

WEEKLY WEATHER AND CROP BULLETIN

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

U.S. DEPARTMENT
OF AGRICULTURE
National Agricultural
Statistics Service and
World Agricultural Outlook Board

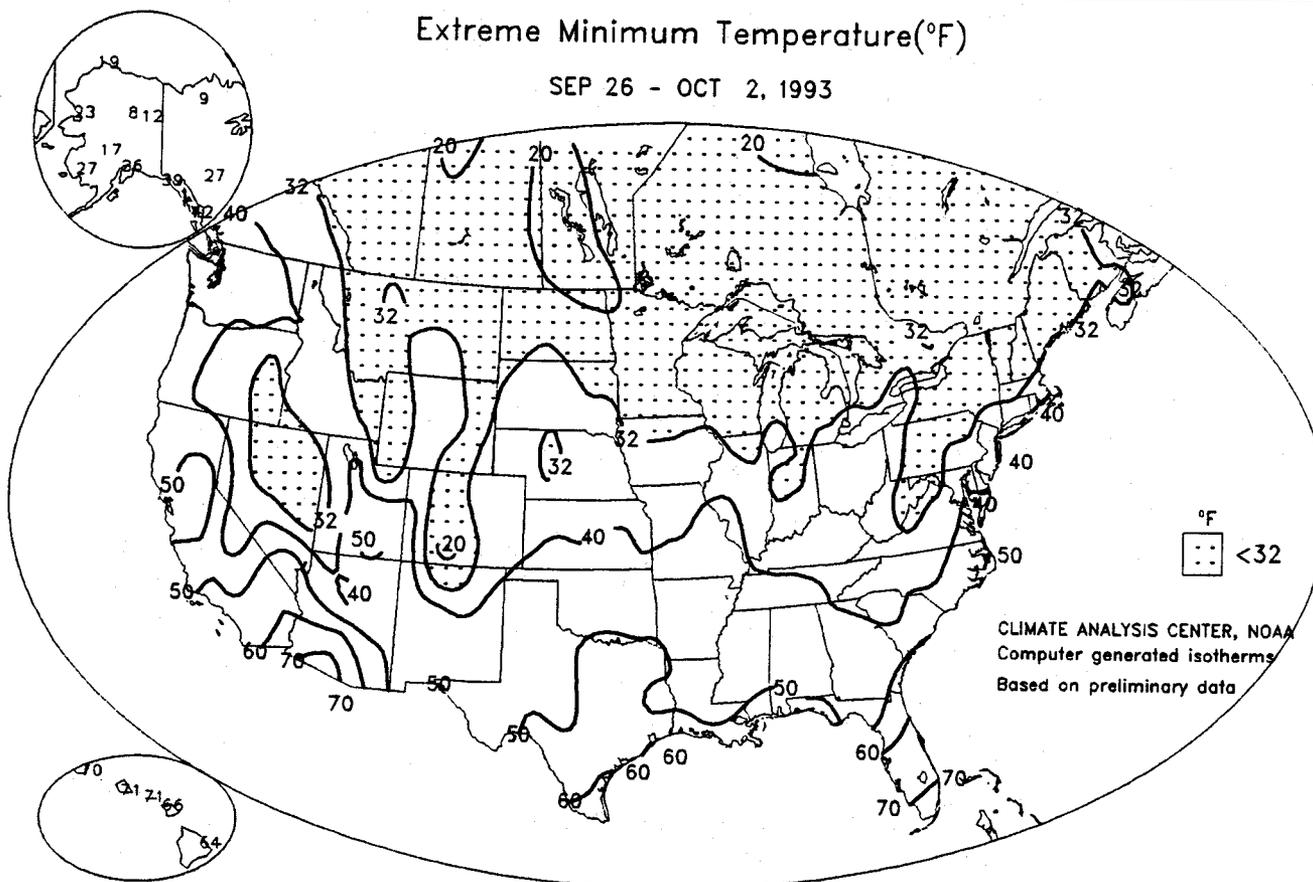
Volume 80, No. 40

Washington, D.C.

October 5, 1993

Extreme Minimum Temperature(°F)

SEP 26 - OCT 2, 1993



CLIMATE ANALYSIS CENTER, NOAA
Computer generated isotherms
Based on preliminary data

HIGHLIGHTS

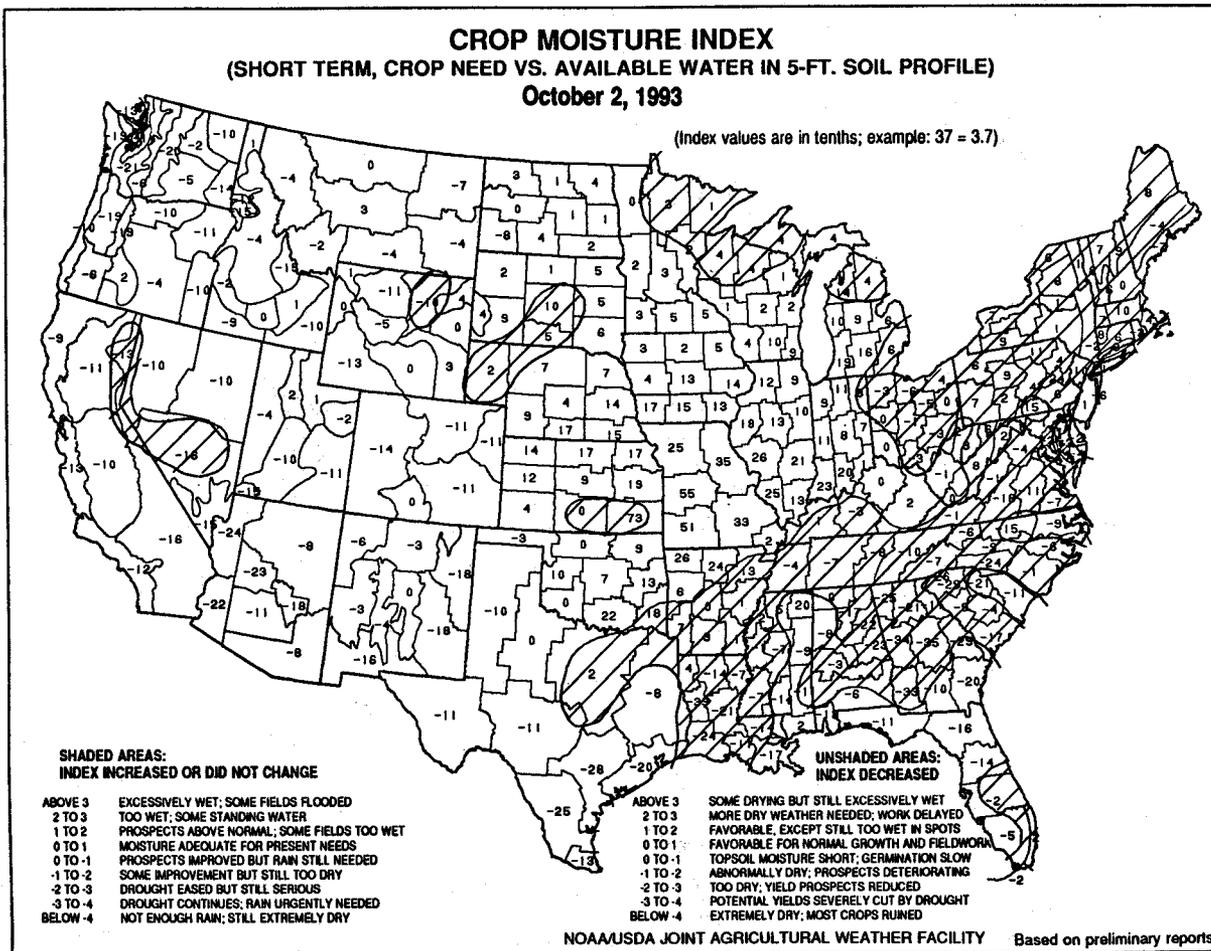
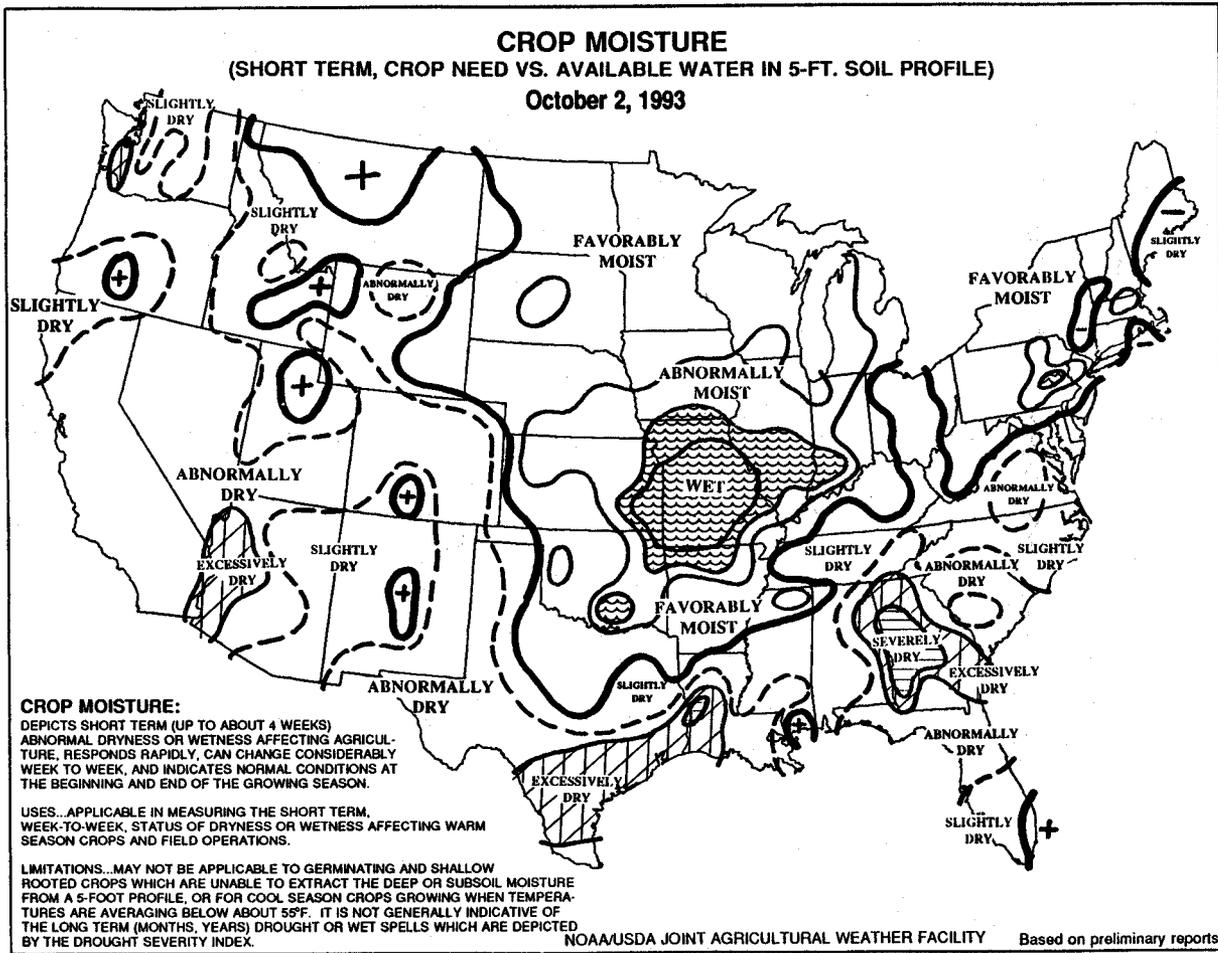
September 26 - October 2, 1993

