WEEKLY WEATHER AND CROP BULLETIN

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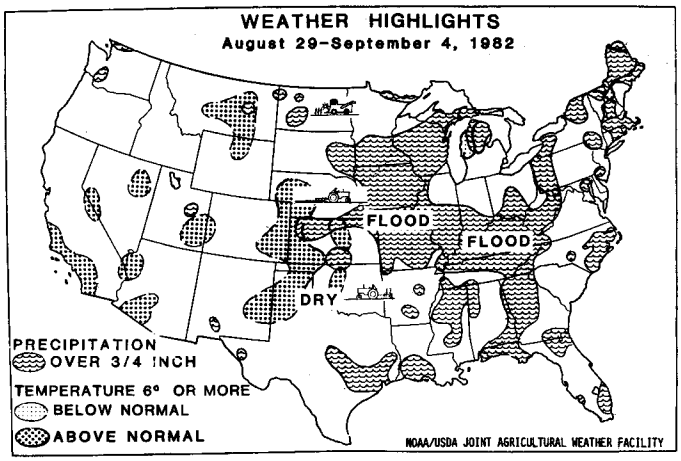
National Weather Summary

August 29 - September 4



HIGHLIGHTS: Thunderstorms produced heavy rain through the middle Mississippi Valley and the Ohio Valley. Several days of heavy rain in Kentucky and eastern Tennessee swelled streams and caused local flooding. Spotty rainshowers in the East Coast States helped some dry areas, but many areas are still too dry. Cold temperatures moved eastward from the northern Plains to the Northeast and cooled the East Coast States as far south as Georgia.

SUNDAY . . .The cold air moved into the Northeast, setting many low-temperature records from Wisconsin eastward and then southward to Pennsylvania and New Jersey. Warm weather in the Plains reached into Montana and the western Dakotas. Thunderstorms produced heavy rain in south-central Kansas and north-central Oklahoma, from the northwestern two-thirds of Missouri to southeastern Nebraska, and through central Iowa to southern Wisconsin. A few showers dotted the Rocky Mountains, the central Plateau, and the Pacific Northwest.

MONDAY . . .Temperatures modified somewhat in the Northeast, and warmed in the midwest, but cooler air enveloped the northern Plains. High temperatures reached only to the sixties and seventies from northern Montana through Wisconsin. Showers and thunderstorms covered the area from southern Louisiana and eastern Mississippi through the Ohio Valley. Heavy showers fell from southeastern South Dakota into Iowa and in northern Kansas. Scattered showers fell in the Northeast, the Rocky Mountains, and the northern Plains.

TUESDAY . . .Showers and thunderstorms covered the area from southeastern Minnesota and southwest Wisconsin, through central Iowa to southern Illinois and the Ohio River Valley. Continued heavy rain in Kentucky caused serious flooding. Showers also fell through the Appalachians to southern New York and to southern New England. Temperatures warmed to the eighties in the northern Plains and the Midwest.

WEDNESDAY . . .Showers and thunderstorms concentrated in the area from northern Missouri through southern Illinois and the lower Ohio Valley. Another area of severe thunderstorms extended from northern Georgia to eastern Kentucky. Kentucky and Tenneseee reported more flooding. Moderate to heavy thunderstorms in western North Carolina produced needed rain. Early-morning temperatures were cool in the northern Plains but warmed to near 80° by afternoon.

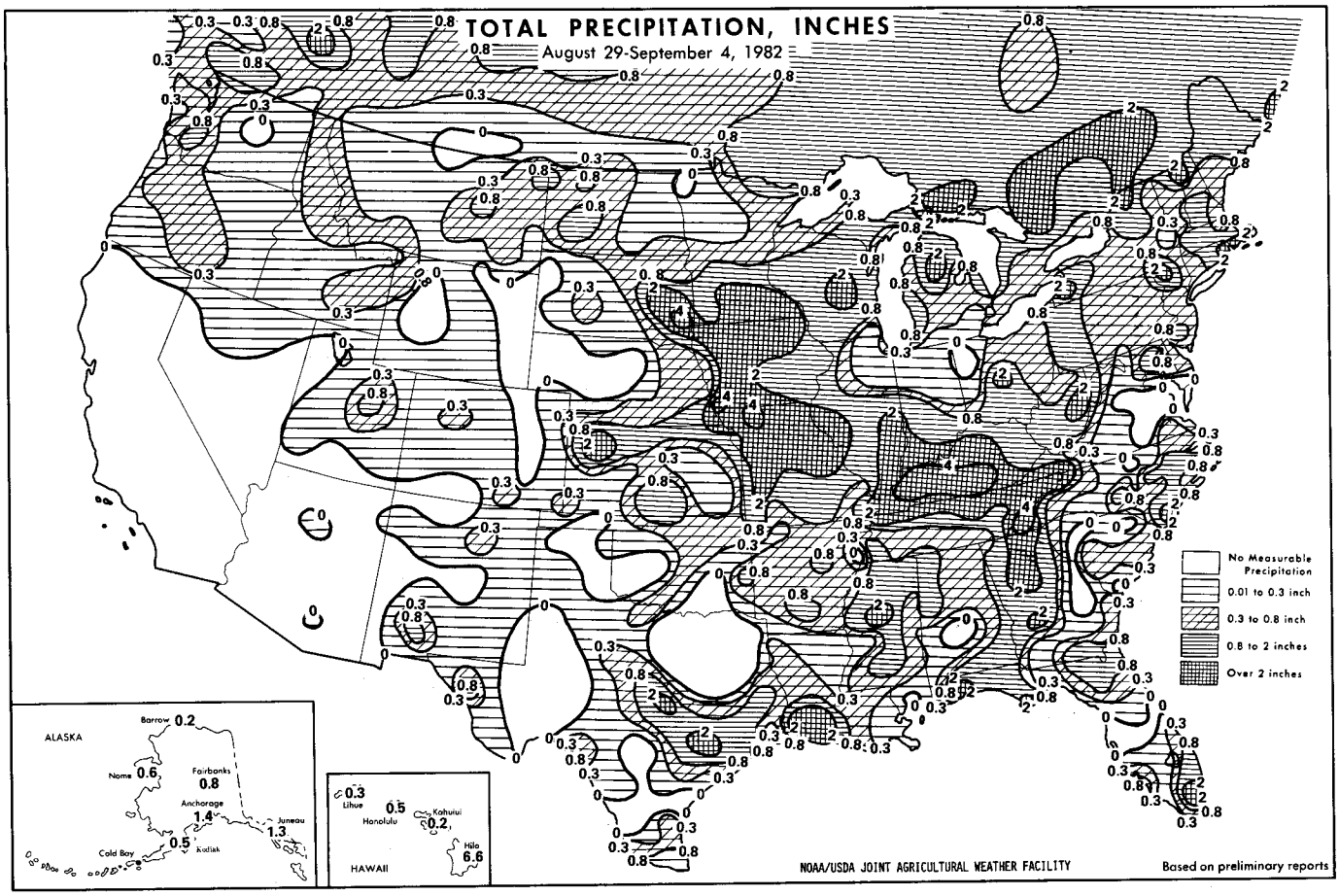
THURSDAY . . .Widespread thunderstorms covered the area from Arkansas through the Ohio Valley to New England, and eastward from Arkansas to Georgia and the East Coast States. Heavy showers, again from northern Georgia to eastern Kentucky, swelled streams and caused local flooding. Scattered thunderstorms covered the areas from central Texas to New Mexico and Colorado, and from northern Wisconsin through the Great Lakes region. Temperatures were cool in the morning along the Canadian border, but most of the crop areas warmed to the eighties.

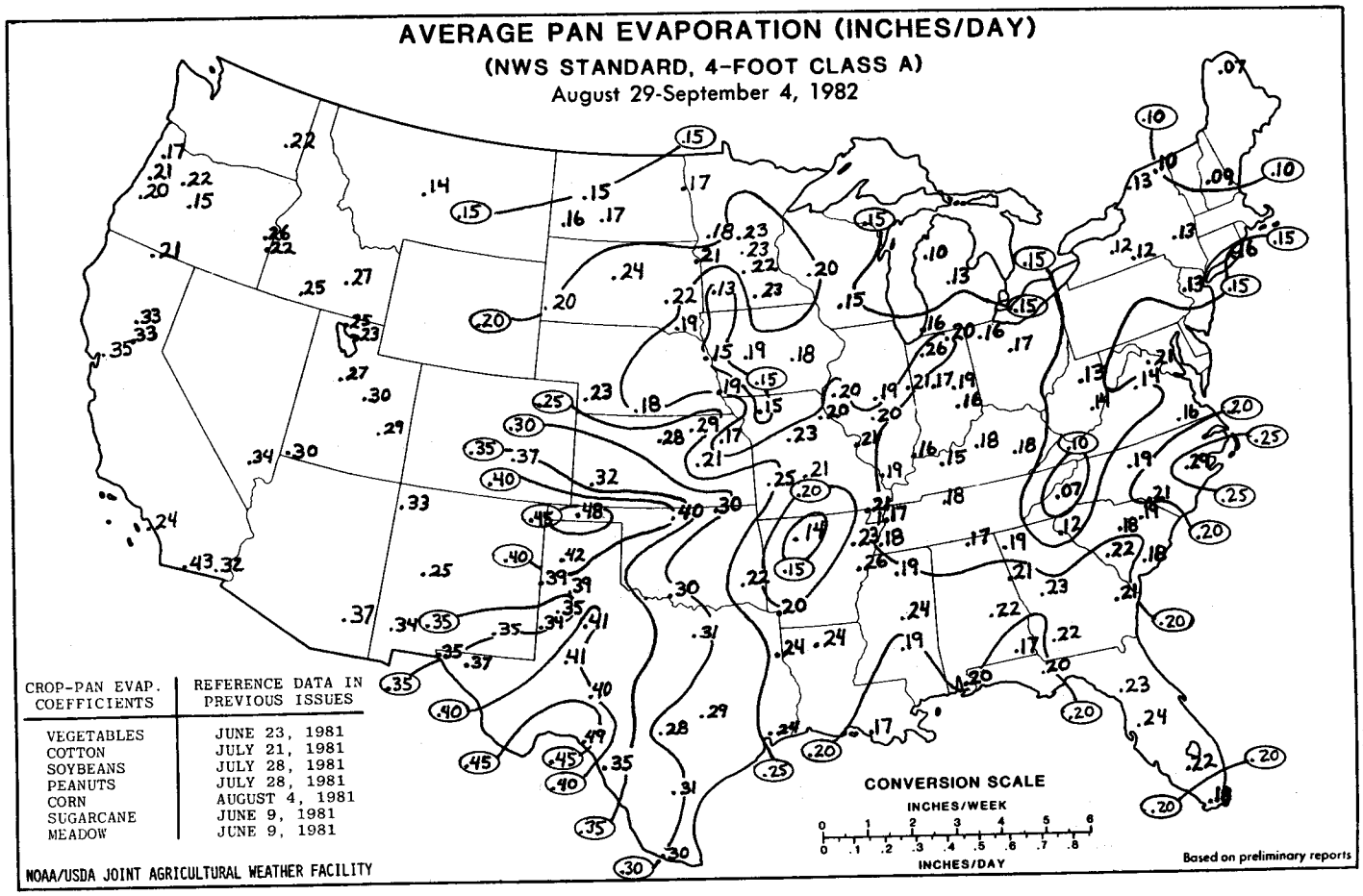
FRIDAY . . .Rainshowers remained scattered from New England through western New York to north-central Pennsylvania, down the east coast from North Carolina to Florida, and along the gulf coast. Thunderstorms in southeastern Texas were heavy in places, and some rain fell in very dry areas. Cool weather remained in the northern border states and moved into the Northeast to the central Appalachians. Scattered showers broke out over the Pacific Northwest.

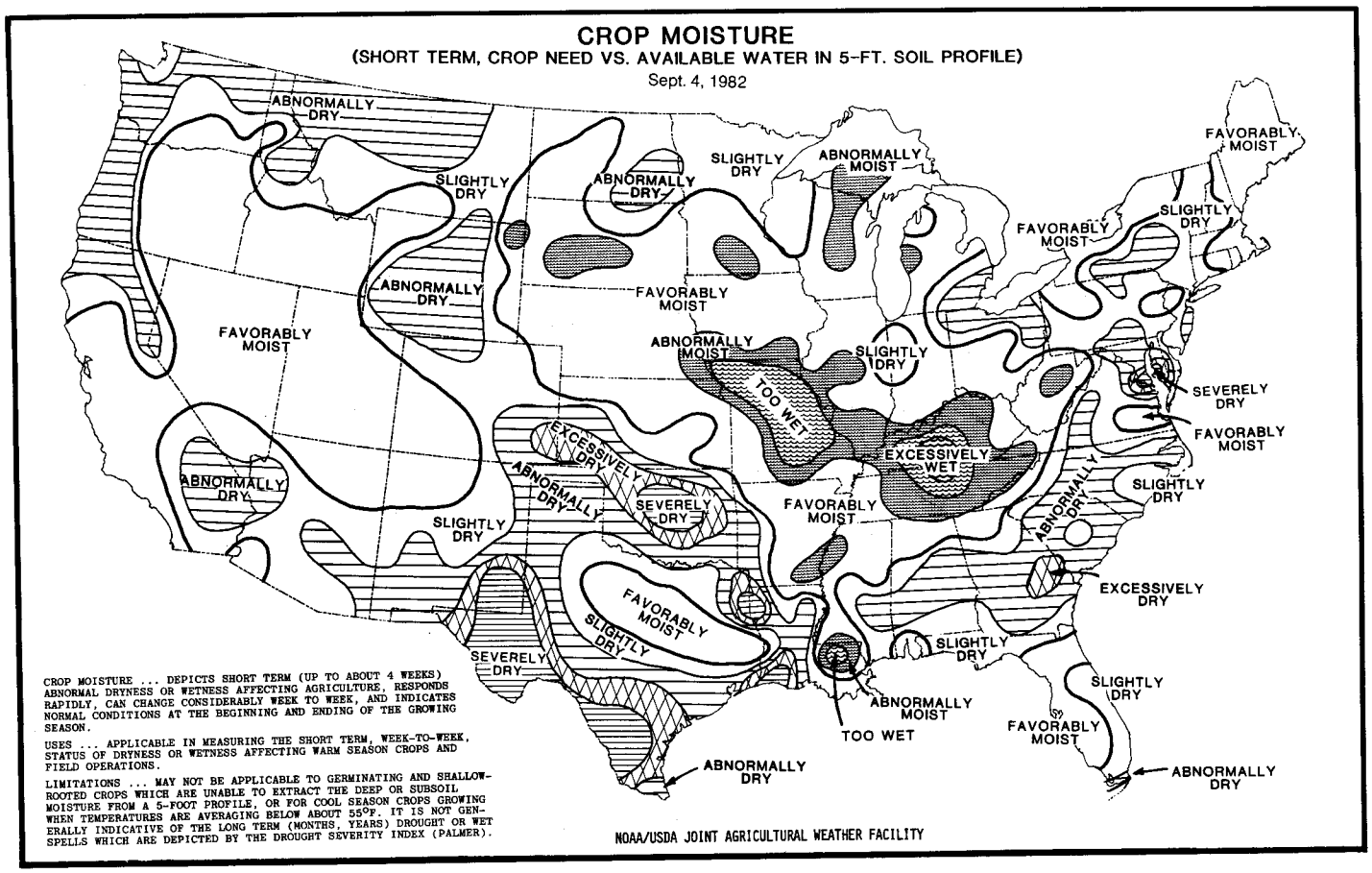
SATURDAY . . .Showers continued in the Pacific Northwest and spread to the central Rockies and to the northern Plains. A few showers lingered in the Northeast, the southeast coast,and over southeastern Texas. Morning temperatures were still cool along the northern border, and the cool weather covered the eastern states to Georgia where Atlanta tied its record low of 57°.

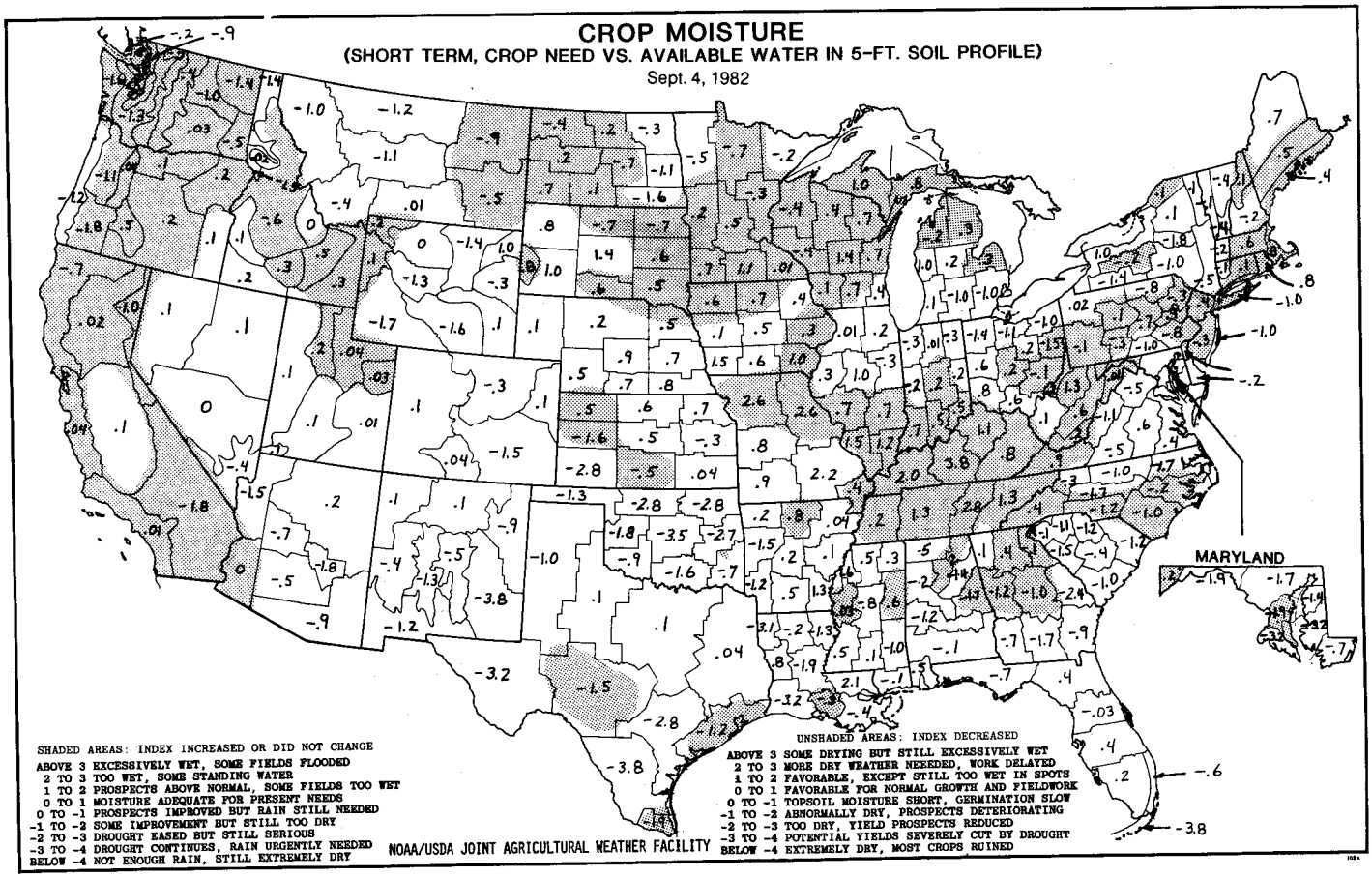
Contents

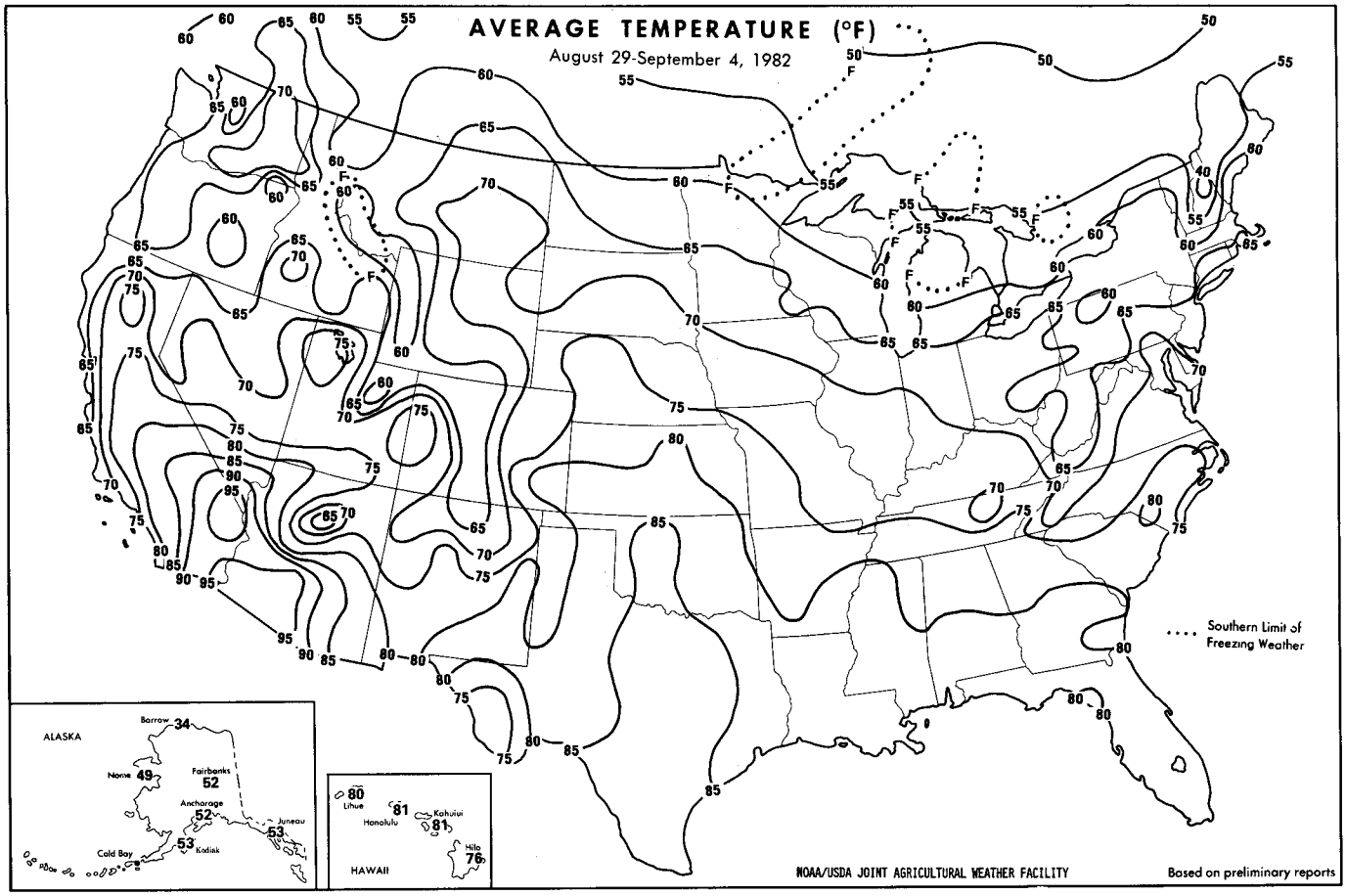
	Page
National Weather Summary	1
Precipitation & Pan Evaporation	2
Crop Moisture & Crop Moisture Index	3
Average Temperature & Departure	4
Growing Degree Days & Cooling Degree Days	5
Weather Data for Selected Cities	6
August Weather & Crop Summary	9
August Temperature & Precipitation	10
August Precipitation & Percent of Normal	11
August Temperature & Departure	12
National Agricultural Summary	13
Crop Progress Tables & State Summaries of Weather & Agriculture	14
International Weather & Crop Summary	21
Subscription and mailing permit information	24

