

WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration,
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service
and World Agricultural Outlook Board

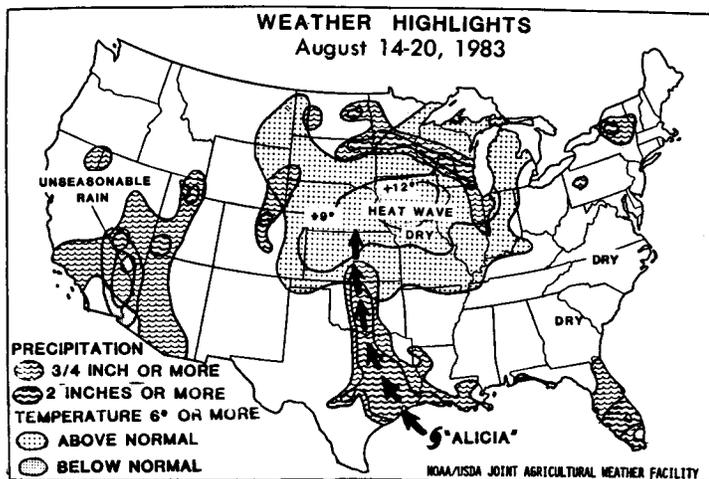
Volume 70, No. 34

WASHINGTON, D.C.

Aug. 23, 1983

National Weather Summary

August 14 to 20



frequent from Arizona and southern California to the northern Rockies, and began spreading into the northern Plains.

TUESDAY... Showers and thunderstorms continued from southern California and Arizona through Nevada and Utah to Wyoming, and from the northern Plains to Michigan. Showers were moderate to heavy in parts of Minnesota and Wisconsin. The heat wave in the Plains and Midwest continued. Afternoon temperatures reached 110° in southern Nebraska, 108° in central Iowa, and temperatures in the mid-nineties spread into Indiana.

WEDNESDAY... Showers were heavy at times in southern California, Arizona, and Nevada and scattered, light showers extended into Wyoming and South Dakota. A trough of low pressure produced showers on both sides of a line from New England to central Indiana. Some moderate showers fell in northern Indiana. The heat wave continued in the Plains and Midwest but temperatures moderated in Indiana. Hurricane "Alicia" was approaching the southeastern Texas coast, and thunderstorms were beginning to produce moderate rain in that area.

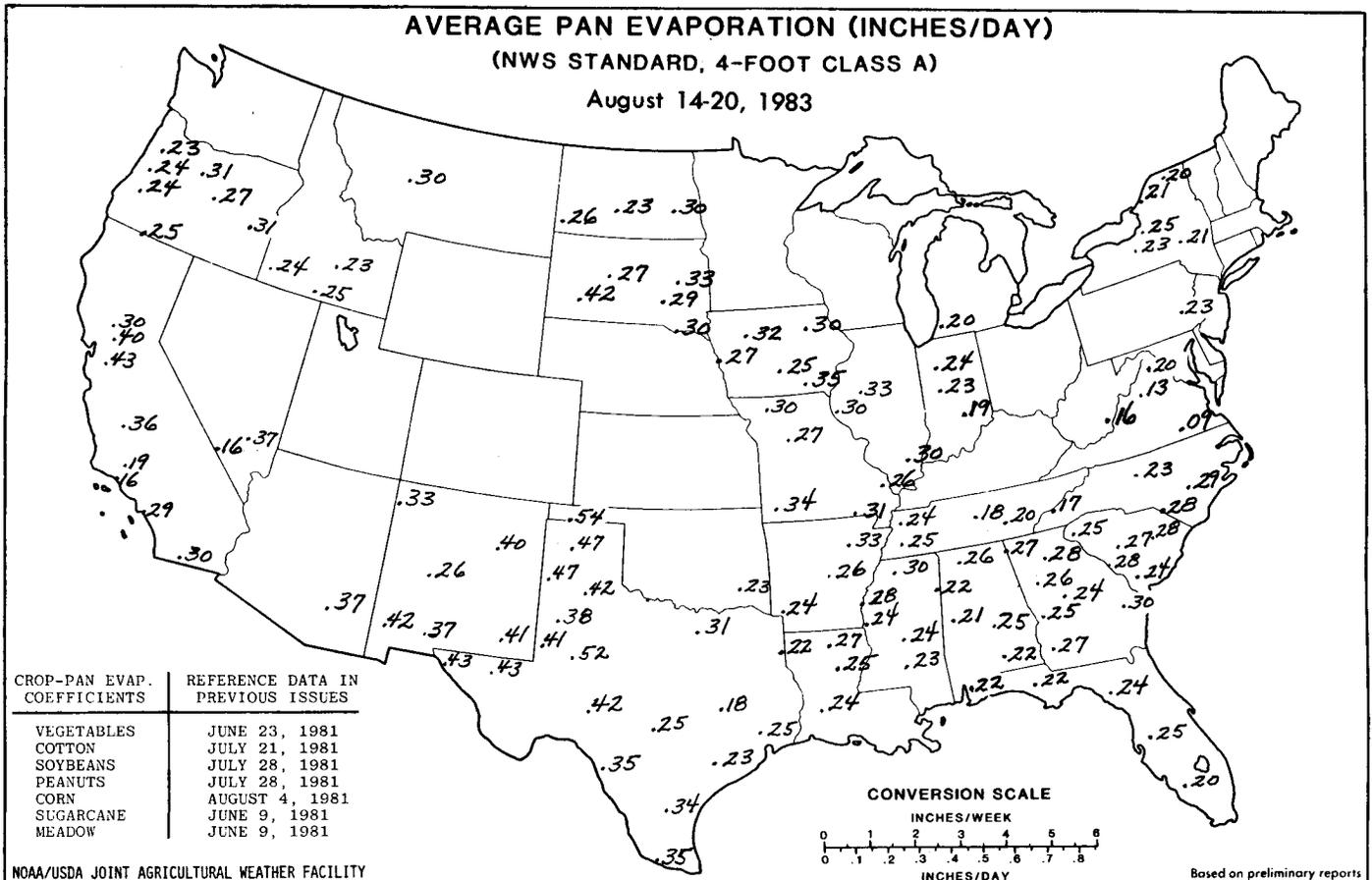
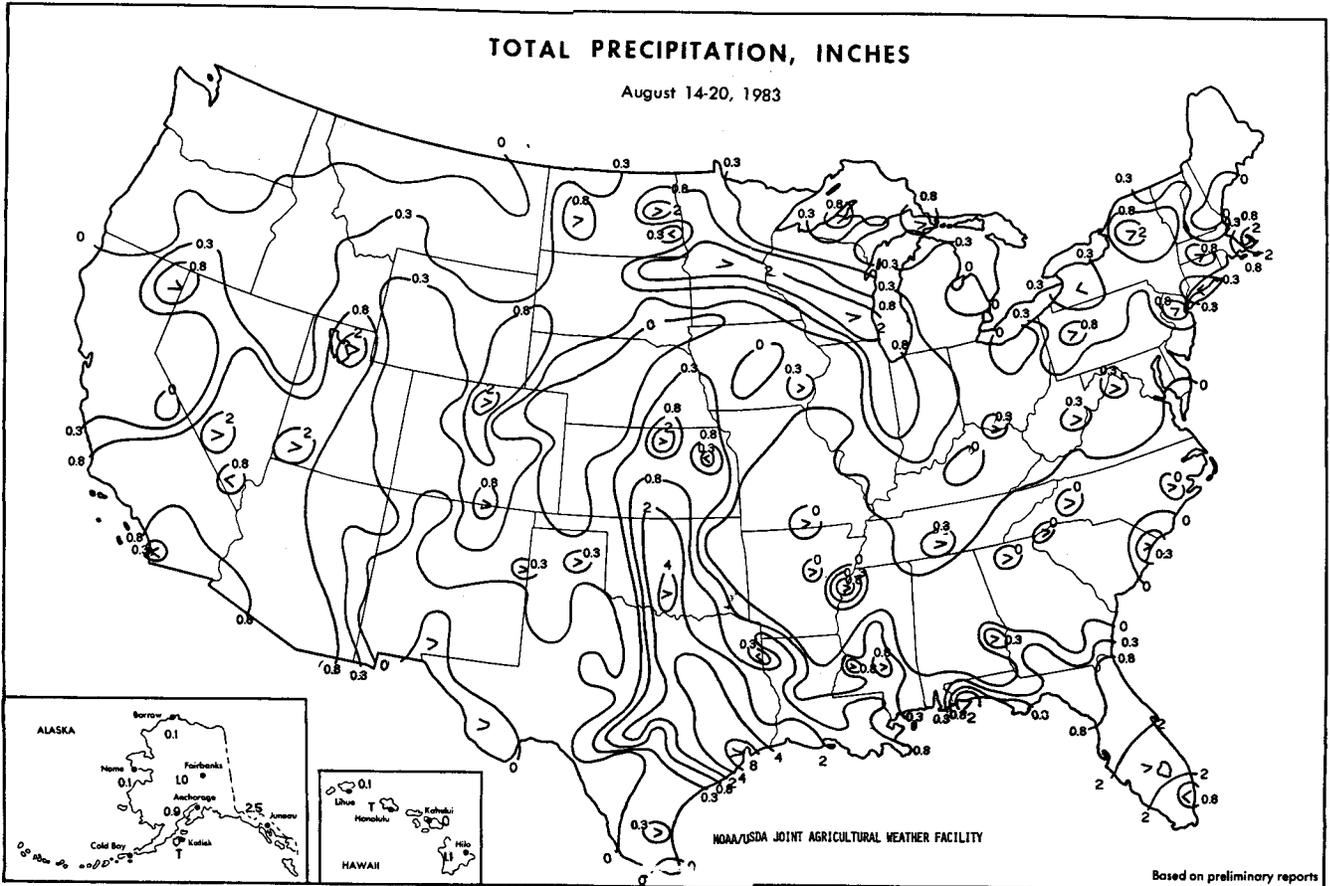
THURSDAY... Hurricane "Alicia" moved onshore near Galveston, Texas, bringing high winds, tornadoes, heavy rains, and high tides to the coastal area. Moderate to heavy showers and thunderstorms spread throughout eastern Texas. Showers were frequent and occasionally moderate through the Southwest, and covered two-thirds of California. The showers spread through Nevada and Utah to Wyoming, South Dakota, and into the western Great Lakes. Showers were scattered from southern New England through the Ohio Valley. Hot weather continued through the Plains and across the Corn Belt. (continued on p. 8)

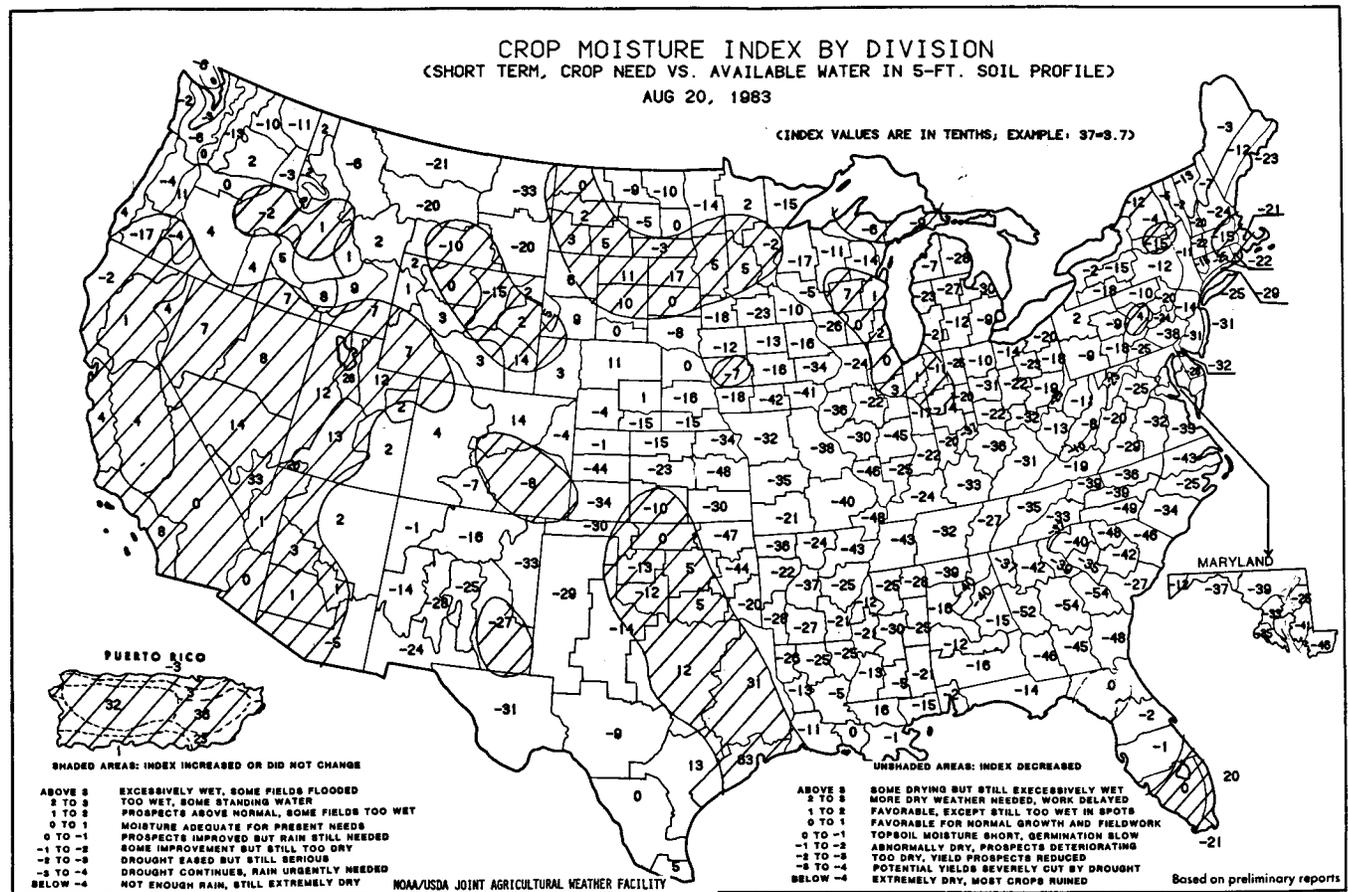
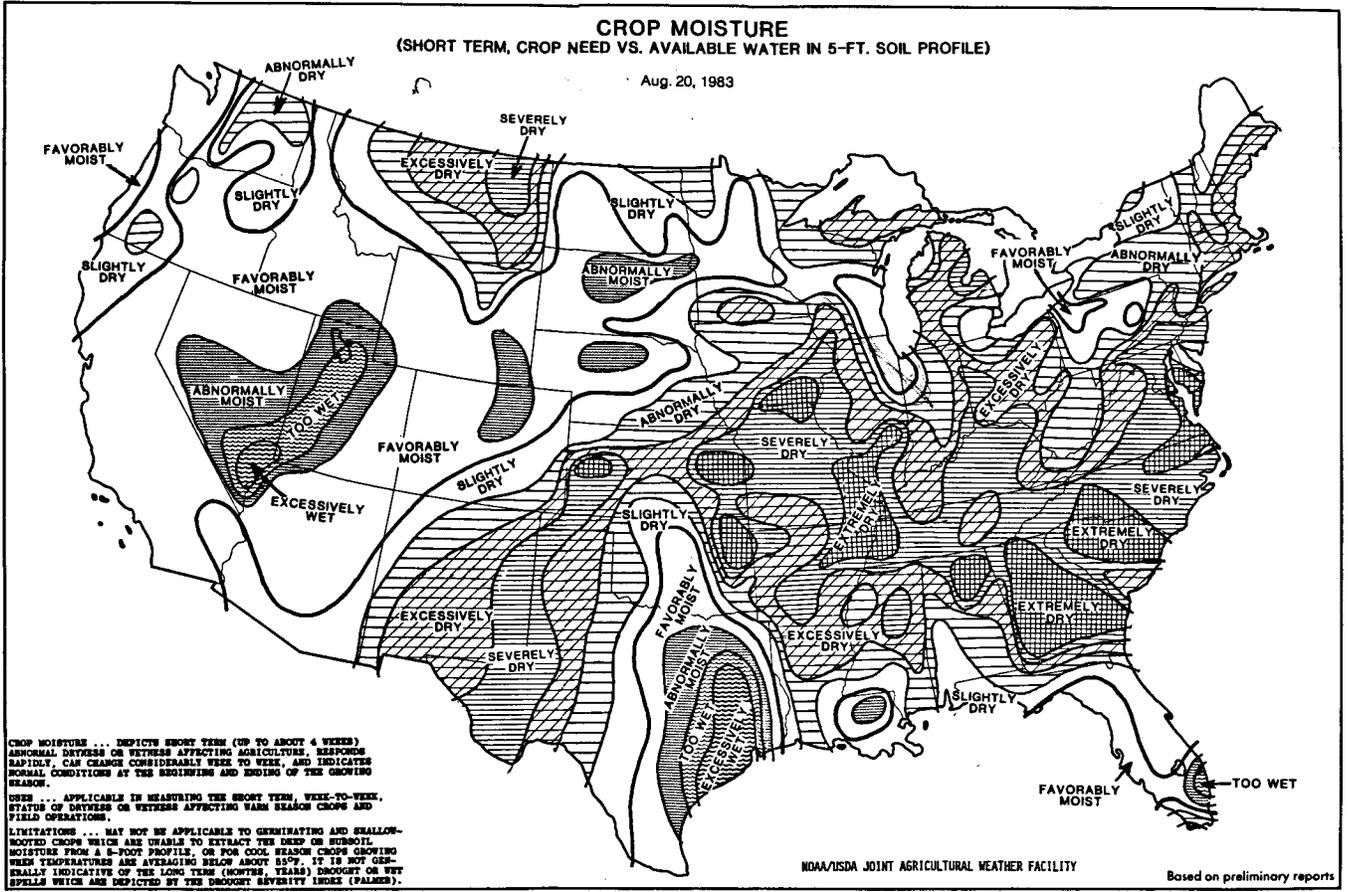
HIGHLIGHTS: Hot, dry weather prevailed over most agricultural areas in the eastern part of the Nation. Average temperatures for the week were 8-10° warmer than normal in the central Plains, and up to 14° above normal in Iowa. The heat wave spread into the Southeast as the week ended. Hurricane "Alicia" crashed onto the southeastern Texas coast early Thursday, and after having wreaked havoc along the coast, spread showers northward through the Plains. Moisture, from tropical storms to the south, triggered showers throughout the West and finally covered all of California. This unusual rain was bad for raisins laid out to dry. The tropical moisture also triggered showers from the northern Plains to the western Great Lakes.