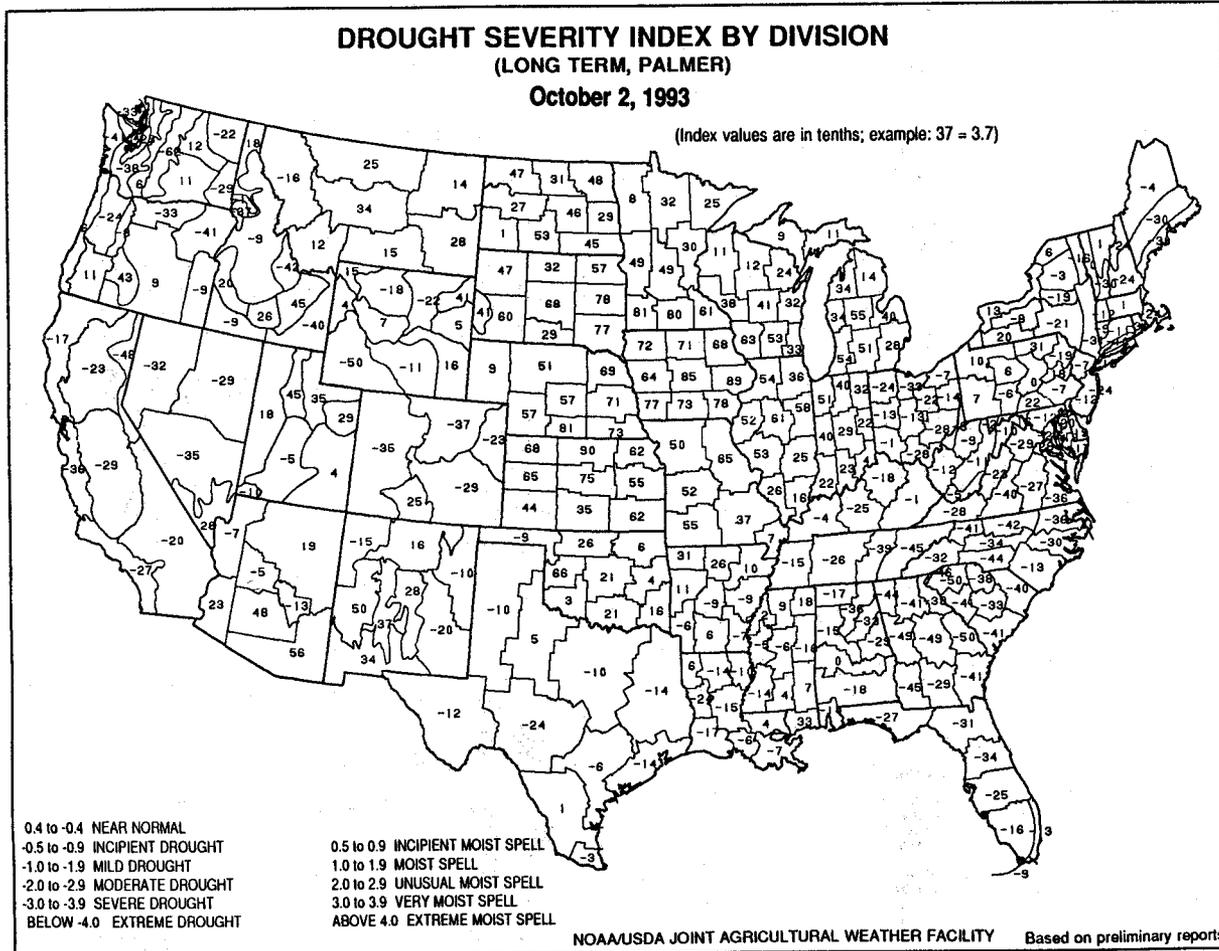
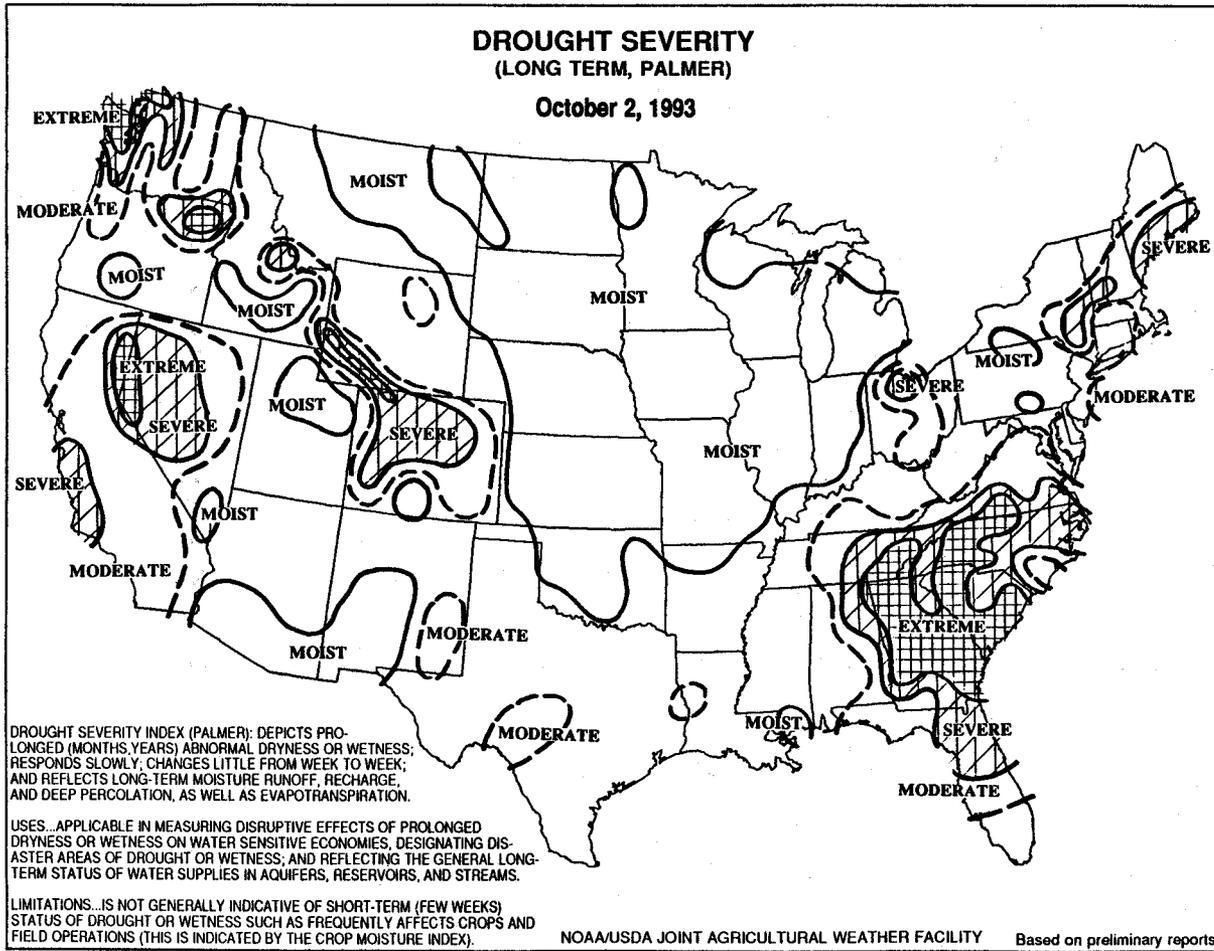
Subfreezing weather ended the growing season across Minnesota and Wisconsin, damaging immature corn and soybeans. Temperatures plunged into the upper 20's on September 30 across much of Wisconsin, Michigan (except the south), and extreme northern Illinois, and fell into the lower 30's from central Indiana northward into southern Michigan. Two days later, a hard freeze (28°F or lower) struck Minnesota and the northeastern half of North Dakota, while frost extended into northeastern South Dakota and extreme northern Iowa. Prior to the freezes, a strong cold front pushed southeastward early in the week, dropping heavy rain from eastern Texas to New England. Rainfall topped 2 inches in locations such as Shreveport, LA, Allentown, PA, and Portland, ME. By midweek, the cold front stalled across southern Florida, generating frequent thunderstorms, while chilly, dry

