring grain planting continued to progress northward. Precipitation was light, allowing spring fieldwork to progress with minimal delays. Light showers (6 to 19mm) in the western Urals and crop areas around Novosibirsk helped to increase topsoil moisture, previously reduced by continued dry weather. Unseasonable cool weather covered the region with average weekly temperatures ranging from 2 to 5 degrees C below normal. The cool weather slowed spring grain emergence and early growth. Highest weekly temperatures ranged from 25 to 30 degrees C in the west and 19 to 25 degrees C in the east. Lowest weekly temperatures ranged from 1 to 5 degrees C and -1 to 3 degrees C in the west and east, respectively.



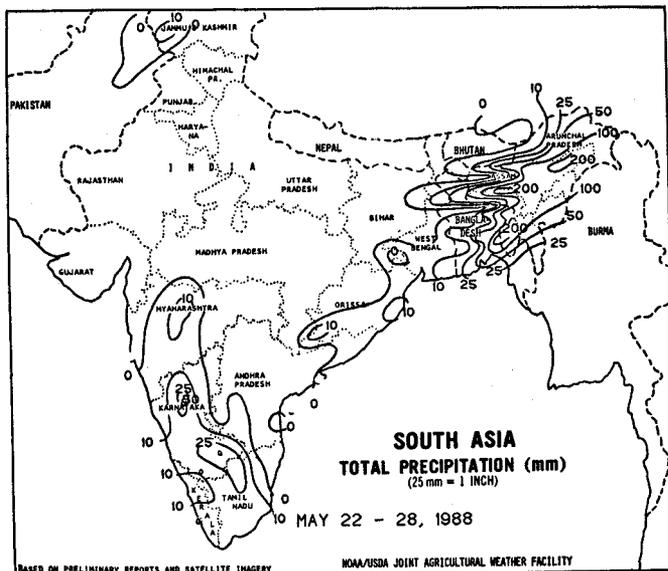
CANADA ... Dry, warm weather persisted over most grain regions of Alberta and the western third of Saskatchewan. Topsoil moisture throughout the southwestern Prairies continued insufficient for spring wheat germination. Light to moderate rain (8-12mm) returned to Alberta's Peace River Valley, the northernmost grain region. Light rain (2-8mm) fell over central Saskatchewan, and moderate rain (10-15mm) returned to portions of eastern Saskatchewan north of Regina, improving conditions for early crop growth. Drier weather (less than 2mm) in southeastern Saskatchewan and Manitoba promoted planting.



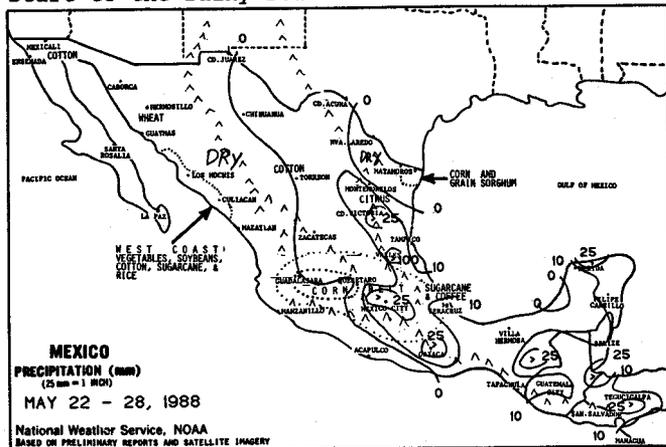
SOUTH AMERICA ... In south-central Brazil, rain continued to hamper fieldwork in Parana and Santa Catarina, with weekly rainfall ranging from 20 to 123mm. Topsoils may be too wet for good wheat establishment. Showers (10-34mm) also covered northern Rio Grande do Sul and Mato Grosso do Sul, while only light rain (2-10mm) fell in most coffee areas of extreme northern Parana, Sao Paulo, and southern Minas Gerais. Dry weather prevailed in southern Rio Grande do Sul, favoring late wheat planting. In Argentina, sunny skies and cool weather prevailed throughout the major crop areas. Summer crop harvesting is nearly finished except for soybeans which are about 35 percent harvested. The dryness favored rapid harvest activity. Topsoils are becoming dry for wheat planting and emergence, however. Weekly temperatures averaged 2-3 degrees C below normal with periodic frost throughout the week. Some light frost reached southern Brazil by week's end.