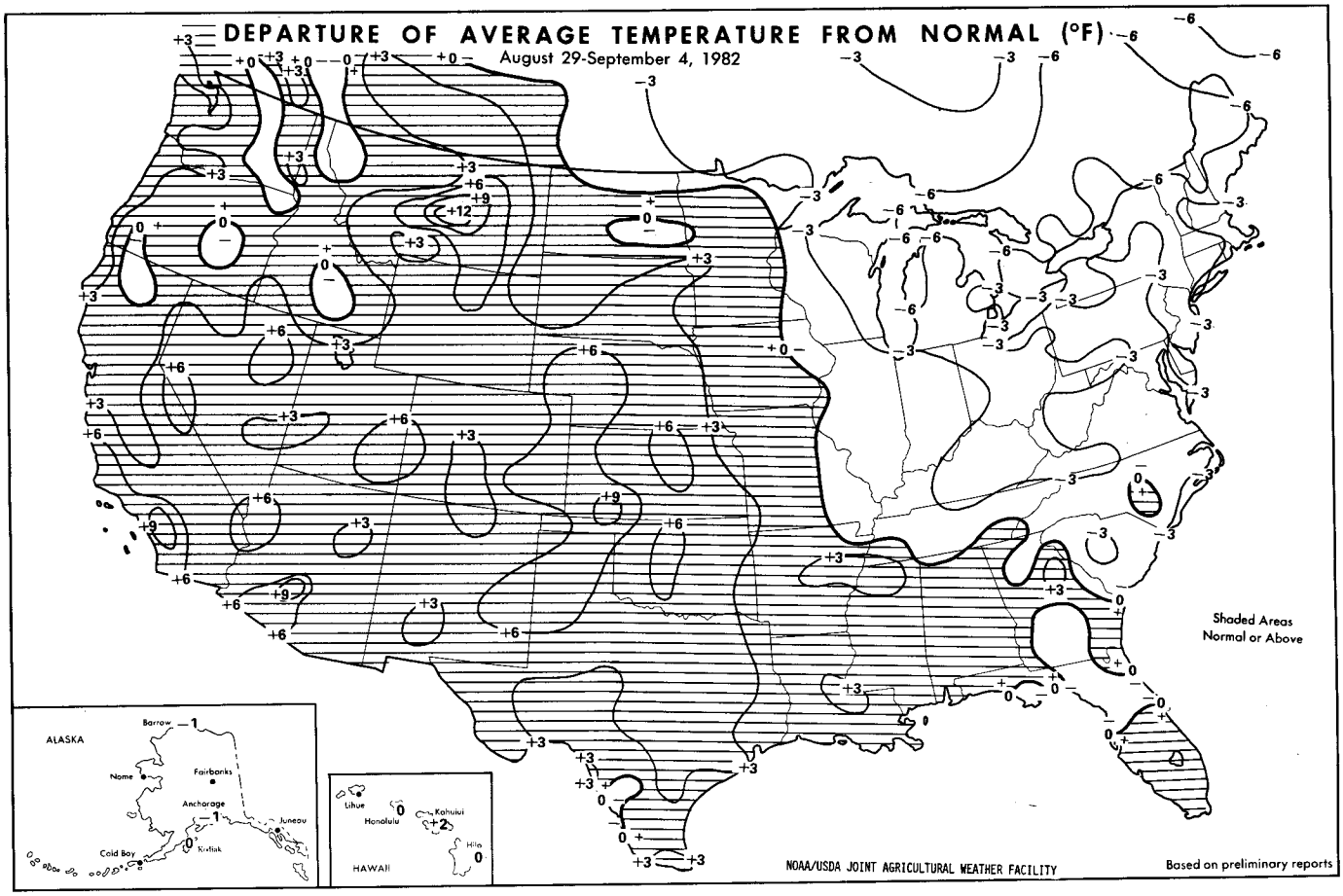

TOTAL PRECIPITATION, INCHES
August 29-September 4, 1982
No Measurable Precipitation
0.01 to 0.3 inch
0.3 to 0.8 inch
0.8 to 2 inches
Over 2 inches
ALASKA
Barrow 0.2
Nome 0.6
Fairbanks 0.8
Anchorage 1.4
Juneau 1.3
Cold Bay 0.5
Kodiak
HAWAII
Lihue 0.3
Honolulu 0.5
Kahului 0.2
Hilo 6.6
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

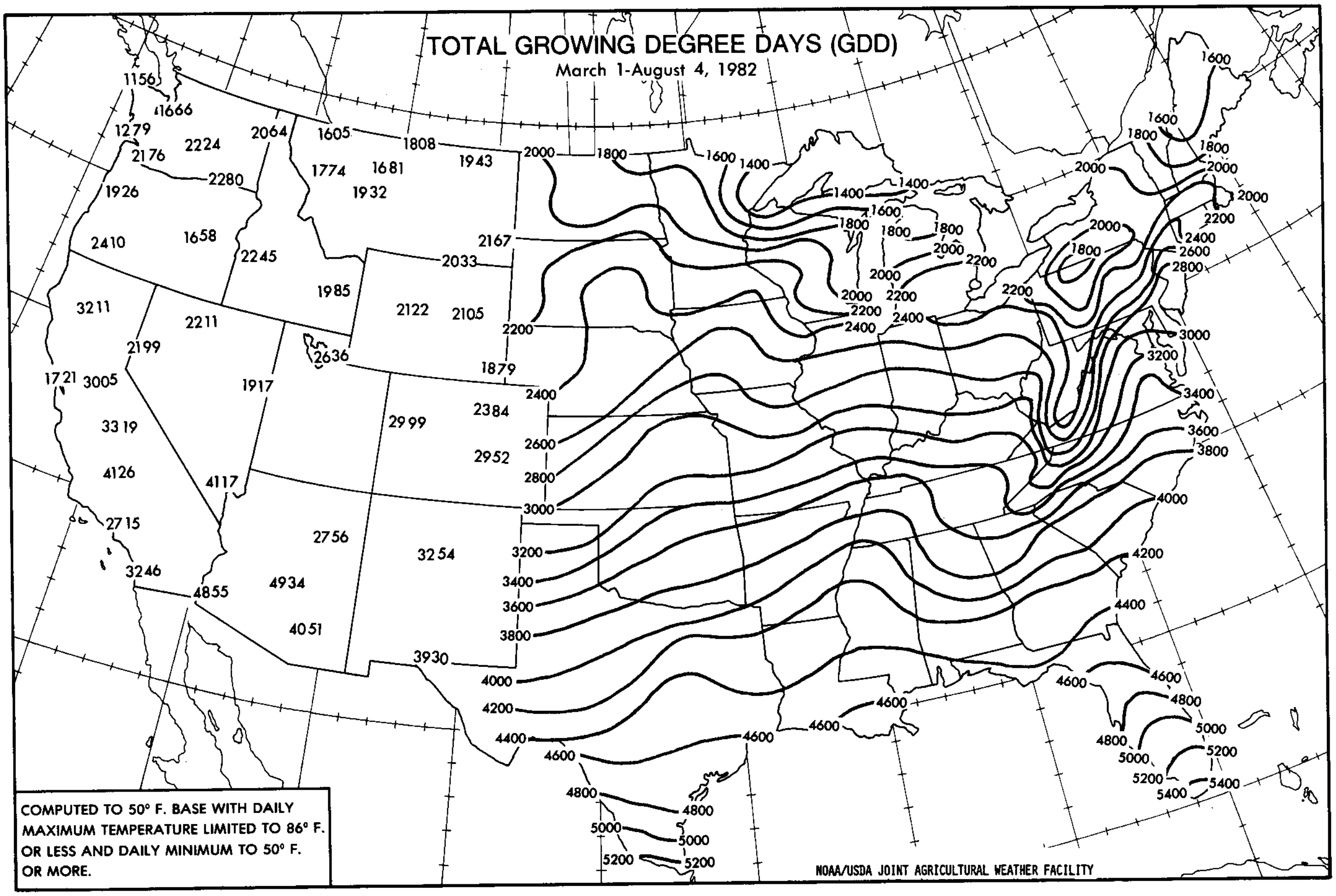

AVERAGE PAN EVAPORATION (INCHES/DAY)
(NWS STANDARD, 4-FOOT CLASS A)
August 29-September 4, 1982
CROP-PAN EVAP. COEFFICIENTS
REFERENCE DATA IN PREVIOUS ISSUES
VEGETABLES JUNE 23, 1981
COTTON JULY 21, 1981
SOYBEANS JULY 28, 1981
PEANUTS JULY 28, 1981
CORN AUGUST 4, 1981
SUGARCANE JUNE 9, 1981
MEADOW JUNE 9, 1981
CONVERSION SCALE
INCHES/WEEK
INCHES/DAY
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


CROP MOISTURE
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
Sept. 4, 1982
ABNORMALLY DRY
SLIGHTLY DRY
ABNORMALLY DRY
SLIGHTLY DRY
ABNORMALLY MOIST
FAVORABLY MOIST
FAVORABLY MOIST
SLIGHTLY DRY
ABNORMALLY DRY
FAVORABLY MOIST
FAVORABLY MOIST
ABNORMALLY MOIST
SLIGHTLY DRY
TOO WET
SEVERELY DRY
FAVORABLY MOIST
EXCESSIVELY DRY
ABNORMALLY DRY
EXCESSIVELY DRY
ABNORMALLY DRY
SEVERELY DRY
EXCESSIVELY WET
FAVORABLY MOIST
SLIGHTLY DRY
ABNORMALLY DRY
SLIGHTLY DRY
EXCESSIVELY DRY
FAVORABLY MOIST
SLIGHTLY DRY
SEVERELY DRY
SLIGHTLY DRY
ABNORMALLY MOIST
TOO WET
SLIGHTLY DRY
FAVORABLY MOIST
ABNORMALLY DRY
ABNORMALLY DRY
CROP MOISTURE ... DEPICTS SHORT TERM (UP TO ABOUT 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND ENDING OF THE GROWING SEASON.
USES ... APPLICABLE IN MEASURING THE SHORT TERM, WEEK-TO-WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS.
LIMITATIONS ... MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW-ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55°F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX (PALMER).
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY


CROP MOISTURE
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
Sept. 4, 1982
MARYLAND
SHADED AREAS: INDEX INCREASED OR DID NOT CHANGE
ABOVE 3 EXCESSIVELY WET, SOME FIELDS FLOODED
2 TO 3 TOO WET, SOME STANDING WATER
1 TO 2 PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0 TO 1 MOISTURE ADEQUATE FOR PRESENT NEEDS
0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1 TO -2 SOME IMPROVEMENT BUT STILL TOO DRY
-2 TO -3 DROUGHT EASED BUT STILL SERIOUS
-3 TO -4 DROUGHT CONTINUES, RAIN URGENTLY NEEDED
BELOW -4 NOT ENOUGH RAIN, STILL EXTREMELY DRY
UNSHADED AREAS: INDEX DECREASED
ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
2 TO 3 MORE DRY WEATHER NEEEDED, WORK DELAYED
1 TO 2 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 TO -1 TOPSOIL MOISTURE SHORT, GERMINATION SLOW
-1 TO -2 ABNORMALLY DRY, PROSPECTS DETERIORATING
-2 TO -3 TOO DRY, YIELD PROSPECTS REDUCED
-3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DROUGHT
BELOW -4 EXTREMELY DRY, MOST CROPS RUINED
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY


AVERAGE TEMPERATURE (°F)
August 29-September 4, 1982
Southern Limit of Freezing Weather
ALASKA
Barrow 34
Nome 49
Fairbanks 52
Anchorage 52
Juneau 53
Cold Bay 53
Kodiak
HAWAII
Lihue 80
Honolulu 81
Kahului 81
Hilo 76
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)
August 29-September 4, 1982
Shaded Areas Normal or Above
ALASKA
Barrow −1
Nome
Fairbanks
Anchorage −1
Juneau
Cold Bay 0
Kodiak
HAWAII
Lihue
Honolulu 0
Kahului +2
Hilo 0
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

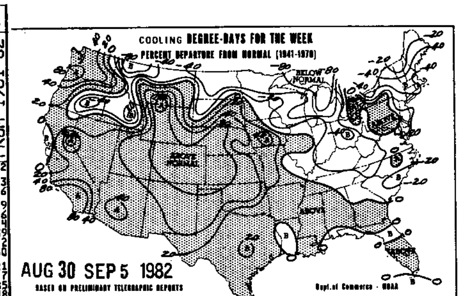


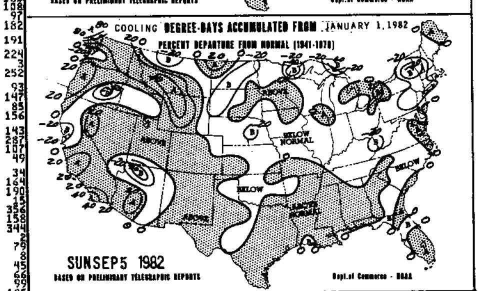
COOLING DEGREE DAYS (BASE 65°) FOR WEEK ENDING SEP. 5, 1982.

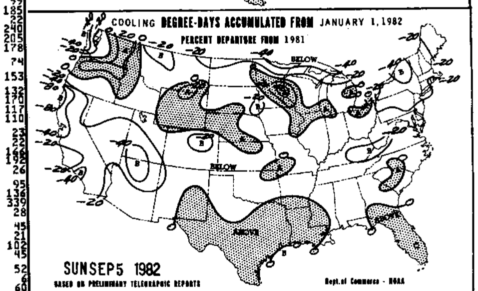
BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JAN. 1, 1982

STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE*	SEASONAL ACCUMULATION + TOTAL	SEASONAL ACCUMULATION + DEPARTURE*	DEPARTURE FROM 1981-82
ALA. BIRMINGHAM	90	5	1640	8	-155
MOBILE	104	-1	2106	11	-105
MONTGOMERY	111	11	2025	171	-27
ARIZ. FLAGSTAFF	1	-6	80	-59	-177
PHOENIX	227	73	3418	[illegible]	-396
TUCSON	157	35	2141	[illegible]	-331
WINSLOW	70	14	949	-125	-251
YUMA	222	44	3329	[illegible]	-447
ARK. FORT SMITH	89	-1	1558	[illegible]	-81
LITTLE ROCK	98	13	1752	85	-77
CALIF. BAKERSFIELD	126	26	2290	[illegible]	-48
EUREKA	0	0	0	[illegible]	-4
FRESNO	89	11	1472	79	-604
LOS ANGELES	80	45	442	[illegible]	-292
RED BLUFF	97	7	1380	[illegible]	-549
SAN DIEGO	88	46	724	[illegible]	-383
SAN FRANCISCO	6	-1	45	-28	-60
STOCKTON	80	17	998	-47	-525
COLO. DENVER	48	22	587	[illegible]	-233
GRAND JUNCTION	86	39	1183	147	-96
PUEBLO	88	47	960	[illegible]	-193
CONN. BRIDGEPORT	28	-9	510	-157	-133
HARTFORD	13	-9	579	20	-136
DEL. WILMINGTON	45	0	937	45	-52
D.C. WASHINGTON	65	-1	1264	14	-240
FLA. APALACHICOLA	104	-6	2013	-63	7
DAYTONA BEACH	107	-5	2124	-33	51
FORT MYERS	124	5	3175	512	187
JACKSONVILLE	110	3	2233	211	49
KEY WEST	128	-5	3725	264	494
LAKELAND	118	6	2471	26	211
MIAMI	132	13	3323	486	279
ORLANDO	121	9	2653	273	139
TALLAHASSEE	110	5	2062	8	105
TAMPA	125	6	2493	6	194
WEST PALM BEACH	130	11	3067	405	270
GA. ATLANTA	66	-8	1489	130	-270
AUGUSTA	83	-4	1705	7	-37
MACON	104	8	1910	-18	-24
SAVANNAH	97	0	1997	88	-96
IDAHO. BOISE	23	-8	584	-75	19
LEWISTON	39	8	788	183	122
POCATELLO	10	-7	388	-45	-54
ILL. CAIRO	72	-3	1526	-56	-96
CHICAGO	24	-1	641	-23	-4
MOLINE	32	-1	751	-81	-36
PEORIA	44	6	830	-62	-64
ROCKFORD	23	-4	697	-24	-60
SPRINGFIELD	47	2	967	-45	-121
IND. EVANSVILLE	43	-14	1163	-66	-127
FORT WAYNE	22	-9	619	-66	-56
INDIANAPOLIS	31	-8	841	-45	-83
SOUTH BEND	27	-2	608	-36	-26
IOWA. BURLINGTON	39	1	833	-85	32
DES MOINES	51	16	857	-3	67
DUBUQUE	15	-7	544	34	31
SIOUX CITY	48	14	766	-115	-23
KANS. CONCORDIA	95	37	1223	51	124
DODGE CITY	129	67	1329	60	-204
GOODLAND	72	33	765	-91	-16
TOPEKA	70	12	1034	-196	-138
WICHITA	110	37	1397	-85	-166
KY. LEXINGTON	38	-14	950	-122	-45
LOUISVILLE	34	-22	1019	-113	-296
LA. BATON ROUGE	123	17	2456	355	253
LAKE CHARLES	109	-2	2183	-7	29
NEW ORLEANS	119	5	2399	241	-20
SHREVEPORT	110	0	2123	41	193
MAINE. CARIBOU	0	0	152	24	-23
PORTLAND	5	-5	237	-10	-35
MD. BALTIMORE	50	0	953	-43	-151
MASS. BOSTON	17	-9	598	-20	-198
MICH. ALPENA	0	-2	185	-26	-54
DETROIT	22	-2	487	-122	-74
FLINT	11	-6	448	32	3
GRAND RAPIDS	12	-11	546	-2	-38
HOUGHTON LAKE	0	-9	220	-27	-17
LANSING	11	-9	484	-25	-26
MARQUETTE	0	-2	113	-16	-54
MUSKEGON	2	-17	412	-32	-4
S. STE. MARIE	0	-2	42	-97	-32
MINN. DULUTH	1	-1	96	-80	-53
INTERNATL FALLS	1	-1	159	-17	118
MINNEAPOLIS	15	-3	668	101	211
ROCHESTER	10	-5	505	43	134
ST. CLOUD	8	-5	440	18	75
MISS. JACKSON	105	6	2118	181	3
MERIDIAN	103	8	2030	153	-114
MO. COLUMBIA	53	0	951	-195	-153
KANSAS CITY	74	18	1366	-87	-10
ST. LOUIS	57	-4	1198	-116	-70
SPRINGFIELD	74	13	1301	80	25
MONT. BILLINGS	55	35	634	160	-17
GLASGOW	12	-6	419	-2	-108
GREAT FALLS	6	-8	210	-103	-67
HAVRE	10	-5	283	-95	-44
HELENA	16	5	345	101	55
KALISPELL	0	-7	105	-8	-62
MILES CITY	37	6	699	-4	-33
MISSOULA	3	-4	191	8	-25
NEBR. GRAND ISLAND	57	15	767	-197	-120
LINCOLN	67	20	990	-74	-70
NORFOLK	56	21	733	-136	-115
NORTH PLATTE	62	30	689	-79	-62
OMAHA	58	11	879	-197	-12
VALENTINE	53	24	745	41	44
NEV. ELY	10	2	204	8	-120
LAS VEGAS	167	33	2402	-56	-583
RENO	27	13	400	83	-31
WINNEMUCCA	16	2	463	72	-93
N.H. CONCORD	7	-5	288	-52	-106
N.J. ATLANTIC CITY	28	-11	851	58	-37
TRENTON	37	-4	814	-67	-111
N.MEX. ALBUQUERQUE	89	28	1252	60	-68
ROSWELL	114	45	1603	203	138
N.Y. ALBANY	10	-10	326	-220	-111
BINGHAMTON	14	0	283	-68	-98
BUFFALO	9	-9	346	-67	-180
NEW YORK	32	-14	765	-182	-322
ROCHESTER	15	-6	406	-95	-138
SYRACUSE	5	-17	299	-213	-340
N.C. ASHEVILLE	31	-8	852	69	-43
CHARLOTTE	64	-9	1386	4	12
GREENSBORO	50	-8	1136	-62	-128
HATTERAS	70	-7	1325	-70	-83
RALEIGH	65	1	1392	162	-13
WILMINGTON	67	-21	1498	-142	-78
N.DAK. BISMARCK	7	-11	355	-117	-70
FARGO	10	-7	410	-53	3
WILLISTON	6	-11	509	101	-168
OHIO. AKRON-CANTON	22	-4	565	-19	-76
CINCINNATI	31	-16	844	-124	-117
CLEVELAND	33	8	577	-16	1
COLUMBUS	14	-19	641	-101	-48
DAYTON	31	-8	722	-126	-131
TOLEDO	26	-2	569	-65	6
YOUNGSTOWN	16	-5	399	-85	-182
OKLA. OKLAHOMA CITY	124	38	1587	-29	-113
TULSA	123	36	1961	288	86
OREG. ASTORIA	0	0	11	-3	-29
BURNS	5	-8	158	-124	-16
MEDFORD	38	10	625	114	-14
PENDLETON	30	1	626	17	139
PORTLAND	31	17	376	101	2
SALEM	23	9	278	52	50
PA. ALLENTOWN	21	-10	544	-167	-221
ERIE	35	20	430	80	-117
HARRISBURG	44	2	686	-249	-185
PHILADELPHIA	44	-3	913	-80	-108
PITTSBURGH	27	2	497	-98	-97
SCRANTON	17	-6	411	-152	-182
R.I. PROVIDENCE	18	-5	523	21	-191
S.C. CHARLESTON	86	-4	1791	67	-224
COLUMBIA	73	-18	1669	-103	-3
GREENVILLE	60	-10	1247	-126	-252
S.DAK. ABERDEEN	30	8	631	79	-93
HURON	34	8	688	-1	-147
RAPID CITY	30	-8	419	-196	-85
SIOUX FALLS	32	5	612	-77	-156
TENN. CHATTANOOGA	72	-2	1368	-58	-143
KNOXVILLE	66	-3	1219	-141	-287
MEMPHIS	114	28	2023	279	-107
NASHVILLE	64	-11	1364	113	-49
TEXAS. ABILENE	119	13	2134	59	-34
AMARILLO	104	41	1232	-44	-164
AUSTIN	146	26	2642	283	190
BEAUMONT	135	19	2301	79	15
BROWNSVILLE	144	17	3395	471	356
CORPUS CHRISTI	141	12	2728	41	158
DEL RIO	139	10	2741	-10	344
EL PASO	122	34	2009	186	2
FORT WORTH	136	19	2216	80	79
GALVESTON	138	19	2386	91	-8
HOUSTON	126	8	2566	272	45
LUBBOCK	112	43	1521	52	-66
MIDLAND	119	22	1919	23	99
SAN ANGELO	122	11	1966	-305	185
SAN ANTONIO	135	13	2471	35	22
VICTORIA	141	17	2694	224	240
WACO	141	18	2487	148	205
WICHITA FALLS	135	18	1971	-233	-178
UTAH SALT LAKE CITY	66	26	985	140	-74
VT. BURLINGTON	12	-2	313	-73	-153
VA. LYNCHBURG	53	7	957	-32	-132
NORFOLK	68	-1	1227	-25	-170
RICHMOND	57	-3	1241	31	-117
ROANOKE	32	-13	892	-35	-110
WASH. QUILLAYUTE	2	2	16	8	-23
SEATTLE-TACOMA	11	4	148	22	-22
SPOKANE	18	0	470	100	166
WALLA WALLA	54	16	953	160	192
YAKIMA	15	-3	455	0	-26
W.VA. BECKLEY	15	-6	368	-80	-95
CHARLESTON	34	-10	853	-103	-136
HUNTINGTON	28	-18	705	-289	-339
PARKERSBURG	36	-8	943	6	28
WIS. GREEN BAY	7	-4	326	-58	-45
LACROSSE	17	-7	671	6	21
MADISON	6	-9	364	-85	-102
MILWAUKEE	9	-10	368	-65	45
WYO. CASPER	30	10	528	96	52
CHEYENNE	23	10	289	-26	6
LANDER	31	17	535	169	60
SHERIDAN	26	7	509	82	88

* BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1982.