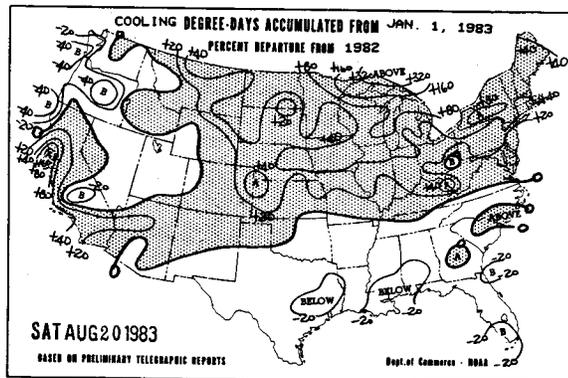
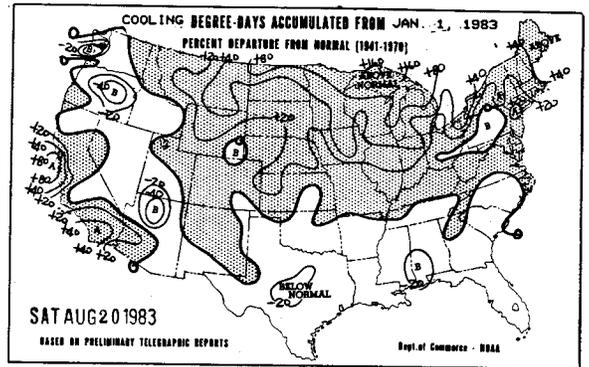
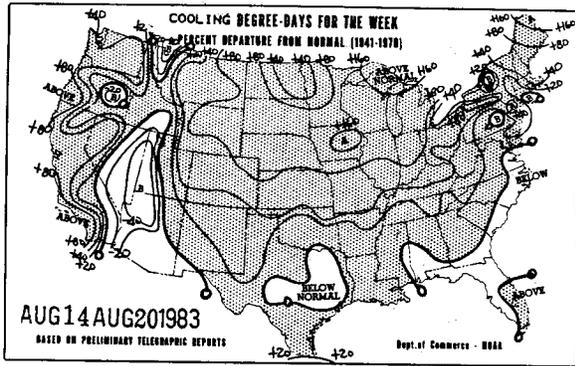
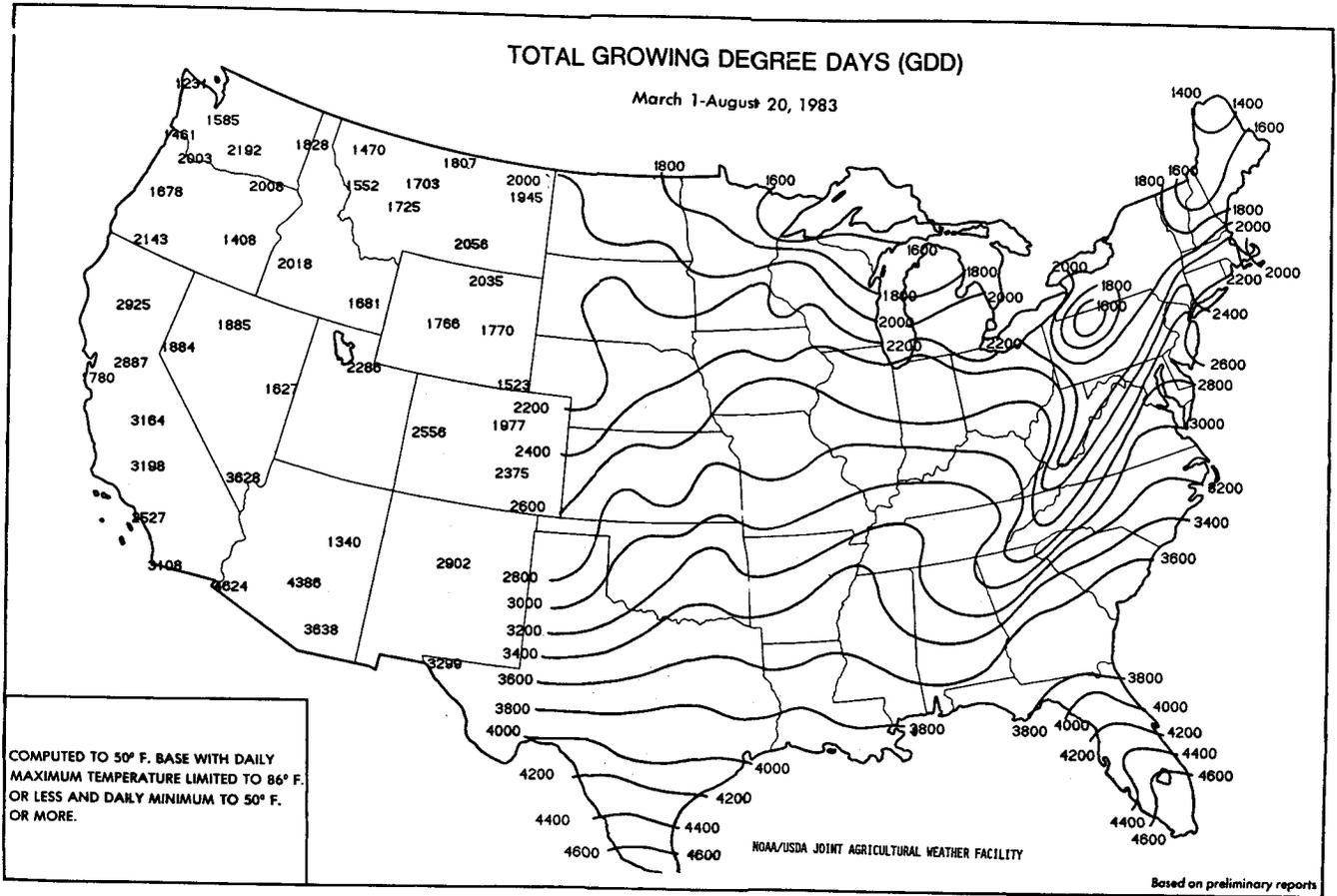
SUNDAY... Showers were widespread throughout the Southwest and reached well into California's San Joaquin Valley and through the central Rockies. Very light showers were scattered along a line from northeastern Kansas to northern lower Michigan. A few showers fell over the northern Plains and along the gulf coast. The Atlantic coast of Florida had moderate to heavy thunderstorms. Temperatures were relatively moderate over most of the Corn Belt, but climbed to the low nineties in the western portion.

MONDAY... Afternoon high temperatures soared to over 100° throughout the central and southern Plains, and were in the high nineties in parts of Iowa and Missouri. Readings in excess of 90° pushed into Indiana as the heat spread. Precipitation was scarce over most of the Nation, but showers were

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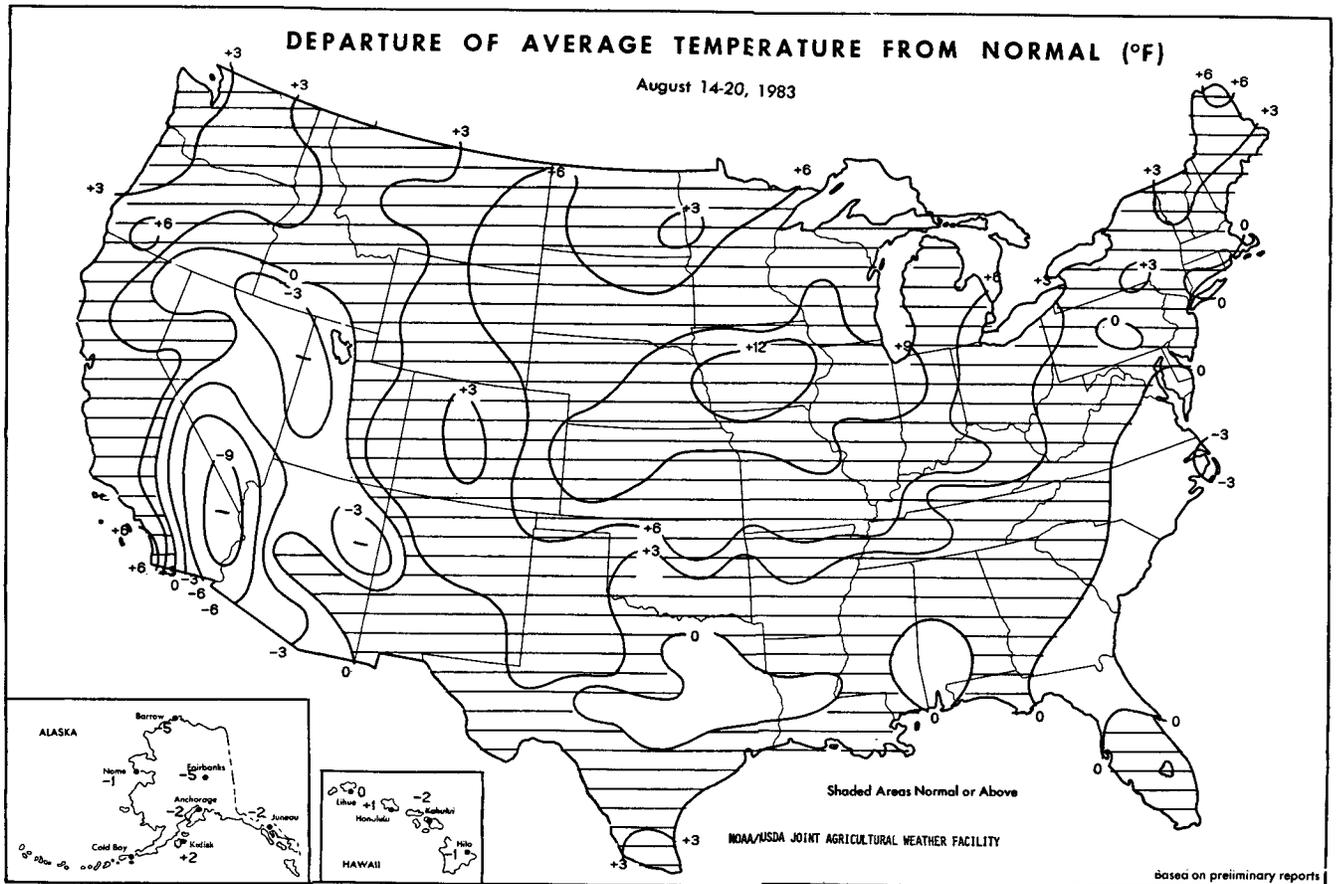
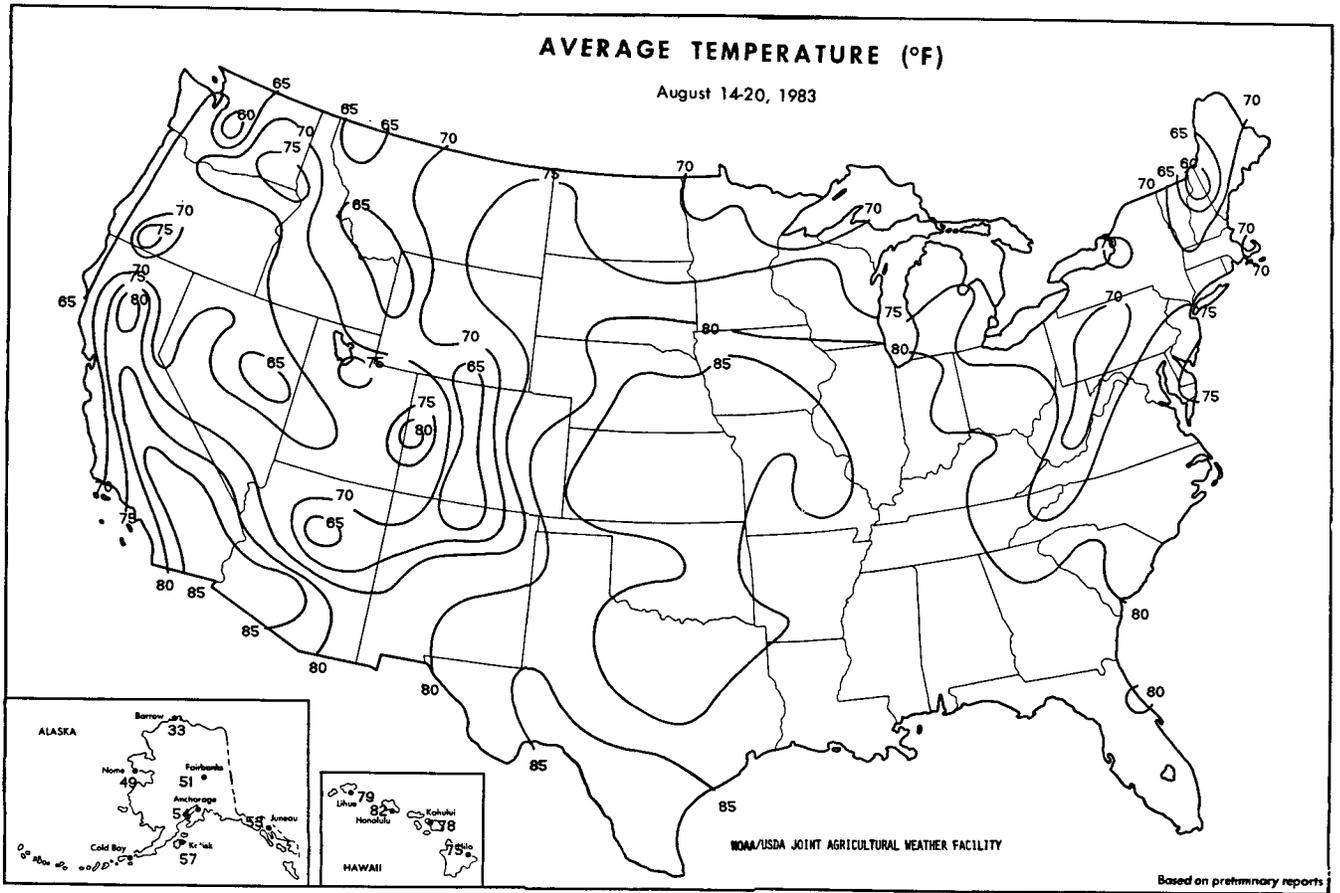




COOLING DEGREE DAY DATA WEEKLY SUMMARY
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
ASSESSMENT AND INFORMATION SERVICES CENTER-NESDIS-NOAA

LAST DATE OF DATA COLLECTION PERIOD IS 8-20-1983
ACCUMULATIONS ARE FROM JANUARY 1
***** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

STATE CITY	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV L YR	CUM TOTAL	CUM DEV FROM NORM	CUM DEV L YR	CUM DEV FROM NORM	CUM DEV L YR	STATE CITY	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV L YR	CUM TOTAL	CUM DEV FROM NORM	CUM DEV L YR	CUM DEV FROM NORM	CUM DEV L YR
AL BIRMINGHAM	BHM	110	10	13	1273	-158	-159	-11	-11	NE NORTH PLATTE	LBF	109	50	37	717	41	132	6	22
AL MOBILE	MOB	116	-1	12	1457	-389	-381	-21	-20	NE OMAHA	OMA	149	73	84	1030	82	310	8	43
AL MONTGOMERY	MGM	115	3	6	1393	-224	-356	-13	-20	NE VALENTINE	VTM	104	49	11	738	115	143	18	24
AZ FLAGSTAFF	FLG	7	-5	5	50	-73	13	-59	35	NV ELY	ELY	4	-13	-21	157	-13	-9	-7	-5
AZ PHOENIX	PHX	166	-2	-52	2863	431	-93	17	-3	NV LAS VEGAS	LAS	98	-58	-70	1954	-183	-118	-8	-5
AZ TUCSON	PHX	113	-17	-29	1905	-53	79	-2	4	NV RENO	RNO	37	13	11	310	31	16	11	5
AZ WINSLOW	INW	78	0	22	903	-29	145	-3	19	NV WINNEMUCCA	WMC	40	12	0	328	-22	-41	-6	-11
AZ YUMA	YUM	149	-46	-60	2979	151	127	5	4	NH CONCORD	CON	40	15	23	395	91	126	29	46
AR FORT SMITH	FSM	128	12	12	1265	-242	-47	-16	-3	NJ ATLANTIC CITY	ACY	72	13	15	919	229	142	33	18
AR LITTLE ROCK	LIT	132	22	33	1379	-74	-79	-5	-5	NM ALBUQUERQUE	ABQ	99	18	-8	1120	83	59	8	5
CA BAKERSFIELD	BFL	129	14	-4	1418	-125	-549	-8	-27	NM ROSWELL	ROW	118	25	-4	1310	81	-33	6	-2
CA EUREKA	EKA	0	0	0	1	1	-2	**	**	NY ALBANY	ALB	42	5	30	496	8	205	1	70
CA FRESNO	FAT	126	35	27	1396	190	157	15	12	NY BINGHAMTON	BGM	47	22	36	491	180	221	57	81
CA LOS ANGELES	LAX	77	42	48	430	103	139	31	47	NY BUFFALO	BUF	43	12	20	585	222	252	61	75
CA RED BLUFF	RBL	120	17	32	1251	-113	120	-8	10	NY NEW YORK	LGA	84	15	10	903	78	221	9	32
CA SAN DIEGO	SAN	93	44	38	688	289	154	72	28	NY ROCHESTER	ROC	46	11	13	559	117	181	26	47
CA SAN FRANCISCO	SFO	12	5	12	108	51	69	**	**	NY SYRACUSE	SYR	35	-1	21	466	15	186	3	66
CA STOCKTON	SCK	105	34	33	1001	107	190	11	23	NC ASHEVILLE	AVL	68	12	25	712	30	-72	4	-9
CO DENVER	DEN	70	23	3	551	38	70	7	14	NC CAPE HATTERAS	HAT	73	-16	-12	1103	33	-25	3	-2
CO GRAND JUNCTION	GJT	114	42	14	980	66	-12	7	-1	NC CHARLOTTE	CLT	95	5	16	1177	-27	-40	-2	-3
CO PUEBLO	PUB	99	32	17	806	-2	37	0	4	NC GREENSBORO	GSO	79	1	4	942	-109	-64	-10	-6
CT BRIDGEPORT	BRD	54	-1	5	595	24	138	4	30	NC RALEIGH DURHAM	RDU	83	2	1	1063	-8	-163	0	-13
CT HARTFORD	BDL	50	10	11	673	176	144	35	27	NC WILMINGTON	ILM	98	-5	17	1327	-102	35	-7	2
DC WASHINGTON	DCA	101	16	25	1238	151	117	13	10	ND BISMARCK	BIS	53	17	-17	507	91	174	21	52
FL APALACHICOLA	AQI	114	-1	7	1533	-289	-206	-15	-11	ND FARGO	FSR	46	8	-17	580	171	195	41	50
FL DAYTONA BEACH	DAB	101	-11	-1	1541	-360	-282	-18	-15	ND WILLISTON	ISN	75	43	-13	673	313	193	86	40
FL FORT MEYER	FMY	123	-3	10	2002	-384	-796	-16	-28	OH AKRON-CANTON	CAK	63	21	33	641	126	107	24	20
FL JACKSONVILLE	JAX	104	-8	-1	1519	-252	-433	-14	-22	OH CLEVELAND	CLE	65	26	34	689	195	162	39	30
FL KEY WEST	EYW	140	0	17	2568	-587	-863	-18	-25	OH COLUMBUS	CMH	84	34	52	766	112	163	17	27
FL MIAMI	MIA	130	4	7	2481	-76	-534	-2	-17	OH CINCINNATI	CVG	97	30	57	945	100	178	11	23
FL ORLANDO	MCO	130	11	14	1993	-126	-373	-5	-15	OH DAYTON	DAY	79	21	37	748	3	87	0	13
FL TALLAHASSEE	TLH	108	-4	-3	1599	-209	-200	-11	-11	OH TOLEDO	TOL	63	18	32	618	61	136	10	28
FL TAMPA	TPA	123	-1	11	1990	-225	-208	-10	-9	OH YOUNGSTOWN	YNG	62	27	51	599	173	216	40	56
FL WEST PALM BEACH	PBI	133	13	13	2342	-40	-388	-1	-14	OK OKLAHOMA CITY	OKC	130	15	-6	1291	-107	4	-7	0
GA ATLANTA	ATL	104	13	21	1224	45	-97	3	-7	OR ASTORIA	AST	0	0	0	2	-12	-4	**	**
GA AUGUSTA	AGS	110	6	23	1424	-64	-64	-4	-4	OR BURNS	BNO	16	-6	-2	110	-135	-84	-55	-43
GA MACON	MCN	116	4	11	1670	-26	24	-1	1	OR MEDFORD	MFR	86	43	31	500	64	-12	14	-2
GA SAVANNAH	SAV	108	-4	9	1648	-27	-82	-1	-4	OR PENDELTON	PDT	67	19	14	444	-86	-85	-16	-16
ID BOISE	BOI	62	9	-2	551	-26	73	-4	15	OR PORTLAND	PDJ	34	11	3	261	27	-28	11	-9
ID LEWISTON	LWS	78	30	1	592	69	-44	13	-6	OR SALEM	SLE	26	5	6	162	-26	-60	-13	-27
ID POCAHELLO	PIH	30	-4	-32	320	-64	5	-16	1	PA ALLENTOWN	ABE	67	20	36	781	151	284	23	57
IL CHICAGO	ORD	112	64	63	837	294	287	54	52	PA ARIE	ERI	55	27	34	534	227	196	73	57
IL MOLINE	MLI	131	72	67	1019	281	330	38	47	PA HARRISBURG	CXY	62	-1	23	716	-109	140	-13	24
IL PEORIA	PIA	132	70	70	1054	267	303	33	40	PA PHILADELPHIA	PHL	74	5	-3	948	78	121	8	14
IL ROCKFORD	RFD	110	59	61	879	285	280	47	46	PA PITTSBURGH	PIT	49	9	22	538	10	83	1	18
IL SPRINGFIELD	SPI	123	54	61	1075	183	195	20	22	PA SCRANTON	AVP	53	14	37	516	16	138	3	36
IN EVANSVILLE	EVV	122	43	59	1197	113	137	10	12	RI PROVIDENCE	PVD	62	22	12	754	316	275	72	57
IN FORT WAYNE	FWA	96	49	59	934	330	353	54	60	SC CHARLESTON	CHS	103	-2	8	1514	7	-24	0	-1
IN INDIANAPOLIS	IND	109	50	55	986	203	208	25	26	SC COLUMBIA	CAE	108	1	19	1428	-123	11	-7	0
IN SOUTH BEND	SBN	103	55	57	936	372	367	65	64	SC GREENVILLE	GSP	92	3	21	1082	-117	-14	-9	-1
IA DES MOINES	DSM	163	102	93	1177	416	428	54	57	SD ABERDEEN	ABR	64	20	-29	668	181	93	37	16
IA DUBUQUE	DBQ	111	67	58	752	241	236	47	45	SD HURON	HON	98	45	7	778	167	174	27	28
IA SIOUX CITY	SUX	136	74	69	877	94	200	12	29	SD RAPID CITY	RAP	98	48	32	646	109	280	20	76
KS CONCORDIA	CKN	153	65	55	1134	118	112	11	10	SD SIOUX FALLS	FSF	110	57	35	790	181	249	29	46
KS DODGE CITY	DDC	158	64	36	1314	208	239	18	22	TN CHATTANOOGA	CHA	110	18	30	1156	-89	-42	-7	-3
KS GOODLAND	GLD	131	65	45	948	196	335	26	54	TN KNOXVILLE	TYS	90	3	2	1019	-169	-32	-14	-3
KS TOPEKA	TOP	142	55	67	1189	111	309	10	35	TN MEMPHIS	MEM	126	17	7	1505	-26	-242	-1	-13
KS WICHITA	ICT	150	45	28	1189	-102	36	-7	3	TN NASHVILLE	BNA	118	22	40	1249	-41	50	-3	4
KY LEXINGTON	LFX	117	45	62	1041	103	194	10	22	TX ABILENE	ABI	149	17	-6	1626	-188	-221	-10	-11
KY LOUISVILLE	SDF	123	46	63	1132	144	208	14	22	TX AMARILLO	AMA	118	28	21	1020	-93	14	-8	1
LA BATON ROUGE	BTR	126	7	-1	1527	-323	-579	-17	-27	TX AUSTIN	AUS	134	-6	-32	1695	-375	-610	-18	-26
LA LAKE CHARLES	LCH	132	13	10	1678	-251	-250	-13	-12	TX BROWNSVILLE	BRO	159	26	6	2482	-144	-560	-5	-18
LA NEW ORLEANS	MSY	129	10	9	1609	-288	-507	-15	-23	TX CORPUS CHRISTI	CRP	147	7	4	2043	-340	-348	-14	-14
LA SHREVEPORT	SHV	131	3	-4	1501	-314	-339	-17	-18	TX DEL RIO	DRT	156	7	-5	2224	-216	-194	-8	-8
ME CARIBOU	CAR	25	18	15	204	84	46	69	29	TX EL PASO	ELP	109	0	-42	1470	-136	-264	-8	-15
ME PORTLAND	PWM	35	14	11	328	113	111	52	51	TX FORT WORTH	DFW	139	-8	-14	1599	-389	-284	-19	-15
MD BALTIMORE	BWI	84	15	25	995	126	164	14	19	TX GALVESTON	GLS	134	8	-7	1816	-199	-238	-9	-11
MA BOSTON	BOS	66	20	5	818	275	271	50	49	TX HOUSTON	IAH	124	-5	-15	1677	-338	-587	-16	-25
MI ALPENA	APN	54	33	37	416	223	248	115	147	TX LBB	LBB	115	20	-1	1205	-88	-48	-6	-3
MI DETROIT	DTW	61	16	24	614	76	159	14	34	TX MIDLAND ODESSA	MAF	146	27	16	1700	42	59	2	3
MI FLINT	FNT	82	50	45	594	227	164	61	38	TX SAN ANGELO	SJT	123	-15	-15	1590	-407	-68	-20	-4
MI GRAND RAPIDS	GRR	78	36	33	619	136	100	28	19	TX SAN ANTONIO	SAT	141	1	-9	1780	-363	-368	-16	-17
MI HOUGHTON LAKE	HTL	54	33	40	435	217	215	99	97	TX VICTORIA	VCT	147	8	-6	1914	-262	-446	-12	-18
MI LANSING	LAN	75	36	36	590	141	180	31	43	TX WACO	ACT	147	0	-13	1731	-309	-404	-15	-18
MI MARQUETTE	MQT	38	25	25	325	207	220	175	209	TX WICHITA FALLS	SPS	154	9	17	1556	-360	-76	-18	-4
MI MUSKOGON	MKG	67	29	30	584	198	183	51	45	UT SALT LAKE CITY	SLC	73	5	-38	816	79	6	10	0
MI SAULT ST MARIE	SSM	41	27	41	296	175	254	144	604	VT BURLINGTON	BTV	41	13	18	447	102	167	29	59
MN DULUTH	DLH	37	19	16	325	168	230	107	242	VA LYNCHBURG	LYH	77	11	4					