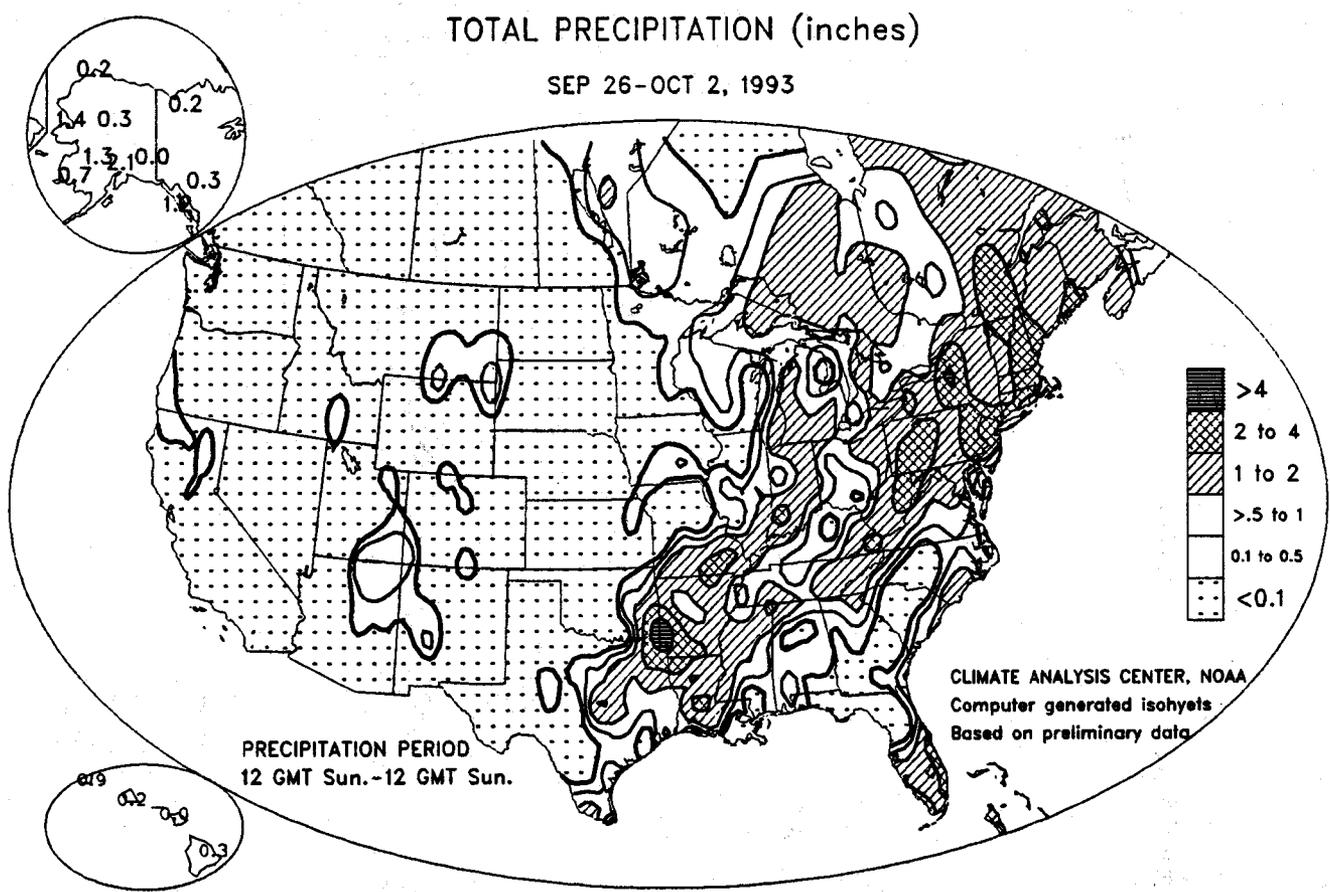
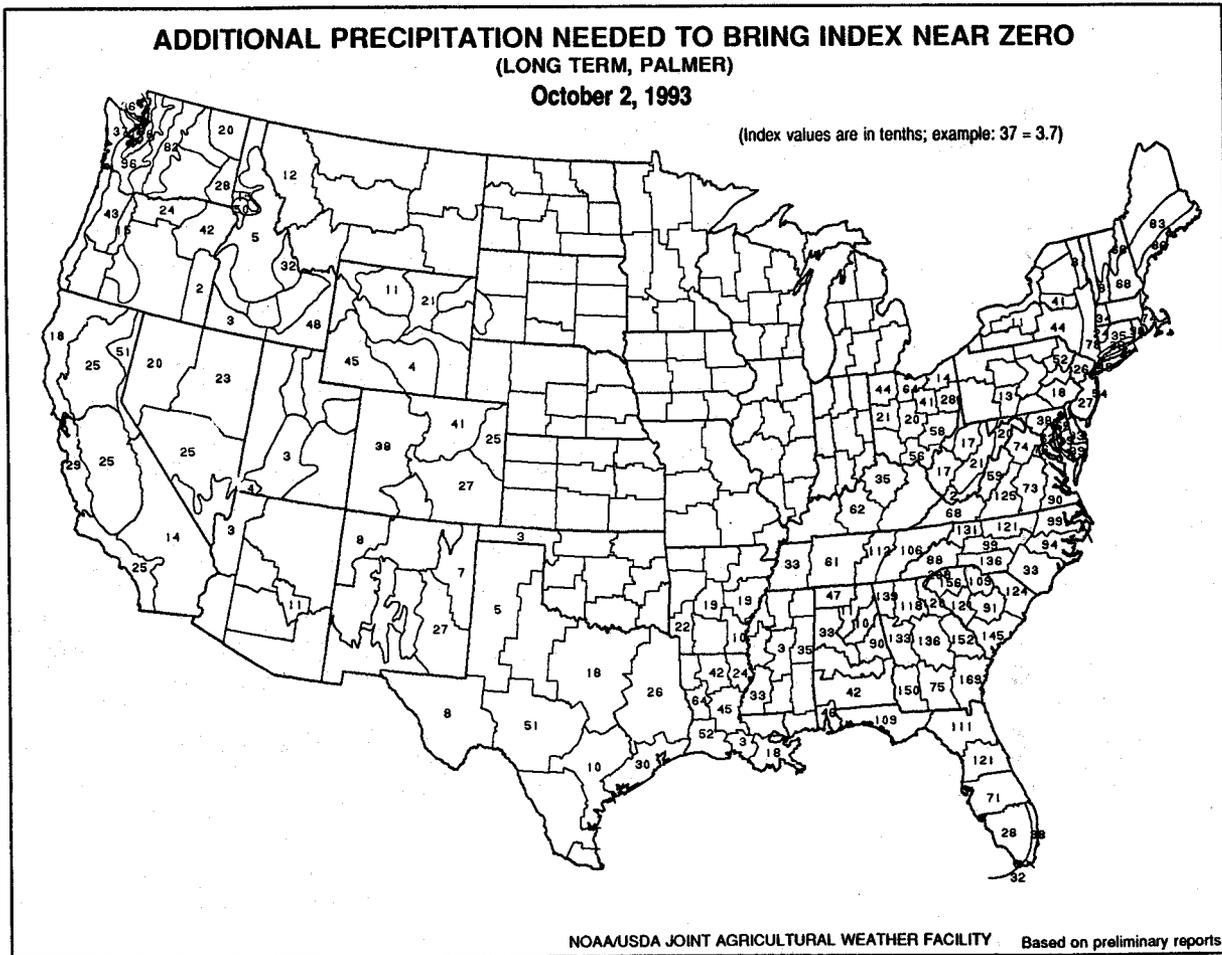
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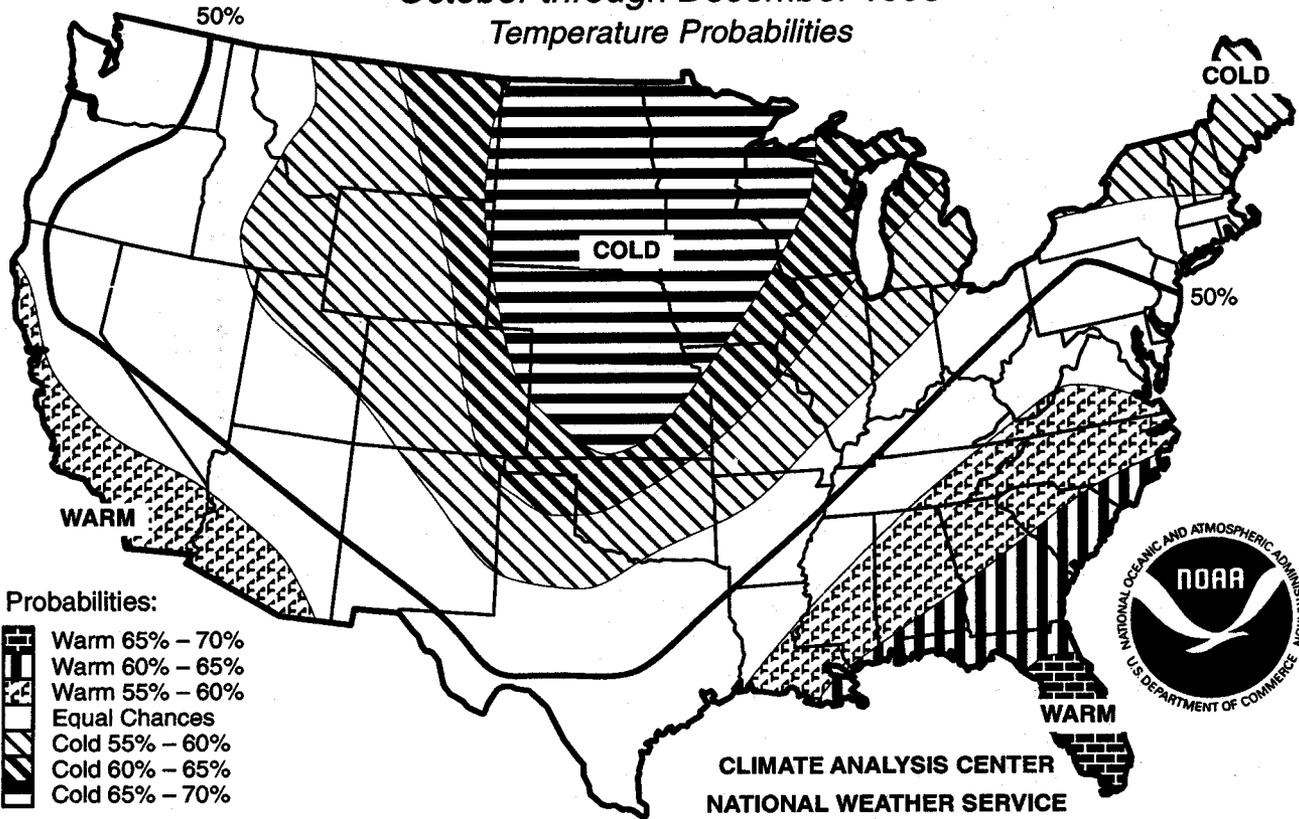