Weather Data for the Week Ending Sept. 4, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	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 May 30	PCT. NORMAL SINCE May 30	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
AL BIRMINGHAM	89	68	92	57	79	1	.5	- .4	.5	.5	56	50.6	136	92	49	4	0	2	0
MOBILE	90	72	95	68	81	1	.2	- 1.5	.1	.2	12	56.2	118	94	53	5	0	2	0
MONTGOMERY	92	71	96	65	81	2	0	- .9	0	0	0	45.6	134	86	46	6	0	0	0
AK ANCHORAGE	58	46	62	42	52	-1	1.4	.8	.6	1.4	233	8.3	91	94	57	0	0	5	1
BARROW	37	31	46	29	34	-1	.2	0	.1	.2	100	3.5	103	100	89	0	5	5	0
FAIRBANKS	60	43	63	40	52	1	.8	.4	.5	.8	200	9.1	107	87	55	0	0	2	1
JUNEAU	59	48	65	43	53	1	1.3	- .1	.4	1.3	93	27.9	94	99	80	0	0	5	0
KODIAK	59	46	66	41	53	0	.5	- .7	.3	.5	42	36.3	108	93	68	0	0	3	0
NOME	56	42	60	36	49	2	.6	- .1	.4	.6	86	11.3	100	80	51	0	0	3	0
AZ PHOENIX	108	86	112	84	97	10	0	- .2	0	0	0	5.7	124	44	18	7	0	0	0
PRESCOTT	88	62	92	59	75	4	0	- .5	0	0	0	10.1	77	63	25	3	0	0	0
TUCSON	100	74	104	71	87	5	T	- .4	T	0	0	8.3	108	56	22	7	0	0	0
YUMA	109	83	115	80	96	6	T	- .1	T	0	0	2.5	156	48	17	7	0	0	0
AR FORT SMITH	90	68	95	58	79	1	.3	- .4	.3	.3	43	32.4	111	92	50	3	0	1	0
LITTLE ROCK	89	70	95	61	80	2	.5	- .3	.4	.5	63	41.1	128	88	56	4	0	2	0
CA BAKERSFIELD	95	70	98	66	82	3	0	0	0	0	+100	4.8	130	67	27	7	0	0	0
EUREKA	69	54	72	52	61	4	0	- .1	0	0	0	24.4	108	93	67	0	0	0	0
FRESNO	93	62	95	59	78	1	0	0	0	0	+100	8.6	137	73	24	6	0	0	0
LOS ANGELES	84	67	92	65	75	6	0	- .1	0	0	0	8.6	113	81	48	2	0	0	0
RED BLUFF	94	61	102	57	78	0	T	- .1	T	0	0	12.8	97	62	19	5	0	0	0
SACRAMENTO	89	56	93	52	73	0	0	0	0	0	+100	18.1	156	73	24	3	0	0	0
SAN DIEGO	84	70	91	67	77	6	0	0	0	0	+100	9.0	161	89	54	1	0	0	0
SAN FRANCISCO	76	54	81	51	65	1	0	0	0	0	+100	22.6	200	82	44	0	0	0	0
CO DENVER	89	56	94	51	73	5	T	- .2	T	0	0	8.7	78	69	19	2	0	1	0
GRAND JUNCTION	92	63	94	59	78	6	T	- .2	T	0	0	3.8	70	55	19	6	0	1	0
PUEBLO	94	60	98	56	77	6	T	- .3	T	0	0	13.3	139	80	23	6	0	1	0
CT BRIDGEPORT	75	59	79	44	67	-3	.5	- .2	.5	.5	71	36.5	143	88	57	0	0	2	0
HARTFORD	76	52	83	39	64	-3	.8	- .1	.6	.8	89	39.0	141	89	53	0	0	3	1
DC WASHINGTON	82	64	91	53	73	-2	.1	- .8	.1	.1	11	27.7	101	77	42	1	0	1	0
FL APALACHICOLA	88	73	90	71	80	0	2.5	.3	1.9	2.5	114	44.6	112	92	66	1	0	2	2
DAYTONA BEACH	88	73	91	70	80	-1	T	- 1.6	T	0	0	37.8	113	91	61	2	0	0	0
JACKSONVILLE	91	71	96	67	81	0	1.7	- .2	1.6	1.7	89	36.7	96	96	56	5	0	2	1
KEY WEST	88	77	90	74	83	-1	2.0	.6	1.8	2.0	143	28.4	122	90	67	2	0	4	1
MIAMI	90	77	91	75	84	1	2.4	.6	1.0	2.4	133	45.7	118	89	57	6	0	5	2
ORLANDO	91	72	95	70	82	1	.1	- 1.5	.1	.1	6	42.3	114	94	51	5	0	2	0
TALLAHASSEE	92	71	93	67	81	1	.2	- 1.4	.2	.2	13	44.4	99	94	47	6	0	2	0
TAMPA	90	75	92	72	83	1	T	- 1.7	T	0	0	40.6	110	91	54	4	0	0	0
WEST PALM BEACH	91	76	92	73	84	1	1.0	- 1.0	.6	1.0	50	54.5	139	86	58	7	0	4	1
GA ATLANTA	84	66	86	57	75	-1	2.2	1.4	1.1	2.2	275	40.3	116	92	56	0	0	3	2
AUGUSTA	88	66	93	61	77	-1	T	- .8	T	0	0	28.3	90	92	47	2	0	0	0
MACON	91	70	92	67	80	1	1.4	.6	1.4	1.4	175	35.6	112	93	52	6	0	2	1
SAVANNAH	87	71	90	67	79	0	T	- 1.4	T	0	0	43.5	114	88	54	1	0	1	0
HI HILO	81	71	83	70	76	0	6.6	4.6	3.0	6.6	330	143.5	172	96	73	0	0	7	4
HONOLULU	86	75	88	74	81	0	.5	.3	.4	.5	250	23.2	171	80	57	0	0	3	0
KAHULUI	88	75	90	74	81	2	.2	.2	.1	.2	+100	23.0	205	76	50	1	0	2	0
LIHUE	84	76	85	75	80	1	.3	- .1	.2	.3	75	46.4	183	85	68	0	0	2	0
ID BOISE	83	55	90	46	69	1	.1	0	.1	.1	100	7.6	97	72	23	1	0	1	0
LEWISTON	85	57	98	51	71	3	T	- .2	T	0	0	7.9	94	72	25	2	0	1	0
POCATELLO	82	51	90	44	66	2	.4	.2	.3	.4	200	10.2	134	84	28	1	0	3	0
IL CHICAGO	77	54	85	43	66	-2	.4	- .3	.3	.4	57	27.1	120	94	50	0	0	2	0
MOLINE	79	58	86	48	68	-1	.9	.1	.9	.9	113	29.7	120	96	57	0	0	5	1
PEORIA	80	59	87	51	69	-1	.4	- .4	.2	.4	50	32.2	130	97	60	0	0	4	0
QUINCY	80	61	86	52	71	-1	2.3	1.3	.7	2.3	230	32.5	--	93	59	0	0	5	3
ROCKFORD	75	54	81	44	65	-3	.2	- .7	.1	.2	22	29.3	115	98	57	0	0	2	0
SPRINGFIELD	82	59	88	49	71	-1	2.0	1.4	1.3	2.0	333	26.1	110	97	59	0	0	4	2
IN EVANSVILLE	81	62	85	52	71	-2	3.7	3.1	1.9	3.7	617	35.2	119	92	59	0	0	3	3
FORT WAYNE	77	55	84	44	66	-3	T	- .5	T	0	0	30.1	120	88	50	0	0	1	0
INDIANAPOLIS	80	58	86	47	69	-2	.9	.3	.6	.9	150	30.6	115	90	51	0	0	3	1
SOUTH BEND	76	56	81	46	66	-2	T	- .7	T	0	0	29.0	120	94	58	0	0	1	0
IA DES MOINES	81	62	84	54	72	2	2.0	1.2	1.3	2.0	250	32.4	143	92	58	0	0	3	2
SIOUX CITY	82	62	88	52	72	3	.3	- .4	.2	.3	43	18.4	92	93	54	0	0	3	0
WATERLOO	76	56	82	48	66	0	2.5	1.6	1.4	2.5	278	24.2	100	93	54	0	0	3	2
KS CONCORDIA	90	69	93	63	79	7	.6	- .2	.5	.6	75	32.3	155	80	43	4	0	2	0
DODGE CITY	97	70	104	63	83	9	.1	- .4	.1	.1	20	15.3	98	72	28	6	0	1	0
GOODLAND	90	61	94	53	76	6	.4	0	.4	.4	100	20.8	159	81	26	4	0	1	0
TOPEKA	85	65	88	55	75	2	.1	- .8	.1	.1	11	30.1	116	91	58	0	0	2	0
WICHITA	94	68	100	58	81	5	.9	.1	.9	.9	113	23.3	108	82	32	5	0	3	1
KY BOWLING GREEN	80	63	84	51	71	-4	4.4	3.7	3.5	4.4	629	35.6	106	100	64	0	0	4	2
LEXINGTON	78	63	85	53	70	-2	3.0	2.3	2.8	3.0	429	28.2	89	87	56	0	0	4	1
LOUISVILLE	78	61	84	51	70	-4	2.6	1.9	2.0	2.6	371	32.2	105	91	59	0	0	4	1
LA ALEXANDRIA	93	71	94	63	82	1	.3	- .3	.3	.3	50	32.6	--	84	46	6	0	1	0
BATON ROUGE	93	74	95	69	83	3	.3	- .7	.2	.3	30	33.5	87	88	49	6	0	2	0
LAKE CHARLES	91	72	93	66	82	1	3.1	2.2	2.5	3.1	344	32.1	85	92	56	6	0	2	2
NEW ORLEANS	91	74	93	71	83	2	.2	- 1.2	.2	.2	14	40.7	102	97	50	6	0	2	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Sept. 4, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	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 May 30	PCT. NORMAL SINCE May 30	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	93	71	96	60	82	1	.4	- .3	.2	.4	57	22.7	75	94	48	5	0	2	0
ME CARIBOU	64	45	72	34	55	-4	1.3	.4	1.0	1.3	144	25.4	110	93	54	0	0	5	1
PORTLAND	71	49	79	39	60	-3	.7	0	.4	.7	100	31.4	126	92	49	0	0	4	0
MD BALTIMORE	82	60	91	49	71	-1	.9	0	.8	.9	100	24.7	89	78	39	1	0	2	1
SALISBURY	81	60	86	49	70	-3	0	- 1.2	0	0	0	28.2	92	98	50	0	0	0	0
MA BOSTON	76	56	83	48	66	-3	.4	- .5	.3	.4	44	35.5	129	80	48	0	0	3	0
CHATHAM	70	58	73	49	64	--	5.0	--	4.4	5.0	--	33.4	--	91	71	0	0	4	2
MI ALPENA	64	47	70	30	56	-5	.9	.1	.5	.9	113	15.5	88	98	64	0	1	3	0
DETROIT	77	53	84	38	65	-3	T	- .6	T	0	0	21.6	97	91	46	0	0	1	0
FLINT	73	52	80	37	63	-2	.3	- .4	.3	.3	43	17.7	86	93	57	0	0	2	0
GRAND RAPIDS	74	52	80	41	63	-4	.6	- .1	.4	.6	86	22.0	106	90	54	0	0	3	0
HOUGHTON LAKE	66	47	71	29	57	-5	2.0	1.4	1.4	2.0	333	21.8	121	94	61	0	1	4	1
LANSING	74	50	80	36	62	-4	.4	- .3	.4	.4	57	16.3	78	95	58	0	0	1	0
MARQUETTE	64	44	74	32	54	-4	.7	- .2	.4	.7	78	23.3	101	97	64	0	1	4	0
MUSKEGON	70	51	76	38	61	-5	1.7	1.0	1.2	1.7	243	23.5	119	99	64	0	0	3	1
SAULT STE. MARIE	61	45	69	29	53	-7	3.1	2.2	1.7	3.1	344	23.1	120	96	62	0	1	6	2
MN ALEXANDRIA	77	54	83	50	66	2	.7	- .1	.4	.7	88	19.8	104	93	49	0	0	4	0
DULUTH	68	49	78	42	58	-1	.4	- .4	.3	.4	50	20.7	97	91	53	0	0	5	0
INT'L FALLS	69	47	83	40	58	0	.8	0	.5	.8	100	16.2	87	98	64	0	0	4	0
MINNEAPOLIS	75	58	82	50	67	1	1.8	1.1	.9	1.8	257	17.9	94	85	46	0	0	4	2
ROCHESTER	73	56	77	49	64	0	3.0	2.2	1.6	3.0	375	25.7	123	88	56	0	0	3	2
MS GREENWOOD	91	71	93	59	81	2	.9	.2	.9	.9	129	36.1	--	91	48	5	0	1	1
JACKSON	92	70	95	59	81	2	.1	- .7	.1	.1	13	42.9	127	97	49	5	0	1	0
MERIDIAN	91	70	94	60	81	2	.7	- .1	.7	.7	88	42.2	117	90	50	5	0	1	1
MO CAPE GIRARDEAU	86	63	92	51	74	-1	.6	- .3	.4	.6	67	37.0	125	97	58	2	0	3	0
COLUMBIA	82	63	87	56	73	0	3.7	2.8	2.0	3.7	411	34.7	137	96	60	0	0	5	3
KANSAS CITY	83	66	86	58	75	2	.4	- .5	.3	.4	44	36.7	141	94	60	0	0	2	0
SAINT LOUIS	83	64	88	55	73	-1	2.1	1.5	1.4	2.1	350	37.4	149	99	56	0	0	4	1
SPRINGFIELD	88	64	93	55	76	2	.7	- .1	.6	.7	88	31.0	116	86	53	3	0	2	1
MT BILLINGS	87	58	96	53	72	8	.3	0	.3	.3	100	14.4	138	62	22	2	0	2	0
GLASGOW	79	53	89	49	66	3	.2	- .1	.1	.2	67	9.1	108	74	31	0	0	2	0
GREAT FALLS	78	46	88	38	62	0	.1	- .2	T	.1	33	13.0	112	78	24	0	0	3	0
HAVRE	80	50	90	46	65	2	T	- .3	T	0	0	12.3	138	71	22	1	0	0	0
HELENA	83	51	90	45	67	6	.1	- .2	.1	.1	33	9.4	112	69	22	1	0	2	0
KALISPELL	75	42	85	35	59	0	.2	- .1	.2	.2	67	13.9	131	97	37	0	0	2	0
MILES CITY	84	56	91	49	70	4	.3	0	.3	.3	100	10.9	103	74	25	2	0	1	0
MISSOULA	78	45	90	39	61	1	.1	- .2	.1	.1	33	11.5	132	90	30	1	0	3	0
NE GRAND ISLAND	84	62	88	55	73	3	.2	- .4	.2	.2	33	28.5	156	90	50	0	0	1	0
LINCOLN	83	66	87	59	74	3	.7	- .1	.7	.7	88	29.2	138	94	61	0	0	2	1
NORFOLK	83	63	85	55	73	4	.6	- .1	.3	.6	86	20.6	108	90	52	0	0	2	0
NORTH PLATTE	91	59	94	49	75	7	0	- .5	0	0	0	14.3	92	88	32	4	0	0	0
OMAHA	80	64	87	58	72	3	.2	- .7	.2	.2	22	24.7	109	93	66	0	0	1	0
SCOTTSBLUFF	90	56	96	49	73	6	T	- .2	T	0	0	17.5	152	81	22	4	0	0	0
VALENTINE	88	57	92	45	73	5	T	- .4	T	0	0	18.1	127	72	32	2	0	1	0
NV ELY	85	46	90	42	66	5	T	- .1	T	0	0	8.0	131	69	19	1	0	0	0
LAS VEGAS	102	74	108	70	88	4	0	- .1	0	0	0	2.6	90	36	11	7	0	0	0
RENO	89	48	97	43	69	5	0	0	0	0	+100	4.3	91	71	16	2	0	0	0
WINNEMUCCA	88	43	94	35	65	2	T	- .1	T	0	0	4.7	82	45	12	2	0	1	0
NH CONCORD	73	48	83	35	61	-3	.6	- .1	.6	.6	86	28.2	123	89	47	0	0	3	1
NJ ATLANTIC CITY	77	57	84	41	67	-4	.6	- .3	.4	.6	67	24.1	79	97	54	0	0	2	0
NM ALBUQUERQUE	92	63	97	61	77	3	T	- .2	T	0	0	4.4	77	74	24	5	0	1	0
CLOVIS	93	67	95	64	80	7	T	- .5	T	0	0	12.2	--	71	25	7	0	1	0
ROSWELL	95	67	98	64	81	6	T	- .3	T	0	0	4.4	51	70	26	7	0	1	0
NY ALBANY	74	51	87	34	62	-4	.1	- .6	.1	.1	14	24.7	115	98	52	0	0	1	0
BINGHAMTON	71	53	81	38	62	-2	.4	- .3	.2	.4	57	26.5	106	92	56	0	0	3	0
BUFFALO	72	54	83	38	63	-3	1.1	.3	.5	1.1	138	26.7	118	92	57	0	0	4	1
NEW YORK	75	62	82	51	69	-3	.3	- .6	.2	.3	33	26.4	96	83	53	0	0	3	0
ROCHESTER	74	54	81	38	64	-2	.6	0	.5	.6	100	21.0	100	80	51	0	0	3	0
SYRACUSE	72	53	78	44	63	-4	.5	- .2	.4	.5	71	23.6	99	96	57	0	0	3	0
NC ASHEVILLE	78	61	83	55	69	-1	.5	- .4	.3	.5	56	37.8	120	98	68	0	0	3	0
CHARLOTTE	81	67	88	63	74	-2	.1	- .8	.1	.1	11	30.1	103	86	56	0	0	1	0
GREENSBORO	80	63	89	55	72	-1	.1	- .8	.1	.1	11	33.2	116	87	54	0	0	2	0
HATTERAS	81	67	86	60	74	-2	1.0	- .5	1.0	1.0	67	36.1	100	92	54	0	0	1	1
NEW BERN	83	65	90	58	74	-4	T	- 1.5	T	0	0	30.9	78	88	53	1	0	0	0
RALEIGH	83	64	91	53	74	-1	T	- 1.0	T	0	0	32.5	109	81	49	2	0	0	0
WILMINGTON	83	65	90	55	74	-4	2.3	.8	2.3	2.3	153	42.2	109	90	51	1	0	1	1
ND BISMARCK	77	48	89	43	62	-1	.4	0	.3	.4	100	12.4	97	97	40	0	0	2	0
FARGO	77	50	90	43	63	0	.2	- .4	.1	.2	33	10.7	69	88	43	1	0	2	0
GRAND FORKS	77	46	90	38	62	-1	T	- .5	T	0	0	13.5	93	93	38	1	0	0	0
WILLISTON	79	51	88	48	65	2	.7	.4	.7	.7	233	11.7	101	84	33	0	0	1	1
OH AKRON-CANTON	76	55	82	41	65	-2	.4	- .2	.4	.4	67	22.9	92	82	44	0	0	1	0
CINCINNATI	77	60	83	52	69	-3	.8	.2	.4	.8	133	34.0	121	89	56	0	0	4	0
CLEVELAND	77	55	85	38	66	-2	.7	.1	.7	.7	117	22.7	95	90	50	0	0	1	1
COLUMBUS	74	55	79	45	65	-4	2.1	1.5	2.0	2.1	350	27.9	103	92	53	0	0	3	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Sept. 4, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	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 May 30	PCT. NORMAL SINCE May 30	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	78	58	86	49	68	-2	T	- .5	T	0	0	32.2	128	89	55	0	0	3	0
TOLEDO	78	52	85	34	65	-3	T	- .6	T	0	0	18.0	82	96	49	0	0	1	0
YOUNGSTOWN	74	53	82	32	63	-3	.3	- .3	.3	.3	50	23.4	90	93	54	0	1	1	0
OK OKLAHOMA CITY	96	71	101	62	83	6	T	- .7	T	0	0	27.7	126	70	32	6	0	0	0
TULSA	95	71	101	61	83	5	.4	- .5	.4	.4	44	23.5	92	88	40	6	0	1	0
OR ASTORIA	70	54	79	51	62	2	.3	- .2	.2	.3	60	41.8	120	85	63	0	0	2	0
BURNS	78	41	90	35	60	-3	.3	.2	.1	.3	300	7.0	96	67	30	1	0	2	0
MEDFORD	87	53	97	48	70	2	T	- .1	T	0	0	9.2	82	80	24	2	0	1	0
PENDLETON	81	56	92	51	69	0	.1	0	.1	.1	100	5.9	80	76	27	1	0	1	0
PORTLAND	78	60	91	56	69	4	.8	.5	.5	.8	267	23.2	117	87	47	1	0	4	0
SALEM	79	55	93	48	67	2	.3	.1	.3	.3	150	21.7	98	87	41	1	0	2	0
PA ALLENTOWN	75	55	86	43	65	-3	.4	- .5	.3	.4	44	35.7	124	84	48	0	0	2	0
ERIE	73	56	82	38	65	0	1.0	.2	.8	1.0	125	27.1	112	82	52	0	0	3	1
HARRISBURG	78	59	89	46	69	-2	.5	- .2	.4	.5	71	30.8	108	82	46	0	0	2	0
PHILADELPHIA	79	60	88	46	69	-3	.9	0	.4	.9	100	31.6	117	90	45	0	0	2	0
PITTSBURGH	77	57	85	39	67	0	.9	.3	.9	.9	150	23.6	93	88	51	0	0	2	1
SCRANTON	73	55	84	38	64	-3	.7	.1	.7	.7	117	29.3	125	91	58	0	0	2	1
RI PROVIDENCE	74	57	82	46	66	-2	2.9	2.0	2.4	2.9	322	39.4	147	86	52	0	0	2	2
SC CHARLESTON	85	69	91	65	77	-1	.3	- 1.0	.3	.3	23	35.6	93	91	59	1	0	2	0
COLUMBIA	85	66	91	58	76	-3	.7	- .5	.7	.7	58	40.1	119	93	51	2	0	1	1
FLORENCE	84	65	90	58	75	-3	T	- 1.0	T	0	0	30.6	96	93	50	2	0	0	0
GREENVILLE	81	65	91	60	73	-2	.1	- .8	.1	.1	11	42.5	129	90	58	1	0	3	0
SD ABERDEEN	83	56	90	44	69	4	--	--	--	--	--	--	--	85	34	1	0	0	0
HURON	82	59	88	50	70	4	2.1	1.7	1.6	2.1	525	18.2	124	93	51	0	0	3	1
RAPID CITY	82	54	87	50	68	2	T	- .3	T	0	0	18.9	135	86	38	0	0	1	0
SIOUX FALLS	79	59	85	49	69	2	4.4	3.7	4.0	4.4	629	19.8	105	93	58	0	0	2	1
TN CHATTANOOGA	85	67	90	60	76	0	.2	- .6	.2	.2	25	39.0	110	92	54	1	0	2	0
KNOXVILLE	83	67	85	60	75	0	1.9	1.3	1.1	1.9	317	41.2	128	90	60	0	0	3	2
MEMPHIS	90	74	93	62	82	5	0	- .8	0	0	0	41.5	121	87	50	5	0	0	0
NASHVILLE	83	66	89	54	75	-1	1.1	.3	.6	1.1	138	34.6	108	95	62	0	0	4	1
TX ABILENE	94	71	97	63	83	2	.4	- .1	.3	.4	80	16.9	102	79	33	6	0	2	0
AMARILLO	94	65	97	60	80	5	.1	- .4	.1	.1	20	15.0	102	70	28	6	0	1	0
AUSTIN	98	76	100	72	87	4	1.0	.3	.6	1.0	143	17.4	83	82	34	7	0	2	1
BEAUMONT	91	74	93	72	83	1	.3	- 1.1	.3	.3	21	41.5	112	93	59	6	0	1	0
BROWNSVILLE	96	76	99	73	86	3	.9	- .1	.9	.9	90	16.4	116	90	45	7	0	2	1
CORPUS CHRISTI	95	75	97	73	85	1	T	- 1.1	T	0	0	15.2	86	89	48	7	0	0	0
DEL RIO	96	74	100	69	85	2	.4	- .1	.4	.4	80	8.6	80	79	33	6	0	1	0
EL PASO	97	67	104	66	82	4	.2	0	.1	.2	100	2.9	55	71	22	7	0	2	0
FORT WORTH	97	74	99	64	86	3	0	- .7	0	0	0	29.8	136	71	29	7	0	0	0
GALVESTON	90	79	93	76	85	3	1.0	- .3	.7	1.0	77	19.7	74	81	62	5	0	2	1
HOUSTON	95	73	98	71	84	2	1.0	0	.9	1.0	100	23.2	75	96	44	7	0	2	1
LUBBOCK	94	68	96	65	81	6	0	- .5	0	0	0	16.2	123	72	32	7	0	0	0
MIDLAND	96	68	98	63	82	3	0	- .4	0	0	0	10.1	106	70	27	7	0	0	0
SAN ANGELO	95	72	97	62	83	2	0	- .5	0	0	0	15.0	130	76	32	7	0	0	0
SAN ANTONIO	97	75	98	70	86	3	T	- .8	T	0	0	12.4	70	83	34	7	0	0	0
VICTORIA	96	74	99	71	85	2	.3	- .6	.2	.3	33	18.1	83	89	42	7	0	3	0
WACO	97	76	100	67	87	4	T	- .6	T	0	0	21.8	106	80	33	7	0	0	0
WICHITA FALLS	99	71	103	62	85	3	.6	0	.6	.6	100	31.0	168	81	29	7	0	1	1
UT BLANDING	87	56	88	52	72	4	T	- .3	T	0	0	9.3	113	63	22	0	0	1	0
CEDAR CITY	89	56	92	53	72	5	0	- .2	0	0	0	10.1	151	56	16	3	0	0	0
SALT LAKE CITY	88	60	94	54	74	4	.1	- .1	.1	.1	50	11.3	111	66	20	1	0	1	0
VT BURLINGTON	73	53	81	44	63	-1	.4	- .4	.3	.4	50	23.1	105	83	43	0	0	3	0
VA NORFOLK	82	63	89	49	73	-3	T	- 1.1	T	0	0	33.6	107	87	48	0	0	1	0
RICHMOND	82	61	89	49	72	-2	T	- 1.0	T	0	0	35.0	116	93	56	0	0	0	0
ROANOKE	79	58	87	49	69	-3	.2	- .7	.2	.2	22	32.1	121	92	54	0	0	2	0
WA COLVILLE	77	53	86	46	65	2	.2	0	.1	.2	100	11.8	117	82	45	0	0	3	0
QUILLAYUTE	71	53	81	49	62	4	.7	- .1	.5	.7	88	67.0	119	99	63	0	0	3	0
SEATTLE-TACOMA	73	57	87	56	65	3	.3	0	.2	.3	100	21.8	106	91	53	0	0	4	0
SPOKANE	78	52	90	46	65	1	.1	0	.1	.1	100	9.5	93	81	30	1	0	3	0
YAKIMA	81	51	90	45	66	0	.1	0	.1	.1	100	5.3	113	85	37	1	0	2	0
WV BECKLEY	72	56	76	45	64	-2	1.4	.5	.8	1.4	156	33.5	111	100	68	0	0	3	1
CHARLESTON	79	59	83	46	69	-2	.9	.2	.3	.9	129	32.0	110	96	58	0	0	4	0
HUNTINGTON	76	59	80	48	68	-4	1.0	.3	.7	1.0	143	32.1	114	98	60	0	0	3	1
PARKERSBURG	77	61	82	49	69	-2	.8	.1	.3	.8	114	27.1	88	85	52	0	0	3	0
WI GREEN BAY	70	51	78	43	61	-3	1.2	.5	.7	1.2	171	20.0	109	94	53	0	0	3	1
LA CROSSE	74	55	81	48	65	-2	1.5	.7	.8	1.5	188	15.8	73	100	56	0	0	2	2
MADISON	72	51	77	39	62	-3	1.4	.6	1.1	1.4	175	21.1	100	99	58	0	0	3	1
MILWAUKEE	71	55	76	44	63	-3	.3	- .4	.2	.3	43	23.9	118	93	57	0	0	3	0
WAUSAU	69	52	78	46	60	-3	.9	0	.4	.9	100	25.1	112	94	54	0	0	3	0
WY CASPER	88	51	93	45	69	5	T	- .1	T	0	0	11.7	143	78	16	3	0	1	0
CHEYENNE	83	54	87	44	68	5	T	- .3	T	0	0	13.9	123	69	24	0	0	0	0
LANDER	86	53	88	48	69	5	T	- .2	T	0	0	6.6	67	53	18	0	0	0	0
SHERIDAN	90	52	96	45	71	7	T	- .3	T	0	0	9.6	82	73	20	4	0	0	0
PR SAN JUAN	91	77	92	76	84	2	1.5	- .1	.8	1.5	94	31.4	84	90	62	6	0	5	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