Weather Data for the Week Ending Aug. 20, 1983

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAY 29	PCT. NORMAL SINCE MAY 29	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE °F		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	93	68	101	65	81	-1	0	-.8	0	7.1	60	41.4	109	84	35	6	0	0	0
AL MOBILE	91	72	95	70	82	-1	T	-1.5	T	18.1	103	56.8	128	91	51	5	0	1	0
AL MONTGOMERY	95	67	103	63	81	0	0	-.6	0	11.7	111	49.3	148	81	38	7	0	0	0
AK ANCHORAGE	62	46	67	42	54	-2	.9	-.4	.7	3.1	74	5.6	75	88	50	0	0	0	
AK BARROW	38	29	50	26	33	-5	-.1	-.1	.7	35	1.0	30	100	78	0	7	3	1	
AK FAIRBANKS	60	42	64	37	51	-5	1.0	.6	.7	3.9	91	4.7	72	97	54	0	0	0	
AK JUNEAU	57	49	61	43	53	-2	2.5	1.3	.8	10.8	102	24.6	89	100	79	0	0	6	
AK KODIAK	64	50	72	46	57	2	T	-1.2	T	12.3	112	50.3	136	93	64	0	0	1	
AK NOME	57	41	63	35	49	-1	.1	-.6	.1	5.0	88	6.8	72	91	64	0	0	2	
AZ PHOENIX	98	79	108	75	89	-1	1.5	1.2	1.3	2.9	171	8.1	184	75	34	6	0	3	
AZ PRESCOTT	81	63	91	54	72	2	2.0	1.2	1.5	3.2	52	8.1	70	97	47	1	0	4	
AZ TUCSON	92	70	102	66	81	-3	.9	.4	.5	6.1	145	10.3	147	85	31	5	0	4	
AZ YUMA	94	78	106	72	86	-6	.3	.2	.2	.6	120	1.9	136	68	40	7	0	2	
AR FORT SMITH	94	72	95	70	83	2	0	-.7	0	8.3	91	21.2	79	84	39	7	0	0	
AR LITTLE ROCK	95	72	99	68	84	3	0	-.6	0	4.6	54	26.5	83	81	41	7	0	0	
CA BAKERSFIELD	94	73	101	67	83	1	1.0	1.0	.9	1.0	+100	7.9	219	83	40	5	0	3	
CA EUREKA	66	55	69	53	61	4	.2	.1	.1	1.8	164	36.0	161	95	75	0	0	2	
CA FRESNO	94	71	104	66	83	4	T	0	T	0	+100	16.3	243	71	31	4	0	2	
CA LOS ANGELES	82	70	89	67	76	5	1.1	1.1	1.0	1.2	100	21.8	276	84	58	0	0	2	
CA RED BLUFF	96	68	105	65	82	2	T	-.1	T	.2	33	29.3	233	65	23	5	0	0	
CA SACRAMENTO	93	66	104	60	79	5	.1	-.1	.1	.5	500	23.8	271	71	29	4	0	1	
CA SAN DIEGO	82	74	88	73	78	6	.2	.2	.2	.4	400	14.6	235	86	64	0	0	2	
CA SAN FRANCISCO	75	58	86	54	66	3	T	0	T	0	0	25.4	213	87	52	0	0	0	
CO DENVER	89	60	92	58	75	3	.3	-.1	.2	6.4	136	16.3	146	78	30	3	0	2	
CO GRAND JUNCTION	93	69	97	65	81	5	.1	-.1	.1	4.4	314	9.6	196	64	24	5	0	1	
CO PUEBLO	95	63	99	59	79	4	.7	-.3	.7	4.8	107	10.3	123	81	22	7	0	1	
CT BRIDGEPORT	82	62	95	52	72	-1	.1	-.7	.1	8.3	90	38.7	153	90	47	1	0	1	
CT HARTFORD	85	58	95	49	72	0	.5	-.4	.5	7.0	75	35.9	133	84	38	2	0	1	
DC WASHINGTON	90	68	101	60	79	1	.1	-.9	.1	11.5	111	31.9	177	83	40	4	0	1	
FL APALACHICOLA	89	73	93	70	81	0	.9	-.8	.9	13.7	81	40.8	120	94	58	3	0	2	
FL DAYTONA BEACH	88	71	92	69	79	-2	1.6	-.1	1.6	18.0	110	40.7	138	93	64	1	0	1	
FL JACKSONVILLE	89	70	96	67	80	-1	.9	-.7	.9	16.7	98	42.0	121	93	54	3	0	1	
FL KEY WEST	90	79	91	76	85	1	.4	-.7	.3	11.5	95	41.1	191	81	59	6	0	2	
FL MIAMI	91	75	97	74	83	0	.4	-1.2	.2	19.5	96	37.7	107	90	54	6	0	3	
FL ORLANDO	92	75	94	73	83	1	1.1	-.3	.4	19.3	97	38.5	113	93	55	7	0	5	
FL TALLAHASSEE	92	68	96	63	80	-1	.1	-1.5	.1	13.5	65	48.2	109	95	46	6	0	1	
FL TAMPA	89	75	91	74	82	0	1.5	-.2	.6	24.2	134	43.3	136	99	62	3	0	5	
FL WEST PALM BEACH	92	76	94	74	84	1	3.0	1.8	1.3	24.1	132	52.3	150	86	57	6	0	5	
GA ATLANTA	90	69	99	65	80	2	0	-.7	0	4.4	42	25.1	76	80	42	3	0	0	
GA AUGUSTA	96	65	105	59	81	0	0	-.9	0	8.2	71	32.0	107	90	31	6	0	0	
GA MACON	94	69	102	63	81	0	0	-.8	0	11.0	99	35.7	113	86	40	5	0	0	
GA SAVANNAH	91	69	99	63	80	-1	0	-1.5	0	13.8	75	40.2	113	90	45	4	0	0	
HI HILO	81	68	83	64	75	-1	1.1	-1.3	.6	15.9	70	39.1	49	91	63	0	0	5	
HI HONOLULU	90	74	91	71	82	-1	T	-.1	T	.5	36	2.0	14	75	44	5	0	0	
HI KAHULUI	87	68	89	64	78	-2	0	-.1	0	1.2	100	4.0	76	70	54	0	0	0	
HI LIHUE	84	75	85	74	79	0	.1	-.4	T	3.4	67	8.8	34	74	55	0	0	2	
ID BOISE	86	61	94	58	74	2	.1	0	.1	1.6	114	11.7	154	87	30	4	0	0	
ID LEWISTON	91	61	96	56	76	4	T	-.2	T	3.0	115	9.2	116	66	20	5	0	1	
ID POCATELLO	80	58	90	55	69	0	.5	.4	.3	3.1	148	10.6	145	90	46	1	0	3	
IL CHICAGO	92	70	99	68	81	9	1.5	-.7	1.3	10.5	103	29.9	132	88	42	5	0	2	
IL MOLINE	96	71	103	62	83	10	T	-.8	T	8.4	71	20.0	78	88	42	6	0	1	
IL PEORIA	96	71	102	63	84	10	.2	-.6	.2	7.3	68	25.2	105	85	43	6	0	1	
IL QUINCY	98	73	102	64	85	11	0	-.8	0	2.6	23	16.9	67	72	35	6	0	0	
IL ROCKFORD	92	69	99	62	81	9	.1	-.7	.1	5.9	50	19.1	75	94	46	6	0	3	
IL SPRINGFIELD	96	69	101	61	82	8	T	-.7	T	4.5	46	19.0	82	82	38	6	0	0	
IN EVANSVILLE	96	69	102	57	82	6	.1	-.6	.1	6.2	63	32.4	110	82	35	7	0	1	
IN FORT WAYNE	90	66	99	56	78	7	.3	-.4	.3	6.5	67	18.8	78	84	44	4	0	1	
IN INDIANAPOLIS	91	69	99	57	80	7	.6	-.2	.6	8.3	75	22.4	83	84	46	5	0	1	
IN SOUTH BEND	90	69	98	62	80	9	.6	-.3	.6	6.0	58	19.7	80	87	44	4	0	1	
IA DES MOINES	101	75	108	70	88	14	T	-1.0	T	6.3	61	20.8	95	73	32	7	0	0	
IA SIOUX CITY	95	73	100	64	84	11	.1	-.6	.1	6.1	63	18.7	102	83	45	7	0	1	
IA WATERLOO	96	70	100	66	83	13	T	-.8	T	9.3	78	23.1	99	87	45	7	0	0	
KS CONCORDIA	99	74	108	67	87	9	2.2	1.4	1.1	6.3	61	17.5	91	75	32	6	0	2	
KS DODGE CITY	101	74	107	70	87	9	T	-.5	T	6.3	78	16.4	108	65	24	7	0	1	
KS GOODLAND	99	68	105	62	84	10	T	-.4	T	6.5	96	13.9	112	58	20	7	0	0	
KS TOPEKA	98	72	106	66	85	8	.1	-.8	T	6.8	57	23.8	105	78	38	7	0	2	
KS WICHITA	98	75	106	70	86	6	1.2	-.6	1.1	12.4	127	27.3	143	76	36	6	0	2	
KY BOWLING GREEN	92	67	100	54	80	2	T	-.7	T	7.6	66	35.7	103	93	45	5	0	1	
KY LEXINGTON	93	69	103	56	81	6	T	-.9	T	5.8	47	25.3	79	79	33	5	0	0	
KY LOUISVILLE	94	70	100	58	82	6	.3	-.4	.2	7.0	67	29.9	98	81	39	6	0	3	
LA ALEXANDRIA	91	74	92	72	82	-1	.1	-.5	.1	8.4	74	36.8	99	93	57	5	0	2	
LA BATON ROUGE	91	75	93	73	83	2	.3	-.8	.3	21.2	150	57.3	150	92	56	6	0	1	
LA LAKE CHARLES	91	76	94	74	84	1	2.4	1.2	1.8	14.1	103	39.0	113	94	65	5	0	4	
LA NEW ORLEANS	91	76	93	74	83	1	.8	-.5	.3	19.2	122	58.3	148	89	57	6	0	4	

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Aug. 20, 1983

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAY 29	PCT. NORMAL SINCE MAY 29	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
ME SHREVEPORT	94	73	96	70	83	1	.2	-.3	.2	9.4	103	33.4	113	95	50	7	0	1	0
ME CARIBOU	80	57	85	47	68	1	.1	-.8	.1	10.2	101	27.3	124	92	47	0	0	2	0
ME PORTLAND	82	55	91	47	69	2	.1	-.5	.1	8.5	106	38.3	151	93	45	1	0	0	0
MD BALTIMORE	90	64	105	55	77	2	.1	-.1	.1	7.7	71	32.9	124	86	36	4	0	1	0
MD SALISBURY	86	62	98	54	74	-1	.1	-.3	.1	9.3	78	31.3	107	99	52	2	0	0	0
MA BOSTON	84	64	97	57	74	2	.3	-.6	.3	5.0	61	33.5	128	87	43	3	0	1	0
MA CHATHAM	73	61	80	54	67	-1	2.5	1.5	1.9	8.8	102	39.6	140	93	75	0	0	3	2
MI ALPENA	84	61	93	55	72	8	.3	-.4	.2	6.8	78	22.3	119	97	56	1	0	2	0
MI DETROIT	86	61	92	53	74	3	.7	-.7	.2	10.9	122	23.7	113	91	49	1	0	2	0
MI FLINT	87	66	95	59	77	8	.7	-.8	.2	7.8	90	19.4	97	90	53	1	0	1	0
MI GRAND RAPIDS	86	66	94	60	76	6	.2	-.6	.2	8.2	86	25.1	106	89	49	1	0	1	0
MI HOUGHTON LAKE	83	62	90	54	73	7	.7	-.7	.1	5.9	73	17.3	99	91	55	1	0	1	0
MI LANSING	87	64	96	57	75	6	.1	-.7	.1	7.9	93	21.3	107	93	49	1	0	1	0
MI MARQUETTE	82	58	89	53	70	7	.1	-.6	.1	9.1	95	25.7	111	95	50	0	0	1	0
MI MUSKEGON	84	65	89	59	74	5	.5	-.2	.5	5.4	73	16.2	83	96	54	0	0	1	1
MI SAULT STE. MARIE	81	60	88	56	71	7	1.3	.5	1.0	9.0	102	20.6	107	96	58	0	0	2	1
MN ALEXANDRIA	84	65	93	59	74	6	2.2	1.3	1.8	10.6	108	14.6	85	96	50	1	0	3	1
MN DULUTH	78	60	82	46	69	6	.1	-.8	.1	8.5	77	16.5	84	88	53	0	0	1	0
MN INT'L FALLS	80	53	91	45	67	3	.2	-.5	.1	8.6	87	12.4	75	98	48	1	0	3	0
MN MINNEAPOLIS	88	66	93	62	77	6	.8	-.1	.6	9.5	91	24.3	134	81	49	4	0	3	1
MN ROCHESTER	90	63	95	59	77	8	.7	-.9	.7	7.9	72	18.1	93	90	42	4	0	1	0
MS GREENWOOD	94	72	97	70	83	2	0	-.6	0	9.5	92	44.3	123	87	42	7	0	0	0
MS JACKSON	92	72	95	69	82	1	.1	-.8	.1	8.4	82	53.8	151	98	50	6	0	0	0
MS MERIDIAN	92	68	97	65	80	-1	0	-.7	0	11.5	101	49.9	137	100	49	7	0	0	0
MO CAPE GIRARDEAU	95	71	100	60	83	-	0	-.8	0	4.1	41	27.7	93	90	39	6	0	0	0
MO COLUMBIA	96	72	100	64	84	8	0	-.6	0	6.9	73	24.3	103	78	37	6	0	0	0
MO KANSAS CITY	97	74	105	69	86	9	.1	-.7	.1	5.4	46	71.0	88	80	38	6	0	0	0
MO SAINT LOUIS	97	76	102	63	86	9	.1	-.6	.1	5.9	61	24.6	106	76	38	6	0	0	0
MO SPRINGFIELD	98	70	100	67	84	7	0	-.6	0	8.1	79	26.1	102	78	34	7	0	0	0
MT BILLINGS	86	61	95	55	74	3	.2	0	.1	3.2	84	7.2	70	77	26	2	0	5	0
MT GLASGOW	89	60	96	46	74	5	.7	-.3	.7	3.4	65	5.9	66	51	17	5	0	0	0
MT GREAT FALLS	85	55	89	45	70	2	.7	-.3	.7	6.6	152	11.2	100	69	22	0	0	0	0
MT HAVRE	87	53	92	39	70	2	0	-.3	0	5.4	120	10.6	120	72	17	3	0	0	0
MT HELENA	83	55	89	52	69	3	.7	-.3	.7	6.4	156	9.1	114	73	26	0	0	1	0
MT KALISPELL	83	44	86	41	63	0	0	-.4	0	5.9	131	12.5	119	92	30	0	0	0	0
MT MILES CITY	92	65	100	57	79	6	.7	-.3	.7	3.1	57	5.6	54	64	19	6	0	1	0
MT MISSOULA	82	50	87	45	66	0	.7	-.2	.7	5.7	163	11.8	139	88	32	0	0	1	0
NE GRAND ISLAND	99	72	110	66	86	11	.2	-.4	.2	8.9	102	19.2	112	71	30	6	0	1	0
NE LINCOLN	99	75	107	72	87	11	.5	-.3	.5	8.7	90	20.7	107	81	37	6	0	1	0
NE NORFOLK	98	72	107	67	85	11	.1	-.5	.1	10.0	102	20.5	113	82	37	7	0	1	1
NE NORTH PLATTE	97	54	103	60	80	8	0	-.4	0	7.8	94	15.1	100	79	27	6	0	0	0
NE OMAHA	97	75	106	71	86	12	.7	-.3	.7	7.0	64	21.4	102	78	43	6	0	1	1
NE SCOTTSBLUFF	93	62	98	58	78	6	.6	-.4	.3	3.3	56	11.8	105	83	29	5	0	3	0
NE VALENTINE	94	65	104	58	80	7	.7	-.6	.7	12.5	167	20.2	147	91	40	7	0	0	0
NV ELY	73	53	87	49	63	-2	1.7	1.5	.6	4.8	253	11.1	185	96	59	0	0	6	1
NV LAS VEGAS	86	71	102	65	79	-9	.5	.4	.5	1.4	127	3.8	131	78	43	3	0	3	0
NV RENO	85	54	92	51	70	3	.2	.2	.2	1.1	100	7.3	155	87	30	1	0	3	0
NV WINNEMUCA	86	56	92	51	71	2	.3	.2	.3	2.3	164	7.1	131	91	31	4	0	2	0
NH CONCORD	86	54	94	41	70	2	0	-.8	0	6.9	82	29.8	135	95	35	1	0	0	0
NJ ATLANTIC CITY	87	62	98	50	75	2	.7	-.1	.7	5.6	54	28.9	104	93	44	1	0	1	0
NM ALBUQUERQUE	93	65	94	60	79	3	.7	-.3	.7	1.9	68	4.6	94	63	21	7	0	1	0
NM CLOVIS	93	66	95	64	80	3	.7	-.6	.7	3.2	42	6.3	53	64	25	7	0	0	0
NM ROSWELL	95	68	97	66	82	2	0	-.5	0	1.6	42	3.6	62	45	77	7	0	0	0
NY ALBANY	83	58	90	48	70	1	.8	-.1	.8	7.1	81	31.8	146	99	54	1	0	1	1
NY BINGHAMTON	83	59	87	47	71	4	.4	-.4	.4	9.5	99	28.2	123	83	38	0	0	2	0
NY BUFFALO	81	60	85	50	71	2	.1	-.9	.1	8.3	98	19.6	86	88	46	0	0	1	0
NY NEW YORK	86	67	95	60	77	2	.2	-.8	.2	8.7	87	38.1	142	85	46	2	0	1	0
NY ROCHESTER	83	60	87	50	71	2	.7	-.8	.7	8.1	107	19.7	99	94	49	0	0	1	0
NY SYRACUSE	81	58	84	49	69	0	.5	-.3	.5	6.5	64	20.7	83	95	52	0	0	1	1
NC ASHEVILLE	89	60	97	53	75	2	0	-.1	0	5.3	43	29.4	93	98	41	4	0	0	0
NC CHARLOTTE	91	66	101	57	79	0	0	-.8	0	5.5	54	24.4	86	80	35	4	0	0	0
NC GREENSBORO	89	64	100	54	76	0	0	-.9	0	9.7	84	29.2	103	80	39	4	0	0	0
NC HATTERAS	84	66	91	59	75	-3	0	-.4	0	7.1	50	38.3	115	92	59	1	0	0	0
NC NEW BERN	89	68	97	62	78	-1	0	-.4	0	12.5	75	38.5	111	90	47	3	0	0	0
NC RALEIGH	89	63	100	55	76	-1	.7	-.1	.7	4.8	41	29.8	106	90	40	4	0	0	0
NC WILMINGTON	88	69	98	61	79	-1	.7	-.4	.7	17.2	96	41.9	118	88	48	3	0	1	0
ND BISMARCK	87	58	94	47	72	3	.6	-.3	.3	5.8	91	10.1	86	86	34	4	0	4	0
ND FARGO	84	59	92	53	71	2	.3	-.3	.3	7.2	84	12.3	87	91	43	1	0	1	0
ND GRAND FORKS	85	55	95	50	70	3	1.1	-.6	.8	8.9	117	13.3	106	86	35	3	0	2	1
ND WILLISTON	93	58	102	48	75	7	.2	-.1	.2	3.3	60	6.6	67	78	21	5	0	3	0
OH AKRON-CANTON	86	62	94	54	74	3	0	-.7	0	7.2	73	23.4	95	89	46	1	0	0	0
OH CINCINNATI	91	66	101	55	79	4	.2	-.5	.2	5.4	50	23.8	84	92	43	4	0	1	0
OH CLEVELAND	85	63	91	54	74	4	0	-.8	0	9.9	104	23.3	98	91	50	1	0	0	0
OH COLUMBUS	90	64	101	53	77	4	.1	-.7	.1	8.7	80	22.4	85	85	38	3	0	2	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