THREE-MONTHLY WEATHER OUTLOOK

October through December 1993

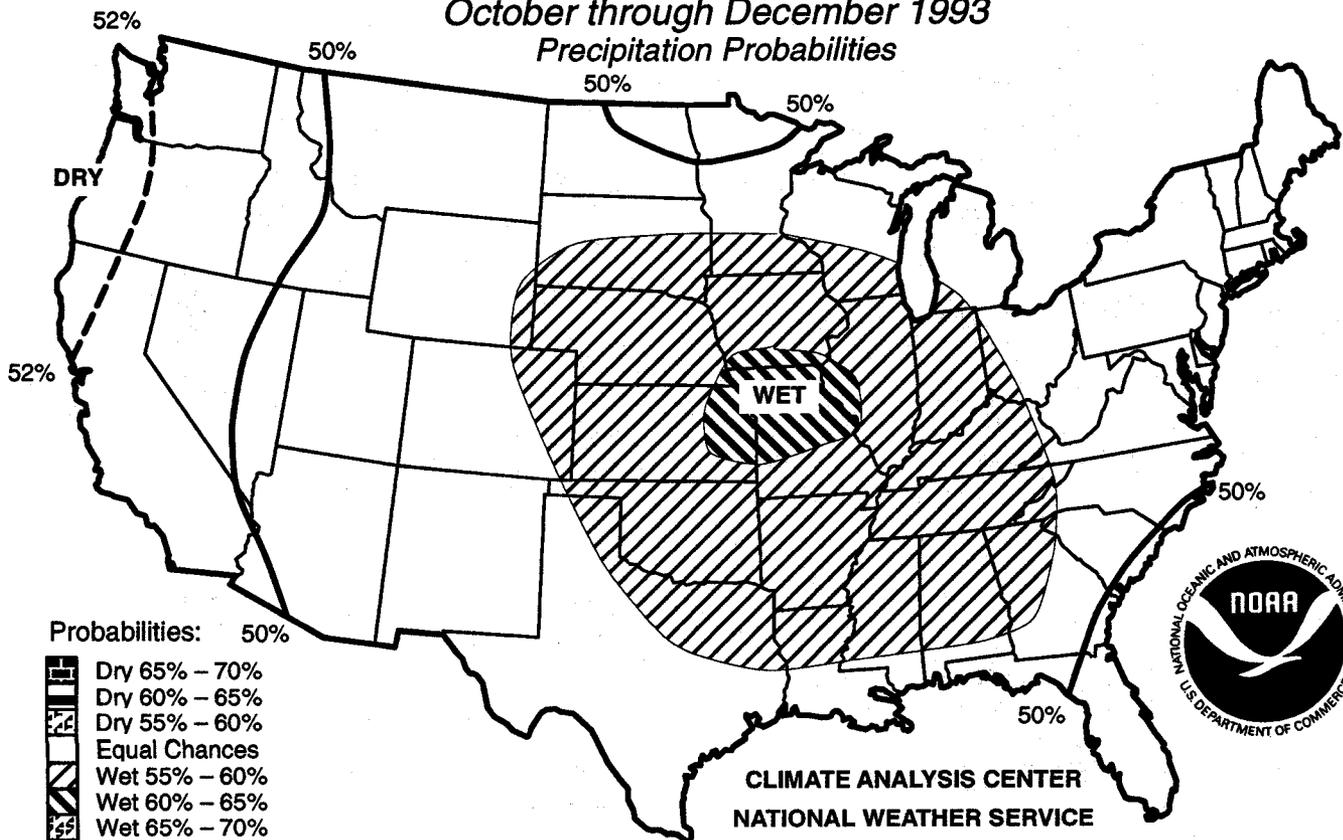
Temperature Probabilities



THREE-MONTHLY WEATHER OUTLOOK

October through December 1993

Precipitation Probabilities



CUMULATIVE GROWING DEGREE DAYS (CORN*) April 1 - October 2, 1993

| STATES AND STATIONS | TOTAL | DEP. FROM NORMAL | STATES AND STATIONS | TOTAL | DEP. FROM NORMAL | STATES AND STATIONS | TOTAL | DEP. FROM NORMAL |
|---------------------|-------|------------------|---------------------|-------|------------------|---------------------|-------|------------------|
| AL ANNISTON | 4212 | + 86 | TOPEKA/BILLARD | 3392 | - 162 | GAGE | 3723 | - 81 |
| BIRMINGHAM | 4227 | + 13 | WICHITA | 3641 | - 145 | HOBART | 4071 | - 65 |
| MOBILE | 4630 | + 138 | KY LEXINGTON | 3533 | + 73 | MCALISTER | 4374 | + 147 |
| MONTGOMERY | 4462 | + 152 | BOWLING GREEN | 3781 | + 67 | PONCA CITY | 4058 | + 49 |
| MUSCLE SHOALS | 4190 | + 112 | LADUCAH | 3903 | + 61 | TULSA | 4009 | - 180 |
| OZARK | 4529 | + 85 | LA LAFAYETTE | 4786 | + 5 | OR BAKER | 2011 | - 124 |
| TUSCALOOSA | 4381 | + 33 | LAKE CHARLES | 4853 | + 19 | EUGENE | 2245 | + 39 |
| AZ DOUGLAS | 4041 | + 199 | MOHROE | 4557 | + 61 | NORTH BEND | 1576 | + 254 |
| FLAGSTAFF | 2401 | + 259 | NEW ORLEANS | 4739 | - 79 | PENDLETON | 2526 | - 143 |
| PHOENIX | 5579 | + 622 | SHREVEPORT | 4540 | + 155 | REDMOND | 1986 | - 140 |
| TUCSON | 4788 | + 235 | ME AUGUSTA | 2386 | + 217 | PORTLAND | 2459 | + 214 |
| YUMA | 5645 | + 530 | CARIBOU | 1862 | + 213 | SALEM | 2404 | + 233 |
| PRESCOTT | 3315 | + 435 | HOULTON | 1925 | + 110 | SEXTON SUMMIT | 1493 | - 239 |
| AR EL DORADO | 4312 | - 12 | PORTLAND | 2293 | + 235 | PA ALLENTOWN | 3217 | + 279 |
| FAYETTEVILLE | 3802 | + 120 | MD SALLISBURY | 3654 | + 248 | PHILADELPHIA | 3796 | + 696 |
| FORT SMITH | 4259 | + 100 | MA WORCESTER | 2404 | + 87 | WILLIAMSPORT | 3097 | + 272 |
| JONESBORO | 4106 | - 56 | MI JACKSON | 2541 | - 155 | SC BEAUFORT | 4789 | + 264 |
| LITTLE ROCK | 4306 | + 136 | LANSING | 2531 | - 189 | CHARLESTON | 4665 | + 232 |
| TEXARKANA | 4443 | - 38 | MUSKEGON | 2489 | + 53 | COLUMBIA | 4432 | + 146 |
| CA BAKERSFIELD | 4149 | - 31 | PELLSTON | 1959 | + 16 | FLORENCE | 4569 | + 276 |
| BLUE CANYON | 1977 | - 149 | SAULT STE. MARIE | 1574 | - 86 | SUMTER/SHAW AFB | 4403 | + 146 |
| DAGGETT | 4516 | + 88 | TRAVERSE CITY | 2334 | + 84 | SD ABERDEEN | 2409 | - 54 |
| EUREKA | 1454 | + 523 | MN DULUTH | 1482 | - 201 | HURON | 2441 | - 278 |
| FRESNO | 3987 | + 291 | IN* L FALLS | 1689 | - 148 | PIERRE | 2489 | - 258 |
| MARYSVILLE | 3781 | + 241 | MINNEAPOLIS | 2357 | --- | RAPID CITY | 2161 | - 378 |
| MT SHASTA | 2016 | - 220 | ROCHESTER | 2152 | --- | STOIX FALLS | 2486 | - 273 |
| PASO ROBLES | 3149 | + 165 | ALEXANDRIA | 2049 | - 255 | WATERTOWN | 2042 | - 365 |
| RED BLUFF | 3644 | - 133 | MS BILOXI | 4897 | + 14 | TN BRISTOL | 3536 | + 103 |
| RIVERSIDE | 3806 | + 328 | COLUMBUS | 4316 | + 102 | CHATTANOOGA | 4226 | + 288 |
| SANTA ANA | 3952 | + 607 | JACKSON | 4480 | + 177 | CROSSVILLE | 3557 | + 441 |
| SAN DIEGO | 3366 | + 164 | MERIDIAN | 4459 | + 104 | MEMPHIS | 4415 | + 85 |
| SACRAMENTO | 3380 | + 100 | GREENWOOD | 4455 | + 31 | NASHVILLE | 4045 | + 77 |
| THERMAL | 4785 | - 131 | MO COLUMBIA | 3400 | - 22 | TX ABILENE | 4504 | + 29 |
| ALAMOSA | 2022 | - 110 | JOPLIN | 3782 | - 72 | AMARILLO | 3588 | - 25 |
| DENVER | 2697 | - 30 | SPRINGFIELD | 3616 | + 13 | AUSTIN | 4944 | + 107 |
| EAGLE | 2061 | - 226 | VICHY | 3559 | - 31 | BROWNSVILLE | 5375 | + 68 |
| GRAND JUNCTION | 3172 | - 175 | MT HELENA | 1774 | - 253 | COLLEGE STATION | 4794 | + 23 |
| LA JUNTA | 3238 | - 96 | KALISPELL | 1726 | - 289 | DALHART | 3423 | + 33 |
| DE DOVER | 3517 | + 5 | MILES CITY | 2250 | - 358 | DALLAS/FT WORTH | 4771 | + 238 |
| WILMINGTON | 3610 | + 324 | NE GRAND ISLAND | 2863 | - 244 | GALVESTON | 5362 | + 174 |
| FL DAYTONA BEACH | 4792 | - 73 | NORFOLK | 2820 | - 188 | HOUSTON/INTCNTL | 4917 | + 209 |
| FORT MYERS | 5228 | + 83 | NORTH FLATTE | 2656 | - 171 | KINGSVILLE/WAS | 5349 | + 239 |
| GAINESVILLE | 4604 | - 159 | VALENTINE | 2482 | - 444 | LAREDO | 5412 | + 176 |
| JACKSONVILLE | 4678 | - 128 | SCOTTSDUFF | 2508 | - 219 | LUBBOCK | 4147 | + 248 |
| FORT LAUDERDALE | 5637 | + 398 | SIDNEY | 2453 | - 80 | MCALLEN | 5453 | + 298 |
| MIAMI | 5568 | + 169 | NV ELKO | 2155 | - 246 | MIDLAND | 4302 | + 27 |
| MILTON | 4646 | + 87 | ELY | 2251 | + 7 | PALACIOS | 5129 | + 37 |
| PENSACOLA | 4816 | - 46 | LAS VEGAS | 4908 | + 351 | SAN ANTONIO | 4995 | + 92 |
| ST PETERSBURG | 5244 | - 54 | RENO | 2682 | + 138 | VICTORIA | 5039 | + 127 |
| TALLAHASSEE | 4609 | - 42 | WINNEBUCCA | 2572 | + 16 | WACO | 4742 | - 56 |
| TAMPA | 5051 | - 33 | NH CONCORD | 2591 | + 212 | WICHITA FALLS | 4315 | + 71 |
| VERO BEACH | 5017 | + 30 | NJ NEWARK | 3819 | + 524 | WINK | 4450 | + 93 |
| W. PALM BEACH | 5296 | + 134 | NM ALBUQUERQUE | 3730 | + 467 | UT CEDAR CITY | 2814 | + 34 |
| GA ATHENS | 4285 | + 225 | CARLSBAD | 4568 | + 182 | VT BARRE-MONTPELIER | 2136 | + 167 |
| AUGUSTA | 4468 | + 222 | CLOVIS | 3690 | + 219 | BURLINGTON | 2540 | + 270 |
| BRUNSWICK | 4763 | - 22 | GALLUP | 2796 | + 69 | VA CHARLOTTESVILLE | 3766 | + 206 |
| COLUMBUS/METRO | 4586 | + 165 | TRUTH OR CONSEQ. | 4011 | + 221 | HAMPTON/LANGLEY | 4146 | + 327 |
| MACON | 4491 | + 75 | NY ALBANY | 2773 | + 187 | LYNCHBURG | 3851 | + 421 |
| SAVANNAH | 4491 | + 201 | ELMIRA | 2657 | + 189 | NORFOLK | 4140 | + 315 |
| ID BOISE | 2552 | - 145 | GLENS FALLS | 2527 | + 166 | RICHMOND | 3945 | + 250 |
| BURLEY | 2350 | - 24 | ROCHESTER | 2579 | + 22 | WA BELLINGHAM | 1779 | + 200 |
| IDaho FALLS | 1966 | - 220 | SYRACUSE | 2622 | + 88 | HOQUIAM | 1628 | + 194 |
| POCATELLO | 2118 | - 242 | UTICA | 2396 | - 34 | SEATTLE-TACOMA | 2022 | + 192 |
| IL BELLEVILLE | 3650 | + 65 | WATERTOWN | 2373 | + 8 | SPOKANE | 2022 | - 173 |
| CHICAGO/MIDWAY | 2952 | - 117 | NC ASHEVILLE | 3440 | + 268 | TACOMA | 2076 | + 122 |
| DECATUR | 3249 | - 178 | FAYETTEVILLE | 4244 | + 217 | WALLA WALLA | 2757 | - 54 |
| PEORIA | 3215 | + 83 | GREENSBORO | 4037 | + 336 | WENATCHEE | 2777 | - 52 |
| ROCKFORD | 2829 | - 4 | HICKORY | 4097 | + 216 | YAKIMA | 2523 | - 26 |
| SPRINGFIELD | 3347 | - 29 | RALEIGH | 4099 | + 283 | WV HUNTINGTON | 3596 | + 384 |
| QUINCY | 3193 | - 123 | WILMINGTON | 4473 | + 185 | MARTINSBURG | 3272 | + 86 |
| IN INDIANAPOLIS | 3263 | + 22 | NEW BERN | 4304 | + 156 | MORGANTOWN | 3199 | + 115 |
| SOUTH BEND | 2840 | + 6 | ND BISMARCK | 2037 | - 277 | WI KAU CLAIRE | 2226 | - 208 |
| TERRE HAUTE | 3357 | + 52 | DICKINSON | 1786 | - 396 | GREEN BAY | 2306 | + 10 |
| IA DES MOINES | 2892 | - 303 | JAMESTOWN | 1956 | - 305 | LACROSSE | 2522 | - 217 |
| MASON CITY | 2411 | - 419 | MINOT | 1806 | - 321 | MADISON | 2658 | - 27 |
| OTTUMWA | 3058 | - 142 | GRAND FORKS | 2058 | - 122 | WAUSAU | 2074 | - 179 |
| KS CHANUTE | 3574 | - 163 | OH AKRON-CANTON | 2875 | + 114 | CASPER | 2249 | - 88 |
| DODGE CITY | 3312 | - 227 | COLUMBUS | 3213 | + 185 | LANDER | 2101 | - 192 |
| GARDEN CITY | 3161 | - 309 | DAYTON | 3153 | - 13 | SHERIDAN | 1961 | - 273 |
| GOODLAND | 2718 | - 227 | FINDLAY | 2791 | - 90 | WORLAND | 2338 | - 94 |
| MEDICINE LODGE | 3790 | - 31 | YOUNGSTOWN | 2708 | + 125 | | | |
| RUSSELL | 3302 | - 190 | ZANESVILLE | 3085 | + 126 | | | |
| SALINA | 3490 | - 139 | OK ALTUS | 4209 | - 71 | | | |