August Weather and Crop Summary

HIGHLIGHTS: Widespread rain fell over the United States, but many areas had less than the normal amount. The area from north-central Texas to western Kansas had less than half the normal amount of rain. Moisture is needed to prepare land for seeding winter wheat. Rain was spotty in the East Coast States. Most parts had near-normal rain, but some areas became too dry. Spotty showers in the eastern Corn Belt provided ample moisture in some area, but dry weather stressed crops in other parts. Freezing temperatures hurt some immature crops in nothern North Dakota and Minnesota late in the month, and unusally hot weather early in the month may have stressed some pollinating corn.

FIRST WEEK...A ridge of high pressure through central United States spread warm air northward through the Plains all the way into Canada. In most areas, where adequate moisture was available, crops developed rapidly. The warm air spread eastward to cover the entire Corn Belt. Afternoon high temperatures, near 100° for several days, in the western Corn Belt may have hurt some crops. Showers and thunderstorms in Iowa and Nebraska caused some local flooding, but showers in other parts of the Plains, the Ohio Valley, and the East Coast States generally benefited crops.

SECOND WEEK...An outbreak of cold air moved into the northern Plains early in the week and spread southward to the central Plains and eastward to the Atlantic Ocean. Average temperatures for the week were 6 to 9° colder than normal through the midwest and parts of the central and northern Plains. Low-temperature records were set in many areas from Iowa to New York. Frost was reported in some low places of northern Minnesota. Downpours of rain accompanied heavy thunderstorms from southeastern Nebraska to central Arkansas and into northern Mississippi, causing local flooding. Some portions of the central and southern Plains remained unsually dry.

THIRD WEEK...Temperatures warmed during the week, pushing crops toward normal development. Above-normal temperatures in the northern Plains hastened crop development and helped narrow the gap from normal growth. Dry weather allowed rapid progress in harvesting of spring grains and the remaining winter grains through the northern Plains. Showers and thunderstorms were relatively light over much of the Nation, but some heavy rain fell in southern Missouri and from south-central Kentucky to northwestern Georgia. A few showers fell over the southern tip of Texas, but a large portion of southern Texas and New Mexico, Oklahoma, and southwestern Kansas remained excessively dry.

FOURTH WEEK...A ridge of high pressure developed along the west coast and, late in the week, caused another outbreak of very cold weather, carrying freezing temperatures through the Prairie Provinces of Canada into the northern Plains. Freezing temperatures in North Dakota and Minnesota did some damage to immature crops. The cold weather moved southward and eastward, but the coldest weather remained in the northern part of the border States. One to two inches of rain fell in parts of the dry areas of Minnesota and Wisconsin and heavy thunderstorms reached from central Missouri through the Kentucky-Tennessee border area. Showers in southern and eastern Oklahoma were welcome, but much more is needed to prepare ground for winter wheat. Temperatures warmed through the Plains and Midwest during the last 3 days of the month, again spurring crop development after a cool weekend. Showers and thunderstorms covered the area from south-central Nebraska to southern Illinois and through the Great Lakes region. Excessive rain fell from northern Missouri to western Wisconsin.

AUGUST CROP DEVELOPMENT

August precipitation provided adequate moisture supplies in most major row crop production regions. However, rainfall was spotty in the eastern Corn Belt. Some areas became dry and crops were stressed. Subnormal temperatures slowed plant growth in many areas of the Corn Belt. Development in the western region was already late because of the delayed planting season. Late in the month, freezing temperatures damaged some immature crops in northern North Dakota and Minnesota.

At the beginning of September, corn was in good to excellent condition in parts of the Corn Belt and Southeast and fair to mostly good condition in other regions. In the 17 major producing States, 87 percent of the corn was in or past the dough stage, 59 percent was in or past the dent stage and nearly 15 percent was mature. Progress was generally ahead of average in the eastern Corn Belt and lagging in the western part of this area. Harvesting was underway as far north as Missouri and Virginia.

Soybeans were in good to excellent condition in some southern areas and in parts of the Corn Belt. In other regions, mostly good conditions prevailed. In the 18 major producing States, nearly all of the crop had bloomed by the beginning of September, and 93 percent had set pods. Leaves were turning color in early-planted fields, and in a few areas, leaves had started shedding. Like corn, soybean development was behind average in the western Corn Belt and ahead of average in the eastern area. Some dry areas developed in the eastern Corn Belt and stressed the crop. Rain is needed to prevent further stress and for good development.

Cotton was in fair to good condition. Boll set was virtually complete by the end of August and many fields showed open bolls. Harvesting in Texas reached 14 percent finished by September 5, about equal to average. Prolonged dryness in parts of Texas caused droppage of bolls and slowed development of late-planted fields.

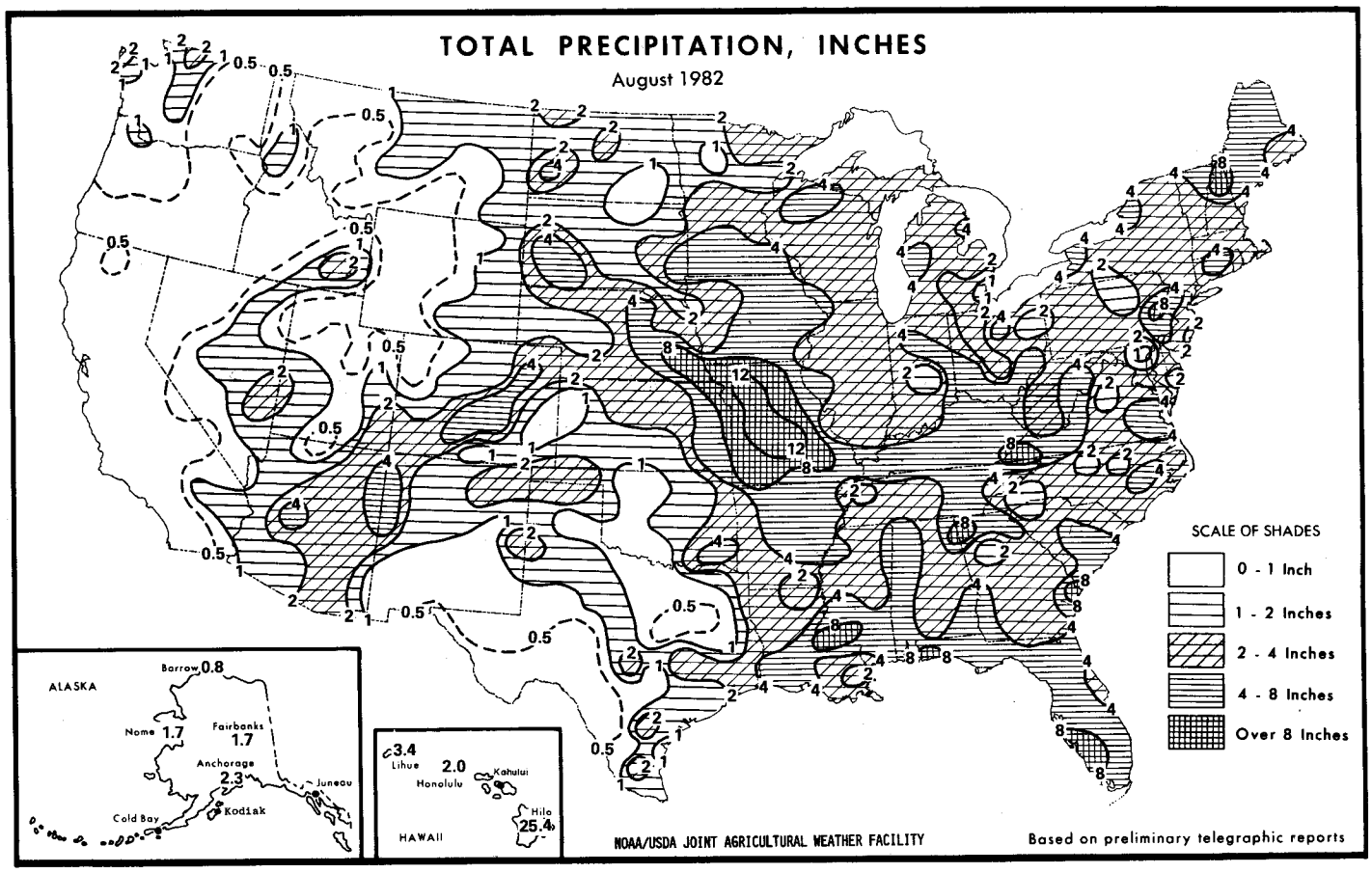
In the 7 major producing States, heading of grain sorghum advanced to 91 percent by September 5. Coloring was evident in all States--ranging from 10 percent in Nebraska to 75 percent in Texas. The Texas harvest was 65 percent complete, only 1 point behind average. Plants matured rapidly under the hot weather. Harvest was active as far northern as the Low Plains of Texas.

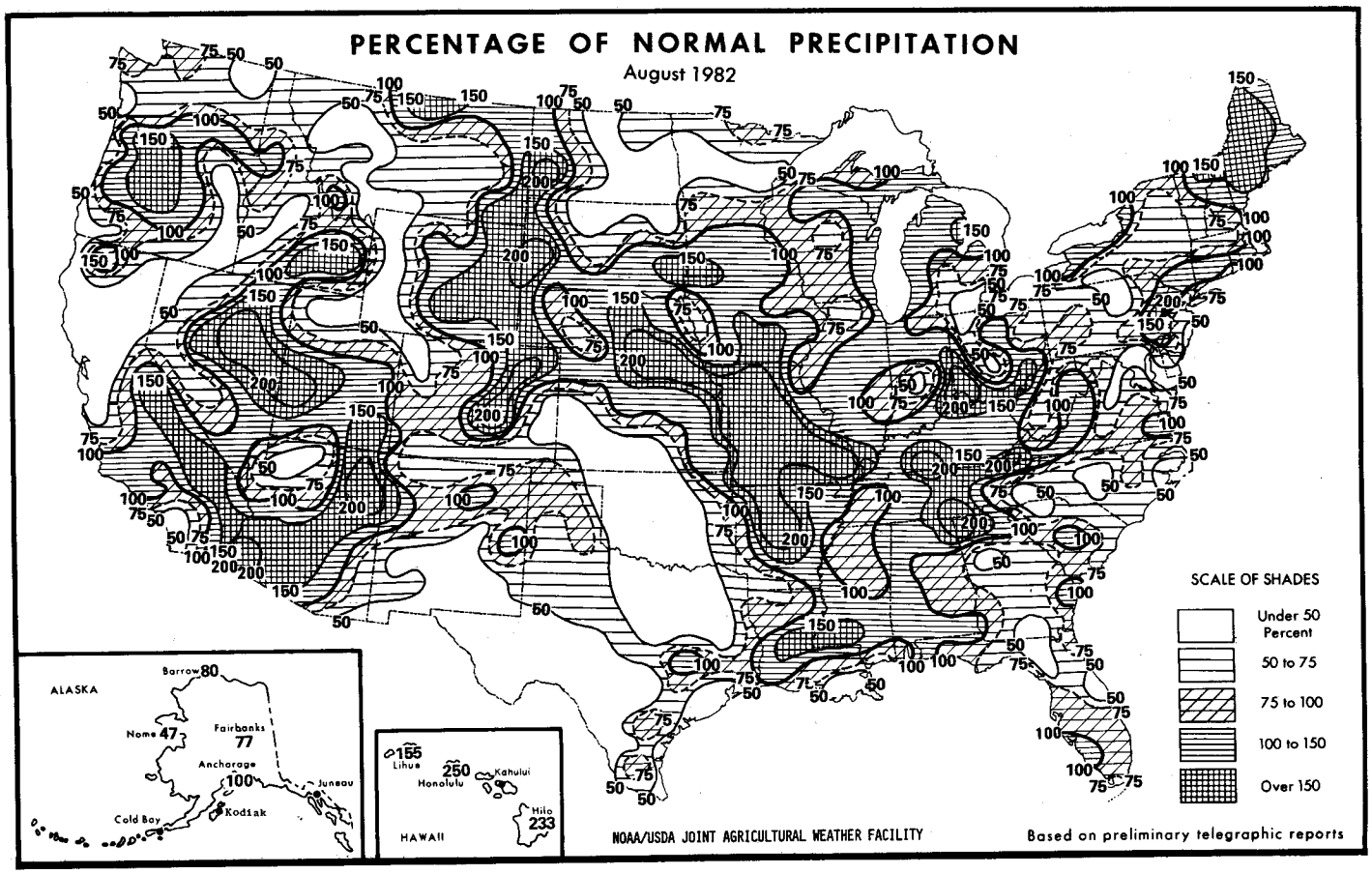
Winter wheat harvest was still active at the end of the month in the northern-most States. Plowing for the 1983 crop became more widespread. Seeding of the 1983 crop started on a limited basis. Producers in Texas and Oklahoma delayed seeding in hopes of rain. Dry conditions were also evident in parts of Kansas. In the 5 major producing States, spring wheat was 75 percent harvested by September 5, lagging last year's 93 percent and the average of 79 percent. Combining was finished in South Dakota. Progress in all other States except Montana was generally on schedule. In Montana, only 50 percent of the acreage had been harvested, 25 points behind average.