National Weather Summary (continued from front cover)

FRIDAY...Light, occasionally moderate, unseasonable showers covered all of California and jeopardized raisins spread out to dry. The showers spread northeastward to the Dakotas. There were light showers across the northern Great Lakes to New England. Moderate, occasionally heavy showers and thunderstorms, from the remnants of Hurricane "Alicia," spread along a line from north-central

Texas to northeastern Kansas. Hot weather continued from the central Plains and Midwest to the Southeast. Temperatures rose to at least the high nineties in most of the Corn Belt.

SATURDAY...The rain moved on from the Southwest, allowing California to begin drying, but continued from Nevada to Montana, through the northern

Weather Data for the Week Ending Aug. 20, 1983

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS				
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAY 29	PCT. NORMAL SINCE MAY 29	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMPERATURE		PRECIPITATION	
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OK DAYTON	88	65	98	54	76	3	T	-.7	T	10.4	108	24.1	98	81	41	3	0	0	0
OK TOLEDO	86	61	93	53	74	4	.1	-.6	.1	8.9	97	20.0	95	94	50	2	0	1	0
OK YOUNGSTOWN	86	61	92	51	74	5	T	-.8	T	8.4	82	22.1	88	87	44	3	0	0	0
OK OKLAHOMA CITY	94	73	101	67	83	2	2.5	2.0	1.8	7.7	87	22.5	106	88	43	5	0	2	2
OR TULSA	98	79	101	77	88	7	T	-.6	T	2.9	28	20.4	81	76	39	7	0	0	0
OR ASTORIA	68	55	70	48	62	1	0	-.4	0	9.6	204	48.0	132	94	67	0	0	0	0
OR BURNS	80	54	86	48	67	0	.1	-.1	.1	2.3	115	11.1	163	79	37	0	0	4	0
OR MEDFORD	95	60	99	55	77	6	0	-.1	0	1.3	100	13.0	120	76	24	5	0	0	0
OR PENDLETON	88	61	94	53	74	3	0	-.1	0	1.6	114	8.2	117	51	19	3	0	0	0
OR PORTLAND	81	58	84	55	70	2	0	-.3	0	4.7	168	28.7	139	83	39	0	0	0	0
OR SALEM	85	52	90	48	68	2	0	-.2	0	5.0	238	35.1	158	85	33	1	0	0	0
PA ALLENTOWN	86	62	96	52	74	2	.1	-.9	.1	9.5	90	32.1	117	83	39	2	0	1	0
PA ERIE	82	64	89	54	73	4	.7	-.2	.7	14.0	143	26.5	112	84	54	0	0	1	1
PA HARRISBURG	87	61	100	51	74	-1	-.4	-.4	.4	5.3	56	28.7	117	85	38	1	0	1	0
PA PHILADELPHIA	87	63	99	55	75	0	T	-.9	T	4.5	42	32.3	123	92	40	2	0	1	0
PA PITTSBURGH	83	60	94	50	72	1	.3	-.4	.3	11.0	112	26.4	105	83	45	1	0	1	0
PA SCRANTON	84	60	94	48	72	2	.1	-.7	.1	9.6	100	27.8	126	86	40	1	0	1	0
RI PROVIDENCE	84	64	96	53	74	2	.3	-.6	.3	8.3	94	41.4	151	77	37	2	0	1	0
SC CHARLESTON	89	70	98	65	79	-1	0	-1.5	0	13.3	71	40.1	111	92	52	3	0	0	0
SC COLUMBIA	95	65	105	58	80	0	0	-1.3	0	6.5	46	29.3	89	90	32	6	0	0	0
SC FLORENCE	91	67	99	59	79	-1	0	-1.1	0	12.9	93	37.0	125	83	37	4	0	0	0
SC GREENVILLE	91	65	99	58	78	0	0	-1.8	0	7.1	61	31.8	94	85	39	4	0	0	0
SD ABERDEEN	85	63	90	53	74	3	2.1	1.7	.9	13.0	181	18.3	137	95	52	1	0	4	2
SD HURON	93	65	96	54	79	6	.3	-.2	.3	7.2	99	12.2	89	96	42	.6	0	2	0
SD RAPID CITY	92	65	100	59	79	7	.5	-.1	.3	5.5	80	10.0	78	83	33	5	0	4	0
SD SIOUX FALLS	94	67	101	57	80	8	T	-.7	T	8.6	99	18.5	108	91	47	7	0	0	0
TN CHATTANOOGA	93	68	102	61	80	2	0	-.7	0	6.8	65	30.3	87	93	39	4	0	0	0
TN KNOXVILLE	89	66	98	61	77	0	0	-.6	0	9.6	91	27.5	84	97	51	3	0	0	0
TN MEMPHIS	93	73	97	67	83	2	0	-.8	0	8.0	76	35.0	97	91	49	7	0	0	0
TN NASHVILLE	93	70	101	62	82	3	.1	-.7	.1	6.6	65	33.0	100	93	42	5	0	1	0
TX ABILENE	97	75	100	73	86	3	0	-.6	0	7.4	112	17.7	85	68	29	7	0	0	0
TX AMARILLO	97	66	100	64	82	4	0	-.7	0	3.1	36	10.4	74	72	23	7	0	0	0
TX AUSTIN	92	75	97	74	84	-1	0	-.2	.7	9.0	132	25.3	123	83	43	5	0	1	1
TX BEAUMONT	89	77	92	74	83	0	2.2	1.0	1.4	27.2	206	53.0	163	98	70	4	0	3	2
TX BROWNSVILLE	97	78	100	75	87	3	0	-.6	0	10.6	180	15.5	121	89	45	7	0	0	0
TX CORPUS CHRISTI	96	75	101	71	86	1	T	-.8	T	11.6	157	21.5	128	94	47	7	0	1	0
TX DEL RIO	99	75	104	72	87	2	0	-.4	0	2.3	47	6.3	58	75	31	7	0	0	0
TX EL PASO	95	66	97	59	80	0	.3	-.1	.3	1.4	45	4.3	96	68	21	7	0	1	0
TX FORT WORTH	94	76	101	71	85	-1	3.3	3.0	2.9	10.5	175	24.0	118	80	43	5	0	2	1
TX GALVESTON	89	79	95	76	84	1	7.8	6.8	6.3	20.7	201	34.6	144	87	64	4	0	3	2
TX HOUSTON	91	74	95	71	83	0	6.7	5.9	6.7	20.3	199	37.5	131	95	55	5	0	2	1
TX LUBBOCK	95	67	100	64	81	3	.1	-.4	.1	2.6	37	8.2	66	74	30	7	0	1	0
TX MIDLAND	100	72	103	69	86	5	0	-.4	0	.9	20	3.0	34	59	21	7	0	0	0
TX SAN ANGELO	96	69	98	66	82	-1	0	-.4	0	5.3	120	10.0	90	78	33	7	0	0	0
TX SAN ANTONIO	96	73	99	71	85	1	0	-.6	0	5.9	83	17.3	97	81	36	7	0	0	0
TX VICTORIA	95	76	97	74	86	2	.1	-.7	.1	14.7	152	26.4	120	95	50	7	0	1	0
TX WACO	96	76	103	73	86	0	1.8	1.4	1.5	8.5	142	18.6	89	86	44	5	0	2	1
TX WICHITA FALLS	99	74	105	70	87	2	.1	-.4	.1	5.8	87	15.7	88	79	32	6	0	1	0
UT BLANDING	87	61	91	55	74	3	.1	-.2	.1	3.6	150	9.4	152	78	33	3	0	2	0
UT CEDAR CITY	79	60	90	53	70	-2	2.2	2.0	1.1	4.0	167	10.9	165	82	43	1	0	5	2
UT SALT LAKE CITY	84	66	95	64	75	0	2.1	1.8	.9	4.3	172	14.9	148	85	45	1	0	6	2
VT BURLINGTON	82	59	84	49	70	3	.3	-.7	.2	10.0	100	29.7	141	95	41	0	0	3	0
VA NORFOLK	85	66	100	59	76	-2	0	-1.2	0	5.8	46	28.3	97	87	46	2	0	0	0
VA RICHMOND	89	61	102	51	75	-2	.2	-1.0	.2	6.9	55	26.2	94	100	41	4	0	1	0
VA ROANOKE	90	62	104	50	76	1	T	-.9	T	5.3	54	28.2	110	91	38	4	0	0	0
WA COLVILLE	87	50	90	46	68	2	0	-.3	0	4.7	157	16.7	158	77	29	1	0	0	0
WA QUILLAYUTE	69	51	71	47	60	1	0	-.6	0	15.9	212	70.2	124	95	57	0	0	0	0
WA SEATTLE-TACOMA	76	56	78	53	66	2	0	-.3	0	4.6	148	23.2	113	85	41	0	0	0	0
WA SPOKANE	97	58	91	56	73	4	0	-.2	0	4.5	196	12.9	179	58	30	2	0	0	0
WA YAKIMA	90	55	95	48	72	4	0	-.1	0	1.0	111	7.4	176	68	23	3	0	0	0
WV BECKLEY	80	60	87	51	70	1	.1	-.7	.1	12.6	116	23.5	81	96	57	0	0	2	0
WV CHARLESTON	89	64	99	54	76	2	.1	-.8	.1	9.0	76	25.7	88	93	47	2	0	1	0
WV HUNTINGTON	90	67	100	56	79	4	T	-.8	T	7.1	65	23.1	82	97	47	3	0	1	0
WV PARKERSBURG	87	64	98	55	76	2	.2	-.6	.2	7.2	61	25.8	87	94	44	2	0	1	0
WI GREEN BAY	84	65	91	56	74	7	.5	-.2	.3	7.7	88	17.5	96	97	62	1	0	3	0
WI LA CROSSE	91	67	97	62	79	8	.7	-.2	.3	5.7	53	15.3	73	95	48	4	0	4	0
WI MADISON	89	66	97	59	78	9	1.9	1.1	1.9	6.5	61	17.9	85	92	47	3	0	1	1
WI MILWAUKEE	86	67	98	61	77	7	3.1	2.4	2.4	7.7	81	24.8	122	83	52	2	0	2	2
WI WAUSAU	86	66	92	59	76	9	.8	-.1	.5	7.3	67	16.2	76	92	47	2	0	2	1
WY CASPER	89	58	94	56	74	5	.4	-.2	.2	7.1	237	13.6	162	90	29	5	0	4	0
WY CHEYENNE	85	57	89	54	71	4	1.4	1.1	1.2	7.4	142	16.5	162	89	36	0	0	5	1
WY LANDER	86	60	92	57	73	4	T	-.1	T	1.8	69	10.6	112	72	33	2	0	1	0
WY SHERIDAN	90	59	101	54	75	6	T	-.2	T	.8	20	4.9	45	77	24	4	0	1	0
PR SAN JUAN	90	77	93	75	84	1	.9	-.5	.4	10.6	77	25.1	81	92	68	5	0	5	0

BASED ON PRELIMINARY REPORTS AND 1951-80 NORMALS

Plains, and the western Great Lakes. Moisture from the remnants of Hurricane "Alicia" merged with moisture from the West and caused a line of showers and thunderstorms from central Oklahoma northeastward through Iowa to the northern Mississippi Valley. Showers in the central Plains kept temperatures lower but the heat wave continued from South Dakota across the Corn Belt, throughout the Southeast and most of the East Coast States.

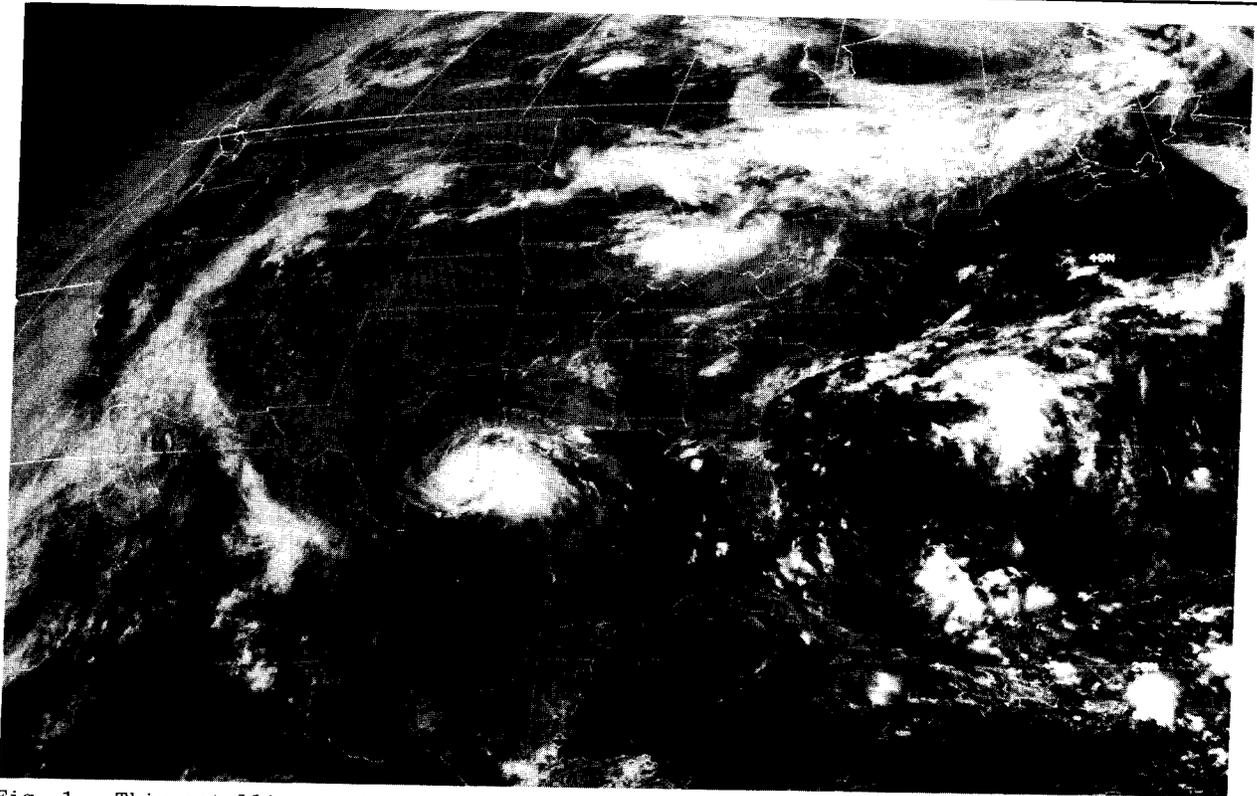


Fig. 1. This satellite picture, taken at 11:00 a.m. CDT on August 17, shows Hurricane Alicia poised in The Gulf of Mexico before striking the Galveston - Houston area of southeast Texas. Notice the clearly visible eye. (Picture by the NOAA geostationary satellite centered near the equator.)

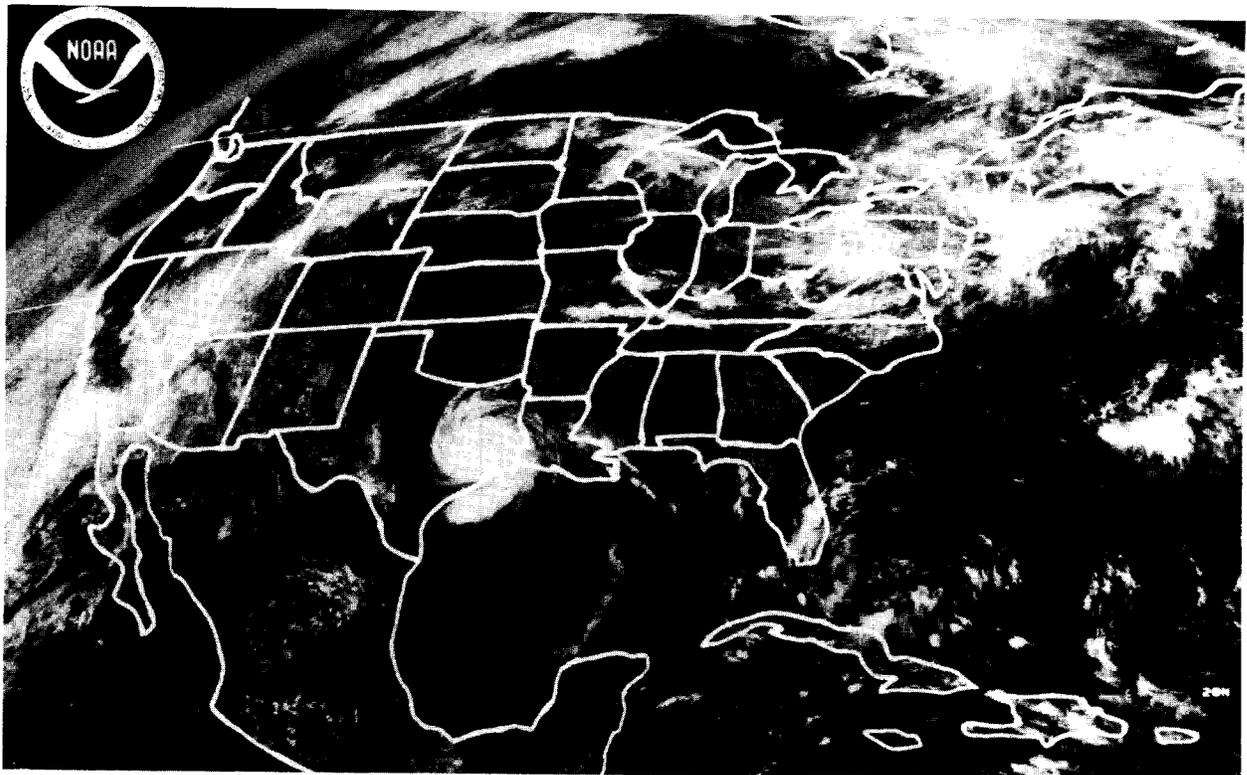
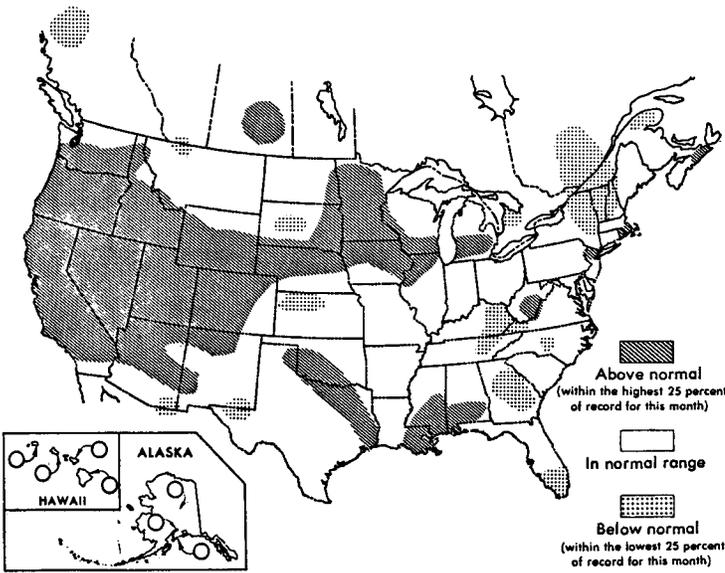


Fig. 2. This picture, taken at 12:00 noon CDT, August 18, shows hurricane Alicia after coming onshore near Houston, Texas, with clouds covering the eastern third of Texas. Alicia caused extensive damage in the Galveston - Houston area, but produced beneficial rains as its remains continued northward across parts of the western Corn Belt. (Photograph by the NOAA geostationary satellite centered near the equator.)