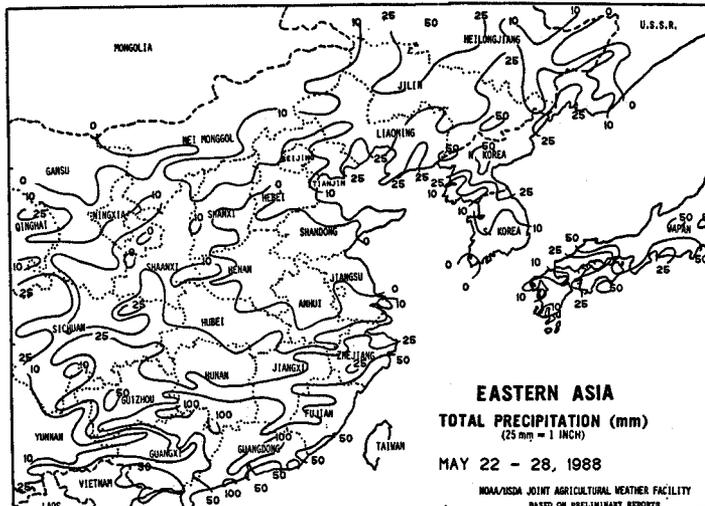
AUSTRALIA ... Moderate to heavy rain (greater than 25mm) delayed winter cereals planting over Victoria and southern New South Wales but kept soil moisture at mostly favorable levels. Lighter rain (generally less than 15mm) favored newly emerging winter crops across crop areas in southern Western Australia, South Australia, and central and northern New South Wales. The rainfall in northern New South Wales caused minor delays in the summer crop harvest, while northern summer crop areas in Queensland remained favorably dry. Remnants of a tropical cyclone brought heavy rain (greater than 25mm) to sections of northern Western Australia on the 23rd, spreading southeastward as far as northern South Australia on the 25th.



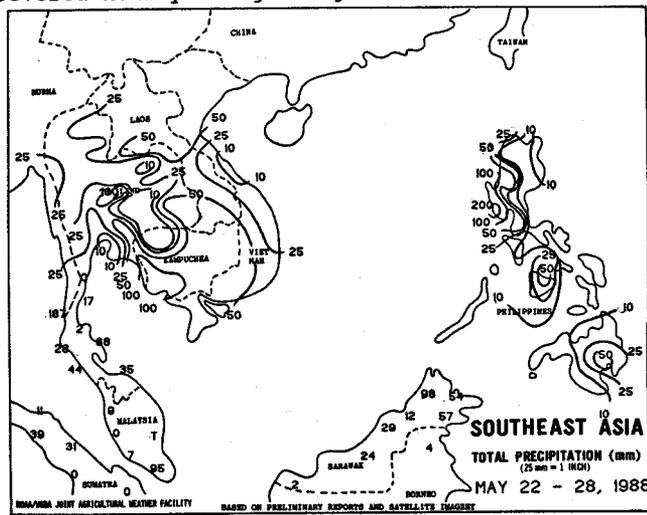
SOUTH ASIA ... Light showers (10-22mm) covered coastal rice areas of southern India, with heavier rain (25-50mm) in interior summer crop areas of Karnataka. Summer crop planting is usually well underway in southern India during June, corresponding to the onset of the southwest monsoon, and rice planting has likely begun. Showers diminished in the east from northern Andhra Pradesh to West Bengal, with amounts averaging 1-19mm. Heavy showers (100-200mm or more), however, from central Bangladesh eastward caused local flooding. The rice crop was reportedly damaged. Dry, seasonably hot weather returned to most crop regions of central and northern India, though light to moderate rain (2-17mm) continued in central Maharashtra. Pre-planting rainfall has been below normal in all but eastern and south coastal crop areas, necessitating a timely start to the rainy season.



MEXICO ... Beneficial rain fell along the east coast and in southeastern portions of the Southern Plateau corn belt. Weekly rainfall averaged 10-40mm in these areas. Elsewhere, very light rain (6mm or less) covered much of the eastern half of the country, while dry weather prevailed in the west and extreme northeast. The dryness continued to favor wheat harvesting in the northwest, but moisture is short for summer crops. Little or no rain also left the north-central rangelands and cotton areas quite dry. Weekly temperatures averaged 2 degrees C above normal in the west, with extreme maximum readings pushing into the upper thirties (C). Temperatures averaged near to slightly below normal in the east.