Based on 1951-80 normals.

* Growing degree days for corn are computed to a 50°F base with the daily maximum temperature limited to 86°F or lower, and the daily minimum to 50°F or higher.

National Weather Data for Selected Cities

Weather Data for the Week Ending October 2, 1993

| 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 Sept 1 | PCT. NORMAL SINCE Sept 1 | TOTAL, IN., SINCE Jan 1 | | PCT. NORMAL SINCE Jan 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE |
| | | | | | | | | | | | | | .50 INCH OR MORE | | | | | | .50 INCH OR MORE |
| AL BIRMINGHAM | 78 | 50 | 86 | 43 | 64 | -5 | T | -8 | 4.6 | 112 | 29.6 | 70 | 94 | 36 | 0 | 0 | 1 | 2 | 0 |
| MOBILE | 84 | 57 | 90 | 53 | 71 | -1 | 1.1 | -9 | 3.4 | 54 | 48.5 | 94 | 85 | 41 | 1 | 0 | 0 | 0 | 0 |
| MONTGOMERY | 83 | 51 | 92 | 45 | 67 | -4 | 1.1 | 3 | 2.5 | 63 | 37.4 | 86 | 96 | 33 | 1 | 1 | 0 | 1 | 1 |
| AK ANCHORAGE | 52 | 41 | 60 | 36 | 46 | 6 | 1.6 | 1.0 | 4.3 | 151 | 12.7 | 107 | 91 | 63 | 0 | 0 | 0 | 0 | 0 |
| BARROW | 30 | 24 | 33 | 19 | 27 | 3 | 2 | 1.1 | 1.6 | 252 | 4.5 | 128 | 86 | 55 | 0 | 7 | 7 | 3 | 0 |
| FAIRBANKS | 43 | 26 | 51 | 13 | 35 | 5 | 2.5 | 3 | 2.7 | 267 | 9.4 | 112 | 91 | 63 | 0 | 0 | 0 | 0 | 0 |
| JUNEAU | 54 | 48 | 58 | 45 | 51 | 4 | 2.5 | 7 | 7.6 | 105 | 39.2 | 104 | 100 | 94 | 0 | 0 | 1 | 3 | 2 |
| KODIAK | 55 | 40 | 62 | 32 | 48 | 2 | 2.4 | 6 | 5.4 | 73 | 51.5 | 107 | 89 | 59 | 0 | 0 | 0 | 2 | 2 |
| NOME | 40 | 29 | 45 | 25 | 35 | 5 | 1.1 | 6 | 3.5 | 139 | 12.7 | 107 | 88 | 66 | 0 | 1 | 6 | 3 | 1 |
| AZ PHOENIX | 102 | 73 | 103 | 69 | 88 | 6 | 0 | 0 | 1 | 7 | 9.3 | 171 | 29 | 13 | 7 | 0 | 0 | 0 | 0 |
| PRESCOTT | 86 | 49 | 88 | 45 | 68 | 0 | 0 | 0 | 1 | 4 | 13.6 | 88 | 55 | 9 | 0 | 0 | 0 | 0 | 0 |
| TUCSON | 97 | 65 | 98 | 60 | 81 | 0 | 0 | 0 | 5 | 26 | 13.1 | 140 | 51 | 13 | 7 | 0 | 0 | 0 | 0 |
| YUMA | 106 | 76 | 109 | 70 | 91 | 5 | 0 | 0 | 6 | 36 | 3.6 | 162 | 44 | 14 | 0 | 0 | 0 | 0 | 1 |
| AR FORT SMITH | 80 | 55 | 89 | 48 | 67 | 8 | 0 | 0 | 6 | 9 | 8 | 8 | 84 | 44 | 0 | 0 | 0 | 0 | 0 |
| LITTLE ROCK | 77 | 56 | 87 | 51 | 67 | 3 | 0 | 0 | 2 | 3 | 30.4 | 135 | 96 | 72 | 0 | 0 | 0 | 0 | 0 |
| CA BAKERSFIELD | 97 | 63 | 101 | 58 | 80 | 0 | 0 | 0 | 0 | 0 | 6.6 | 160 | 43 | 15 | 7 | 0 | 0 | 0 | 0 |
| FURKKA | 57 | 49 | 66 | 49 | 53 | 3 | 0 | 0 | T | 3 | 30.4 | 135 | 96 | 72 | 0 | 0 | 0 | 0 | 0 |
| FRESNO | 96 | 59 | 99 | 55 | 78 | 0 | 0 | 0 | 0 | 0 | 11.5 | 159 | 74 | 21 | 0 | 0 | 0 | 0 | 0 |
| LOS ANGELES | 80 | 62 | 83 | 58 | 71 | 2 | 0 | 0 | T | 0 | 18.5 | 224 | 94 | 58 | 0 | 0 | 0 | 0 | 0 |
| REDDING | 99 | 52 | 103 | 49 | 75 | 0 | 0 | 0 | 0 | 0 | 36.3 | 178 | 69 | 18 | 0 | 0 | 0 | 0 | 0 |
| SACRAMENTO | 93 | 55 | 97 | 51 | 74 | 0 | 0 | 0 | 0 | 0 | 19.1 | 170 | 88 | 28 | 6 | 0 | 0 | 0 | 0 |
| SAN DIEGO | 81 | 62 | 87 | 57 | 71 | 1 | 0 | 0 | T | 0 | 15.5 | 237 | 92 | 52 | 0 | 0 | 0 | 0 | 0 |
| SAN FRANCISCO | 73 | 53 | 85 | 52 | 63 | -1 | 0 | 0 | T | 0 | 19.4 | 155 | 93 | 53 | 0 | 0 | 0 | 0 | 0 |
| CO DENVER | 75 | 43 | 84 | 38 | 59 | 2 | 1 | 1 | 2 | 175 | 10.7 | 83 | 92 | 23 | 0 | 0 | 0 | 0 | 0 |
| GRAND JUNCTION | 81 | 46 | 84 | 44 | 64 | 1 | 0 | 0 | 4 | 36 | 9.4 | 123 | 84 | 11 | 0 | 0 | 0 | 0 | 0 |
| PUEBLO | 77 | 40 | 90 | 32 | 58 | -3 | 0 | 0 | 2 | 20 | 12.5 | 127 | 91 | 21 | 1 | 1 | 0 | 0 | 0 |
| CT BRIDGEPORT | 67 | 52 | 76 | 40 | 60 | -2 | 3.2 | 2.5 | 6.6 | 204 | 27.2 | 86 | 92 | 55 | 0 | 0 | 3 | 2 | 0 |
| HARTFORD | 66 | 45 | 72 | 32 | 55 | -3 | 1.8 | 9 | 5.5 | 137 | 33.7 | 103 | 95 | 52 | 0 | 1 | 3 | 1 | 1 |
| DC WASHINGTON | 70 | 50 | 84 | 41 | 60 | -6 | 8 | 1 | 3 | 7 | 29.6 | 100 | 95 | 52 | 0 | 0 | 3 | 1 | 0 |
| FL APALACHICOLA | 86 | 62 | 97 | 54 | 74 | -1 | T | -1.4 | 3.4 | 42 | 37.6 | 84 | 92 | 48 | 2 | 0 | 0 | 0 | 0 |
| DAYTONA BEACH | 86 | 68 | 91 | 62 | 77 | 0 | 3 | -1.0 | 2.7 | 41 | 26.5 | 68 | 92 | 1 | 0 | 0 | 1 | 0 | 0 |
| JACKSONVILLE | 84 | 60 | 92 | 53 | 72 | -5 | 2 | -1.2 | 7.6 | 103 | 33.7 | 83 | 95 | 51 | 1 | 0 | 2 | 0 | 0 |
| KEY WEST | 86 | 77 | 91 | 74 | 81 | -1 | 2.8 | 1.6 | 6.5 | 104 | 28.3 | 92 | 85 | 71 | 0 | 0 | 4 | 3 | 0 |
| MIAMI | 88 | 75 | 91 | 71 | 82 | 1 | 4 | -1.2 | 12.6 | 156 | 47.2 | 102 | 82 | 61 | 1 | 0 | 4 | 0 | 0 |
| ORLANDO | 87 | 69 | 91 | 63 | 78 | -1 | 7 | -4 | 5.4 | 85 | 39.0 | 94 | 90 | 54 | 0 | 2 | 0 | 1 | 0 |
| TALLAHASSEE | 87 | 52 | 94 | 42 | 69 | -5 | 0 | -1.0 | 1.8 | 30 | 42.1 | 78 | 94 | 34 | 2 | 0 | 0 | 0 | 0 |
| TAMPA | 87 | 69 | 90 | 60 | 78 | -1 | 8 | -2 | 6.6 | 106 | 31.8 | 83 | 84 | 54 | 1 | 0 | 1 | 1 | 1 |
| WEST PALM BEACH | 87 | 73 | 91 | 71 | 80 | -1 | 2.4 | 6 | 7.1 | 91 | 45.9 | 99 | 93 | 62 | 2 | 0 | 6 | 1 | 0 |
| GA ATLANTA | 79 | 54 | 89 | 47 | 66 | -2 | 4 | -4 | 3.9 | 108 | 37.7 | 95 | 89 | 35 | 0 | 0 | 1 | 0 | 0 |
| AUGUSTA | 82 | 50 | 92 | 40 | 66 | -4 | 1 | -6 | 3.5 | 107 | 29.8 | 82 | 95 | 37 | 1 | 0 | 1 | 0 | 0 |
| MACON | 83 | 50 | 92 | 39 | 66 | -5 | 3 | -3 | 1.3 | 44 | 37.3 | 105 | 92 | 31 | 1 | 0 | 1 | 0 | 0 |
| SAVANNAH | 81 | 59 | 93 | 48 | 70 | -3 | 3 | -4 | 6.8 | 147 | 38.1 | 91 | 90 | 44 | 1 | 0 | 2 | 0 | 0 |
| HI HILO | 86 | 69 | 88 | 65 | 77 | 1 | 3 | -1.6 | 5.0 | 55 | 74.8 | 80 | 87 | 65 | 0 | 0 | 1 | 0 | 0 |
| HONOLULU | 89 | 75 | 93 | 71 | 82 | 2 | 2 | -2 | 2 | 26 | 3.7 | 28 | 81 | 57 | 1 | 0 | 2 | 0 | 0 |
| KAHULUI | 91 | 70 | 93 | 66 | 81 | 2 | 0 | -1 | 0 | 8 | 8.2 | 59 | 77 | 53 | 7 | 0 | 0 | 0 | 0 |
| LIHUE | 87 | 74 | 90 | 70 | 81 | 2 | 9 | -1 | 1.9 | 72 | 12.1 | 43 | 85 | 65 | 1 | 0 | 4 | 0 | 0 |
| ID BOISE | 82 | 45 | 85 | 37 | 63 | 6 | 0 | -2 | T | 0 | 10.9 | 127 | 88 | 20 | 0 | 0 | 0 | 0 | 0 |
| LEWISTON | 82 | 50 | 84 | 45 | 66 | 7 | 0 | -2 | 1 | 8 | 10.9 | 117 | 57 | 20 | 0 | 0 | 0 | 0 | 0 |
| POCATELLO | 79 | 37 | 81 | 30 | 58 | 4 | 0 | -2 | 3 | 30 | 15.7 | 174 | 84 | 15 | 0 | 3 | 0 | 0 | 0 |
| IL CHICAGO | 59 | 41 | 67 | 31 | 50 | -10 | 4 | -4 | 4.5 | 112 | 40.2 | 143 | 91 | 49 | 0 | 1 | 2 | 0 | 0 |
| MOLINE | 62 | 41 | 68 | 36 | 52 | -8 | 2 | -7 | 4.1 | 97 | 47.8 | 151 | 93 | 41 | 0 | 0 | 2 | 0 | 0 |
| PEORIA | 63 | 41 | 71 | 37 | 52 | -9 | T | -8 | T | 7.6 | 186 | 168 | 94 | 47 | 0 | 0 | 0 | 0 | 0 |
| QUINCY | 63 | 44 | 70 | 39 | 54 | -8 | 0 | -1.0 | 6.5 | 131 | 31.9 | 102 | 81 | 41 | 0 | 0 | 0 | 0 | 0 |
| ROCKFORD | 59 | 39 | 66 | 28 | 49 | -10 | T | -8 | T | 3.7 | 93 | 133 | 91 | 44 | 0 | 1 | 1 | 0 | 0 |
| SPRINGFIELD | 65 | 44 | 73 | 39 | 54 | -8 | 3 | -4 | 6.1 | 172 | 40.6 | 147 | 90 | 42 | 0 | 0 | 1 | 0 | 0 |
| IN EVANSVILLE | 69 | 47 | 82 | 38 | 58 | -8 | 6 | -1 | 6.1 | 185 | 33.3 | 95 | 89 | 45 | 0 | 0 | 3 | 0 | 0 |
| FORT WAYNE | 62 | 41 | 74 | 31 | 52 | -9 | 8 | -2 | 4.9 | 171 | 35.4 | 132 | 91 | 53 | 0 | 1 | 2 | 1 | 0 |
| INDIANAPOLIS | 62 | 42 | 74 | 32 | 52 | -10 | 6 | 0 | 5.8 | 191 | 38.2 | 124 | 92 | 48 | 0 | 1 | 3 | 0 | 0 |
| SOUTH BEND | 58 | 43 | 67 | 35 | 50 | -9 | 1.2 | 4 | 7.8 | 203 | 38.7 | 130 | 90 | 55 | 0 | 0 | 4 | 1 | 0 |
| IA DES MOINES | 63 | 41 | 72 | 36 | 52 | -7 | T | -8 | T | 5.8 | 144 | 52.3 | 185 | 93 | 41 | 0 | 0 | 0 | 0 |
| SIOUX CITY | 66 | 38 | 76 | 31 | 52 | -6 | T | -6 | T | 1.3 | 42 | 29.0 | 131 | 93 | 38 | 0 | 2 | 0 | 0 |
| WATERLOO | 62 | 39 | 69 | 33 | 50 | -7 | T | -7 | T | 2.9 | 77 | 49.5 | 176 | 94 | 42 | 0 | 0 | 1 | 0 |
| KS CONCORDIA | 71 | 46 | 84 | 38 | 59 | -4 | T | -6 | T | 3.1 | 98 | 41.9 | 168 | 90 | 39 | 0 | 0 | 0 | 0 |
| DODGE CITY | 76 | 46 | 93 | 42 | 61 | -3 | 0 | -4 | 0 | 8 | 41 | 23.8 | 127 | 85 | 31 | 1 | 0 | 0 | 0 |
| GOODLAND | 74 | 41 | 89 | 35 | 57 | -2 | 0 | -3 | 3 | 18 | 17.4 | 107 | 91 | 26 | 0 | 0 | 0 | 0 | 0 |
| TOPEKA | 72 | 45 | 83 | 40 | 58 | -5 | T | -8 | T | 7.0 | 174 | 43.9 | 151 | 95 | 40 | 0 | 0 | 0 | 0 |
| WICHITA | 76 | 50 | 90 | 42 | 63 | -2 | 0 | -8 | 1.8 | 43 | 29.3 | 102 | 82 | 33 | 1 | 0 | 0 | 0 | 0 |
| KY BOWLING GREEN | 69 | 46 | 80 | 37 | 57 | -7 | 5 | -3 | 4.0 | 101 | 26.5 | 68 | 95 | 43 | 0 | 0 | 2 | 0 | 0 |
| LEXINGTON | 66 | 44 | 77 | 34 | 55 | -9 | 3 | -4 | 3.3 | 97 | 33.0 | 95 | 95 | 47 | 0 | 0 | 2 | 0 | 0 |
| LOUISVILLE | 67 | 45 | 78 | 37 | 56 | -8 | 2 | -4 | 4.1 | 123 | 37.8 | 109 | 95 | 50 | 0 | 0 | 2 | 0 | 0 |
| LA BATON ROUGE | 84 | 55 | 89 | 47 | 70 | -5 | 6 | -4 | 1.4 | 28 | 48.4 | 101 | 96 | 39 | 0 | 0 | 1 | 1 | 1 |
| LAKH CHARLES | 86 | 60 | 88 | 50 | 73 | -1 | 6 | -6 | 1.3 | 21 | 46.2 | 110 | 92 | 47 | 0 | 0 | 1 | 1 | 0 |
| NEW ORLEANS | 85 | 60 | 93 | 53 | 72 | -2 | T | -1.0 | T | 2.5 | 43 | 43.7 | 89 | 91 | 44 | 1 | 0 | 1 | 0 |
| SHREVEPORT | 85 | 59 | 90 | 55 | 72 | 1 | 2.6 | 1.7 | 2.1 | 4.0 | 99 | 47.0 | 127 | 92 | 45 | 1 | 0 | 2 | 2 |

Based on 1961-90 normals.