STREAMFLOW DURING JULY

Department of the Interior Geological Survey



The lingering effects of a record-deep mountain snowpack continued to keep streamflows at near record high levels in much of the western United States during July. Elsewhere in the nation, a lack of rainfall and prolonged high temperatures contributed to declining streamflows, and parts of the Northeast and Southeast reported near record low streamflows, according to a monthend check on water conditions by the U.S. Geological Survey, Department of the Interior.

USGS hydrologists said that record high streamflows were set in California, Colorado, Oregon, Utah, Washington, Wyoming, and Iowa based on reports from 172 key index stations across the country. Well-above average flows during July, within the highest 25 percent of record, were reported at 57 of the index gaging stations. Of the remaining stations, 98 reported near-average flows and 17 reported well-below average flows. Along the east coast, 12 of the 72 key index stations from Maine to Florida reported well-below average flows for the month. In the extreme Southwest, two stations reported their lowest July flows for the period of record.

The combined flow of the three largest rivers in the conterminous United States -- Mississippi, St. Lawrence, and Columbia -- which drain more than half of the lower 48 states, reflected the generally wet conditions. The average flow for the three rivers during July was 736 billion gallons a day (bgd), 20 percent above average, but down seasonally by 43 percent from June's flow. The flow of these large rivers serves as a convenient check for hydrologists in appraising the nation's surface water conditions.

Working in cooperation with federal, state, and local officials, the USGS routinely monitors the quantity and quality of the nation's surface and ground-water resources at more than 45,000 stations across the country. Highlights of July water conditions:

THE BIG FIVE RIVERS -- Mississippi River at Vicksburg, Miss., 355 bgd, 29 percent above average for July, but 56 percent below the near-record flow in June; Columbia River at

The Dalles, Ore., 199 bgd, 10 percent above average, but 34 percent less than last month's flow; St. Lawrence River near Massena, N.Y., 182 bgd, 3 percent above average, but down 5 percent from June's flow; Missouri River at Hermann, Mo., 71 bgd, 45 percent above average for July, but down 28 percent from June; and the Ohio River at Louisville, Ky., 33 bgd, 4 percent above average, but 39 percent below the June flow.

IOWA -- Flow of the Des Moines River at Fort Dodge, Iowa, averaged 5.1 bgd during July, the second highest July flow in 51 years of record. Flows on the Des Moines River have generally been above average for 16 of the past 19 months and have set new record high flows for six consecutive months from October 1982 to March 1983 and again in May 1983.

SOUTHEAST -- Streamflow conditions were below average in parts of North Carolina, Georgia, and Florida during July. Flow of the Deep River at Moncure, N.C., average 136 million gallons a day (mgd), 48 percent below average for the month. In Georgia, flow of the Flint River near Culloden, Ga., averaged 473 mgd, 36 percent below average for July. In southern Florida, flow of Fisheating Creek at Palmdale, Fla., averaged 34 mgd, 75 percent below the long-term average for the month.

NORTHEAST -- Streamflow conditions in the Northeast varied during July with above-average flows reported in northern New Jersey and Rhode Island, and below-average flows in eastern New York, New Hampshire, and western Vermont. Flow of the Hudson River at Hadley, N.Y., for example, averaged 379 cubic feet per second (cfs), 43 percent below average for July.

CALIFORNIA -- All of the key USGS index gaging stations in California reported well-above average flows during July. Several streams set new record high July flows. Flow of the Sacramento River at Verna, Calif., for example, averaged 15.9 bgd for July, the highest July flow in 54 years of record. Flows of the North Fork American River at North Fork Dam and the Merced River near Yosemite also set new record high flows for the month.

NORTHWEST -- Well-above average flows were reported throughout much of the Northwest. Two gaging stations in Oregon set new record-high July flows. Flow of the Willamette River at Salem, Ore., averaged 8.4 bgd, the highest July flow in 67 years of record, and flow of the Wilson River near Tillamook, Ore., averaged 290 mgd, the highest July flow in 53 years of record. Further north, flow of the Chehalis River near Grand Mound, Wash., averaged 594 mgd, the highest July flow in 55 years of record.

SOUTHWEST -- Although streamflow conditions were generally above average in northern Arizona and northwestern New Mexico, flows of streams along the states' southern borders were well-below average. Flow of the San Pedro River at Charleston, Ariz., averaged only 1.5 mgd during July, the lowest flow for July in 72 years of record. On the Delaware River near Red Bluff, N.M., there was no reported flow in the river, the first July in which zero flow was reported since 1947.

August 15-21

HIGHLIGHTS: Continued dry weather, accompanied by record high temperatures, stressed row crops and devastated pastures and rangelands from the northern and central Plains, across the Corn Belt, and into the southeast. Showers, locally heavy, as a result of Hurricane Alicia moved through east Texas, central Oklahoma, and eastern Kansas. A band of showers brought 1 to 2 inches of rainfall to most of the Great Lakes area. Southern California and the Rocky Mountain States received showers and recorded below-normal temperatures. Soil moisture was short to very short in most areas, except in the West where supplies were mostly adequate. Nationwide, farmers had more than 6 days suitable for fieldwork, except in the West where rains reduced fieldwork to about 5 days. Winter wheat harvest was 95% complete and confined to the northern-most producing areas. Spring wheat harvest was 74% complete, 28 points ahead of average. Sixty-five percent of the corn was in the dough stage, 1 point ahead of last year and equal to the average. Harvest was active in the South. Mid-western growers diverted acreage to silage. Ninety-one percent of the soybean acreage was blooming and 70% was setting pods. Eighty-eight percent of the cotton acreage was setting bolls, 6 points behind the average. Sorghum was in poor to fair condition with 73% of the acreage headed. Rice was 66% headed and 11% harvested. Maturity and harvest trailed last year and the average in all States. Summer vegetable harvest continued and planting of fall vegetables gained momentum. Fruit harvest increased in the Northeast and declined in the West. Supplemental feeding of livestock increased as pastures and ranges continued to deteriorate.

SMALL GRAINS: Winter wheat harvest reached 96% complete, 1 point ahead of last year and average in the 15 major producing States. Harvest was finished except in the northern-most producing areas. Harvest moved rapidly but trailed the average by 3 points in Colorado, 11 points in Idaho, 20 points in Montana, 7 points in Oregon, and 10 points in Washington. Plowing for fall seeding was active where moisture conditions permitted.

The spring wheat harvest advanced 24 points last week and was 28 points above average in the 5 major producing States. Montana growers harvested 30% of their acreage, and 27% of the crop was harvested in North Dakota during the week. Harvest advanced by only 6 points in Idaho, the only State where harvesting progress lagged the average.

CORN: Corn conditions declined in the northern and central Plains, the western Corn Belt and the southeast, where poor to fair conditions were reported. Conditions were good in the Great Lakes States and in the West. In the 17 major producing States, 99% of the crop was silking and 65% was in or past the dough stage, both equaling the average. Hot, dry weather pushed the crop toward maturity in the western Corn Belt where 60% was in or past the dough stage, compared to 45% last year and the average of 57%. Harvest increased in the South and was 26% complete in Georgia. South Carolina's harvest advanced to 10%. Fifty percent of the corn was mature in North Carolina and 19% was mature in Virginia. Acreage intended for grain continued to be diverted to silage.

SOYBEANS: Soybean conditions declined during the week and the crop was rated as poor to fair in most of the Nation. Rains benefited soybeans in parts of Nebraska, North Dakota, and the Great

Lakes States. In the 18 major producing States, 91% of the acreage was blooming, 1 point behind the average. Seventy percent of the acreage was setting pods, lagging the average by 3 points. Late planted soybeans in the south-central and southeastern States were under severe heat and dry weather stress. In those two areas, 42% and 48%, respectively, were setting pods compared to the average of 60% and 55%.

SORGHUM: Hot, dry weather continued to stress sorghum and conditions were poor to fair, except in Texas and Colorado where fair to good conditions were reported. The 7 major producing States reported 73% of the acreage headed, trailing the average by 10 points. Of the 7 major producing States, only Missouri reported development ahead of the average. In Texas, 33% of the crop was reported as fair and 45% in good condition. Harvest was delayed in Texas by rains from Hurricane Alicia, but the rains benefited the immature acreage.

COTTON: Cotton was in fair to good condition in the western States and mostly fair in the remainder of the producing belt. Eighty-eight percent of the acreage was setting bolls, compared with 87% last year and the average of 94%. Bolls are beginning to open, reaching the 15 percent mark in Arizona. Dry land cotton was under stress in most areas but irrigated acreage made excellent progress. Rains in Arizona and the Imperial Valley of California caused boll rot and insect buildup. Harvest was slowed in Texas by Hurricane Alicia and open cotton, along the central coast, sustained heavy damage.

OTHER CROPS: Rice was in fair to good condition. In the 5 major States, heading was 66% complete, 11 points behind average. Harvest was 48% finished in Texas and 18% complete in Louisiana. Harvest had not started elsewhere. Mature rice was heavily damaged in Texas and some acreage may be lost.

Tobacco was in poor condition in Kentucky and poor to fair condition in most other areas. Topping and harvest increased as more markets opened. Harvest was 83% complete in Georgia. Topping was 20% finished and harvest 10% complete in Maryland. Topping was 30% finished in Kentucky, with harvest just starting. In Tennessee, 12% of the burley tobacco was harvested.

Peanuts were in fair to good condition. Pegging was restricted by hard, dry soil in parts of the southeast.

VEGETABLES: Summer vegetable harvest continued to wind down as some crops suffered from dry weather in northern areas. Planting of fall vegetables was in full swing. Harvesting continued in California; however, hot temperatures reduced the quality of cauliflower, celery, and lettuce. Cantaloup harvest was in full swing in the San Joaquin Valley. Market tomato harvest was active but processing tomato harvest was slowed by rains. In Florida, land preparation and laying of plastic was active. Seeding and transplanting was increasing. Texas growers harvested a large volume of watermelons, cantaloups, peppers, and tomatoes.

FRUITS AND NUTS: Peach picking was nearly complete in the Southeast and in full swing in the Northeast. Harvest of early apple varieties increased in the Northeast. Nectarine, peach, and plum harvest was winding down in California, while harvest of prunes was beginning. Table grape

(continued on back cover)

CROP PROGRESS

FOR WEEK ENDING AUG 21, 1983

SOYBEANS % BLOOMING				SOYBEANS % SETTING PODS				CORN % SILKING				CORN % DOUGH			
	1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.		1983	1982	AVG.
ALA	85	90	87	ALA	58	81	75	COLO	91	84	91	COLO	41	28	35
ARK	67	79	74	ARK	34	55	46	GA	100	100	100	GA	99	100	99
GA	88	93	92	GA	63	69	62	ILL	100	100	100	ILL	83	87	82
ILL	99	99	99	ILL	91	89	86	IND	100	100	98	IND	70	95	80
IND	99	100	95	IND	80	85	75	IOWA	100	100	100	IOWA	59	44	61
IOWA	100	100	100	IOWA	95	75	91	KANS	99	96	99	KANS	55	70	70
KANS	90	65	85	KANS	55	35	65	KY	92	99	96	KY	62	99	86
KY	75	99	81	KY	27	58	54	MICH	95	100	99	MICH	40	80	68
LA	83	95	92	LA	61	76	73	MINN	99	99	99	MINN	50	38	43
MICH	100	100	99	MICH	80	85	81	MO	100	100	94	MO	85	79	71
MINN	99	99	99	MINN	93	92	91	NEBR	100	95	100	NEBR	70	45	60
MISS	84	95	96	MISS	39	63	64	N C	100	100	100	N C	93	93	93
MO	88	80	81	MO	69	53	56	OHIO	100	100	100	OHIO	75	93	65
NEBR	100	100	100	NEBR	96	60	90	PA	92	98	96	PA	45	56	55
N C	77	77	79	N C	39	46	50	S DAK	92	95	100	S DAK	46	28	52
OHIO	100	100	100	OHIO	85	94	85	VA	95	99	95	VA	75	84	71
S C	74	87	85	S C	36	51	51	WIS	100	98	96	WIS	52	49	45
TENN	91	95	91	TENN	35	52	55								
18 STATES	91	93	92	18 STATES	70	72	73	17 STATES	99	99	99	17 STATES	65	64	65

THESE 18 STATES PRODUCED 94% OF THE 1982 SOYBEAN CROP.

THESE 18 STATES PRODUCED 94% OF THE 1982 SOYBEAN CROP.

THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.

THESE 17 STATES PRODUCED 93% OF THE 1982 CORN CROP.

RICE % HEADED			
	1983	1982	AVG.
ARK	56	77	70
CALIF	40	45	59
LA	85	89	92
MISS	65	93	80
TEX	100	100	100
5 STATES	66	78	77

THESE 5 STATES PRODUCED 98% OF THE 1982 RICE CROP.

RICE % HARVESTED			
	1983	1982	AVG.
ARK	0	3	2
CALIF	0	0	0
LA	18	42	51
MISS	0	1	0
TEX	48	81	89
5 STATES	11	21	24

THESE 5 STATES PRODUCED 98% OF THE 1982 RICE CROP.

WINTER WHEAT % HARVESTED			
	1983	1982	AVG.
CALIF	100	100	100
COLO	93	92	96
IDAHO	40	38	51
ILL	100	100	100
IND	100	100	100
KANS	100	100	100
MO	100	100	100
MONT	80	45	60
NEBR	100	100	100
OHIO	100	100	100
OKLA	100	100	100
OREG	83	92	90
S DAK	100	100	100
TEX	100	100	100
WASH	87	80	77
15 STATES	96	95	95

THESE 15 STATES PRODUCED 80% OF THE 1982 WINTER WHEAT CROP.

SPRING WHEAT % HARVESTED			
	1983	1982	AVG.
IDAHO	17	27	33
MINN	85	55	54
MONT	55	15	20
N D	73	36	40
S DAK	97	93	91
5 STATES	74	44	46

THESE 5 STATES PRODUCED 96% OF THE 1982 SPRING WHEAT CROP.

SORGHUM % HEADED			
	1983	1982	AVG.
COLO	52	29	59
KANS	55	40	70
MO	79	78	77
NEBR	85	80	90
OKLA	60	65	80
S DAK	69	76	78
TEX	84	92	93
7 STATES	73	72	83

THESE 7 STATES PRODUCED 90% OF THE 1982 SORGHUM CROP.

COTTON % SETTING BOLLS			
	1983	1982	AVG.
ALA	98	100	100
ARIZ	100	100	100
ARK	100	100	98
CALIF	90	95	93
GA	100	98	99
LA	97	98	100
MISS	97	99	100
MO	94	100	89
N MEX	86	99	97
N C	89	97	95
OKLA	70	50	80
S C	100	100	100
TENN	96	100	92
TEX	82	80	92
14 STATES	88	87	94

THESE 14 STATES PRODUCED 99% OF THE 1982 COTTON 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 Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Record high temperatures weekend. Rainfall 0 most stations.

Soil moisture very short to short. Fieldwork: 6.5 days. Corn mature 58%, 1982 85%, average 79%; corn harvested 18%, 1982 31%, average 30%. Cotton setting bolls 98%, 1982 100%, average 100%; cotton bolls open 9%, 1982 8%. Sorghum harvested 7%, 1982 8%. Soybeans blooming 85%, 1982 90%, average 87%; soybeans setting pods 58%, 1982 81%, average 75%. Activities: Harvesting fruits, vegetables, corn and hay; pest control; and care of livestock and poultry. Conditions: Livestocks and peanuts fair to good; soybeans fair; and corn, cotton, sorghum, and pastures mostly fair.

ALASKA: The weather was cooler and wetter than it has been in previous weeks. In northern valleys temperatures were much colder than normal and rainfall was much higher than normal. In the south temperatures were near normal and rainfall was near to below normal. Tanana Valley was generally cool with temperatures averaging near 60°. Rainfall was heavy late in the week as a storm system moved through the area and amounts averaged more than 0.50 in., much higher than normal. Seasonal totals are now near or above average. In the Matanuska Valley and Kenai Peninsula the weather was cool early in the week, warmed up in the middle, then cooled off late in the week as a storm system passed through. Temperatures were near normal low to mid 60's. Most rain fell late in the week with amounts near 0.50 in. slightly below normal. Seasonal rainfall still remains more than 1.00 in. below normal in nearly all areas. Kodiak island weather was again dry with only 0.01 in. of rain falling early in the week. Temperatures were again warmer than normal averaging in the low to mid 60's with a high of 72 on the 17th. Despite the past two dry weeks seasonal rainfall is still nearly 9.00 in. above normal.

The weather was rainy and cloudy with cooler conditions and some intermittent sunshine in all areas of the Railbelt. Zero to 6 days were suitable for making hay or doing other fieldwork. The second cutting of hay making was delayed by wet conditions in many areas. Kenai Peninsula growers are winding up their hay harvest. A majority of small grains are turning color and earlier seeded fields are beginning to ripen. Mostly light to moderate wind or rain damage was reported and some areas are reporting frost damage to potato plants and pea vines. The vegetable harvest continues with excellent quality and there are prospects for a good yield. Soil moisture supplies are mostly adequate to surplus.

ARIZONA: Considerable thunderstorm activity over State through midweek. Rainfall amounts of 1.00 to 2.00 in. over western half State, amounts of 0.50 in. to 1.00 in. over eastern half, greatest amount 3.61 in. in Gila Bend. Severe weather over Salt River Valley the 16th with winds 60 to 80 miles per hour with small tornado, funnel clouds. New excessive rainfall amounts set for Phoenix with 0.90 in. in 5 minutes, 1.14 in. in 10 minutes, 1.17 in. in 15 minutes. Week started very warm, cooled dramatically during middle with extensive monsoon activity. A warming, drying trend

by end of week. Average temperatures 2 to 8° below normal.

Planting 1983-84 fall lettuce crop underway in Marana. Planting should begin this week Phoenix area, spread to Yuma County early September. Dry onion harvest continued although rains slowed harvest. Watermelon, sharilyn melons were also picked. Other activities included land preparation for fall lettuce. Harvest lemons in Yuma County continued, lemons in central Arizona not ready for harvest, but sizing normally, harvest expected to begin next month. Other 1983-84 citrus crops in satisfactory condition. Grapefruit, grapes picked limited scale. Growers in Southeastern Arizona harvesting apple crop, mostly blaze varieties. Peach harvest continued steady. Growers unable perform most field crop activities last week as rains continued. Cotton crop beginning to suffer, average to below average condition, high humidity, moisture caused boll rot, insect damage, extent unknown at this time. All cotton setting bolls, same as both last year, average. Bolls open on 15% of cotton acreage, compared 24% for average. Insecticides applied as weather permitted. Rains slowed alfalfa harvest. Corn progressing well, tasseling, sorghum average condition, heading-out, insecticides, herbicides applied.

ARKANSAS: Hot and dry. Temperatures up to 6° above normal. Highs 94 to 106°. Lowest 59°. Most stations no rainfall, highest 0.10 in.

Fieldwork 7.0 days. Crop growth slow. Soil moisture short. Cotton fair; bolls opening 6%, 5% 1982, 7% average. Rice good condition; headed 56%, 77% 1982, 70% average; ripe 3%, 13% 1982, 11% average; harvested 0, 3% 1982, 2% average. Soybeans fair to poor, non-irrigated poor to very poor; blooming 67%, 79% 1982, 74% average; setting pods 34%, 55% 1982, 46% average; harvested none, 5% 1982 and average. Corn good to fair; harvested 0, 6% 1982, 8% average. Sorghum fair condition; harvested 0, 6% 1982, average 9%. Pastures drying up. Cattle making slow gains.