EASTERN ASIA ... Widespread heavy rain (greater than 25mm) continued over southeastern China and Taiwan, keeping soil moisture at unfavorably high levels and causing fieldwork delays. Excessive rainfall over the past few weeks has caused flooding in many southeastern areas, especially in the province of Fujian where property and crop damage were reported. Moderate to heavy rain also fell across northern sections of the North China Plain to North Korea, Manchuria, and Japan, causing delays in late soybean planting. The rain benefited dry soils across the northern North China Plain, but kept soils unfavorably wet in sections of Heilongjiang. In contrast, crop areas in the Yellow River Valley remained mostly dry. Crop growth rates and evaporative loss rates were reduced by below-normal temperatures which covered nearly all growing areas.



SOUTHEAST ASIA ... Widespread, highly variable rainfall (as much as 102mm) continued throughout Indochina, maintaining generally favorable grain planting conditions. Pockets of light rain (6-16mm) continued for the second week over portions of Thailand's corn region, favoring planting activities. Rainfall increased from the previous week over Kampuchea, southern Laos, and southern Vietnam with amounts ranging from 25 to 100mm or more. In the Philippines, late-week, tropical rainfall (50-264mm) from a storm developing in the South China Sea covered west-central Luzon, causing local flooding. Light to moderate rain (7-32mm) fell elsewhere in Luzon's grain regions and moderate to heavy rain (31-60mm) covered central Mindanao.

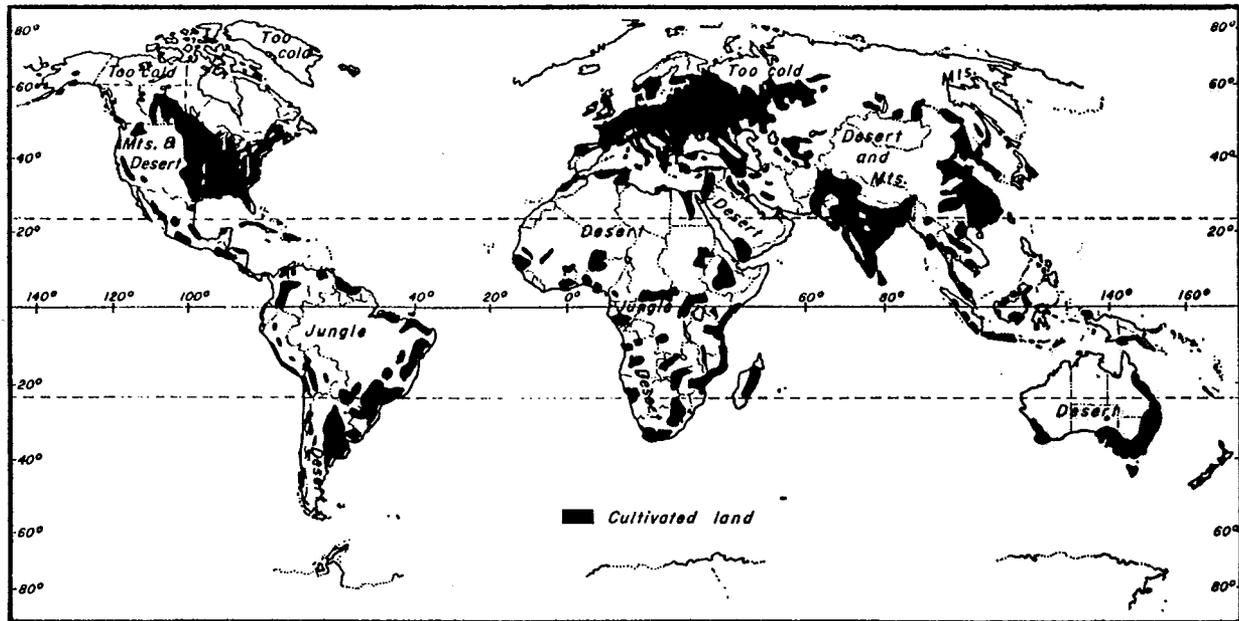
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Approximate cultivated land area of the world. [Courtesy U. S. Department of Agriculture, Foreign Agricultural Service.]

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