Weather Data for the Week Ending October 2, 1993

| 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 Sept 1 | PCT. NORMAL SINCE Sept 1 | TOTAL, IN., SINCE Jan 1 | | PCT. NORMAL SINCE Jan 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | TEMP. °F | | PRECIP. |
| | | | | | | | | | | | | | 90 AND ABOVE | | | | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| ME CARIBOU | 58 | 41 | 65 | 27 | 50 | 1 | 1.6 | .8 | .6 | 5.6 | 155 | 29.2 | 109 | 95 | 55 | 0 | 1 | 6 | 2 |
| ME PORTLAND | 62 | 44 | 69 | 31 | 53 | -1 | 2.4 | 1.6 | 1.5 | 4.1 | 124 | 30.7 | 99 | 93 | 52 | 0 | 1 | 2 | 1 |
| MD BALTIMORE | 69 | 47 | 82 | 37 | 58 | -5 | 1.7 | 1.0 | 1.6 | 4.1 | 113 | 31.9 | 102 | 95 | 50 | 0 | 0 | 2 | 1 |
| MD SALISBURY | 73 | 47 | 86 | 37 | 60 | -4 | .8 | .0 | .8 | 3.4 | 85 | 37.0 | 105 | 98 | 35 | 0 | 0 | 1 | 1 |
| MA BOSTON | 67 | 50 | 76 | 40 | 59 | -2 | 1.7 | 1.0 | .9 | 4.6 | 142 | 30.1 | 100 | 91 | 54 | 0 | 0 | 2 | 2 |
| MA CHATHAM | 64 | 53 | 67 | 44 | 58 | 0 | .5 | .4 | .4 | 3.5 | 88 | 26.6 | 82 | 95 | 64 | 0 | 0 | 2 | 2 |
| MI ALPENA | 53 | 35 | 61 | 25 | 44 | -9 | .5 | -1.1 | .3 | 1.6 | 48 | 21.0 | 93 | 97 | 59 | 0 | 2 | 3 | 0 |
| MI DETROIT | 59 | 44 | 64 | 35 | 51 | -7 | .8 | .2 | .6 | 4.4 | 144 | 26.1 | 104 | 90 | 55 | 0 | 0 | 3 | 1 |
| MI FLINT | 55 | 38 | 62 | 30 | 47 | -10 | 1.1 | .5 | .8 | 4.7 | 125 | 27.1 | 115 | 95 | 57 | 0 | 2 | 3 | 1 |
| MI GRAND RAPIDS | 54 | 40 | 62 | 30 | 47 | -9 | 1.3 | .5 | .5 | 8.2 | 185 | 38.6 | 141 | 94 | 56 | 0 | 2 | 4 | 2 |
| MI HOUGHTON LAKE | 53 | 39 | 62 | 27 | 46 | -7 | .5 | -1.1 | .4 | 2.1 | 59 | 22.6 | 102 | 94 | 55 | 0 | 2 | 5 | 0 |
| MI LANSING | 55 | 39 | 62 | 33 | 47 | -9 | .8 | .0 | .5 | 4.8 | 118 | 30.4 | 125 | 97 | 59 | 0 | 0 | 3 | 3 |
| MI MARQUETTE | 49 | 31 | 66 | 24 | 40 | -10 | 1.5 | .6 | .7 | 4.9 | 112 | 26.0 | 98 | 93 | 51 | 0 | 4 | 3 | 1 |
| MI MUSKOGON | 55 | 43 | 64 | 30 | 49 | -8 | 1.0 | .2 | .4 | 4.6 | 112 | 31.4 | 132 | 95 | 59 | 0 | 1 | 4 | 0 |
| MI SAULT ST. MARIE | 51 | 34 | 62 | 25 | 43 | -8 | .9 | -1.1 | .7 | 4.5 | 114 | 24.5 | 98 | 91 | 61 | 0 | 3 | 4 | 1 |
| MN ALEXANDRIA | 56 | 33 | 70 | 25 | 45 | -8 | .2 | -1.4 | .2 | 1.8 | 64 | 24.2 | 112 | 88 | 48 | 0 | 4 | 1 | 0 |
| MN DULUTH | 49 | 32 | 61 | 24 | 41 | -9 | .3 | -1.5 | .2 | 1.8 | 45 | 28.0 | 113 | 92 | 53 | 0 | 2 | 4 | 0 |
| MN INT'L FALLS | 48 | 31 | 60 | 22 | 39 | -9 | .4 | -1.3 | .2 | 2.0 | 62 | 19.5 | 95 | 93 | 57 | 0 | 4 | 3 | 0 |
| MN MINNEAPOLIS | 56 | 37 | 68 | 28 | 47 | -9 | .3 | -1.3 | .2 | 2.0 | 71 | 29.4 | 124 | 91 | 44 | 0 | 1 | 3 | 0 |
| MN ROCHESTER | 55 | 34 | 65 | 26 | 44 | -10 | -1.1 | -1.6 | .1 | 2.8 | 75 | 35.9 | 144 | 94 | 46 | 0 | 3 | 1 | 0 |
| MS GREENWOOD | 80 | 56 | 86 | 46 | 68 | -3 | 2.4 | 1.6 | 2.1 | 4.0 | 114 | 34.0 | 85 | 93 | 42 | 0 | 0 | 2 | 1 |
| MS JACKSON | 81 | 51 | 86 | 44 | 66 | -4 | .1 | -1.6 | .1 | 2.0 | 65 | 35.8 | 87 | 97 | 35 | 0 | 0 | 1 | 0 |
| MS MERIDIAN | 83 | 53 | 89 | 45 | 68 | -3 | .4 | -1.4 | .4 | 1.8 | 47 | 40.5 | 93 | 95 | 34 | 0 | 0 | 1 | 0 |
| MO CAPE GIRARDEAU | 71 | 49 | 83 | 44 | 60 | -5 | 1.2 | .4 | 1.0 | 8.4 | 224 | 39.3 | 112 | 92 | 36 | 0 | 0 | 3 | 1 |
| MO COLUMBIA | 69 | 44 | 76 | 40 | 57 | -6 | .0 | -1.9 | .0 | 12.1 | 289 | 54.8 | 184 | 95 | 45 | 0 | 0 | 0 | 0 |
| MO KANSAS CITY | 70 | 45 | 79 | 38 | 57 | -6 | T | -1.0 | T | 7.6 | 149 | 46.5 | 150 | 92 | 40 | 0 | 0 | 1 | 0 |
| MO SAINT LOUIS | 68 | 51 | 79 | 46 | 60 | -6 | .5 | -2.2 | .5 | 9.2 | 278 | 45.8 | 160 | 85 | 45 | 0 | 0 | 1 | 0 |
| MO SPRINGFIELD | 72 | 48 | 81 | 41 | 60 | -4 | .3 | -1.7 | .2 | 17.7 | 352 | 49.0 | 146 | 88 | 43 | 0 | 0 | 3 | 0 |
| MT BILLINGS | 69 | 42 | 81 | 36 | 56 | 1 | T | -1.3 | T | 1.8 | 121 | 13.2 | 106 | 89 | 32 | 0 | 0 | 0 | 0 |
| MT GLASGOW | 66 | 37 | 75 | 30 | 51 | -1 | T | -2.2 | T | .6 | 57 | 15.1 | 155 | 92 | 32 | 0 | 1 | 0 | 0 |
| MT GREAT FALLS | 69 | 38 | 76 | 33 | 54 | 1 | T | -2.2 | T | 1.7 | 131 | 20.7 | 160 | 93 | 34 | 0 | 0 | 0 | 0 |
| MT HAVRE | 70 | 38 | 83 | 29 | 54 | 2 | T | -2.2 | T | .4 | 28 | 12.7 | 131 | 94 | 29 | 0 | 3 | 0 | 0 |
| MT HELENA | 71 | 37 | 78 | 31 | 54 | 4 | .0 | -2.2 | .0 | 1.3 | 104 | 17.6 | 176 | 97 | 32 | 0 | 1 | 0 | 0 |
| MT KALISPELL | 72 | 35 | 74 | 31 | 53 | 5 | .0 | -2.2 | .0 | 1.6 | 121 | 19.6 | 155 | 96 | 36 | 0 | 3 | 0 | 0 |
| MT MILES CITY | 68 | 41 | 79 | 32 | 55 | 0 | T | -1.3 | T | .1 | 10 | 17.2 | 142 | 77 | 30 | 0 | 1 | 0 | 0 |