CALIFORNIA: Above normal temperatures and various amounts of precipitation were recorded at most locations for the week. Tropical moisture creeping up into California was responsible for the precipitation, mostly in the form of showers and thundershowers. The southeast interior represented the only district with a below normal temperature average. None of the districts escaped the rainfall.

Excellent weather in the San Joaquin Valley. Rice developing rapidly, 40% of fields headed compared to 45% last year and an average of 59%. Cotton crop doing well with heavier than normal fruit set, continued good weather is needed, 90% boll set compared to 95% last year and an average of 93%. Rainstorms in the Imperial Valley resulted in boll rot and increased insect activity. Corn for silage being harvested. Mildew problems in sugarbeets. Dry beans are flowering and setting pods. Safflower harvest begun. Grain sorghum heading out. Scattered rain showers the past week caused some growers concern with potential damages to crops. Apple harvest underway in early varieties. Scab still a problem with heavy infestations in some orchards. Fungicides are being applied to grapes as they are highly susceptible to rot due to

rains and high humidity of past week. Maturity and volume harvested of table grape varieties continues to be slowed by hot, humid weather conditions. Thompson seedless variety also showing signs of shattering and poor storage condition due to rot problems in fields. Raisin grape harvest has begun. Some growers started tray lay this past week. Other growers are terracing rows in preparation for tray lay. Some harvested raisin grape were caught in the rain, however appears damage is minimal. Growers are more concerned with immature grapes still on the vine with potential bunch rot problems. First wine grapes of the season crushed. Nectarine, peach, and plum harvest continues as season winds down. Pear harvest continues, mostly in north coast areas. Pomegranate harvest has begun in light volume with Granada and Early Foothill varieties. Size and quality is variable from block to block as prune harvest gets underway. Valencia orange packed volume continues light with some problem due to granulation in larger sizes. Harvests of Valencias, as well as grapefruit were delayed due to rains in southern part of the State. Almond harvest continues, potential losses may result from the rains. Those almonds already harvested and windrowed will have to be spread and dried. The longer harvest is delayed due to wet fields, greater the problem with navel orange worm infestation. High temperatures affected quality cauliflower, celery, lettuce early in week. Harvest, planting delayed by rain late in week. Broccoli, cauliflower moderate supply central coast. Brussels sprouts nearing harvest. Cantaloup harvest full swing San Joaquin Valley. Planting delayed by rain Desert. Celery supplies fairly light. Planting, harvest potatoes Riverside County delayed by rain. Market tomato harvest active San Joaquin Valley, south coast. Processing tomato harvest near peak. Harvest delayed by rain late in week. Rain during week southern district; leached nutrients from dry feed lowering feed value. Northern districts range grass dry, high fire danger. Movement livestock from summer ranges beginning.

COLORADO: Warm and wet with shower activity declining late in the week. Brief heavy rains experienced in foothills and northern part of State. Temperatures were above normal.

Winter wheat is very good condition, 93% harvested, 92% last year, 96% average; 97% ripe, 98% last year, 99% average. Corn in good to very good condition; 91% silked, 84% last year, 91% average; 41% dough, 28% last year, 35% average. Sorghum in fair to good condition; 52% headed, 29% last year, 59% average. Barley, oats, spring wheat in good to very good condition. Barley 53% harvested, 53% last year, 60% average; 58% ripe, 64% last year. Spring wheat 8% harvested, 20% last year, 35% average. Statewide, 6.0 days suitable for fieldwork. Topsoil and subsoil moisture short in some areas but mostly adequate. Range and pasture condition good to very good Statewide.

FLORIDA: Weak high pressure with warm temperatures and spotty showers and thunderstorms continued over the State with drier air over the north portion.

Soil moisture variable, adequate to excessive south, mostly adequate north and central, short to adequate Panhandle. Corn harvest active, yields lower than expected. Tobacco marketing active. Soybeans, peanuts fair to good condition, both need more moisture. Cotton, sugarcane good condition. Hay making continues as weather permits. Pasture conditions are mostly good to excellent Statewide, poor to fair in some Panhandle localities. Cattle are in mostly good to excellent condition. Citrus excellent

condition most areas, some areas starting to show dry surface soils, some irrigation on high, dry sand hills, fruit sizes continue to vary, grapefruit testing active for early harvest, very little new crop fruit droppage. Normal summer weather with hot days, warm nights and afternoon thunderstorms prevailed in vegetable areas, rainfall was variable. Land preparation and laying of plastic continues very active. Seeding and transplanting are increasing for celery, eggplant, peppers and tomatoes. Seeding of sweet corn continues in the everglades. Plantings are expected to start in early September for most other vegetables.

GEORGIA: Cold front passed thru State evening of 13th and morning of 14th brining in cooler and drier air first part of week. High pressure, haze and higher temperatures returned by midweek and continued thru end of period on August 19. Temperatures averaged near normal over northern 2/3 of State and 1 to 3° below normal in south. Rainfall amounts averaged 0.10 or less over entire State except for extreme southeast Savannah 1.55 in. and Brunswick 3.73 in. Record warmth developed State over 20th and 21st generally fair weather prevailed. Highs reached 100° or more Statewide. Isolated thundershowers afternoon of 14th were mostly in the southeast, west central and mountain areas.

Soil moisture 48% very short, 44% short, 8% adequate. Average days suitable for fieldwork 5.8. Crops under stress due to high temperatures and moisture shortages. Insects increasing. Main activities insect and disease control, harvesting corn silage livestock and poultry care. Corn condition 9% very poor, 20% poor, 51% fair, 17% good, 3% excellent; 99% dough stage this year and average, 100% last year; 96% dent, 99% last year, 98% average; 83% mature, 92% last year and average; 26% harvested, 45% last year, 40% average. Cotton condition 3% very poor, 14% poor, 64% fair, 17% good; 100% setting bolls, 98% last year, 99% average; 13% bolls open, 9% last year, 17% average. Spraying cotton for weevils. Peanut condition 5% very poor, 17% poor, 57% fair, 15% good, 6% excellent; 2% dug, 1% average. Peanuts sprayed for armyworms and foliage feeders. Soybean condition 20% poor, 59% fair, 15% good; 88% blooming, 93% last year, 92% average; 63% setting pods, 69% last year, 62% average, 2% dropping leaves, 1% last year, 3% average; blooms and pods falling. Soybeans sprayed for foliage feeders and corn earworms. Tobacco condition 6% poor, 68% fair, 26% good; 83% harvested, 95% last year, 88% average. Watermelon condition 3% very poor, 21% poor, 69% fair, 7% good; 96% harvested, 97% last year, 94% average. Apple condition 13% very poor, 20% poor, 47% fair, 20% good; 44% picked, 60% last year, 47% average. Pecan condition 3% very poor, 13% poor, 58% fair, 26% good; applying insecticides to pecans. Hay crops 8% very poor, 22% poor, 49% fair, 20% good. Haying active. Pastures 10% very poor, 26% poor, 47% fair, 16% good. Pastures very dry. Grain sorghum condition 4% very poor, 27% poor, 56% fair, 13% good. Budworms and armyworms attacking grain sorghum some areas.

HAWAII: Weather favorable. Beneficial showers fell in the Hilo, and Volcano areas of Hawaii Island. Light rainfall elsewhere. Insect problem in watermelon fields on Oahu. Frequent spraying necessary. Vegetable supplies; Chinese cabbage heavy. Others light. Banana supplies steady. Papaya supplies light. Weather favorable. Sugar harvesting normal activity. Pineapple harvesting seasonally active. Pastures generally good condition.

IDAHO: A moist southwesterly flow aloft brought showers to most of central and southern Idaho. A drier westerly flow over the Panhandle kept that region relatively rain free. Precipitation amounts were below normal in the north and above to much above normal in the south. In the Panhandle little if any rain fell. Most amounts were less than 0.05 in. In the south central and west rainfall was in the 0.05 to 0.15 in. category. New Meadows was the exception as they recorded 0.37 in. The eastern section of the State reported rainfall amounts in the 0.25 to 0.50 in. range. Numerous locations reported locally heavy rainfall during the week. The heaviest reported amount was in the Malad area with 1.64 in. Temperatures were normal to slightly above normal in all but select locations of the southeast. Departures above normal were only as great as 4° in the Moscow and Idaho Falls region. Readings were only about 1° or so below normal in the southeast where extensive clouds and precipitation kept things a bit cooler.

Farmers reported 5.2 days suitable for fieldwork. Winter wheat was 40% harvested compared to 38% last year and 51% average. Spring wheat climbed to 17% harvested trailing 1982's 27% and 33% average. Barley was 21% harvested versus 28% last year and 35% average. Potatoes were turning color on 25% of the acreage versus 27% last year. The second cutting of alfalfa was 55% complete trailing last year's 72%. The dry pea harvest topped 50% complete compared to 78% a year ago.

ILLINOIS: Temperatures 7 to 14° above normal. Precipitation 0.00 to 2.00 in., widely scattered.

Soil moisture 97% short, 3% adequate; 6.8 days suitable fieldwork. Corn silking 100%, 1982 100%, average 100%; dough 83%, 1982 87%, average 82%; dented 35%, 1982 53%, average 43%; condition 4% good, 45% fair, 46% poor, 5% failure. Soybeans 99% blooming, 1982 99%, average 99%; 91% setting pods, 1982 89%, average 86%; 5% turning yellow, 1982 4%, average 4%; condition 9% good, 60% fair, 31% poor. Alfalfa hay 3rd crop 52% cut, 1982 55%, average 49%; condition 5% good, 31% fair, 61% poor, 3% failure. Pasture condition 8% fair, 70% poor, 22% failure. Livestock condition fair.

INDIANA: Hot temperatures through week averaged 7 to 13° above normal with highest 95 to 100°. Temperatures in 90's or above 7 days south, 6 days central, and 5 to 6 days north. Precipitation as scattered thunderstorms midweek and weekend. Totals 1.4 in. northwest to under 0.10 in. southeast and 0.50 to 1.00 in. central. Evaporation 1.40 to 2.20 in. Soil temperatures highest of summer reaching mid 90's to low 100's. Growing degree days 180 to 211, 27 to 66 above normal.

Fieldwork averaged 6.0 days. Topsoil and subsoil moisture short. Winter wheat 100% harvested, 1982 100%, average 100%; winter wheat land 20% plowed, 1982 20%, average 20%. Corn condition same at poor to fair, corn 100% silked, 1982 100%, average 98%, corn 70% in dough, 1982 95%, average 80%. Soybeans 99% blooming, 1982 100%, average 95%; soybeans 80% setting pods, 1982 85%, average 75%. Pastures poor.

IOWA: Very hot and dry. Spotty showers fell at the weekend. Temperatures average 13° above normal. Precipitation near a half an in. Numerous record highs were established during the week, 108° was reported at Des Moines the 16th and at Keosauqua the 17th. To date this is Iowa's hottest August since 1947 and the least precipitation for August on record.

Days suitable 7.0. Corn in milk stage 90%, 80% last year, 92% normal; corn in dough stage 59%, 44% last year, 61% normal; corn in dent stage 18%, 10% last year, 18% normal. Soybeans setting pods 95%, 75% last year, 91% normal. Alfalfa 3rd crop hay harvested 30%, 31% last year, 39% normal. Clover hay 2nd crop harvested 87%, 85% last year, 90% normal. Topsoil moisture 98% short, 2% adequate. Subsoil moisture 77% short, 23% adequate.

KANSAS: Precipitation 0.50 to 1.50 in. central 1/3 and along northern border. Otherwise, continued hot and dry. Temperatures averaged 85° southeast, 86 to 89° elsewhere, 6 to 8° above normal south and east central, 10 to 12° above normal north and west central.

Corn 99% silked, 96% last year, 99% average; 55% dough, 70% last year and average; 10% dent, 25% last year, 35% average; 2% mature, 10% last year, 15% average. Sorghum 55% headed, 40% last year, 70% average; 4% colored, 3% last year, 15% average. Soybeans 90% bloomed, 65% last year, 85% average; 55% podded, 35% last year, 65% average; 3% shedding leaves, 1% last year and average. Dryland crops severely stressed, irrigated crops doing well. Alfalfa hay third cutting 75% complete, 75% last year, 80% average; fourth cutting 4% complete, 10% last year and average. Pastures and range poor to fair, supplemental feeding necessary most areas. Soil moisture extremely short. Days suitable for fieldwork: 7.0.

KENTUCKY: Hot and dry. Temperatures 5 to 10° above normal, 100 many areas 20th and 21st. Many stations no rainfall, 0.25 in. or less others.

Crops deteriorating. Severe moisture stress. Soil moisture 83% critically short, 16% short, 1% adequate. Tobacco poor; burley 30% topped, 82% year ago, 68% average, burley harvest 4% complete, 18% last year, average 11%; dark harvest underway. Corn poor, some intended grain acres diverted to silage; 92% silked or beyond, 99% last year, 96% average; 62% dough or beyond, 99% last year, average 86%; 22% denting, 62% year ago, 48% average. Soybeans poor to fair, need rain; 75% blooming or beyond, 99% last year, 81% average; pods setting 27%, last year 58%, average 54%. Pastures poor. Livestock ponds low or dried up.

LOUISIANA: Rainfall ranged 0 to 1.83 in. Temperatures averaged 2 to 4° above normal. High 99°; low 67°.

Soil moisture short north, adequate central, adequate to surplus south. Days suitable 4.7, rains hampered activities south. Corn mature 90%, 92% 1982 and average; harvested 25%, 54% 1982, 45% average; condition fair to good. Cotton setting bolls, 97%, 98% 1982, 100% average; less than 1% open, 6% 1982, 13% average; condition fair. Insect control active. Rice headed 85%, 89% 1982, 92% average; ripe 41%, 56% 1982, 64% average; harvested 18%, 42% 1982, 51% average; condition fair to good. Sorghum headed 93%, 98% 1982, turning color 75%, 89% 1982, 77% average; ripe 33%, 68% 1982, 46% average; harvested 9%, 29% 1982, 20% average; condition fair to good. Soybeans blooming 83%, 95% 1982, 92% average; setting pods 61%, 76% 1982, 73% average; condition fair to good. Sugarcane condition good, treating for borers. Sweetpotato harvest 11%, 18% 1982, 20% average; condition good. Pecans fair to good. Vegetables fair, planting fall gardens. Pastures fair to good. Livestock good.

MARYLAND AND DELAWARE: Cooler temperatures and very little precipitation, 7.0 days

suitable for fieldwork. Temperatures 2 to 3° below normal only scattered rainfall.

Delaware: Corn, silked 95%, last year 100%; dough stage 50%, 1982 98%; dented 25%, 1982, 65%. Soybeans 65% bloomed, 85% last year; pods set 30%, 55% 1982. Lima beans 45% harvested. Snap beans 80% harvested, 100% last year. Sweet corn 80% harvested, 85% last year. Watermelons 55% harvested, cantaloupes 75% harvested. Tomatoes 40% harvested, cucumbers 75% harvested; last year tomatoes and cucumbers 90% harvested. Peaches 65% harvested. Alfalfa 3rd cutting 70% complete, 85% in 1982. All other hay 3rd cutting 40% completed, 30% last year. Corn and soybeans in poor to fair condition. Topsoil moisture short.

Maryland: Corn silked 90%, last year 95%; dough stage 60%, last year 70%; dented 15%, 30% in 1982. Soybeans 45% blooming, 70% last year, 20% setting pods, 45% in 1982. Tobacco 50% bloomed, 20% topped and 10% harvested, last year 25% harvested. Lima beans 55% harvested. Sweet corn 75% harvested, 80% in 1982. Watermelons 55% harvested. Cantaloupes 70% harvested. Tomatoes 60% harvested, 65% last year. Cucumbers 90% harvested, 90% in 1982. Peaches 30% harvested. Alfalfa 3rd cutting 60% completed, 80% last year; 4th cutting 5%, last year 10%. All other hay 35% complete, 50% in 1982. Corn and soybeans in poor to fair condition. Tobacco in poor condition.

MICHIGAN: This was a hot and dry week for most of Michigan. Temperatures averaged 8° above normal. Precipitation was heaviest over the upper Peninsula. Most of the State had very little precipitation.

The rainfall helped replenish soil moisture supplies. Statewide 6.0 days were suitable for fieldwork. Corn is 95% silked, 100% last year, 99% average; corn is 40% in dough, 80% last year, 68% average. Oats are 75% combined, 80% last year, 82% average. Soybeans 100% blooming, 100% 1982, 99% average; soybeans 80% setting pods, 85% last year, 81% average. Dry beans 80% setting pods below the 90% last year and average. Second cut hay is 85% complete, 85% last year, 80% average. Third cut hay has begun in southern portions of the State. Vegetable crops stressed by the hot weather. Harvesting of tomatoes, sweet corn and cucumbers progressing normally.

MINNESOTA: High temperatures for the week; 96° at Redwood Falls. Low; 42° at Hibbing. Greatest weekly total precipitation, 4.04 in. at Alexandria.

Heat and dryness continued to stress row crops in most of southern half. Incomplete development of bean pods and corn ears. Yields being cut. Good condition of row crops in east central and parts of central and west central where rainfall has been timely. Small grain harvest nearly completed, the earliest in several years. Days suitable for fieldwork: 5.8. Topsoil moisture 36% very short, 39% short, 25% adequate. **Milk:** Field corn 93%, 1982 87%, normal 90%. **Dough:** Field corn 50%, 1982 38%, normal 43%. **Dent:** Field corn 8%, 1982 8%, normal 8%. **Setting pods:** Soybeans 93%, 1982 92%, normal 91%. **Harvested:** Spring wheat 85%, 1982 55%, normal 54%; oats 93, 1982 82%, normal 75%; barley 93%, 1982 73%, normal 76%.

MISSISSIPPI: Temperatures 3 to 7° above normal. Extreme 100°. Spotty rainfall in the southern 1/3 of the State.

Soil moisture adequate southern area of State. Short to very short remainder of State. Fieldwork 5.9 days suitable, 3.7 last year, 5.1 average. Soybeans 84% blooming, 95% last year, 96% average; 39% podding, 63% last year, 64%

average; crop in fair condition. Cotton 97% setting bolls, 99% last year, 100% average; condition fair. Rice 65% headed, 93% last year, 80% average; 8% turning, 23% last year; 0% harvested, 1% last year, 0% average. Sorghum 91% headed, 2% harvested, corn 56% mature, 11% harvested. Hay 77% harvested, sorghum silage 47%, peaches 91%, watermelon 79%, corn silage 65%, sweetpotatoes 1% and peanuts 4%. Pasture condition fair to good.

MISSOURI: A heat wave and drought conditions continued over the State as temperatures averaged 8° above normal. Rainfall was generally light to none across the State; scattered thunderstorms produced measurable amounts in a few isolated areas.

Days suitable for fieldwork: 6.3. Corn 85% in dough stage, 79% last year and 71% normal. Corn 54% dented, 48% last year and 43% normal. Corn 13% mature, 11% last year and 16% normal. Grain sorghum 79% headed, 78% last year and 77% normal. Soybeans 88% blooming, 80% last year and 81% normal. Soybeans setting pods 69%, 53% last year and 56% normal. Third cutting alfalfa hay 61% harvested, 61% last year and 63% normal. Cotton 94% setting bolls, 100% last year and 89% normal. Cotton condition 27% fair and 73% poor. Corn condition 1% good, 9% fair and 90% poor. Soybean condition 1% good, 32% fair, and 67% poor. Grain sorghum condition 1% good, 34% fair and 65% poor. Pasture condition 3% fair and 97% poor. Topsoil moisture supply 100% short.

MONTANA: Hot and very dry again over eastern sections. Temperatures 5 to 8° above normal in east and near normal in west. Precipitation moderate to heavy over southwest, light to moderate elsewhere, except none over north central and northeast.

Soil moisture short to adequate. Fieldwork 6.6 days suitable. Percent crop progress this year, last year, average: Winter wheat harvested 80, 45, 60; ripe 15, 40, 30; turning 5, 15, 10; spring wheat harvested 55, 15, 20; ripe 30, 25, 30; turning 15, 50, 40; barley harvested 15, 20, 20; ripe 35, 30, 35; turning 15, 40, 35; oats harvested 60, 20, 25; ripe 25, 30, 30; turning 15, 40, 30; second cutting alfalfa hay 60, 45, 45; wild hay 80, 76, 78. Fall winter wheat seeding expected to start September 6. Fall grazing prospects fair.

NEBRASKA: Temperatures 10 to 12° above normal except Panhandle 5° above normal. As of 19th 0.10 to 0.20 in. precipitation except southeast 0.50 in. Much needed additional rain over weekend.

Corn mostly good to fair; dough 70%, 45% last year and 60% average; dent 10%, 6%, 10%. Soybeans fair; podding 96%, 60%, 90%. Sorghum mostly fair to poor; heading 85%, 80%, 90%; turning color 8%, 4%, 15%. Alfalfa third cutting 40%, 40%, 40%. Pasture and range feed short to adequate. Topsoil moisture short. Subsoil moisture mostly short to adequate. Days suitable 6.9.