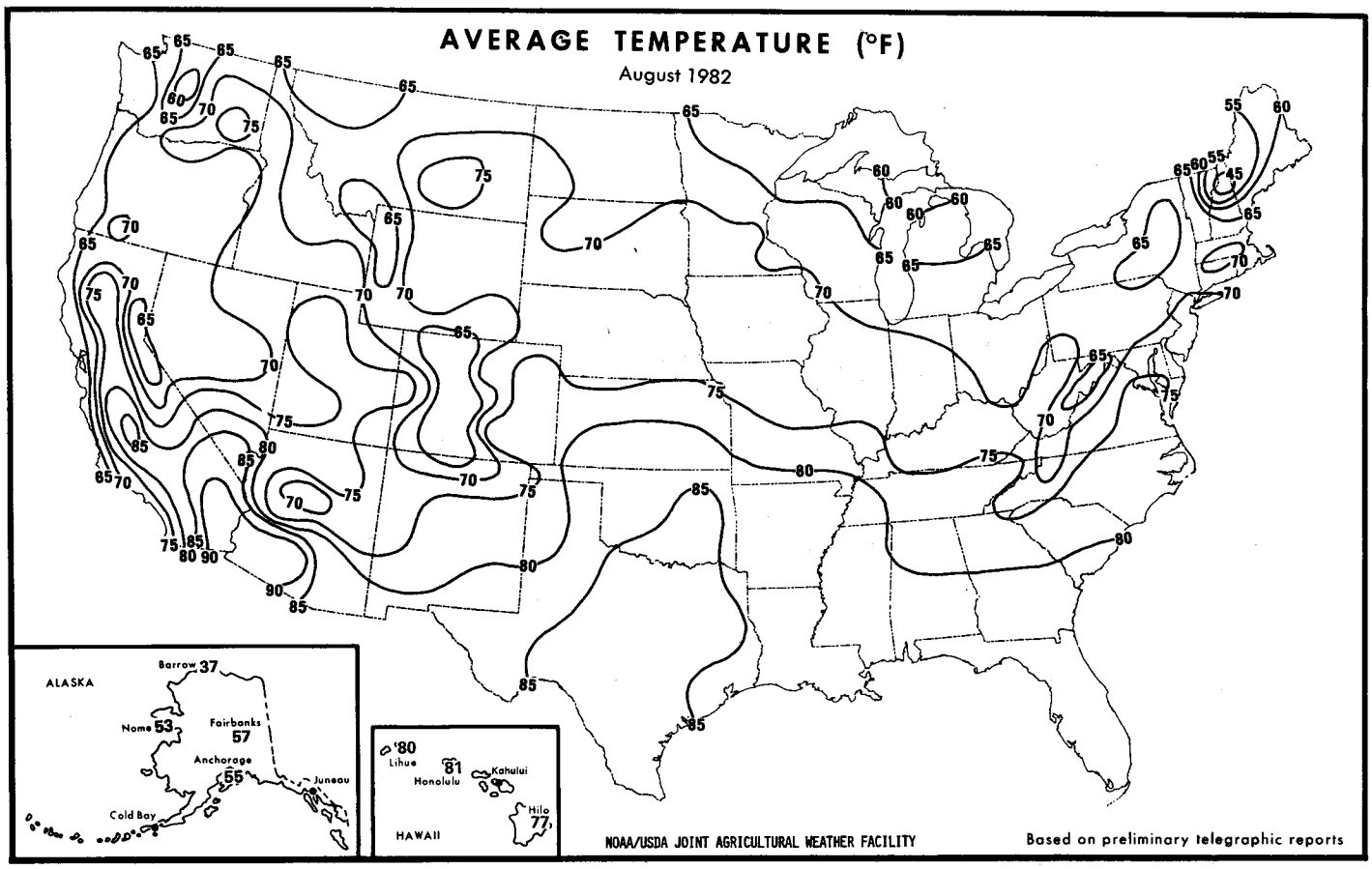
Temperature and Precipitation Data for August 1982

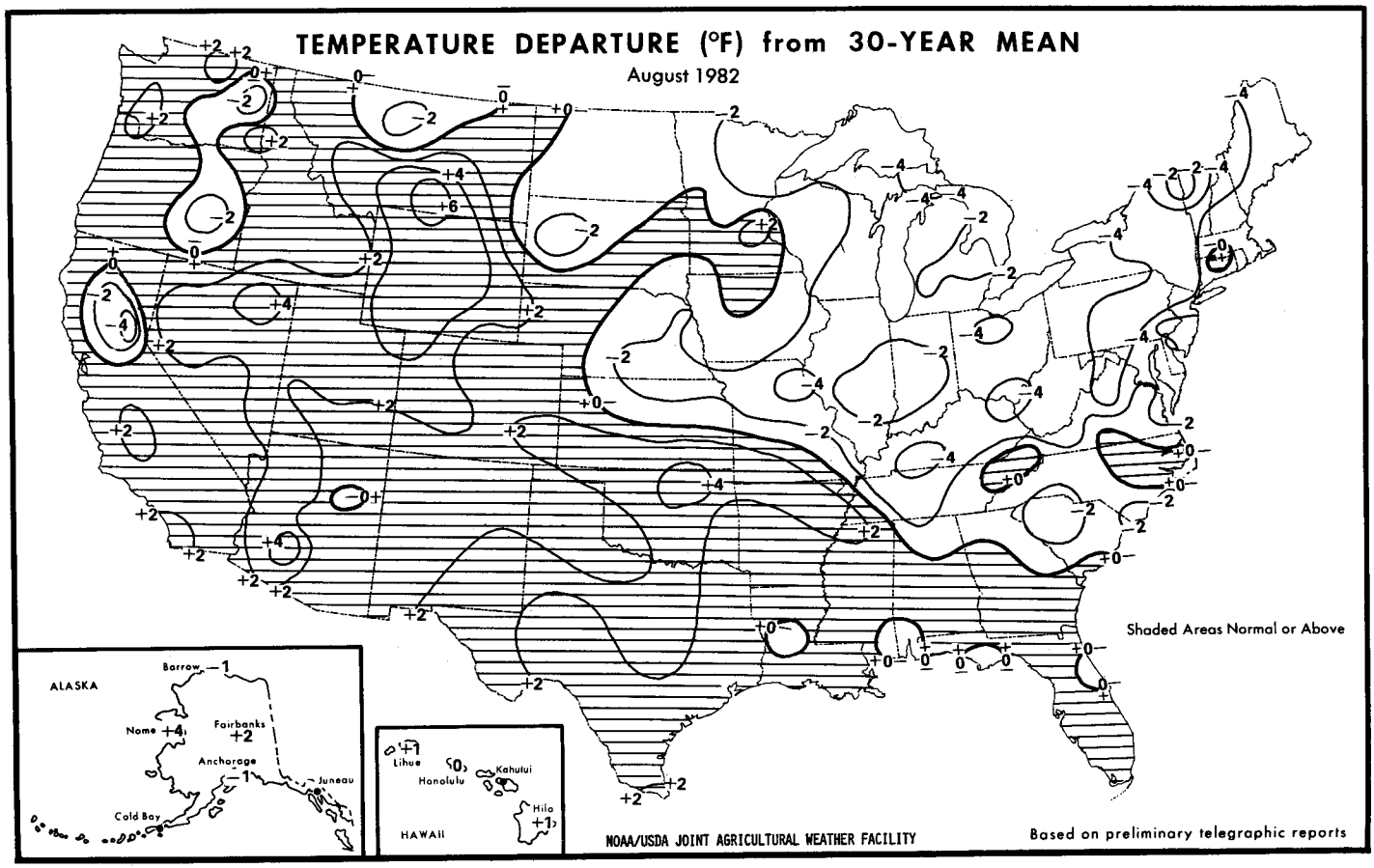
States and Stations	Temperature °F Average	Temperature °F Departure	Precipitation Inches Total	Precipitation Inches Departure
AL BIRMINGHAM	79	0	3.7	- .6
MOBILE	81	- 1	6.1	- .8
MONTGOMERY	82	1	3.2	- .3
AK ANCHORAGE	55	- 1	2.3	.0
BARROW	37	- 1	.8	- .2
FAIRBANKS	57	2	1.7	- .5
JUNEAU	--	--	--	--
KODIAK	--	--	--	--
NOME	53	4	1.7	- 1.9
AZ FLAGSTAFF	66	2	2.3	- .4
PHOENIX	94	5	2.0	.8
TUCSON	84	0	2.5	.2
WINSLOW	75	- 1	2.7	1.2
YUMA	93	0	.9	.5
AR FORT SMITH	81	0	2.4	- .5
LITTLE ROCK	88	1	5.7	2.9
CA BAKERSFIELD	85	3	T	.0
EUREKA	60	3	T	.0
FRESNO	80	2	T	.0
LOS ANGELES	71	1	T	.0
RED BLUFF	78	- 2	0	.0
SAN DIEGO	74	3	T	- .1
SAN FRANCISCO	63	0	T	.0
STOCKTON	76	1	0	.0
CO DENVER	73	1	1.2	- .1
GRAND JUNCTION	78	3	.9	- .2
PUEBLO	77	2	4.4	2.4
CT BRIDGEPORT	69	- 4	3.1	- .7
HARTFORD	70	0	4.4	.5
DC WASHINGTON	75	- 2	2.7	- 2.0
FL APALACHICOLA	81	- 1	4.5	- 3.6
DAYTONA BEACH	80	- 1	3.2	- 3.6
FORT MYERS	83	0	10.6	2.9
JACKSONVILLE	82	1	6.9	- 1.0
KEY WEST	84	- 1	2.6	- 1.9
MIAMI	84	1	5.8	- .9
ORLANDO	82	0	5.0	- 1.7
TALLAHASSEE	81	0	4.1	- 2.8
TAMPA	82	0	7.2	- .8
WEST PALM BEACH	83	1	5.7	- 1.2
GA ATLANTA	78	0	1.5	- 2.0
AUGUSTA	79	- 1	3.1	- 1.1
MACON	81	0	2.5	- 1.2
SAVANNAH	81	0	9.2	2.7
HI HILO	77	1	25.4	14.5
HONOLULU	81	0	2.0	1.2
KAHULUI				
LIHUE	80	1	3.4	1.2
ID BOISE	73	1	.2	- .1
LEWISTON	74	2	.5	- .1
POCATELLO	71	1	2.0	1.4
IL CAIRO	77	- 2	7.3	3.8
CHICAGO	69	- 2	3.9	1.2
MOLINE	71	- 2	3.4	.0
PEORIA	71	- 3	4.0	.9
ROCKFORD	69	- 3	2.7	- 1.0
SPRINGFIELD	73	- 1	3.7	1.0
IN EVANSVILLE	74	- 2	3.4	.4
FORT WAYNE	69	- 2	3.4	.5
INDIANAPOLIS	72	- 1	1.0	- 1.8
SOUTH BEND	69	- 2	2.8	- .5
IA BURLINGTON	71	- 3	2.9	- .5
DES MOINES	73	0	5.3	2.0
DUBUQUE	--	--	--	--
SIOUX CITY	72	- 2	1.5	- 1.5
KS CONCORDIA	79	- 2	3.2	.0
DODGE CITY	81	3	1.0	- 1.6
GOODLAND	75	1	.8	- 1.3
TOPEKA	76	- 1	4.5	.3
WICHITA	82	2	1.5	- 1.6
KY LEXINGTON	73	- 2	4.0	.6
LOUISVILLE	74	- 2	3.7	.7
LA BATON ROUGE	82	0	3.9	- .8
LAKE CHARLES	82	0	7.1	2.3
NEW ORLEANS	82	0	1.9	- 3.4
SHREVEPORT	83	0	2.2	- .5
ME CARIBOU	59	- 3	4.8	1.0
PORTLAND	64	- 2	3.4	.8
MD BALTIMORE	73	- 2	1.0	- 3.2
MA BOSTON	70	- 1	2.2	- 1.3
CHATHAM	66	- 5	3.6	1.1
MI ALPENA	62	- 2	3.1	.4
DETROIT	68	- 3	.7	- 2.6
FLINT	67	- 1	3.2	- .1
GRAND RAPIDS	69	- 1	3.1	.6
HOUGHTON LAKE	62	- 3	3.3	.7
LANSING	67	- 3	2.0	- .8
MARQUETTE	60	- 3	3.5	- .1
MUSKEGON	67	- 2	4.7	1.1
SAULT STE. MARIE	58	- 5	3.3	.2
MN DULUTH	61	- 3	1.6	- 2.2
INT'L FALLS	61	- 2	2.9	- .5
MINNEAPOLIS	72	3	3.8	.7
ROCHESTER	69	0	4.9	1.3
SAINT CLOUD	67	- 1	3.4	- .5
MS JACKSON	82	1	5.0	1.4
MERIDIAN	82	1	3.9	.0
MO COLUMBIA	74	- 2	9.0	5.2
KANSAS CITY	75	- 2	9.6	5.8
SAINT LOUIS	75	- 2	3.3	.4
SPRINGFIELD	79	2	8.6	5.7
MT BILLINGS	76	6	.5	- .5
GLASGOW	69	0	1.2	- .3
GREAT FALLS	65	- 2	.4	- .7
HAVRE	67	- 1	1.8	.7
HELENA	69	3	.7	- .3
KALISPELL	63	1	.8	- .5
MILES CITY	74	1	.6	- .6
MISSOULA	66	1	.4	- .5
NE GRAND ISLAND	72	- 3	5.8	3.3
LINCOLN	74	- 2	8.6	5.3
NORFOLK	73	- 1	3.3	.6
NORTH PLATTE	73	0	1.2	- .9
OMAHA	73	- 1	3.0	- 1.0
VALENTINE	74	1	3.4	1.0
NV ELY	68	2	1.4	.8
LAS VEGAS	87	0	.7	.2
RENO	69	2	.1	- .1
WINNEMUCCA	70	2	.2	- .1
NH CONCORD	65	- 2	2.5	- .4
NJ ATLANTIC CITY	72	- 1	1.6	- 3.3
TRENTON	--	--	--	--
NM ALBUQUERQUE	77	0	1.1	- .2
ROSWELL	--	--	--	--
NY ALBANY	66	- 4	2.0	- .9
BINGHAMTON	64	- 3	2.9	- .7
BUFFALO	65	- 3	4.6	1.1
NEW YORK	72	- 3	3.1	- 1.4
ROCHESTER	66	- 3	3.0	.0
SYRACUSE	65	- 5	2.6	- .9
NC ASHEVILLE	72	- 1	1.7	- 2.8
CHARLOTTE	76	- 2	2.0	- 2.0
GREENSBORO	75	- 1	1.5	- 2.8
HATTERAS	78	0	2.1	- 4.7
RALEIGH	77	0	1.8	- 3.1
WILMINGTON	78	- 2	3.7	- 3.1
ND BISMARCK	68	- 1	1.5	- .5
FARGO	68	- 1	1.1	- 1.8
WILLISTON	70	1	2.0	.4
OH AKRON-CANTON	68	- 2	1.5	- 1.3
CINCINNATI	71	- 3	7.7	5.1
CLEVELAND	68	- 2	2.7	- .3
COLUMBUS	69	- 3	1.0	- 1.9
DAYTON	71	- 2	6.4	3.8
TOLEDO	68	- 3	1.4	- 1.7
YOUNGSTOWN	66	- 3	1.8	- 1.4
OK OKLAHOMA CITY	84	3	1.1	- 1.5
TULSA	85	4	1.4	- 1.6
OR ASTORIA	61	1	.6	- .9
BURNS	64	- 2	.4	.0
MEDFORD	72	2	T	.0
PENDLETON	72	0	.2	- .1
PORTLAND	69	2	1.7	.9
SALEM	66	0	.4	- .2
PA ALLENTOWN	68	- 4	8.4	4.2
ERIE	66	- 2	2.2	- 1.2
HARRISBURG	70	- 4	2.5	- .7
PHILADELPHIA	74	- 1	2.2	- 1.9
PITTSBURGH	68	- 2	2.4	- .6
SCRANTON	66	- 4	3.4	- .4
RI PROVIDENCE	69	- 1	3.7	- .2
SC CHARLESTON	80	0	4.1	- 2.3
COLUMBIA	78	- 2	5.9	.3
GREENVILLE	75	- 3	1.7	- 2.4
SD ABERDEEN	--	--	--	--
HURON	73	1	2.9	.9
RAPID CITY	70	- 2	4.8	3.3
SIOUX FALLS	71	- 1	5.2	2.4
TN CHATTANOOGA	77	- 1	6.4	3.2
KNOXVILLE	77	0	2.7	- .5
MEMPHIS	83	3	3.1	- .2
NASHVILLE	76	- 3	3.5	.3
TX ABILENE	86	2	1.1	- 1.0
AMARILLO	79	1	.6	- 2.3
AUSTIN	87	2	.8	- 1.4
BEAUMONT	83	0	2.5	- 3.2
BROWNSVILLE	86	2	1.0	- 1.7
CORPUS CHRISTI	85	0	.6	- 2.6
DEL RIO	87	1	.1	- 1.1
EL PASO	83	2	.5	- .6
FORT WORTH	87	2	.5	- 1.8
GALVESTON	84	1	1.8	- 2.6
HOUSTON	84	1	1.9	- 2.5
LUBBOCK	81	3	1.1	- .8
MIDLAND	83	1	.7	- .8
SAN ANGELO	85	0	.5	- .9
SAN ANTONIO	86	1	.6	- 1.8
VICTORIA	86	1	1.8	- 1.4
WACO	88	2	.2	- 1.6
WICHITA FALLS	86	0	.7	- 1.1
UT BLANDING	71	0	3.0	1.4
SALT LAKE CITY	78	3	.6	- .3
VT BURLINGTON	66	- 1	3.6	- .1
VA LYNCHBURG	74	0	2.6	- 1.5
NORFOLK	75	- 2	6.5	.6
RICHMOND	75	- 1	4.4	- .7
ROANOKE	72	- 2	5.2	1.0
WA COLVILLE	67	0	.4	- .5
OMAK	72	4	.3	- .3
QUILLAYUTE	60	1	2.5	- .3
SEATTLE-TACOMA	65	1	.6	- .5
SPOKANE	70	- 2	.3	- .3
WALLA-WALLA	75	1	.6	.1
YAKIMA	68	- 1	.4	.1
WV BECKLEY	67	- 2	2.9	- .9
CHARLESTON	71	- 3	2.7	- 1.0
HUNTINGTON	70	- 4	4.5	1.2
PARKERSBURG	--	--	--	--
WI GREEN BAY	65	- 3	2.9	.3
LA CROSSE	70	- 1	2.9	- .1
MADISON	66	- 3	2.7	- .4
MILWAUKEE	67	- 2	3.3	.6
WY CASPER	74	4	.9	.3
CHEYENNE	69	1	1.8	.3
LANDER	73	4	.3	- .1
SHERIDAN	74	5	.6	- .4
PR SAN JUAN	88	7	1.9	- 5.1

Based on 1941-70 normals


TOTAL PRECIPITATION, INCHES
August 1982
SCALE OF SHADES
0 - 1 Inch
1 - 2 Inches
2 - 4 Inches
4 - 8 Inches
Over 8 Inches
ALASKA
Barrow 0.8
Nome 1.7
Fairbanks 1.7
Anchorage 2.3
Juneau
Cold Bay
Kodiak
3.4
Lihue
2.0
Honolulu
Kahului
Hilo
25.4
HAWAII
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports


PERCENTAGE OF NORMAL PRECIPITATION
August 1982
SCALE OF SHADES
Under 50 Percent
50 to 75
75 to 100
100 to 150
Over 150
ALASKA
Barrow 80
Nome 47
Fairbanks 77
Anchorage 100
Juneau
Cold Bay
Kodiak
155
Lihue
250
Honolulu
Kahului
Hilo
233
HAWAII
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports


AVERAGE TEMPERATURE (°F)
August 1982
ALASKA
Barrow 37
Nome 53
Fairbanks 57
Anchorage 55
Juneau
Cold Bay
'80
Lihue
81
Honolulu
Kahului
Hilo 77
HAWAII
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports


TEMPERATURE DEPARTURE (°F) from 30-YEAR MEAN
August 1982
Shaded Areas Normal or Above
ALASKA
Barrow −1
Nome +4
Fairbanks +2
Anchorage −1
Juneau
Cold Bay
+1
Lihue
0
Honolulu
Kahului
Hilo +1
HAWAII
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports

National Agricultural Summary

August 30-September 6

HIGHLIGHTS: Dry weather continued in northern Texas and Oklahoma where farmers were hoping for rain before seeding the 1983 winter wheat crop. Heavy rains in Kentucky and Missouri caused localized flooding and damaged some crops. Farmers in Missouri, Kentucky, Tennessee, and West Virginia had only 1 to 3 days suitable for fieldwork due to the wet conditions. In other areas of the Nation, 4 to 6 days were available. Soil moisture supplies were rated adequate to surplus in Missouri, Kentucky, and Tennessee as a result of heavy rainfall. Short to adequate supplies were reported in nearly all other areas. Winter wheat harvest was virtually finished. Seeding of the 1983 crop started in many areas. Spring wheat was 75% harvested, only 4 points behind normal. Nearly 15% of the corn was mature. Harvesting moved slowly northward reaching into Missouri and Virginia. Ninety-three percent of the soybeans had set pods, and about 7% were dropping leaves. Sorghum was coloring in all major States. Rice harvest was active in nearly all growing areas, with progress ranging up to 93% complete in Texas. Peach harvest was still active, and apple picking gained momentum. Livestock were in mostly good condition. Pastures continued to deteriorate in Texas but continued in mostly good condition elsewhere.

SMALL GRAINS: The winter wheat harvest was complete in all but the northernmost areas. Combining neared completion in the Pacific Northwest and in Colorado. In Montana, harvest was 85% finished, 10 points behind average. The Idaho harvest was on schedule, with 88% of the acreage combined. Seeding of the 1983 crop was underway in many areas. The Kansas crop was 2% seeded, the Nebraska and Montana crops were each 5% seeded, and the Texas crop was 6% seeded. Dry conditions hampered progress in Texas and Oklahoma. Many producers in Texas are delaying planting in hopes of rain.

Spring wheat harvest reached 75% finished in the 5 major producing States, behind last year's rapid pace of 93% and the average of 79%. Progress in Montana was 25 points behind average. Combining in other States was on schedule.

CORN: Corn remained in good to excellent condition in parts of the Corn Belt and Southeast and fair to mostly good in other regions. Rain benefited the crop, especially in the eastern Corn Belt, but more is needed. Heavy rains in parts of Missouri and Kentucky caused localized flooding and damaged some fields. Damage from the August 27 frost became more apparent in northern areas of North Dakota and Minnesota. Although locally severe, only a small percentage of the States acreage was affected. In the 17 major producing States, 87% of the corn was in or past the dough stage, 59% in or past the dent stage, and about 15% was mature. Normally, about 93% is in or past the dough stage, 68% in or past the dent stage, and 24% is mature. Crop development continued ahead of average in the eastern Corn Belt but was still lagging in the western Corn Belt. Harvesting became more active and moved northward in Missouri and Virginia.

SOYBEANS: Soybeans were in good to excellent condition in parts of the South and the Corn Belt and in mostly good condition in other areas. Rainfall benefited the crop, but more is needed for good development. In the 18 major producing States, 93% of the soybeans were setting pods, and about 7% were dropping leaves. Progress was nearly equal to a year ago and the average.

COTTON: Cotton was rated in fair to mostly good condition. Boll set was virtually finished in all States. Bolls were opening in many fields. Harvest has started in Mississippi and was 14% complete in Texas. Prolonged dry weather in Texas has caused poor development of plants. Bolls are dropping from some plants. Insect problems increased in most of Arizona's cotton fields. Spraying was active in many areas of the State.

OTHER CROPS: Sorghum was in fair to mostly good condition. In the 7 major producing States, heading was complete on 91% of the acreage, slightly behind last year's 95% and the average of 96%. Sorghum was coloring in all States ranging from 10% in Nebraska to 75% in Texas. Harvesting was active across the South. The Texas harvest was 65% finished, 1 point behind average. Plants matured rapidly under the hot weather which prevailed during the week. Harvesting in Texas moved northward to the Low Plains.

Tobacco harvest continued active in all producing areas. Harvesting of the North Carolina flue-cured crop neared completion. The South Carolina harvest neared completion. Stalks were destroyed as harvest was finished.

Peanut harvest became more active in many areas. Harvesting was delayed in Texas because dry conditions have delayed development of the crop. Many stands were moisture stressed and need rain to complete development.

Rice harvest was active in most areas. Progress ranged from 8% completion in Mississippi to 93% in Texas. Progress was generally on schedule with last year and the average.

VEGETABLES: Harvesting of fall vegetables picked up momentum in northern areas as harvesting of summer crops continued to decline. Planting for the winter quarter harvest increased in Florida. Land preparation was very active, and irrigation has started in some fields. California growers continued harvesting a wide variety of vegetables.

FRUITS AND NUTS: Peach harvests, although past peak in many areas, continued active. Early apple harvests picked up momentum. Florida's citrus trees were in excellent condition. Moisture was adequate, with limited irrigation required. Early citrus was showing color break. Several fresh fruit packing houses opened. California growers harvested apples, grapes, prunes, and almonds. Raisin grape laying continued active. Sugar content of grapes improved in most areas.