| MT MISSOULA | 78 | 38 | 80 | 32 | 58 | 7 | .0 | -2.2 | .0 | .4 | 30 | 11.2 | 104 | 84 | 23 | 0 | 1 | 0 | 0 |
| NE GRAND ISLAND | 71 | 44 | 82 | 34 | 57 | -2 | .0 | -1.5 | .0 | 1.5 | 49 | 30.2 | 138 | 86 | 35 | 0 | 0 | 0 | 0 |
| NE LINCOLN | 68 | 43 | 77 | 38 | 56 | -5 | .1 | -1.6 | .1 | 3.6 | 97 | 23.3 | 96 | 95 | 39 | 0 | 0 | 1 | 0 |
| NE NORFOLK | 69 | 42 | 80 | 36 | 56 | -3 | T | -1.5 | T | 3.2 | 123 | 31.7 | 144 | 89 | 37 | 0 | 0 | 1 | 0 |
| NE NORTH PLATTE | 73 | 38 | 88 | 30 | 56 | -1 | .1 | -1.3 | .0 | .8 | 46 | 23.2 | 134 | 95 | 33 | 0 | 2 | 2 | 0 |
| NE OMAHA | 67 | 43 | 76 | 35 | 55 | -5 | T | -1.8 | T | 3.4 | 88 | 39.0 | 157 | 86 | 41 | 0 | 0 | 1 | 0 |
| NE SCOTT'S BLUFF | 72 | 38 | 85 | 34 | 55 | -1 | .1 | -1.1 | .1 | 2.2 | 198 | 19.8 | 149 | 89 | 26 | 0 | 0 | 2 | 0 |
| NE VALENTINE | 69 | 41 | 85 | 30 | 55 | -4 | T | -1.4 | T | 1.8 | 72 | 18.2 | 91 | 71 | 26 | 0 | 2 | 0 | 0 |
| NV ELY | 80 | 30 | 84 | 22 | 55 | 3 | .0 | -1.2 | .0 | .2 | 14 | 8.2 | 102 | 89 | 11 | 0 | 4 | 0 | 0 |
| NV LAS VEGAS | 96 | 63 | 98 | 60 | 79 | 4 | .0 | -1.1 | .0 | .0 | 0 | 4.6 | 150 | 34 | 8 | 7 | 0 | 0 | 0 |
| NV RENO | 88 | 44 | 90 | 39 | 66 | 10 | .0 | -1.1 | .0 | .0 | 0 | 4.9 | 92 | 84 | 10 | 2 | 0 | 0 | 0 |
| NV WINNEMUCCA | 86 | 33 | 88 | 28 | 59 | 5 | .0 | -1.1 | .0 | T | 7 | 6.3 | 107 | 89 | 13 | 0 | 2 | 0 | 0 |
| NH CONCORD | 63 | 39 | 73 | 25 | 51 | -3 | 1.6 | .9 | .8 | 4.1 | 138 | 21.1 | 79 | 99 | 49 | 0 | 2 | 3 | 2 |
| NJ ATLANTIC CITY | 69 | 46 | 83 | 36 | 57 | -4 | .5 | -1.1 | .3 | 2.7 | 86 | 29.5 | 96 | 95 | 54 | 0 | 0 | 3 | 0 |
| NM ALBUQUERQUE | 83 | 48 | 87 | 44 | 66 | 2 | .0 | -1.4 | .0 | .6 | 28 | 12.5 | 83 | 72 | 21 | 0 | 0 | 0 | 0 |
| NM CLOVIS | 81 | 49 | 89 | 46 | 65 | 1 | .0 | -1.4 | .0 | .6 | 28 | 12.5 | 83 | 72 | 21 | 0 | 0 | 0 | 0 |
| NM ROSWELL | 86 | 48 | 91 | 46 | 67 | -1 | .0 | -1.4 | .0 | .9 | 41 | 9.2 | 87 | 57 | 15 | 2 | 0 | 0 | 0 |
| NY ALBANY | 63 | 45 | 70 | 28 | 54 | -3 | 1.5 | .8 | .6 | 3.8 | 122 | 31.6 | 116 | 95 | 46 | 0 | 1 | 4 | 1 |
| NY BINGHAMTON | 56 | 41 | 67 | 28 | 49 | -6 | 1.5 | .8 | .8 | 4.3 | 122 | 32.5 | 116 | 94 | 53 | 0 | 1 | 4 | 1 |
| NY BUFFALO | 58 | 42 | 69 | 34 | 50 | -7 | 3.4 | 2.7 | 1.4 | 5.8 | 156 | 30.1 | 107 | 92 | 50 | 0 | 0 | 6 | 3 |
| NY NEW YORK | 68 | 54 | 80 | 46 | 61 | -3 | 1.8 | 1.1 | 1.2 | 5.3 | 147 | 33.4 | 104 | 88 | 52 | 0 | 0 | 3 | 2 |
| NY ROCHESTER | 58 | 41 | 71 | 31 | 49 | -8 | 1.3 | .6 | .6 | 4.5 | 144 | 21.2 | 88 | 96 | 57 | 0 | 2 | 5 | 1 |
| NY SYRACUSE | 60 | 43 | 73 | 30 | 52 | -5 | 7.2 | 6.4 | 6.4 | 9.7 | 241 | 40.1 | 138 | 91 | 53 | 0 | 2 | 5 | 1 |
| NC ASHEVILLE | 72 | 43 | 84 | 32 | 57 | -5 | .3 | -1.7 | .2 | 1.6 | 33 | 29.9 | 69 | 98 | 36 | 0 | 1 | 2 | 0 |
| NC CHARLOTTE | 76 | 50 | 90 | 41 | 63 | -5 | T | -1.8 | T | .9 | 25 | 27.5 | 83 | 90 | 37 | 1 | 0 | 1 | 0 |
| NC GREENSBORO | 75 | 46 | 89 | 36 | 60 | -5 | T | -1.8 | T | 2.8 | 75 | 35.2 | 107 | 94 | 39 | 0 | 0 | 1 | 0 |
| NC HATTERAS | 78 | 62 | 88 | 51 | 70 | -1 | .4 | .7 | .4 | 3.0 | 53 | 39.5 | 94 | 84 | 55 | 0 | 0 | 1 | 0 |
| NC NEW BERN | 79 | 56 | 91 | 46 | 67 | -2 | 1.5 | .5 | 1.5 | 3.9 | 73 | 36.9 | 83 | 94 | 38 | 1 | 0 | 1 | 0 |
| NC RALEIGH | 76 | 49 | 90 | 37 | 63 | -4 | .3 | -1.3 | .3 | 3.5 | 104 | 28.7 | 88 | 94 | 40 | 1 | 0 | 1 | 0 |
| NC WILMINGTON | 81 | 57 | 93 | 45 | 69 | 0 | 1.1 | -1.2 | 1.1 | 8.1 | 114 | 48.2 | 103 | 93 | 35 | 1 | 0 | 1 | 1 |
| ND BISMARCK | 62 | 39 | 71 | 33 | 50 | -2 | T | -1.3 | T | .3 | 17 | 25.1 | 184 | 88 | 35 | 0 | 0 | 1 | 0 |
| ND FARGO | 60 | 30 | 72 | 21 | 45 | -7 | T | -1.4 | T | .5 | 23 | 18.9 | 114 | 93 | 40 | 0 | 5 | 1 | 0 |
| ND GRAND FORKS | 58 | 31 | 71 | 20 | 45 | -7 | T | -1.4 | T | .8 | 32 | 19.7 | 124 | 80 | 39 | 0 | 4 | 0 | 0 |
| ND WILLISTON | 63 | 34 | 70 | 26 | 49 | -3 | T | -1.3 | T | .3 | 20 | 17.5 | 147 | 93 | 34 | 0 | 3 | 0 | 0 |
| OH AKRON-CANTON | 60 | 42 | 69 | 35 | 51 | -8 | .7 | .0 | .2 | 4.0 | 116 | 28.3 | 99 | 95 | 53 | 0 | 0 | 5 | 0 |
| OH CINCINNATI | 64 | 41 | 75 | 31 | 53 | -10 | .1 | -1.5 | .1 | 2.8 | 92 | 29.4 | 92 | 96 | 47 | 0 | 1 | 3 | 0 |
| OH CLEVELAND | 60 | 44 | 70 | 38 | 52 | -7 | 2.3 | 1.6 | .9 | 6.5 | 180 | 31.4 | 112 | 94 | 53 | 0 | 0 | 7 | 1 |
| OH COLUMBUS | 65 | 45 | 77 | 38 | 55 | -4 | .4 | -1.3 | .2 | 1.9 | 57 | 28.3 | 97 | 97 | 48 | 0 | 0 | 4 | 0 |
| OH DAYTON | 62 | 43 | 75 | 35 | 53 | -8 | .9 | .4 | .5 | 5.4 | 201 | 40.9 | 145 | 96 | 52 | 0 | 0 | 5 | 0 |