NEVADA: Tropical moisture continued to funnel across Nevada during week. Numerous thunder-showers and rain showers were produced throughout State. Several flash flood warnings and watches issued by National Weather Service during period. Several flash flood conditions reported with several roads closed to traffic for short periods of time. Hardest hit was extreme south. Temperatures across State near normal early in period. Thick cloud cover and cool afternoon rain drove afternoon temperatures 5 to 18° below normal latter part of week.

Scattered showers brought harvest of remaining acres hay and small grains to a halt.

Unseasonable rains lowered prospective yields alfalfa seed considerably.

NEW ENGLAND: Temperatures were below normal at beginning of week, but warmed to above normal temperatures by end of week. Precipitation ranged from 0.25 to 0.50 in. across New England. The Massachusetts coast received 1.50 in. on 15th.

Soil moisture supplies adequate. Days were suitable for fieldwork 6.0. Second cutting of hay 70% complete. Apple maggots and scab beginning to show in apple orchards. Cranberry and blueberries rated in excellent condition, and apples, peaches, and pears rated in good condition.

NEW JERSEY: Temperatures averaged 3° above normal. Extremes 49° on the 16th and 102° on the 20th. Weekly rainfall averaged 0.16 in. north, 0.07 in. central and 0.04 in. south. The heaviest 24-hour total 0.55 in. on the 18th to 19th. Estimated soil moisture, in percent of field capacity, this past week averaged 73% north, 60% central and 39% south. Four in. soil temperatures averaged 76° north, 80° central and 81° south.

Fieldwork: 6.8 days suitable. Harvest of summer vegetables continues. Irish potatoes showing poor yields to date. Blueberry harvest is virtually complete. Peach harvest is continuing. Topsoil moisture supplies are short despite last week's rain. Corn and soybeans remain in poor condition.

NEW MEXICO: Rainfall sparse during week, by night of 21st, southeastern Plains received heavy showers. August temperatures above normal, except southwest, minimum temperature 38°, western mountains, maximum temperature 104°, southeastern Plains.

Cotton fair-good, fields setting bolls; 86% current, 99% last year, 97% average, hot days needed. Alfalfa rated good, 80% 3rd cutting complete, few southern counties well into or finishing 4th cutting. Irrigated sorghum good-excellent, 80% headed; dryland sorghum fair 25% headed.

Corn rated good to excellent, 97% tasseled, 80% dough. Mesilla Valley chile harvest picking up, central and northern chile fields continue harvest. Eastside potato harvest continues. Peanuts rated good. Ranges vary, poor southeast excellent northern highlands. Cattle, sheep good, supplemental feeding dryer areas.

NEW YORK: Temperatures mostly above normal, rainfall mostly below normal.

Oats for gain 43% complete, 50% 1982, 54% average. Winter wheat harvest done. Spring wheat harvest progressing. Second cutting alfalfa 88% done, 78% 1982, 75% average; third cutting alfalfa 12% complete, 10% 1982, 13% average. Apple crop condition good, harvest of early varieties underway in all areas. Peach, pear harvests progressing. Early potato harvesting widespread. Beet harvest underway. Bird damage evident in sweet corn this year.

NORTH CAROLINA: Temperature: Near normal in mountains, 1 to 2° above in Piedmont and coastal regions. Precipitation: Practically non-existent.

Soil moisture: 70% very short, 29% short, 1% adequate. Days suitable for fieldwork: 6.4. Condition: tobacco 11% poor, 74% fair, 15% good. Corn: 61% poor, 37% fair, 2% good. Cotton: 10% poor, 66% fair, 24% good. Peanuts: 19% poor, 68% fair, 13% good. Soybeans: 35% poor, 60% fair, 5% good. Irish potatoes: 16% poor, 69%

fair, 15% good. Apples: 18% poor, 67% fair, 15% good. Sweetpotatoes: 19% poor, 67% fair, 14% good. Phenological stages: Cotton setting bolls; 89%, 1982 97%, 95% average. Corn soft-dough: 93%, 1982 93%, 93% average. Corn dent 86%, 83% 1982, 87% average. Corn mature 50%, 1982 56%, 57% average. Soybeans blooming 77%, 77% 1982, 79% average. Setting pods 39%, 1982 46%, 50% average. Harvests: Flue-tobacco 51%, 79% 1982, 71% average. Major farm activities: Tobacco irrigation harvest and marketing, corn silage cutting, spraying peanuts and soybeans, preparing machinery for harvest, cleaning storage bins, planning and spraying fall vegetables and truck crop harvesting.

NORTH DAKOTA: Average temperatures were almost 4° above normal. Averages from 70° north central and northeast to 75° southwest. Extremes from 43° northwest on the 14th to 102° northwest also the 14th. Rainfall varied greatly, average amounts were below normal north central, northeast, central and east central divisions, near normal west central and southeast and above north northwest, southwest and south central. Total amounts generally ranged from 0.04 in. to 1.81 in., isolated heavy rainfall produced over 7.00 in., in one northeastern area.

Scattered showers provided limited relief from hot, dry conditions. Eighty-nine percent of State still short of topsoil moisture. Small grain harvest progressed rapidly with overall pace well ahead of normal. Average of 5.9 days suitable. The percent compared with last year and average: Hard red spring wheat 73, 36, 40; durum 59, 22, 25; barley 92, 65, 61; oats 79, 52, 53; flax 10, 6, 5. Row crops still mostly fair to good condition. Development mostly near or ahead of normal. Stages of development with progress this year, last year and average: Sunflower bracts yellow 5, 1, 3; corn denting or beyond 21, 21, 22; soybeans fully podded 84, 71, 84; dry beans fully podded 70, 74, 88.

OHIO: Temperatures 5 to 9° above normal. Highs from mid 80's to low 100's. Up to 5 days with 90°+ central through South. Lows in low to mid 60's. Precipitation 0.00 to 0.50 in., humidity slightly below normal.

Soil moistures critically dry in most areas. Corn fair, soybeans fair to good. Southwest still severe drought. Some spraying for insects in soybeans. Permission to graze PIK acres requested in 30 counties. Days favorable for fieldwork: 7.0. Soil moisture 70% short, 10 adequate. Wheat harvested 100%, 100% 1982, 100% average. Soybeans blooming 100%, 100% 1982, 100% average; soybeans setting pods 85%, 94% 1982, 85% average. Corn silking 100%, 100% 1982, 100% average; corn dough 75%, 93% 1982, 65% average; corn dented 25%, 40% 1982, 20% average. Corn silage harvested 10%, 15% 1982, 5% average. Pasture condition poor to fair.

OKLAHOMA: Temperatures ranged from 1° above normal north central and southeast to 7° above normal southwest. Precipitation was most significant across central third of State, with eastern and western portions receiving little except in isolated spots, range was from 0 in Panhandle, northeast, and east central to 1.96 in. central.

Remnants of Hurricane Alicia brought much needed relief to central Oklahoma. Eastern and western areas still need rain to ease severe stress on row crops. Moderate to heavy rainfall missed the major cotton, soybean, sorghum, and corn producing areas and dryland acreages of these crops are in poor condition. Irrigated crops continued in good condition. Pastures and ranges have undergone considerable burning

in west due to intense heat and prolonged moisture shortage. Extreme heat resulted in some cattle deaths, but losses small. Cotton setting bolls 70%, 50% 1982, 80% average. Sorghum headed 60%, 65% 1982, 80% average.

OREGON: Temperatures Statewide ranged from 3 to 7° above normal. Shower activity confined to the eastern part of the State; mostly less than 0.20 in.

Winter wheat 83% harvested, 92% last year, 90% average. Yields running generally at or well above average. Preparations for fall seeding continues in most areas. Mint harvest is in full swing. Clover harvest is underway. Sugarbeets for seed are now being planted in the Willamette Valley. Bartlett pear harvest is underway in lower Hood River Valley and Medford area; fruit size is generally good. Mid-season apples continue to be picked in southern part of State. Peach harvest active in Willamette Valley. Evergreen blackberry harvest continues. Cranberry growers have treated bogs to control cranberry girdler moth. The filbert crop is expected to be smaller than last year's crop due to brown stain and a lighter set. Early potato harvest is in full swing in the Hermiston-Boardman area; processing plants are running on potatoes direct from field. Higher than normal incidence of hollow heart has been observed in potatoes in Malheur County. Snap bean harvest is winding down, yields have been very good. Sweet corn, cucumbers, and broccoli are being harvested. Ranges are in good to excellent condition. Willamette Valley pastures in fair condition as they begin to dry. Livestock are in good condition.

PENNSYLVANIA: The week started out cool but ended sizzling hot with the dry spell continuing. The only relief was in the form of scattered showers and thundershowers on the 18th and 19th. The State average temperature was 72°, 3° above normal. Extremes were 101° and 40°. Rainfall for the State was 0.30 in., 0.57 in. below normal.

Days suitable: 5.0. Moisture, mostly short. Activities: Plowing; baling straw; making hay and haylage; seeding alfalfa; and harvesting oats, corn silage, tobacco, potatoes, sweet corn, tomatoes, peaches and grapes. Oats 90% harvested, last year 89%. Potatoes 24% harvested, last year 22% harvested. Corn 45% in dough or past and 8% dented; last year 56% in dough or past and 11% dented; average 55% in dough or past and 10% dented. Fall plowing 15% complete, last year 20% complete, average 18%. Second crop alfalfa 94% harvested, last year 90%. Third crop alfalfa 45% harvested, last year 36%. Second cutting clo-tim 74% harvested, last year 73%. Quality of hay made mostly good. Feed from pastures below average to average.

PUERTO RICO: Week ending Friday. Island average rainfall 2.47 in. or 0.81 in. above normal. Highest weekly total 7.40 in. Highest 24-hour total 3.08 in. Temperature averaged about 83 to 82° on coasts and 78 to 75° Interior Divisions. Mean stations temperature ranged from 84.1 to 69.2°. Extremes 95 and 58°.

SOUTH CAROLINA: No precipitation recorded for the week. Temperatures normal to well above normal.

Soil moisture short to very short, 6.0 days for fieldwork. Corn harvest for grain 10%, 23% last year, 19% average some cut for silage; condition poor to fair. Cotton 100% setting bolls, 100% last year, 100% average; 8% open bolls, 10% last year, 17% average; condition poor to fair. Soybeans 74% blooming,

87% last year, 85% average; 36% setting pods, 51% last year and average; condition poor to fair, some blooms dropping due to heat and dry stress. Insect problems light. Tobacco 59% harvested, 93% last year, 85% average. Peaches 93% harvested, 99% last year, 94% average. Apples 8% harvested, 20% last year, 15% average; condition fair. Grapes 20% harvested, 37% last year, 41% average; condition fair. Pastures poor to fair condition.

SOUTH DAKOTA: Average temperatures 3 to 12° above normal. Extremes: 105° and 45°. Rain showers moved from southwest to north central to northeast, dropping 0.50 to 2.00 in., and improving row crop conditions in these areas.

Important east central and southeastern districts remained dry. Corn and soybeans in these regions under stress. Problems with pestilence again this week. In addition to grasshoppers eating pastures and alfalfa in the west and second brood corn borers Statewide, there was trouble with woolly bear caterpillars eating soybean and sunflower foliage in the east. Thirty percent soybean defoliation reported in some counties. Spring small grain harvest virtually complete. Main activities were plowing small grain stubble, spraying, haying and working PIK acres. Days suitable for fieldwork: 5.6. Winter wheat harvested 100%, 1982 100%, average 100%. Spring wheat harvested 97%, 1982 93%, average 91%. Sorghum headed 69%, 1982 76%, average 78%. Corn silked 92%, 1982 95%, average 100%. Corn dough 46%, 1982 28%, average 52%.

TENNESSEE: The week was hot and dry with temperatures above normal in the middle and west and little or no rainfall in all areas.

Corn dough stage 88%, 1982 100%, average 100%; dented 44%, 1982 85%, average 60%; mature 6%, 1982 21%, average 12%. Some corn cut for silage. Cotton setting bolls 96%, 1982 100%, average 92%; open bolls 5%, 1982 6%, average 6%. Soybeans blooming 91%, 1982 95%, average 91%; setting pods 35%, 1982 52%, average 55%. Tobacco harvested: burley 12%, 1982 30%, average 25%; dark-fired 6%, 1982 30%, average 25%; dark air-cured 5%, 1982 29%, average 22%. Pastures poor.

TEXAS: Rainfall amounts above normal as a tropical storm developed into Hurricane Alicia over northwest Gulf. As Alicia moved onshore, rainfall amounts ranged from 6.00 to 8.00 in. over southeast, upper coastal Plains. Although losing strength over land, Alicia still had enough moisture to dump 4.00 in. of rain over North Texas. Temperatures near normal or within 1 or 2° above normal Statewide, except High Plains, where average readings were degrees above normal.

Crops: Hurricane Alicia swept through State leaving wake of damage from heavy winds, rain along Upper Coastal areas. However, showers were beneficial to dry areas of south, central Texas. West Texas, Plains, most severely affected by drought, received very little rain, conditions remain extremely dry. East Texas, moisture conditions remain good. Cotton harvest continued at slow pace. Fields along upper coast, in path of storm, received severe damage. Losses expected to be moderate to heavy. In other parts of State, dryland fields stressed by lack of moisture. Low Plains, West Texas, extreme drought affected growth, some losses expected. Insect damage light. Currently condition is 64% of normal, same as a year ago. About 1% excellent, 31% good, 53% fair, 15% poor. Sorghum continues to develop well despite stress to dryland fields. Harvest active but delayed by rains from Alicia. Yields continue good.

Low Plains, dry conditions, high temperatures caused significant damage. Some fields have been cut, baled for hay. Overall condition 67% of normal compared with 80% a year ago. Reported condition 7% excellent, 33% good, 45% fair, 15% poor. Corn harvest remained active as weather permitted. Unharvested fields Coastal area in Alicia's path received heavy wind damage, lodging both late percentage expected to be lost. South, South Central Texas, harvest picked up pace, good yields being reported. Irrigated fields North Texas, High Plains made good progress, yield outlook excellent. East, North Texas fields developed rapidly, harvest expected soon. Peanuts continue to make good growth, dryland fields beginning to deteriorate under extremely warm conditions. Despite dry weather, yields still expected to be good. Rice harvest halted as Hurricane Alicia passed through major producing counties. With about half of first crop harvested, damage expected to be heavy. Many counties report fields severely lodged, harvest questionable. Soybeans along upper coast also received moderate heavy losses. High winds damage plants, caused heavy lodging. Many fields completely laid over and may not recover. Plains, Northeast Texas, plants maturing rapidly with heavy blooms. Harvest northeast counties should begin soon.

Cotton squaring 99%, 98% 1982, 100% average; cotton setting bolls 82%, 80% 1982, 92% average; cotton open bolls 7%, 14% 1982, 17% average; cotton harvested 9%, 8% 1982, 8% average. Rice headed 100%, 100% 1982, 100% average; rice turning color 97%, 100% 1982, 99% average; Rice harvested 49%, 81% 1982, 89% average. Sorghum headed 84%, 92% 1982, 93% average; sorghum turning color 69%, 69% 1982, 70% average; sorghum mature 61%, 62% 1982, 65% average; sorghum harvested for grain 58%, 59% 1982, 61% average. Corn harvested for grain 29%, 36% 1982, 31% average. Peanuts harvested 0%, 4% 1982, 7% average.

Commercial vegetables: Rio Grande Valley, land preparation continued, some planting getting underway. Harvest of melons virtually complete. Some early cabbage up, stands good. Citrus growth good, production expected good. East Texas, harvest of watermelons, cantaloups, peppers, tomatoes remains active. Sweetpotatoes making good growth. Trans-Pecos, cantaloup harvest continued. Light volume carrots, peppers being moved. Irrigation needs heavy. Plains, onion, potato harvest continued. Harvest of cucumbers, cabbage getting underway. Pecans continue to develop rapidly, nuts filling. Additional moisture needed to provide proper filling, reduce droppage. Trees upper coast received heavy damage, considerable loss of this year's production.

Range and livestock: Rainfall latter part of week was helpful in restoring moisture to portions of State. Range, pasture conditions remain generally poor, Plains, East Texas facing severe drought. South, Central Texas received some showers helpful in sustaining native grasses. East Texas, coastal areas received rains from Alicia, in fair to good condition with grazing available. Livestock in good condition, supplemental feeding picking up.

UTAH: Shower and thunderstorm activity throughout State caused numerous flash floods. Accumulations moderate southeast, heavy rest of State. Temperatures below normal western portions, above normal rest of State especially Uinta Basin. Range was 4° below to 6° above normal.

Season delayed by rain and cool weather. Only 2 to 6 days suitable for fieldwork, Statewide. Harvest of hay, wheat and barley

slowed by the rains. Considerable crop damage reported, particularly to second crop hay. Winter wheat 95% ripe, 76% harvested. Barley 84% ripe, 56% harvested. Spring wheat 70% ripe, 20% harvested. Livestock and range feed in good to excellent condition. Irrigation water supply much above normal.

VIRGINIA: Unseasonably cool weather at the beginning of the week gave way to record heat by 20th. The drought conditions worsened with negligible amount of rainfall during the period. Temperatures averaged 0 to 3° above normal while precipitation averaged less than 0.1 in.

Dry weather conditions continued corn slide to a condition of very poor. Harvest for grain and silage ahead of normal but yields reported poor. Crop progressed to 75% in dough, 84% in 1982 and 81% for average; percent in dent was 54, 63% last year and 59% average; mature 19%, 31% last year. Soybeans condition slipped to poor with 70% blooming, 84% last year. Pods set increased to 44% compared to last year's 59%. Spraying for spider mites main activity. Peanut condition dropped to fair. Pegging inhibited by hard dry soil. Tobacco harvest continues slow. Flue-cured harvest 30% complete, 47% last year, 33% average. Fire-cured harvest was 20% complete, 56% last year, 28% average. Burley harvest was 10% complete, 13% in 1982, 10% average. Sun-cured harvest was 14% complete, 43% last year, 19% for average.

WASHINGTON: Classic summer-time dry weather pattern persisted over Pacific northwest through week. High pressure extended into southwest Canada from eastern Pacific location and low pressure covered coast and mountains from California to Canadian border. Air flow created by this pattern brought warm-sometimes hot-and dry air to Washington. Average temperatures were 2 to 6° above normals and no measurable rainfall observed.

Winter wheat harvest progressing with average to above average yields. Winter wheat harvest 87%, 80% 1982, 77% average. Ears forming of silage corn. Third cutting alfalfa hay underway eastside. Good conditions allowed haying all areas. Norgold potato harvesting continues and near completion some areas. Hollow heart reported some fields Tri-City area. West of Cascades, blackberry harvest in full swing. Blueberry harvest well underway. Good quality reported for Bartlett variety. Bartlett harvesting two-thirds complete. Harvest of peaches and plum continues. Harvest of carrots, cucumbers, sweet corn, green beans and leafy vegetables continues, broccoli harvest nearly completed. Harvest of zucchini squash, cucumbers, and other vegetables. Vegetable seed harvest progressing well. Processing pea harvest in full swing Thurston County. Pastures and ranges continue to be in excellent condition. Livestock are in good shape throughout the State. Some fall calving has begun in Garfield County.

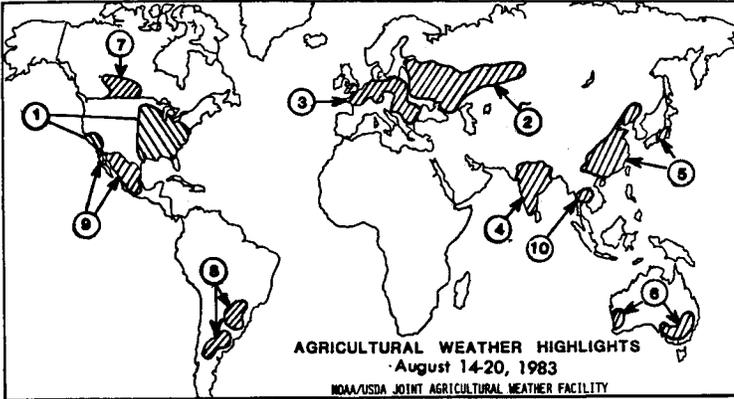
WEST VIRGINIA: Temperatures averaged near normal in central area to well above normal in eastern area. Six stations reported temperatures of 100° or more. High was 103°, low was 35°. Rainfall well below normal. Range 0 - 0.52 in.