PASTURES AND LIVESTOCK: Pastures and ranges were in fair to good condition in most areas, but conditions further declined in Texas as hot, dry weather continued. Grazing was limited and supplemental feeding increased. Livestock were in fair to mostly good condition.

CROP PROGRESS

FOR WEEK ENDING SEPT 5

SOYBEANS
% SETTING PODS

	1982	1981	AVG.
ALA	97	94	NA
ARK	86	87	80
GA	94	89	NA
ILL	99	97	99
IND	100	95	100
IOWA	97	100	100
KANS	70	85	NA
KY	88	78	85
LA	92	93	92
MICH	100	100	100
MINN	98	98	98
MISS	95	95	93
MO	79	74	87
NEBR	95	100	100
N C	80	79	69
OHIO	100	100	100
S C	85	82	85
TENN	87	84	80
18 STATES	93	92	NA
EXCL. STATES WITH NA	93	92	93

SOYBEANS
% DROPPING LEAVES

	1982	1981	AVG.
ALA	1	5	NA
ARK	3	NA	NA
GA	9	5	NA
ILL	10	4	10
IND	10	2	10
IOWA	0	4	12
KANS	5	5	NA
KY	14	5	8
LA	8	6	NA
MICH	5	5	7
MINN	6	8	14
MISS	3	7	7
MO	5	4	7
NEBR	4	15	30
N C	NA	NA	NA
OHIO	15	5	5
S C	1	NA	NA
TENN	4	2	4
18 STATES	NA	NA	NA
EXCL. STATES WITH NA	7	5	10

THESE 18 STATES PRODUCED 95% OF THE 1981 SOYBEAN CROP.

NA - NOT AVAILABLE

CORN
% DENT

	1982	1981	AVG.
COLO	31	40	42
GA	100	100	NA
ILL	85	68	80
IND	90	40	70
IOWA	45	63	73
KANS	60	65	70
KY	92	79	80
MICH	60	55	61
MINN	42	40	61
MO	72	83	77
NEBR	30	50	65
N C	94	95	93
OHIO	85	40	55
PA	40	44	40
S DAK	33	49	58
VA	80	88	NA
WIS	20	41	49
17 STATES	59	57	NA
EXCL. STATES WITH NA	57	55	68

CORN
% MATURE

	1982	1981	AVG.
COLO	4	6	5
GA	98	99	NA
ILL	25	15	42
IND	25	5	20
IOWA	7	10	24
KANS	20	30	35
KY	33	26	27
MICH	5	5	4
MINN	2	4	12
MO	25	31	31
NEBR	0	3	15
N C	88	80	80
OHIO	20	5	15
PA	1	6	3
S DAK	9	9	19
VA	60	76	NA
WIS	NA	NA	NA
17 STATES	NA	NA	NA
EXCL. STATES WITH NA	15	12	24

THESE 17 STATES PRODUCED 93% OF THE 1981 CORN CROP.

NA - NOT AVAILABLE

CORN
% DOUGH

	1982	1981	AVG.
COLO	76	77	75
GA	100	100	NA
ILL	100	100	100
IND	100	85	97
IOWA	78	91	95
KANS	90	95	95
KY	100	92	95
MICH	100	100	100
MINN	86	94	89
MO	91	100	87
NEBR	75	90	94
N C	98	100	100
OHIO	100	85	90
PA	86	88	88
S DAK	74	64	87
VA	94	95	NA
WIS	63	81	77
17 STATES	87	91	NA
EXCL. STATES WITH NA	87	91	93

THESE 17 STATES PRODUCED 93% OF THE 1981 CORN CROP.

NA - NOT AVAILABLE

RICE
% HEADED

	1982	1981	AVG.
ARK	95	94	94
CALIF	75	85	84
LA	97	100	NA
MISS	97	98	97
TEX	100	100	100
5 STATES	93	95	NA
EXCL. STATES WITH NA	92	94	93

RICE
% HARVESTED

	1982	1981	AVG.
ARK	9	6	5
CALIF	NA	NA	NA
LA	70	80	76
MISS	8	14	13
TEX	93	99	98
5 STATES	NA	NA	NA
EXCL. STATES WITH NA	40	43	41

THESE 5 STATES PRODUCED 98% OF THE 1981 RICE CROP.

NA - NOT AVAILABLE

SORGHUM
% HEADED

	1982	1981	AVG.
COLO	88	86	92
KANS	80	90	90
MO	91	86	94
NEBR	98	100	100
OKLA	85	100	100
S DAK	95	94	97
TEX	98	99	99
7 STATES	91	95	96

SORGHUM
% COLORING

	1982	1981	AVG.
COLO	30	19	30
KANS	15	35	45
MO	50	43	48
NEBR	10	55	65
OKLA	NA	NA	NA
S DAK	30	66	52
TEX	75	83	81
7 STATES	NA	NA	NA
EXCL. STATES WITH NA	39	57	61

THESE 7 STATES PRODUCED 92% OF THE 1981 SORGHUM CROP.

NA - NOT AVAILABLE

SPRING WHEAT
% HARVESTED

	1982	1981	AVG.
IDAHO	69	84	67
MINN	81	97	81
MONT	50	85	75
N D	75	92	74
S DAK	100	100	100
5 STATES	75	93	79

THESE 5 STATES PRODUCED 92% OF THE 1981 SPRING WHEAT CROP.

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 SRS State Offices in cooperation with the National Weather Service.

ALABAMA: Temperatures averaged near normal. Rainfall varied up to 2.00 in. southeast and northern portions to zero other areas.

Soil moisture mostly short, some adequate. Fieldwork: 5.4 days. Corn: Mature, all; harvested 59%, 61% 1981, 40% average. Soybeans: Setting pods 97%, 94% average; turning yellow 12%, 19% 1981, 23% average. Cotton bolls open 27%, 29% 1981, 19% average. Sorghum harvested 25%. Peanuts dug 17%, 6% 1981, 7% average. Conditions: Corn, peanuts, cotton good; sorghum, soybeans, pastures and livestock fair to good.

ARIZONA: Sunny, hot weather past week, thundershower activity minimum except 4th over Mogollon Rim, White Mountains northward. Moisture amounts were between 0.10 and 0.50 in., locally over 0.75 in. Average temperatures 2 to 10° above seasonal normals.

Insect problems increased most cotton fields. Maricopa County insect controls for tobacco bud worm, boll worm, boll weevils. Yuma area spraying boll weevil. Recent rains, humid weather caused cotton boll rot. Harvest corn for grain underway. Sorghum crop progress all stages of growth. Guar growing well all stages, increased insect problems. Alfalfa crop growth, cutting activities average to below average. Recent rains set crop progress behind. Farmers central, western parts State continued land preparations for planting cool mixed

vegetables. Planting underway for cauliflower, broccoli, other vegetables. Lettuce planting active Maricopa, Pinal, Yuma Counties. Fall melon crop making normal progress Mohave, Yuma Counties. Summer watermelon picking reaching peak Cochise County, almost finished central areas. In Cochise County, apple, carrot harvests getting started. Lemon picking continued Yuma area. Citrus groves good condition, recent rains had favorable response on new crop. Ranges, pastures across State fair to good condition. Yuma County very poor condition. Livestock, fair. Stock water supplies adequate most counties. Northeastern areas surplus water supplies, shortages Santa Cruz County, most Desert range areas.

ARKANSAS: Warm temperatures first of week, cool temperatures end of week. Highest temperature 99°, lowest 48°. All departures ranged from -4 to +2°. Most rainfall 0.93 in., least zero.

Over six days suitable for fieldwork. Soil moisture adequate. Crop growth moderate. Soybean condition good; blooming 94%, 95% 1981, 93% average; setting pods 86%, 87% 1981, 80% average; turning yellow 11%, 6% 1981, 21% average. Rice good condition; virtually all headed, 94% 1981 and average; ripe 39%, 32% 1981, 32% average; harvested 9%, 6% 1981, 5% average. Cotton good condition; bolls opening 45%, 31% 1981, 28% average. Boll worm activity heavy most areas. Corn harvested 64%, 40% 1981, 32% average. Sorghum harvest 24%, 33% 1981, 31% average. Pastures average. Cattle good condition.

CALIFORNIA: There were hot temperatures in southern California last week. The south Coast was 5° above normal and the Deserts were 4° above normal. All of California was warm, only the Sacramento Valley was below normal for the week. Precipitation was very light and very spotty, but occurred in every zone but one, the Deserts.

Rice fields continue progress, 75% headed, 85% last year, 84% average. Cotton making satisfactory progress, more open bolls. Irrigation practices beginning to wind down. Verticillium wilt still hampering some areas San Joaquin Valley. Dry bean harvest beginning early planted beans. Some cutting corn silage. Safflower harvest winding down. Alfalfa haying continues. Golden Delicious, Red Delicious apple harvest Sebastopol area. Local market sales slow. Raisin grape laying continued. Wine grape harvest picking up. Table grape harvest continued. Maturity and sugar content improving most areas. Prune harvest 80% completed. Almond harvest continued. Artichokes seasonally light supply. Broccoli, cauliflower fairly heavy supply. Cantaloup, mixed melon harvest active. Carrot harvest moderate. Celery harvest light. Harvest sweet corn, cucumbers active. Lettuce supplies heavy, some curtailment harvest due market condition. Very light digging fall potatoes. Strawberry harvest continues. Sweetpotato digging very light. Market tomato harvest active. Processing tomato harvest peak levels mountain ranges providing good feed. Supplemental feeding continues. Egg production improved with cooler weather. Fire danger continues high many districts. Calving beginning Central Coast.

COLORADO: First six days only a few showers, mainly in southeast. On 5th rain fell over most of State. The central mountains received up to 6.00 in., including some snow; west averaged 0.25 in., east and San Luis Valley 0.20 in. Statewide temperatures were 2 to 4° above normal.

Scattered showers slowed the winter wheat, small grain, and hay harvest. Row crop prospects continue to improve. Winter wheat 99% harvested, last year 92% ripe, and 81% harvested: Dry beans 6% cut, last year 4% cut. Corn progressing normally, 76% in dough stage, and 31% dented. In 1981, 77% in dough, and 40% dented. Silage harvest just begun. Sorghum, 88% headed, 30% turning color. Last year 86% headed and 19% turning color. Second cutting alfalfa 83% and third cutting 64% complete. In 1981, second cutting 88% and third cutting 40% complete. Moisture generally adequate. Six days suitable for fieldwork. Livestock in good condition.

FLORIDA: Early week was relatively dry with only a few widely scattered thundershowers. However, a weak cool front moved into north Florida on the 4th, then became stationary and dissipated over the central Peninsula on the 5th, bringing a return to a normal summertime thundershower distribution. Rainfall amounts generally 0.25 to 0.75 in., mainly late week. Temperatures averaged near normal.

Soil moisture variable, mostly adequate, some wet areas following weekend rains, some dry areas in Panhandle. Corn harvest declining, peanut harvest increasing. Soybean condition variable, showing stress dry areas, fair to good other areas. Cotton good progress. Haymaking increasing where dry enough. Sugarcane good to very good condition. Tobacco marketing continues. Pasture condition varied, good to excellent most areas, poor to fair Panhandle. Cattle condition mostly good. Citrus tree condition excellent. Rainfall light, moisture adequate, irrigation limited. Fruit sizes advanced, early citrus showing color break, several fresh fruit packing houses running, more starting this week. Hot days, mostly scattered showers prevailed vegetable areas. Land preparation very active. Irrigation has started some areas. Plantings of eggplant, celery, cucumbers, peppers, tomatoes continued to increase. Plant life is mostly good. Sweet corn seeding continues in Everglades. Snap beans, cabbage, squash plantings active but acreages small currently. Strawberry land preparation active west central area.

GEORGIA: Rainfall totals averaged 0.50 to 1.00 in., with locally heavy amounts of 2.00 to 3.00 in. over the northern half of the State. Average temperatures ranged from 1° below normal to 3° above normal. Average temperatures were in the low 70's mountains to 80's south. The 4th and 5th cool and very dry in the north and central with no rain. The southern third was mild with average rainfall amounts near 0.50 in.

Soil moisture: 9% very short, 51% short, 33% adequate, 7% surplus. Five days suitable for fieldwork. Haying, silage and harvesting active. Spraying peanuts, soybeans and pecans. Corn 28% fair, 59% good, 13% excellent; 100% dent stage this year and last, 98% mature, 99% last year; 72% harvested, 73% last year, 56% average. Cotton 2% poor, 38% fair, 57% good, 3% excellent. Bolls open 30%, 48% last year, 45% average, 1% harvested, 4% last year, 3% average. Peanuts 2% very poor, 32% fair, 63% good, 3% excellent, 15% dug, 8% last year, 7% average, 7% threshed, 3% last year and average. Spraying for leafspot. Soybeans 9% poor, 35% fair, 51% good, 4% excellent. Moisture stress causing concern. Spraying for worms, 99% blooming, 96% last year, 94% setting pods, 89% last year, 9% dropping leaves, 5% last year. Tobacco 24% fair, 72% good, 4% excellent, 99% harvested, 97% last year, 96% average. Apples 18% very poor, 24% poor, 37% fair, 21% good, 67% picked this year and last, 60% average. Pecans 6% poor, 35% fair, 54% good, 4% excellent. Spraying continues for insects. Hay 3% poor, 32% fair, 59% good, 6% excellent. Hay and silage harvest continues very active. Pastures 5% poor, 33% fair, 57% good, 5% excellent. Cattle and hogs good.

HAWAII: Wet weather continued in some parts of Island chain. Crop progress was hampered by occa-

sional heavy rains. Spray programs were increased to reduce disease incidence. Vegetables: Supplies light. Wet weather not conducive to good progress. Light, puffy heads of head lettuce and head cabbage crops reduced yields. Other crops also suffered losses from spoilage. Bananas: Rains kept moisture level adequate. Supplies light. Papayas: Supplies light. Spraying stepped up to prevent diseases from the wet weather. Pineapples: Harvesting light. Sugar: Steady harvesting but rains slowed field activities some sections. Pastures: Rains beneficial. Generally fair to good.

IDAHO: Low pressure early in the week brought scattered showers with cooler temperatures. High pressure, at the end of the week, raised temperatures and ended precipitation. Precipitation totals covered a wide range with the north and southwest receiving from less than 0.10 in. up to 0.32 at Kuna. The southeast was considerably wetter with several stations totaling over 1.00 in. The most recorded was 1.26 in. at Grace. Temperatures ranged from 3° below normal in the north while the south varied from near normal to 5° above normal. High was 98° at Lewiston, Moscow and Mountain Home. The lowest temperature was 26° at Stanley.

Small grain harvests continued at a rapid pace in most areas, slowed by rain in east. Winter wheat harvest advanced to 88%, 95% in 1981, 87% average. Spring wheat 69% harvested, 89% last year, 67% average. Barley fell further behind to 64%, versus 70% average. Early chipping potato contracts being filled, as 2% were harvested; 27% last year and average. Second cut alfalfa hay 89% complete. Sweet corn for processing 77% harvested, 59% in 1981. Onions 23% harvested and dry beans 8% combined. Moisture needed in north for fall planting, other areas adequate.

ILLINOIS: Temperatures normal to 3° below normal. This was the second straight week of below normal readings in many sections. A cool period developed at the end of the week with minimum temperatures falling into the 40's in the northern section of the State. A few new minimum temperature records were set in this area. Precipitation moderate to heavy (0.30 to 3.00 in.). The southern area of the State recorded the heaviest rainfall.

Corn 40% excellent, 57% good, 3% fair. Corn 100% dough, 100% 1981, 100% average; 85% dent, 68% 1981, 80% average; 25% mature, 15% 1981, 42% average. Soybeans 26% excellent, 68% good, 6% fair. Soybeans 99% setting pods, 97% 1981, 99% average; 38% turning yellow, 17% 1981, 32% average; 10% dropping leaves, 4% 1981, 10% average. Alfalfa 19% excellent, 73% good, 8% fair; 74% third crop cut, 74% 1981, 73% average. Pastures 19% excellent, 65% good, 15% fair, 1% poor. Soil moisture 11% short, 78% adequate and 11% surplus. Days suitable for fieldwork: 4.3.

INDIANA: Fieldwork averaged 4 days. Topsoil and subsoil moisture adequate. Corn 25% mature, 1981 5%, average 20%. Corn 90% dented, 1981 40%, average 70%. Corn 100% in dough, 1981 85%, average 97%. Soybeans 40% turning yellow, 1981 10%, average 30%. Soybeans 10% shedding leaves, 1981 2%, average 10%. Soybeans 100% setting pods, 1981 95%, average 100%. Wheat land 30% plowed, 1981 30%, average 35%. Tobacco 30% harvested, 1981 20%, average 30%. Silos 20% filled, 1981 10%, average 20%.

IOWA: A warm week with spotty showers west and moderate-to-locally heavy showers eastern two-thirds of State. Temperatures averaged from 1° above normal northwest to 5° above normal southwest and west central.

Topsoil moisture: 16% surplus, 82% adequate, 2% short. Subsoil moisture: 13% surplus, 86% adequate, 1% short. Corn in or past milk stage: 95%, last year 100%, normal 100%. Corn in or past dough stage: 78%, last year 91%, normal 95%. Corn in or past dent stage: 45%, last year 63%, normal 73%. Corn mature: 7%, last year 10%, normal 24%. Soybeans setting pods: 97%, last year 100%, normal 100%. Soybeans with leaves turning: 9%, last year 31%, normal 45%. Third crop alfalfa hay harvested: 67%, last year 79%, normal 71%. Fieldwork: 3.9 days suitable. Crop conditions: Corn, soybeans, hay, and pasture mostly good to excellent. Livestock in good condition.

KANSAS: Widely variable precipitation averaged 0.60 to 0.90 in. over central third, northwest and west central, less than 0.40 in. elsewhere. Temperatures averaged 82° southwest, 80° south central, 76 to 79° elsewhere -- 7 to 9° above normal west, 4 to 6° above normal central and east.

Corn 90% dough, 95% last year and average; 60% dent, 65% last year, 70% average; 20% mature, 30% last year, 35% average. Sorghum 80% headed, 90% last year and average; 15% coloring, 35% last year, 45% average. Soybeans 90% blooming, 100% last year; 70% podding, 85% last year; 5% dropping leaves, 5% last year. Wheat 2% planted, 1% last year, 3% average. Topsoil moisture short 4 southwestern districts, short to adequate elsewhere; subsoil moisture short to adequate west and south, adequate elsewhere. Pasture and range continue good to excellent, except 3 southwestern districts very dry. Fieldwork: 5.5 days suitable.

KENTUCKY: Abundant rainfall over parts of State, with up to 8.00 in. of rain measured and some flooding reported in south central sections. South half was drenched with 2.00 to 4.00 in. of rain. Over north rainfall varied from 0.66 to around 3.00 in. Temperatures averaged 1 to 2° below normal as cool readings followed midweek rains.

Days suitable for fieldwork limited to 1.5. Soil moisture 26% adequate, 74% surplus. Heavy rains caused localized damage to corn, soybeans and tobacco. Burley tobacco 45% cut. Housing and cutting delayed by rain, but still on schedule with last year and average. Overall burley prospects good. Some concern over houseburn. Dark types also 45% cut. Corn 33% mature, harvesting beginning as fields become dry enough to support machinery. Soybeans, 14% dropping leaves compared with 5% last year and 8% average. Double crop beans still blooming and podding and rains were beneficial. First 3 weeks of August were dry. Fall pasture prospects good.

LOUISIANA: Rainfall light, scattered; heavier southwest and south central. Temperatures generally 2 to 3° above normal.

Soil moisture short to adequate. Days suitable: 6.0. Corn harvested 83%, 78% 1981, 63% average. Rice ripe 82%, 90% 1981, 88% average; harvested 70%, 80% 1981, 76% average. Cotton open bolls 46%, 62% 1981 and 33% average; condition fair to good. Soybeans setting pods 92%, 93% 1981 and 92% average; beans turning 19%, 20% 1981, 17% average; shedding 8%, 6% 1981; harvest beginning south; condition fair to good. Sorghum turning color 97%, 92% 1981, 87% average; ripe 89%, 77% 1981, 58% average; harvested 72%, 57% 1981 and 38% average. Sweetpotatoes harvested 35%, 42% 1981 and 35% average; condition good. Sugarcane planted 21%, 30% 1981, 11% average; condition good. Pecans rated fair. Vegetables rated fair. Last cutting hay 46%, 15% 1981. Pastures fair to good. Cattle good.

MARYLAND AND DELAWARE: Continued cool and dry. Temperatures averaged 2° below normal. Highs in

90's, lows in 30's. Precipitation averaged 0.33 in. Range 0 to 1.26 in.

Delaware: Soil moisture short. Fieldwork averaged 7 days. Corn in good condition; 75% in dent, 1981 75%; 10% mature, 1981 10%. Soybeans in good condition: 80% podding, 1981 80%; 10% turning, 1981 10%. Peach harvest 95% complete.

Maryland: Soil moisture mostly short to adequate. Fieldwork average 6 days. Corn in good condition: 85% in dough, 1981 95%; 70% dented, 1981 80%; 25% mature, 1981 20%. Soybeans in good condition: 95% bloomed, 1981 95%; 80% podding, 1981 80%; 10% turning, 1981 10%. Tobacco condition good to excellent, 65% harvested, 1981 75%. Harvest progress of peaches 90%, watermelons 75%, cantaloups 85%.

MICHIGAN: Even though temperatures were warmer than the previous week they were 2 to 3° below normal except in the southern sections where average temperatures were near normal. Precipitation was light in the south and moderate elsewhere.

Warmer temperatures aided crop development. Nearly six days were suitable for fieldwork. Soil moisture supplies adequate. Corn development normal with 60% dented, 55% last year and 61% normal. Corn mature 5%, 5% 1981, 4% average. Soybeans have set pods and beginning to drop leaves, 5% this year, 5% last year, 7% normal. Dry bean harvest has begun with about 5% crop harvested. Vegetable harvest continues with tomato, sweet corn and cucumbers in volume.

MINNESOTA: Temperatures were near normal. Temperatures averaged from the mid 50's in the northeast to the mid 60's southwest. The highest reported temperature was 93° at Browns Valley. The lowest reported temperature was 37° at Hibbing, Itasca and Fosston. Rainfall amount was generally higher across the south. The south central portion of State averaged almost 2.00 in. The northwest averaged only 0.09 in. Largest totals were 2.99 in. at Fairibault and 2.44 in. at Becker.

Rain meant enough topsoil moisture for rest of growing season in most of State. Some dry areas persist. Hail damage in west central 31st. Freeze reports received show light to heavy damage in northwest district; crops affected were corn, soybeans, dry edible beans, sunflowers, potatoes, and late spring wheat. Topsoil moisture: 4% very short, 10% short, 74% adequate, 12% surplus. Cut or swathed: Spring wheat 93%, 1981 99%, normal 95%. Combined: Spring wheat 81%, 1981 97%, normal 81%; oats 96%, 1981 98%, normal 92%; barley 94%, 1981 99%, normal 94%. In milk: Field corn 90%, 1981 99%, normal 98%. In dough: Field corn 86%, 1981 94%, normal 89%. Denting: Field corn 42%, 1981 40%, normal 61%. Turning yellow: Soybeans 35%, 1981 27%, normal 48%. Shedding leaves: Soybeans 6%, 1981 8%, normal 14%.

MISSISSIPPI: Temperatures mostly below normal in north and above normal in the south. Extremes: 49 and 98°. Cold front on the 2nd resulted in numerous showers and thunderstorms but mostly in north. Greatest 24-hour and weekly total 2.08 in.

Soil moisture adequate north, adequate to short central, short south. Fieldwork: 6.0 days suitable. Cotton 70% acres with open bolls, 82% last year, 52% average; harvest just underway; condition good. Soybeans 95% podding, 95% last year, 93% average; 3% shedding, 7% last year and average; condition good. Rice 97% headed, 98% last year, 97% average; 8% harvested, 14% last year, 13% average; condition good. Corn 30% harvested, sorghum 28%, hay 88%, peanuts 20%, sweetpotatoes 20%, corn silage 88% and sorghum silage 73% harvested. Pasture condition good.

MISSOURI: Temperatures averaged near normal, except in western Ozarks where temperatures were 4° above normal. Precipitation averaged over 1.00 in. Central Missouri received 5.00 to 6.00 in. of rain that caused some flooding.

Fieldwork: 1.8 days suitable. Corn 91% in dough stage or beyond, last year 100%, normal 87%. Corn 72% dented, last year 83%, normal 77%. Corn 25% mature, last year 31%. Corn 2% harvested, last year 5%, normal 8%. Grain sorghum 91% headed or beyond, last year 86%, normal 94%. Sorghum 33% mature, last year 24%, normal 29%. Sorghum 6% harvested, last year 3%, normal 5%. Soybeans 93% blooming or beyond, last year 90%, normal 96%. Soybeans 79% setting pods, last year 74%, normal 87%. Third cutting alfalfa hay 74% harvestd, last year 85%, normal 83%. Cotton 30% with open bolls, last year 14%, normal 30%. Corn condition 9% excellent, 69% good, 22% fair. Soybean condition 5% excellent, 51% good, 43% fair, 1% poor. Condition of grain sorghum 3% excellent, 62% good, 34% fair, 1% poor. Pasture condition mostly good. Topsoil moisture supply mostly surplus.

MONTANA: Scattered showers first of week, otherwise mostly dry. North central mostly dry all week, some of northeast received from 0.50 to 1.50 in. rain. Temperatures 1 to 7° above normal, mostly warm days and cool nights. Southwest, central and south central had greatest departures from normal.

Topsoil moisture short to adequate. Subsoil moisture mostly adequate. Five days suitable for fieldwork. Crop progress compared with last year and normal: Percent harvested winter wheat 85, 100, 95; spring wheat 50, 85, 75; barley 60, 80, 70; oats 65, 85, 75; second cutting alfalfa hay 70, 85, 80. Percent of winter wheat acreage seeded compared with last year and normal 5, 5, 15. Prospective supplies of hay and forage for coming winter adequate.

NEBRASKA: Precipitation: Amounts averaged 0.60 in. over east and south central. Less than 0.10 in. over Panhandle. Temperatures: 4 to 5° above normal.

Corn good; dough 75%, 90% last year and 94% normal; denting 30%, 50% last year and 65% normal. Corn crop development near two weeks later than normal. Soybeans good; pod set 95%, 100% last year and normal; turning color 4%, 15% last year and 30% normal. Sorghum good; headed 98%, 100% last year and normal; turning color 10%, 55% last year and 65% normal. Sorghum development a full three weeks behind normal. Seeding of 1983 winter wheat crop 5%, 10% last year and normal. Third cutting of alfalfa 75%, 80% a year ago and 85% normal. Pasture and range feed supplies adequate. Topsoil moisture mostly adequate to short. Subsoil supplies adequate. Days suitable for fieldwork: 5.0.

NEVADA: Another week of warm weather. Although clouds passed over State during much of week and some precipitation fell early and late, temperatures generally warm. Most precipitation recorded north. Temperature extremes: 110 and 33°.

Third cuttings alfalfa hay well along northern two thirds State. Fifth cuttings about completed extreme south. Garlic harvest windup stage main producing area. Ranges and pastures remain excellent condition.

NEW ENGLAND: Temperatures averaged near normal. Northern valleys had frost. Most of the area received above normal rainfall, with the heaviest rainfall from the 1st through the 3rd.

Six days suitable for fieldwork. Soil moisture adequate. Maine potatoes: Topkilling most varieties, full scale harvest next week, quality ranges from very poor to very good. Second crop hay harvest: 90%, 1981 80%, quality about average. Silage corn may not mature before hard

frost. Blueberry harvest virtually over. Cranberries in Mass. coloring well, no frost, record harvest expected. Summer vegetable harvest past peak. Fall vegetables in good condition.

NEW JERSEY: Cool weather continues with temperatures averaging 4° below normal. Extremes were 39° at Long Branch on 5th and 89° at Toms River on 2nd. Rainfall averaged 0.98 in. north, 0.47 in. central and 0.43 in. south. The heaviest 24-hour total was 1.01 in. at Newton on 2nd to 3rd. Soil moisture, in percent of field capacity, averaged 63% north, 66% central and 68% south. Four inch soil temperatures averaged 70° north, 71° central and 74° south.

Soil moisture adequate to short. Cool nighttime temperatures slowing late season crops but coloring apples and cranberries. Summer vegetable supplies tapering off. Fall crop harvest increasing. Irish potato harvest continues. Harvest of Red Delicious apples begun in South Jersey. Good peach volume moving to market. Corn silage making becoming general. Some late planted field corn and soybeans only fair. Sweetpotato digging light.

NEW MEXICO: Average temperatures for the week were above normal at most locations. Shower activity continued, however, rainfall totals were light.

Soil moisture short to adequate. Cotton in good condition and progressing well. Fifteen percent of the fields setting bolls compared to 20% of the fields last year. Alfalfa fields in good condition. Fourth cutting 60% complete. Corn in good to excellent condition. Irrigated grain sorghum in good condition with the dryland crop in mostly fair condition. Winter wheat seeding remains active with land preparation continuing in some areas. Green chile harvest continuing. Fall lettuce in good condition. Pecans in good condition and progressing about normal. Ranges in good condition. Cattle and sheep in good condition.

NEW YORK: Cool, dry week. Record lows, scattered frost 29th.

Corn growth slow. Early silage harvesting increasing. Oat harvest 85% complete, 85% 1981, 87% average. Second cutting alfalfa 90% cut, 90% 1981, 91% average. Third cutting alfalfa 32% in, 37% 1981, 34% average. Regrowth slow. Upstate potato harvest moving well, quality good. Cool weather slowed Long Island vegetable crop growth. Harvest of Paula Red apples active near Lake Champlain, nearly done Lake Ontario. Bartlett pear harvest about done.

NORTH CAROLINA: Temperatures: 1 to 3° below normal with largest deviations in the coastal plains. Precipitation: Varied from zero to above 2.00 in.

Fieldwork: 5.7 days suitable. Soil moisture: 4% very short, 50% short, 43% adequate and 3% surplus. Conditions: Pasture, tobacco, cotton, peanuts, soybeans, sweetpotatoes and sorghum, mostly fair to good. Corn good to excellent. Apples poor to fair. Harvest: Sweetpotatoes 13%, 1981 11%, 12% average; sorghum 5%; flue-cured tobacco 90%, 1981 83%, 77% average; burley tobacco 21%, 1981 43%, 38% average; corn for grain 16%, 1981 22%; corn for silage 65%, 1981 73%; apples 43%, 1981 29%, 26% average; hay 84%, 81% 1981 and average. Phenological stages: Cotton opening bolls 35%, 1981 61%, 42% average; corn soft dough 98%, 100% 1981 and average; corn dent 94%, 1981 95%, 93% average; corn mature 88%, 1981 and average 80%; soybeans bloomed 92%, 1981 93%, 88% average; soybeans setting pods 80%, 1981 79%, 69% average. Major farm activities: Flue-cured tobacco harvest, cutting silage and hay, combining corn for grain and marketing tobacco.

NORTH DAKOTA: Typical weather for the season with average temperatures from 2° above normal southeast to 3° below normal northwest. Lowest temperature was 37° northeast on 30th. Highest was 92° central on 4th. Precipitation generally below normal east and above normal west. Most precipitation was 1.65 in. southwest.

Favorable harvest weather latter part of week allowed good progress on small grain harvest. By 5th, most farmers were within about a week of completion. Yield and quality mostly good but some losses in quality noted in western areas. The percents combined by 5th with last year and average were: Hard red spring wheat 75, 92, 74; durum 66, 87, 60; barley 93, 96, 87; oats 87, 93, 84. Average of 6.0 days suitable for fieldwork. Row crops mostly fair to good condition. Damage from frost becoming apparent. Most significant in corn, dry beans and soybeans. Development behind normal, especially in corn and soybeans. Flax, potato, sugarbeet and dry bean harvests underway with activity expected to increase this coming week.

OHIO: Low readings into the 30's north. High temperatures averaged in 70's. Cool week kept base 50 growing degree day accumulations 15 to 20 below normal northern. Seven day totals ranged from only 100 at Wooster to 138 at Dayton. Rainfall light northwest; heavy showers elsewhere. Stations reported less than 0.25 in.

Frost in northeast sections caused slight damage to corn, soybeans, tomatoes and other fruits and vegetables. Major activities included third cutting of all hay types, potato digging, apple picking, harvesting tomatoes for processing, filling silos, fall plowing and preparing machinery for harvest. Corn in dough 100%, 85% 1981, 90% average. Corn dented 85%, 40% 1981, 55% average. Corn mature 20%, 5% 1981, 15% average. Soybeans setting pods 100%, 100% 1981, 100% average. Soybean pods set, leaves green 100%, 70% 1981, 85% average. Soybean leaves turning 50%, 15% 1981, 20% average. Soybean leaves shedding 15%, less than 5% 1981, 5% average. Tobacco topped 90%. Tobacco harvested 35%, 15% 1981, 30% average. Alfalfa - 3rd cut 85%, 55% 1981, 50% average. Other hay - 3rd cut 65%. Days favorable: 6. Pasture condition fair. Soil moisture 46% short, 54% adequate.

OKLAHOMA: Temperatures averaged from 2 to 6° above normal. Rainfall averaged around 0.25 in. in the east and generally less than 0.10 in. central and west.

High temperatures, breaking the 100° mark early in the week, stifled growth and development of most field crops, particularly in the west where extremely dry conditions have created severe stress. Cooler temperatures at the end of the week brought some relief, but rain needed in most areas. Sorghum heading: 85%, 100% 1981, 100% average. Cotton setting bolls: 85%, 95% 1981, 95% average. Days suitable for fieldwork: 6.5.

OREGON: Temperatures 3 to 4° above average. Precipitation amounts up to 0.50 in. in all areas except coast and extreme eastern portions, where less than 0.10 in. fell.

Wheat harvest mostly complete except high elevations. Some fall seeding started. Hops, red clover, sugarbeet seed harvest continues in Willamette Valley. Mint harvest winding down. Third and fourth cutting alfalfa and other hay being cut. Bartlett pears finishing as Anjous are starting. Gravenstein apples about over. Prunes to start this week in west. Peaches virtually complete. Evergreen blackberries half done. Cranberries maturing rapidly. Filberts and walnuts progressing normally. Onions being pulled. Potatoes continue in full swing at Hermiston-Boardman area, and Malheur County; late areas preparing for harvest. Processing vegetables continue in good volume. Livestock mostly good condition. Range and

pastures dry except on irrigated and at high elevations.

PENNSYLVANIA: Cool, sunny and dry beginning and end of week with seasonable temperatures. Showers and thunderstorms mid-period. Temperatures averaged 2 to 4° below normal with extremes 33 and 90°. Rainfall 0.25 to 0.75 in. most sections with up to 1.25 in. several western counties.

Five days suitable. Moisture short to adequate. Activities: Baling straw; plowing; seeding alfalfa; planting wheat and barley; making hay; and harvesting tobacco, corn silage, peaches, apples, early grapes, cantaloups, potatoes, sweet corn, cabbage, and tomatoes. Tobacco 55% harvested, last year 57%. Potatoes 38% harvested, last year 42%. Corn 86% in or past the dough stage with 40% dented; last year 88% in or past the dough stage with 44% dented. Corn silage 8% harvested, same as last year. Fall plowing 43% complete; last year 36%; average 36%. Barley 9% planted, last year less than 5%. Wheat 9% planted, last year 5%. Harvest of second crop alfalfa virtually complete, a week later than last year. Third crop alfalfa 55% harvested, last year 56%. Fourth crop alfalfa 10% harvested, last year 8%. Second crop Clo-Tim 91% harvested, last year 84%. Quality of hay made fair to good. Feed from pastures average to below average.

PUERTO RICO: Island average rainfall 1.54 in. or 0.22 in. below normal. Highest weekly total 5.28 in. Highest 24-hour total 2.25 in. Temperatures averaged about 82 to 81° on Coasts and 77° Interior Divisions. Extremes: 94 and 58°.

SOUTH CAROLINA: Temperatures 1 to 3° below normal. Showers too scattered and light to relieve dry conditions.

Soil moisture short. Fieldwork: 6 days suitable. Corn condition good; 98% mature, 95 last year, 94 average; 57% harvested, 52 year ago, 52 average. Cotton fair to good, insect populations increasing, plants cutting out due to dry weather; 55% open bolls, 56 last year, 55 average. Soybeans in fairly good condition, need rain to improve prospects; 97% blooming, 96 last year and average; 85% setting pods, 82 last year, 85 average; 7% turning leaves, 2 a year ago. Tobacco 98% harvested, 95 last year, 94 average. Stalks destroyed as harvesting complete. Apples poor, 53% harvested, 32 last year, 46 average. Smallest crop since 1967. Grapes fair, 67% harvested, 41 last year, 71 average. Fall snap beans 73% planted, 77 a year ago, 89 average. Fall cucumbers 95% planted, 93 last year; 1% of the acreage harvested. Fall hay and pastures fair to good but in need of rain, with 59% of the hay crop harvested, 38 a year ago, 43 average.

SOUTH DAKOTA: Temperatures averaged normal to 4° above. Extremes: 98 and 34°. Precipitation mostly above normal. Up to 3.99 in.

Topsoil moisture critically short in north central and much of northwest and northeast. Short in band from northwest through part of central to lower portion of northeast. Also short in southwest and in southeast along Missouri River. Surplus in band through east central. Adequate elsewhere. Five days suitable. Main activities fall tillage, moving hay, winter grain seeding, and corn silage cutting. Grasshoppers, greenbugs and sunflower seed weevil infestations continue to be a problem. Corn and sorghum maturity week behind. Soybeans and sunflowers near normal. Flax ripe 95%, 1981 95%, average 94%. Flax harvested 74%, 1981 84%, average 77%. Sunflowers blooming 94%, 1981 95%, average 98%. Soybeans setting pods 96%, 1981 98%, average 100%. Soybeans shedding leaves 10%, 1981 22%, average 22%. Corn in dough 74%, 1981 64%, average 87%. Corn dented 33%, 1981 49%, average 58%. Sorghum headed 95%, 1981 94%, average 97%. Sorghum showing color 30%, 1981 66%, average 52%. Corn mature 9%, 1981 9%, average 19%. Soybeans mature 3%, 1981 4%, average 3%. Sorghum mature 4%, 1981 11%, average 9%. Sunflowers mature 24%, 1981 32%, average 22%.

TENNESSEE: Fieldwork: 2.4 days available. Soil moisture 62% surplus, 30% adequate, 8% short. Corn dented 96%, 1981 100%, average 94%; mature 31%, 1981 54%, average 41%; harvested 5%, 1981 3%, average 5%. Cotton open bolls 18%, 1981 8%, average 14%. Soybeans setting pods 87%, 1981 84%, average 80%; shedding leaves 4%, 1981 2%, average 4%; mature 0%, 1981 1%, average 2%. Tobacco harvested: Burley 57%, 1981 70%, average 60%; dark-fired 46%, 1981 66%, average 57%; dark air-cured 46%, 1981 74%, average 53%.

TEXAS: First week cold front pushed through State producing scattered thundershowers Panhandle, Southeast, and Coast. Average temperatures 2° above normal central, eastern portions State. Average precipitation below normal north, eastern regions, ranging from 0.02 in. over High plains to 0.20 in. over East.

Range and pasture: Range, pasture condition declined further as hot, dry conditions continued. Lack of rainfall, high temperatures combined to deplete soil moisture, limit grazing. Only High Plains report fair to good grazing. Central, South Texas conditions drought-like, grazing virtually ceased. Supplemental feeding increasing. Livestock fair.

Commercial vegetables: Rio Grande Valley seeding fall vegetables active. Dry conditions caused irrigation to continue. Early seeded vegetables making good progress. Citrus groves good condition. Coastal Bend, watermelon harvest slowing, hot temperatures affecting development. Land preparation continued. San Antonio-Winter Garden area, progress fall planting continues. Dry conditions affecting development early fields, irrigation stepped up. Trans-Pecos region, producers busy making final shipments onions and potatoes. Some carrot fields germinated slowly, may be lost due to poor seed quality. East Texas, sweetpotato harvest active, dry weather affected sizing, yields. Plains, onion harvest wrapping up, movement bell peppers, cucumbers continued. Pecans continue to show effects of hot, dry weather. Droppage increased, yield outlook fair.

Crops: Effects of continuing hot, dry weather becoming more severe. Throughout State moisture short, development of most crops affected. Very little rain recent weeks combined with hot temperatures delayed fieldwork. Despite dry conditions cotton continues to progress. Moisture short most areas and droppage bolls occurred. Late planted fields Plains slow to develop. Central Texas fields developing well, harvest expected soon. Harvest East Texas active, yields affected by prolonged dryness. Cotton condition 60% of normal with 1% excellent, 23% good, 58% fair, 18% poor. Compares with 86% of normal year ago. Sorghum maturing rapidly under hot conditions. Harvest continues across State, now active Low Plains. Yields generally good on dryland, irrigated fields. Statewide condition is 78% of normal with 11% excellent, 48% good, 37% fair, 4% poor. Compared with 91% of normal last year. Corn harvest beginning High Plains. Silage harvesting active, yielding good production. Grain harvest moving northward, harvested fields Central, South Texas showing good yields. Statewide condition 86% of normal with 18% excellent, 60% good, 19% fair, 3% poor. Year ago corn crop was 94% normal at this time. Small grain planting hampered by dry conditions. Some producers dusting in fields, many delaying planting. Land preparation

active as moisture conditions permit. Peanut harvest slow, dry conditions affecting development, yields. Stands stressed, need moisture to complete development. Soybeans along Coast showing good growth, expected to develop well. Plains development slow due to dry conditions, yields expected to reflect this. Moisture needed to air proper pod filling. Cotton setting bolls 96%, 100% 1981, 100% average. Cotton open bolls 18%, 27% 1981, 26% average. Cotton harvested 14%, 9% 1981, 13% average. Rice harvested 93%, 99% 1981, 98% average. Sorghum headed 98%, 99% 1981, 99% average. Sorghum turning color 75%, 83% 1981, 81% average. Sorghum mature 68%, 69% 1981, 70% average. Sorghum harvested for grain 65%, 67% 1981, 66% average. Wheat planted all purposes 6%, 8% 1981, 10% average. Corn for grain harvested 43%, 40% 1981, 37% average. Peanuts harvested 9%, 8% 1981, 13% average. Soybeans harvested 0%, 0% 1981, 1% average. Sunflowers harvested 5%, 13% 1981, 9% average. Oats planted 2%, 0% 1981, 5% average.

UTAH: Scattered shower and thunderstorm activity northern part of State forepart of week. Accumulated amounts precipitation generally moderate to heavy. Average temperatures ranged from 3° below normal to 6° above normal. Moisture use by plants as indicated by pan evaporation near normal for season.

Small grain harvest winding down, barley 84% combined, spring wheat 87%. Major activities included hay harvest, irrigation, and preparation for fall planting. Alfalfa seed harvest less than 10% complete, crop rated fair. Onion harvest beginning. Crop in good condition. Harvest of a poor peach crop and fair pear crop continue. Peaches 40% picked, pears 15%. Livestock and range feed in good to excellent condition.

VIRGINIA: RAinfall was recorded over the southwest and southern divisions during the period--amounts were heaviest over the southern division with totals averaging slightly over 1.00 in. Temperatures during beginning of period fell into the mid 30's in northern and western divisions and 40's and 50's elsewhere in the State. Highs: 80's and low 90's. Nighttime lows moderated through the remainder of period.

The week's weather enabled farmers to continue active fieldwork which included haying, corn silage cutting, tobacco harvest, fruit picking, fall vegetable harvest and pasture and hay reseeding. Days suitable for fieldwork: 5.3. Topsoil moisture 42% short, 45% adequate, 13% surplus. Corn condition excellent: 94% dough, 95% 1981; 80% dent, 88% 1981; 60% mature, 76% 1981; cut for grain 9%, 22% 1981, 19% average; cut for silage 49%, 46% 1981. Soybean condition excellent: Blooming 97%, setting pods 80%. Insect numbers small, scouting active, need rain. Tobacco condition excellent. Flue-cured 74% pulled, 74% 1981, 55% average; fire-cured 84% cut, 72% 1981, 47% average; burley 43% harvested, 53% 1981, 32% average; sun-cured 66% harvested, 68% 1981, 48% average. Rain delayed burley harvest. Peanut condition excellent. Spraying for disease active. Peach harvest 93%. Apple harvest 21%, 16% 1981, 12% average. Pastures and hay condition very good, need rain. Alfalfa, clover and grass seeding active. Livestock in good condition. Vaccinating and other preparations for sales active.

WASHINGTON: Low pressure was the dominant feature on the weather charts during the first half of the week. A front approached the coast late 29th and crossed the State on 30th. Most of the rainfall was associated with this system. High pressure followed the front bringing warmer and dryer conditions. The hottest temperatures were generally reported on 2nd. But the pattern reversed on 3rd and cloudy skies, cooler temperatures, and some precipitation spread across State.

West: Harvesting of carrots, sweet corn, cucumbers, beans, squash, cabbage, and other leafy vegetables continues. Blueberry harvest tapering off, blackberries still ripening, and other berry growers pruning, cleaning, and fertilizing fields. Tomatoes ripening and cauliflower harvesting continues ahead of demand. Bush bean and pea harvest finished. Most vegetable seed harvested except for beet seed and spinach seed. Early filberts being harvested and silage corn harvest will begin mid-late September. Livestock in good condition. Range and pasture feeds adequate.

East: Wheat and barley harvest continues to wind down. Some fall planting of winter wheat. Hops and potatoes still being harvested. Wheat and pea yields average. Lentil yields below average. Sweet onion harvest over and fall plantings should be finished in one week. Early storage onion harvest continues. Early apples, late peaches, and pears being harvested. Bartlett pear harvest complete. D'Anjou pear harvest starting next week. Golden Delicious apple harvest started. Sweet corn harvest still in full swing. Second spraying for asparagus aphids being done. Livestock remain good condition. Some pastures dry, but overall condition of feed supplies adequate.