Soil moisture reported short to very short across the State. Days suitable for fieldwork averaged 5.5 days. Main activities, hay harvesting, pasture clipping, maintenance, and gardening. Oats reported in fair to good condition; 87% harvested, the same in 1982. Corn was reported in fair to good condition; 22% pre-silked, 53% silked, and 25% dough stage,

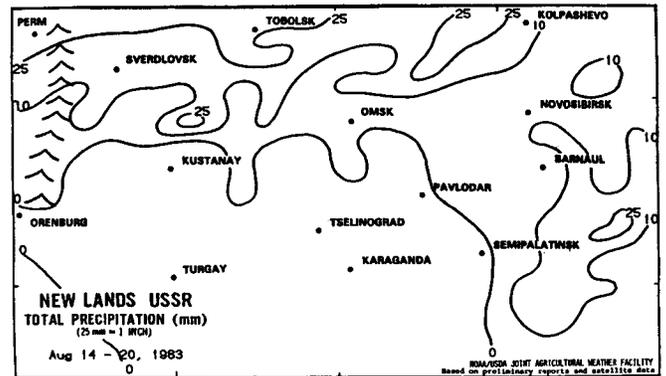
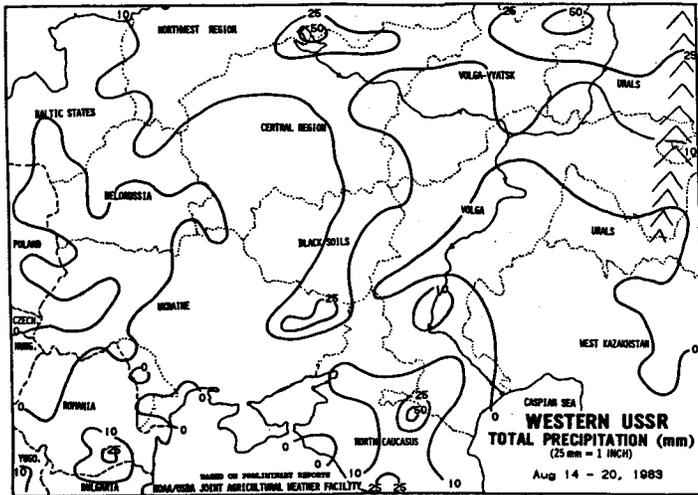
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International Weather and Crop Summary

August 14 to 20

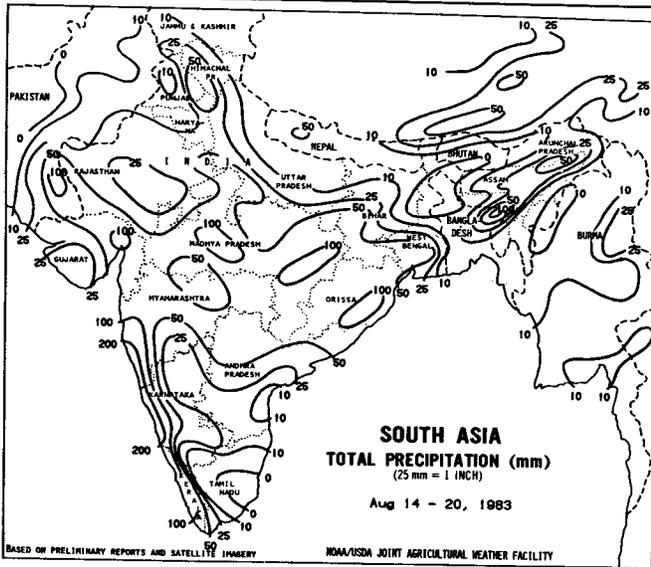


1. UNITED STATES ... Persistent hot, dry weather further stresses immature crops throughout most of the Corn Belt and the Southeast. However, beneficial rains fall to the west and south of Lake Superior. Hurricane Alicia damages some crops in southeastern Texas, but brings needed moisture northward into the central Plains. Tropical showers hurt some cotton and table grapes in California.
2. USSR ... Several days of dry weather aids harvest activity over much of the region. Topsoil moisture for winter grain planting appears good in most European USSR crop areas.
3. EUROPE ... Generally dry weather covers most crop areas aiding harvest activity. Crop areas in the north could still benefit from additional showers.
4. SOUTH ASIA ... Favorable growing conditions exist for rice, cotton, and groundnuts in central India. Relatively dry weather to the north and south continues to stress rice areas.
5. EASTERN ASIA ... Precipitation benefits portions of China's rice area. Dry weather in the north favors maturing cotton, corn, and soybeans. Typhoon Abby is causing flood damage to crops in Japan.
6. AUSTRALIA ... Showers are providing beneficial moisture for vegetative growth of wheat across the Australian wheat belt.
7. CANADA ... The spring wheat harvest is underway in the southern Prairie Provinces; scattered showers and cooler weather aid maturing crops.
8. SOUTH AMERICA ... Argentina's wheat area is still too dry for early vegetative growth; southern Brazil remains too wet, promoting excessive weed growth, while dry weather favors Brazil's coffee harvest.
9. MEXICO ... Helpful rains fall over the southern Plateau corn belt and northwestern mountain watersheds. Hot, dry conditions over much of the northeastern and north-central regions continues stressing orchards, immature crops, and livestock.
10. SOUTHEAST ASIA ... Moderate to heavy rain benefits eastern and south-central rice areas. Dry weather favors maturing corn in the central region.

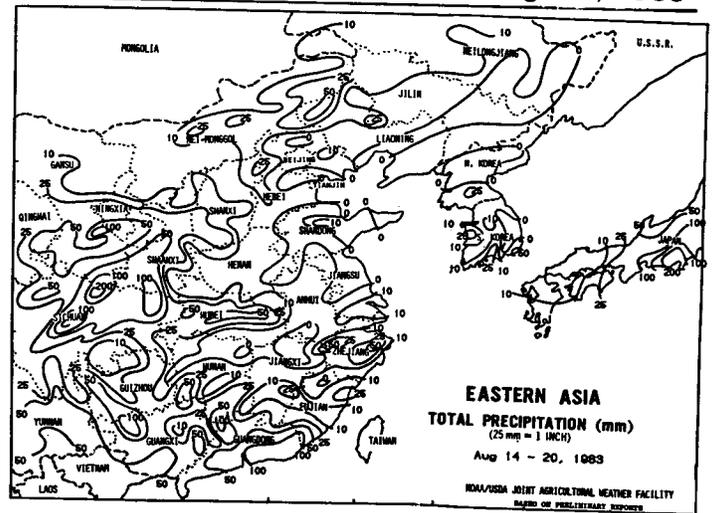


USSR...Generally light, scattered precipitation covered most of Western USSR, causing only minor delays in harvest activity. However, heavier amounts of precipitation, around 25mm, fell on the central Black Soils, the eastern Ukraine, and the North Caucasus. Harvest delays in these areas should have been minimal, as most of the precipitation occurred early in the week. Winter grain planting should normally be underway across the North, while fieldwork in preparation for sowing is active in major wheat producing areas of the south. Winter wheat planting normally begins in the south in early September, but can occur as late as early October. At the present time, soil moisture supplies appear good for proper seed germination over much of the region.

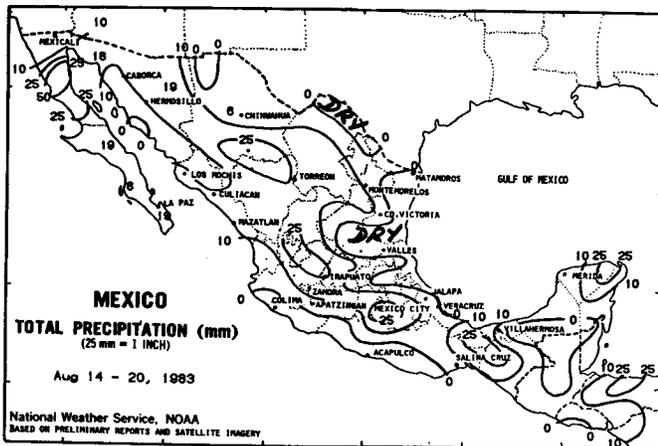
In the New Lands, two frontal systems traversed the region, one early and one late in the week. The system early in the week produced light rain over the eastern portion of the region, while the late week system was responsible for widespread rain across the northern Urals. In general, most spring grain areas had several days of dry weather, allowing the harvest to progress northward with few delays. In addition, favorable temperatures, 1° to 3°C above normal, aided grain maturation.



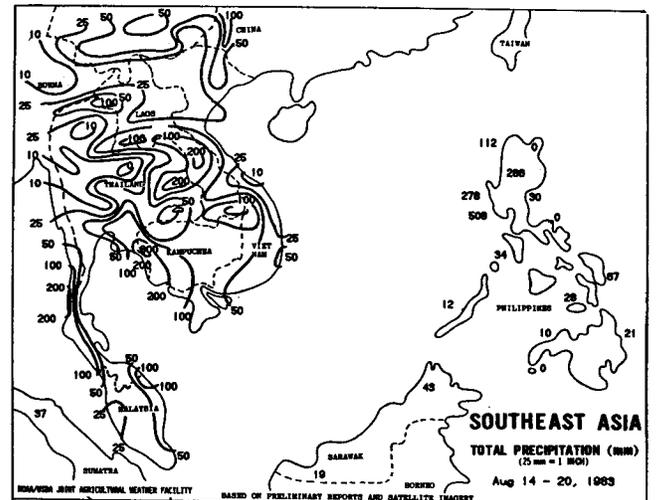
SOUTH ASIA...Generous precipitation and near-normal temperatures benefited crop areas of central India again this week. Following a slightly delayed rainy season, moisture conditions have been mostly favorable in Gujarat, Madhya Pradesh, Myaharashtra, northern Andhra Pradesh, and northern Karnataka. Cotton and groundnuts, entering the reproductive stage, have been aided by the near-normal moisture supply. Precipitation on the western coast was near normal, providing only slight relief from inundative rains last week. The moisture has been mostly beneficial for autumn rice, nearing the heading stage. Autumn rice in the southeast continues to suffer from dry weather and slightly above-normal temperatures. More rain is needed to halt further yield deterioration as the crop progresses through the heading stage. Below-normal precipitation in Uttar Pradesh, Bihar, and also in Bangladesh has been unfavorable for winter rice in the vegetative stage.



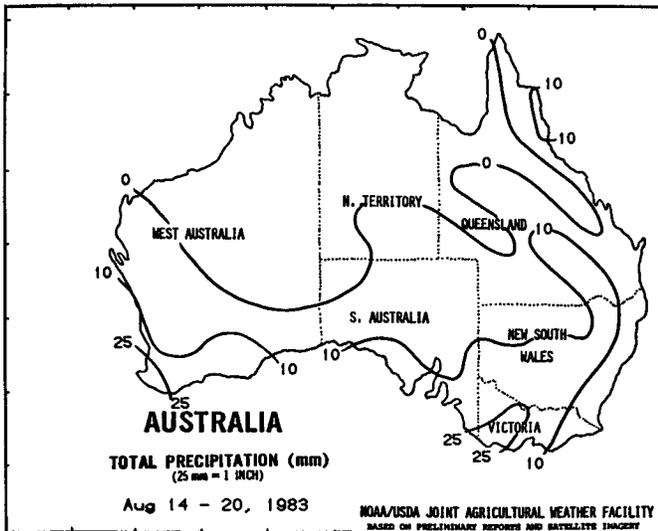
EASTERN ASIA...Variable precipitation benefited portions of China's late rice crop, now entering the heading stage. Previous dry weather was unfavorable for the intermediate rice in southern China as it progressed through the reproductive stage. Mostly dry weather covered the North China Plain this week, but temperatures remained near normal. The weather was beneficial for cotton, now in the open boll stage and normally harvested in September and October. Soybeans in the area are in the reproductive stage and are suffering from low soil moisture levels. Favorably dry weather covered most of the Manchurian corn/soybean area where crops are maturing. Heavy precipitation caused flooding and crop damage in southeastern Japan as Typhoon Abby struck the island of Honshu this week.



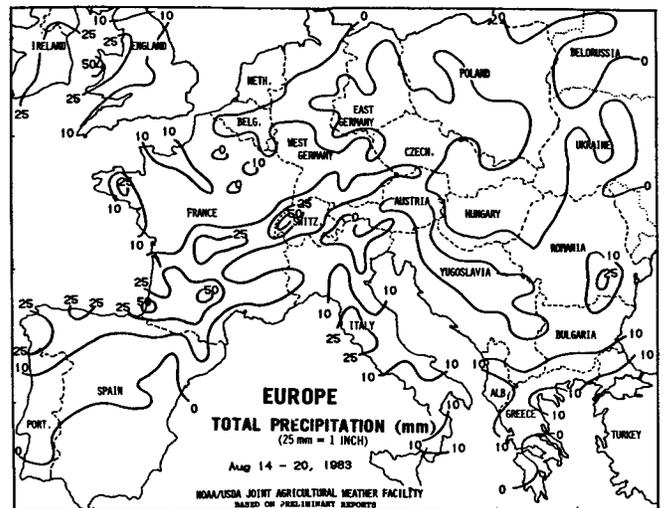
MEXICO...Persistent rains continued over the southern Plateau corn belt, generally benefiting immature crops. Thundershowers over the northwestern mountains supplied water for irrigation reservoirs. Moist air, from the remnants of Hurricane Ismael, supported localized heavy rains across parts of northern Baja California. In contrast, hot, dry weather continued over most of the northeastern and the upper north-central regions, heavily stressing crops and livestock.



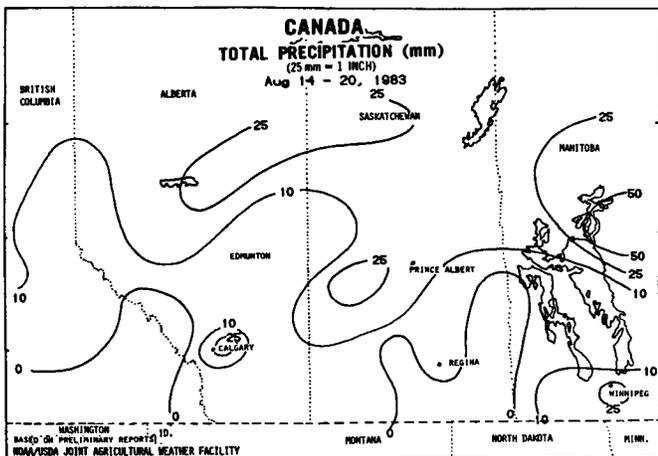
SOUTHEAST ASIA...Variable monsoon rains fell in Indochina this week, amounts greater than 200mm inundated localized areas of Thailand and Laos. Precipitation was mainly limited to the eastern half of Thailand, benefiting rice in the mid- to late-filling stage. Dry weather and slightly above-normal temperatures in western Thailand were unfavorable for rice. However, the dry conditions benefited maturing corn in the area. Moderate to heavy precipitation was favorable for the important south-central rice area, continuing the near-normal rainfall accumulation. Heavy rain early in the week was followed by beneficial dry weather in localized areas of the northern Philippines. Rice in this area is in the vegetative stage because of drought-induced planting delays. Soil conditions on the central and southern islands remain too dry for normal crop growth.



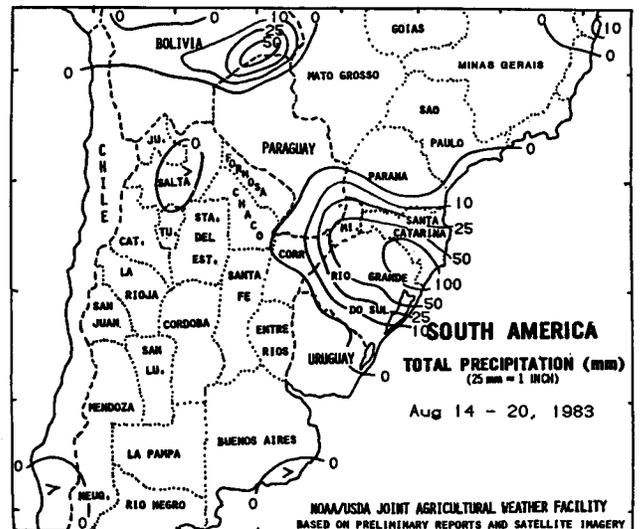
AUSTRALIA... Showers covered much of Australia's wheat belt, providing beneficial moisture for wheat which is in the early vegetative stage. Warmer weather is promoting more rapid growth thereby increasing the moisture needs of the crop. Crop conditions are generally good in most areas. Weekly rainfall amounts averaged 10-20mm, which is near to slightly above average for late winter. Average temperatures were about 12-14°C, which is also near normal. Subsoil moisture was replenished in southern Queensland and northern New South Wales, where heavy rains during the usual planting season delayed completion of wheat sowing until July. Although the crop calendar is somewhat late, weather conditions during the growing season will determine the rate of crop development as well as the final yield outcome.



EUROPE... Light, scattered showers covered the crop areas of northern Europe, but rainfall amounts were mostly insignificant with most crop areas experiencing several days of dry weather. The dry weather aided grain maturation and harvest activity. Corn and sugarbeets grown in these areas would benefit from additional showers. Across the south, crop areas of southern France and much of Italy benefited from widespread showers. The crop areas of northeastern Yugoslavia, Hungary, and western Romania continued to be unfavorably dry. Dry weather in eastern and southern Romania, and Bulgaria aided harvest activity. Soil moisture supplies in these areas were good for late-filling crops. Weekly temperatures were above normal in the north and below normal in the south.



CANADA... Spring-sown crops are maturing throughout the Canadian Prairies. The harvest of spring wheat is progressing rapidly, especially in southern Saskatchewan where hot, dry weather accelerated crop development. The harvest pace will increase rapidly throughout the grain belt during the next few weeks. Mostly light showers fell in Alberta and Saskatchewan, while substantial rain fell in southern Manitoba where amounts of 10-35mm covered the wheat areas. The moisture benefited grain filling of late maturing crops. Cooler weather, behind a frontal system, pushed across the Prairies late in the week relieving crops from earlier heat stress. Hot, dry weather during the latter half of the growing season has lowered crop yield potential but favored higher protein content of the grain. Relatively dry and seasonably mild weather is needed during the harvest season to maintain high quality yields.



SOUTH AMERICA... Locally heavy rain was confined to northern Rio Grande do Sul and Santa Catarina, while Brazil's coffee area and all of Argentina's crop areas were dry. The dry weather favored Brazil's coffee harvest in Sao Paulo and vicinity, but impeded early wheat growth in Argentina. Cool weather, with temperatures averaging somewhat below normal in the wheat areas of Argentina, has kept moisture needs at a minimum. However, as warmer spring weather arrives in upcoming weeks, rainfall will be needed to moisten the soils for vigorous crop growth. Wheat areas of Buenos Aires and vicinity have been especially dry. In Brazil, persistent wetness in the south has promoted excessive weed growth, but the wheat crop in Parana should be in relatively good condition. North of the rainy zone, temperatures were higher than normal during the week, promoting rapid vegetative growth.



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**WEEKLY NEWS BULLETIN
SECOND CLASS**

(continued from p. 12)

harvest was active and raisin harvest was beginning. Rains delayed harvest of Valencia oranges and grapefruit. Florida citrus groves were in good to excellent condition. Irrigation was needed on higher, light soils. Grapefruit testing was active with very little young fruit droppage. Lemons were harvested in Arizona. Pecans were in fair to good condition. Nut droppage occurred in the driest areas.

PASTURES AND LIVESTOCK: Pastures and ranges were in poor to fair condition in all areas, except Florida and the western States where mostly good conditions were reported. Livestock water shortages exist in many areas of the southeast and midwest. Supplemental feeding increased. Light losses of livestock, due to extreme heat, were reported.

(continued from p. 20)

similar to 1982. Pasture and hay reported in fair to poor condition. Second cutting of hay was 70% complete and 73% of normal; 61% and 75% in 1982. Tobacco reported in fair condition; 35% topped, 3% harvested; 88% of normal. Fruit reported fair to good condition. Peaches were reported 56% harvested and 93% of normal, 64% and 49% in 1982. Gardens were reported in fair condition. Very hot and dry conditions continue to stress pasture, hay, corn.

WISCONSIN: Temperatures above normal. Highest 102° Watertown on 19th; lowest 46° Duluth-

Superior on 20th. Rainfall fell over the whole State. Amounts ranged 0.06 in. extreme southwest to over 4.00 in. southeast. Heaviest amounts fell late on 16th and early on 17th in a band that stretched from Babcock to Milwaukee.

Corn condition variable; 100% silking, 98% last year and average of 96%; percent in dough stage was 52 compared to 49 and average 45. Second cutting of hay 79% complete, behind a year ago of 85%, average 78%. Oats harvested 79%, ahead of last year and average by 8 percentage points. Pasture conditions decline to 72% of normal.

WYOMING: Temperatures above normal. Precipitation spotty, east half above normal and west half below.

Topsoil moisture adequate 61% State, 5.0 days suitable for fieldwork. Harvesting small grains active. Winter wheat 95% mature, 95% harvested; normally 92% harvested. Barley 25% mature, 55% harvested, normally 55% harvested. Spring wheat 40% mature, 40% harvested, normally 49% harvested. Oats 35% turning color; 35% mature; 20% harvested. normally 40% harvested. Corn prospects fair to good; 95% tasseled; 80% silked; 30% dough. Dry bean prospects mostly good; most setting pods; 15% leaves turning color. Potato prospects good, most in bloom. Sugar-beet prospects fair to good, most late. Alfalfa second cutting 45% complete. Other hay harvest 75% complete. Livestock producers plan to winter about the same number of livestock as last year. Stored feed supplies average most areas.

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