WEST VIRGINIA: Temperatures below normal. High 91°, low 25°. Frost reported in mountains early in the week. Precipitation above normal in northern area and below normal in the east.

Soil moisture adequate in western half of State, surplus in central and short in eastern and northern areas. Days worked: 3.3. Main activities: Hay making, maintenance, and pasture clipping. Corn, good to fair condition: 67% dough stage, 65% in 1981. Tobacco reported in fair condition, 44% harvested, 83% of normal, 31% harvested in 1981. Hay reported in fair to good condition, 2nd hay 79% harvested, 82% of normal, 82% harvested in 1981. Pastures fair to good. Peaches, fair to poor, 89% harvested. Apples, good to fair. Gardens good to fair.

WISCONSIN: Light showers occurred over much of the State during the first part of the week. More widespread showers developed across the State 31st and continued through 2nd. The 3rd and 4th were dry across the region, but widespread rain returned to the State on 5th. The heaviest fell across northern and central areas on 5th. The heaviest official amount was recorded at Park Falls which was 2.72 in. Highest temperature was 84° at Mt. Mary on the 5th, lowest was 33° at Lake Thompson on the 4th.

Fieldwork: 4 days suitable. Oat harvest continued despite showers, 90% complete, 98% last year, 91% average. Hay harvest continues with some farmers finishing up 2nd crop hay in north while farmers in the southern part of the State continue with their 3rd crop. Third crop 25% done, last year 21%. Corn crop in need of a late frost and warmer temperatures if it is going to mature. Sixty three percent of the crop in dough, 81% last year, 77% average. Only 20% of the crop at the dent stage, 41% last year, 49% average. Topsoil moisture rated at 79% short, 77% adequate and 4% surplus.

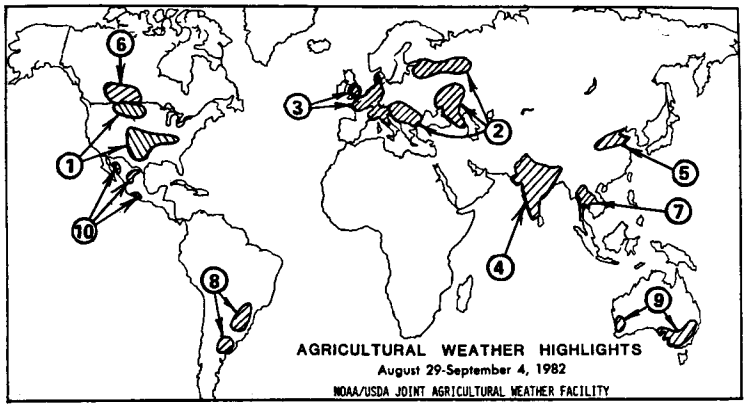
WYOMING: Stations reported seasonal temperatures. Average 3° above normal. Moran reported first freeze. Rainfall below normal.

Topsoil moisture adequate 57% State. Subsoil moisture adequate 59% State. Average 6 days suitable fieldwork. Winter wheat harvested 95%. Spring wheat mature: 90%. Spring wheat harvested: 65%; year ago 85%. Oats mature: 85%; year

(Continued on back cover)

International Weather and Crop Summary

August 29-September 4



1. UNITED STATES: Dryness slows soil preparation and planting of winter wheat, and deteoriates pastures in parts of central Plains. Heavy rains flood some croplands and delay corn harvesting from Missouri to Kentucky. Abundant sunshine aids spring wheat harvest in northern Plains.

2. USSR: Wet weather creates harvest delays in northern Europe; becoming too dry for winter grain planting in the major producing areas.

3. EUROPE: Some harvest delays in the southeast; generally adequate topsoil moisture conditions in most areas for winter grain planting.

4. SOUTH ASIA: Only limited areas receive above-normal rainfall; dryness worsening in the south and west.

5. EASTERN ASIA: Above-normal rain along China's Yellow River are unfavorable for maturing crops but improve moisture conditions for the impending winter grain sowing.

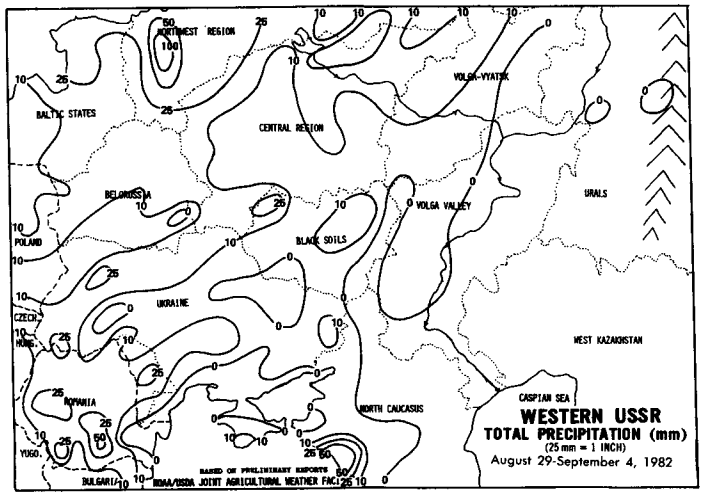
6. CANADA: Showers delay crop harvests.

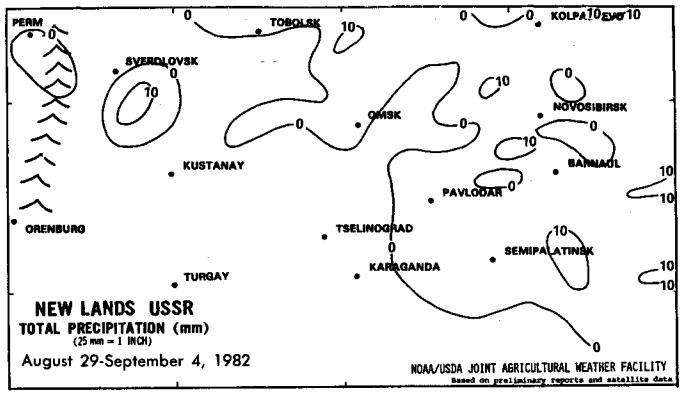
7. SOUTHEAST ASIA: Beneficial rains in central and eastern Thailand, but dryness persists in the west.

8. SOUTH AMERICA: Excessive moisture again in Rio Grande do Sul; mostly dry weather in Parana, with wheat in filling stage, and in Argentina, with wheat in early vegetative growth.

9. AUSTRALIA: Unseasonably warm, dry weather causes agricultural situation to worsen; some light showers in the south and west.

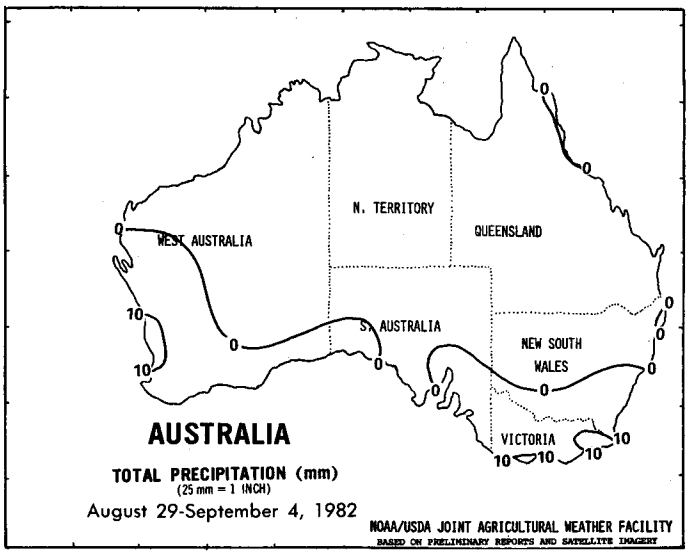
10. MEXICO: Unseasonably dry weather continues to stress livestock and immature crops, and keeps some watershed reservoirs relatively low.



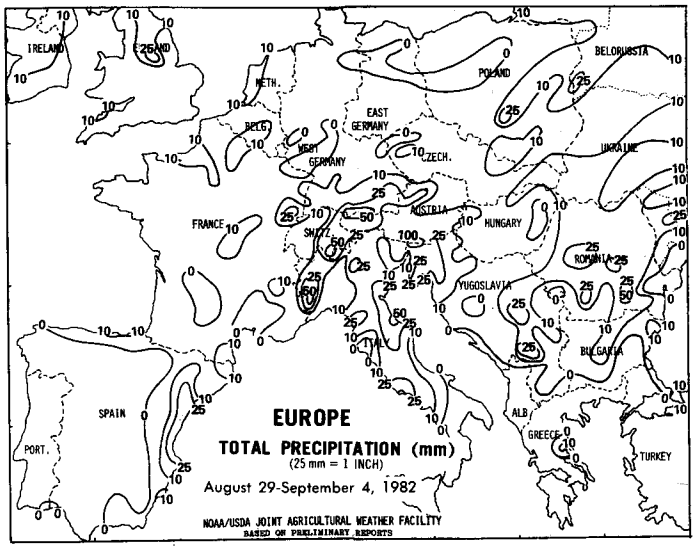


USSR: Light showers covered the western portion of European USSR with precipitation amounts ranging from 10 to 25 mm. Most of the rain came early in the week followed by dry weather, keeping harvest delays at a minimum. Heaviest amounts of rain--greater than 25 mm, fell on northern crop areas, likely creating some harvest delays. In contrast, mostly dry weather continued over the major winter grain area of the eastern Ukraine, North Caucasus, and central Volga Valley. Topsoil moisture supplies needed for proper germination and early establishment are becoming unfavorably low in these areas. Winter wheat planting normally begins in early September but can occur as late as early October. After early October, planting based on normal weather conditions may not insure proper grain establishment before dormancy, making the crop more vulnerable to winterkill. Weekly temperatures were near normal in the west and well above normal in the east.

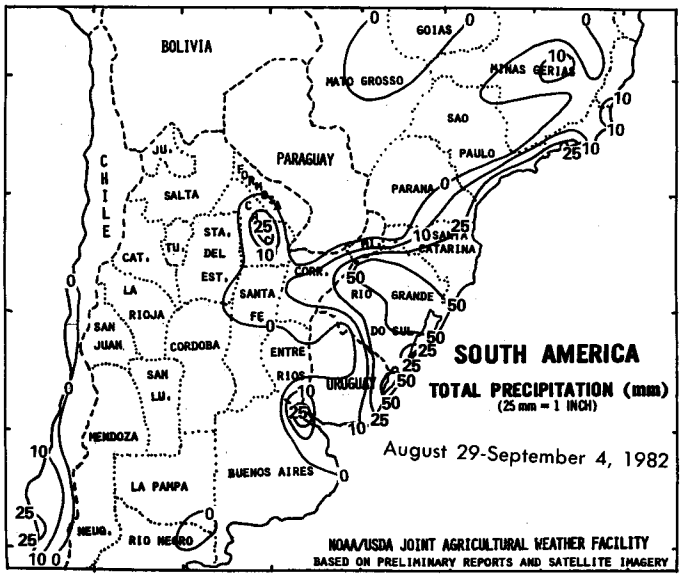
In the New Lands, dry weather covered most grain areas, aiding harvest activity. The grain harvest normally ends over the entire region by the end of September. Freezing temperatures entered extreme northern and eastern grain areas by midweek. The impact of the cold weather on the spring grain crop was probably minimal as most of the crop should be mature. Weekly temperatures were above normal in the west and below normal in the north and east.



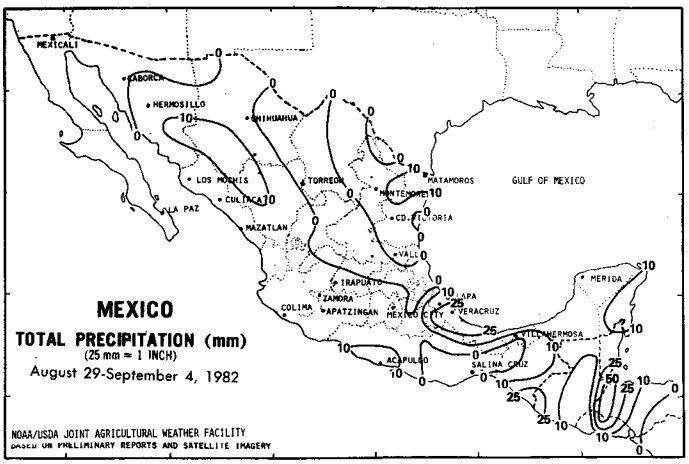
AUSTRALIA: Dry weather and well-above-average temperatures continued over the drought-stricken eastern wheat belt. Agricultural conditions deteriorated further under such adverse weather factors. Some light rain fell in southern crop areas of South Australia and Victoria, but the moisture was minimal and likely evaporated before providing any benefit to the stressed crops. A noticeable change in the large-scale weather pattern, which was responsible for the light rain in the south, offers at least some possibility of additional rainfall to revive the severely stressed crops in southern crop areas. The moisture must come soon, however, since the prolonged dry spell has not only stunted vegetative growth but also accelerated its developmental cycle. Crop conditions remain generally favorable in Western Australia.



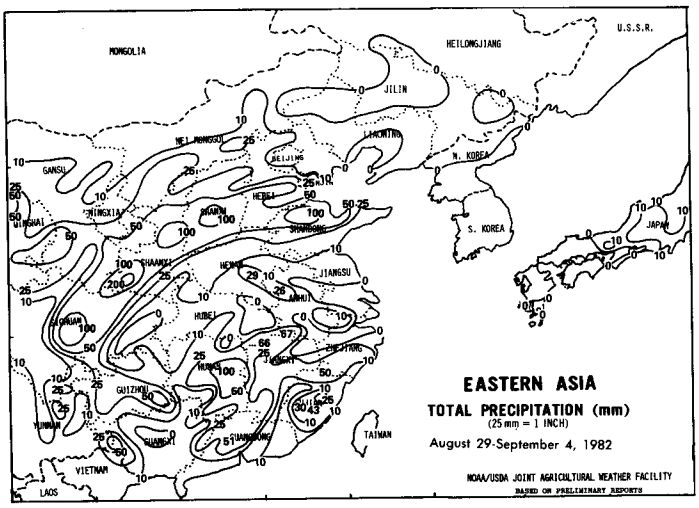
EUROPE: A large high-pressure area centered just west of France prevented any significant rainfall in northern and western crop areas. Few delays in the harvest should have resulted. In addition, winter wheat planting normally begins by early September in these areas, and topsoil moisture supplies needed for germination appear adequate. In contrast, a wet weather pattern continued in northern Italy, Romania, and eastern Yugoslavia, with precipitation amounts ranging from 10 to 25 mm. Harvest delays likely occurred early in the week when most of the rain fell. Moisture conditions for Autumn sowing of winter grains appear very good. Weekly temperatures for the region were near to below normal in the north and above normal in the south.



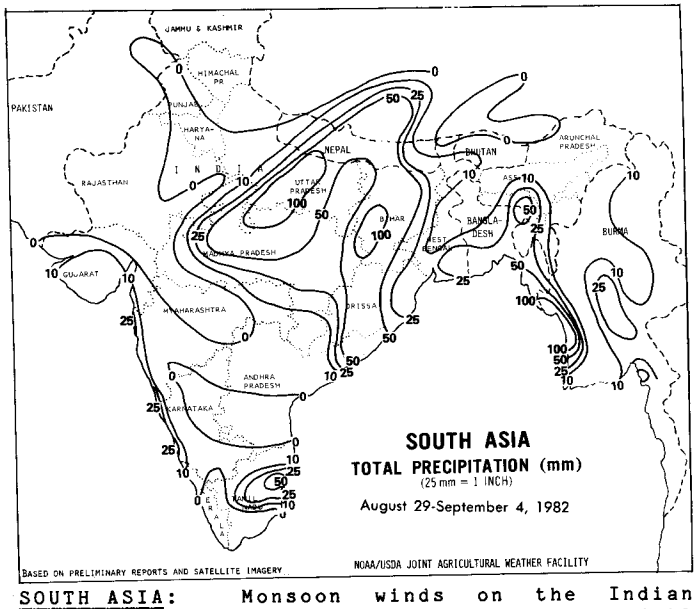
SOUTH AMERICA: Another storm, associated with a frontal system, intensified over southern Brazil early in the week, producing abundant to excessive moisture in the wheat area of Rio Grande do Sul. The persistent pattern of heavy rains in this area in conjunction with higher than average temperatures throughout the wheat areas of Brazil and Argentina has created unfavorable growth conditions for wheat. Excessive weed growth, soil erosion, and fungus disease have been reported. Drier weather prevailed in Parana's wheat area where crop development should be in the late filling stage. The rains extended into northern Argentina's crop area, benefiting soils to be planted with sorghum, cotton, and other crops. Argentina's wheat areas were mostly dry, with temperatures averaging well above the seasonal normals. Timely rains will be important for the wheat crop in upcoming weeks when heading occurs.



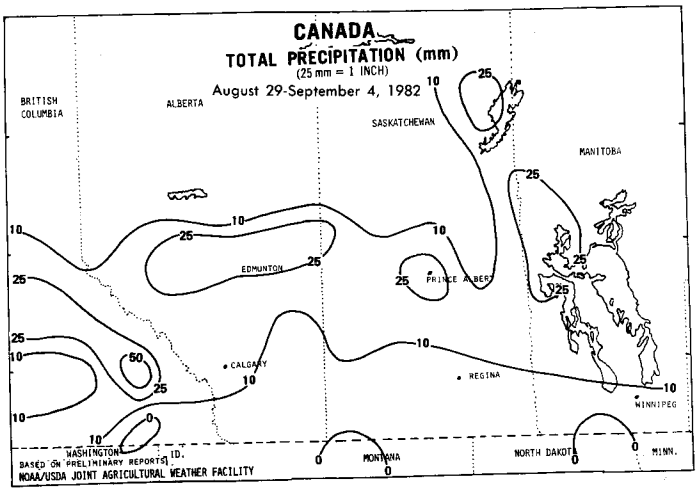
MEXICO: Unseasonably dry weather over most areas, coupled with hot temperatures, continued to stress livestock and immature crops. The prolonged dryness, with no significant rain since late spring over the northeast and parts of the north-central regions, parched pastures and rainfed cropland. Citrus fruit were unusually small and trees severely stressed in nonirrigated orchards of the northeast. Further south, sugarcane and orchards were not as critically hurt but still below their usual condition. Rains were also scarce over the western mountainous watersheds, causing some concern for irrigating next season's crops.



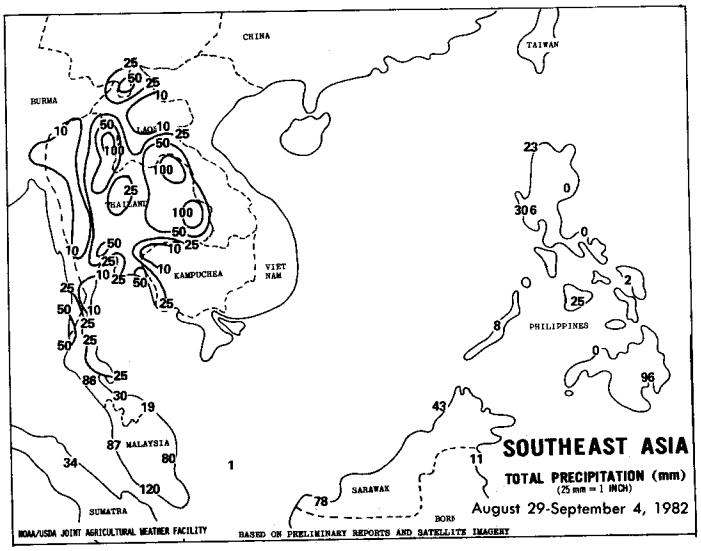
EASTERN ASIA: Heaviest rains in China fell in a band arcing from Sichuan to Hebei. The wetter than normal conditions may have been unfavorable for maturing crops, but the moisture improved the outlook for winter grain sowing which should begin in the next few weeks. Relatively dry weather along the Yangtze River favored cotton harvesting while showers to the south benefited late rice. Relatively dry weather in northeastern China allowed renewed harvesting in Heilongjiang. Temperatures stayed below normal in the northeast but ranged above normal over most other Chinese crop areas. In South Korea, dry weather prevailed, but moisture was adequate for rice crop needs. Temperatures averaged slightly below normal, and some low readings may have hurt flowering of the latest-developing rice varieties.



SOUTH ASIA: Monsoon winds on the Indian subcontinent weakened further, and rainfall resulted exclusively from isolated, tropical low-pressure systems. Heavy rains fell in parts of Orissa, Madhya Pradesh, and Uttar Pradesh as one system moved in from the east, stagnated, and then dissipated in central India. Additional flooding was reported in the Ganges basin. Little or no rain fell in Pakistan, northwestern India, and much of southern India. Dry areas in the north of India and Pakistan should have adequate irrigation water, but conditions in much of Rajasthan, Gujarat, and interior areas of southern India are unfavorably dry. Similarly, northwestern parts of Bangladesh have been drier than normal in recent weeks. Temperatures averaged near normal over most of the region but stayed below normal in rainy areas of the north.



CANADA: Showery weather produced significant weekly rainfall totals (in excess of 10 mm) across the entire northern half of the Canadian grain belt. Generally light rain fell in the southern portion of the Prairie Provinces. Crop harvests are already behind the pace of recent years due to late crop development. The wet weather, especially in the northern half of the Prairie grain belt, caused further delays in the harvest. The relatively unfavorable harvest conditions followed the late August frost that has already lowered grain yields in Alberta and Saskatchewan. The frost, which occurred about 2 weeks ahead of normal, caused some yield and quality losses to immature crops in northern Alberta, northern and eastern Saskatchewan, and southwestern Manitoba. Mild, dry weather is needed for improved harvesting conditions.



SOUTHEAST ASIA: The eastern two-thirds of Thailand benefited from normal rainfall or greater. Most rainfed rice in the east remained in good condition as rainfall stayed above normal. Unfavorably dry conditions persisted in western Thailand. Most major agricultural areas on the Central Plains had adequate moisture, but a detrimentally dry band extended from just west of Bangkok northward into reservoir source areas. Irrigation supplies for autumn crops remained marginal. Temperatures rose to slightly above normal. Satellite imagery indicated that rainfall in Laos, Vietnam, and Kampuchea was about the same as in eastern Thailand.

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State Summaries (continued on back cover)

ago 90%. Oats harvested: 60%; year ago 70%. Barley mature: 85%; year ago 95%. Barley harvested: 70%; year ago 80%. Corn in milk: 40%; year ago 25%. Corn in dough: 35%; year ago 55%. Corn dented: 20%; year ago 20%. Corn mature: 5%; year ago 5%. Dry beans turning color: 65%; year ago 85%. Dry beans windrowed: 10%; year ago 25%. Dry beans combined: 1%; year ago 10%. Second cutting alfalfa 70% complete. Third cutting 10% complete. Other hay harvest 90% complete. Winter wheat seeded for 1983, 20% complete. Fall and winter grazing prospects mostly good. Cattle, calves contracted: 10%; year ago 10%. Sheep, lambs marketed: 1%; year ago 5%.

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