Based on 1961-90 normals.

Weather Data for the Week Ending October 2, 1993

| 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 Sept 1 | PCT. NORMAL SINCE Sept 1 | TOTAL, IN., SINCE Jan 1 | | PCT. NORMAL SINCE Jan 1 | AVERAGE | MAXIMUM | AVERAGE MINIMUM | TEMP. °F | | PRECIP. |
| | | | | | | | | | | | | | 90 AND ABOVE | | | | | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| TOLEDO | 61 | 41 | 73 | 33 | 51 | -.7 | 1.8 | -.3 | .5 | 4.5 | 150 | 24.4 | 97 | 93 | 46 | 0 | 0 | 0 | 1 | |
| YOUNGSTOWN | 60 | 41 | 68 | 35 | 51 | -.3 | 1.0 | -.3 | .5 | 3.6 | 98 | 26.6 | 92 | 95 | 58 | 0 | 0 | 0 | 0 | |
| OK OKLAHOMA CITY | 79 | 55 | 86 | 45 | 67 | 1.1 | 0.0 | -.9 | .0 | 3.3 | 82 | 29.8 | 110 | 87 | 45 | 0 | 0 | 0 | 0 | |
| TULSA | 77 | 53 | 85 | 44 | 65 | 1.1 | 1.1 | -1.0 | .1 | 7.0 | 140 | 34.6 | 109 | 88 | 46 | 0 | 0 | 0 | 0 | |
| OR ASTORIA | 66 | 48 | 81 | 45 | 57 | 1.1 | 1.1 | -.9 | 1.1 | 1.1 | 3 | 34.4 | 95 | 98 | 58 | 0 | 0 | 0 | 0 | |
| BURNS | 81 | 34 | 84 | 32 | 57 | 7 | 0.0 | -1.1 | 0.0 | 0.0 | 0 | 8.0 | 116 | 84 | 17 | 0 | 2 | 0 | 0 | |
| MEDFORD | 92 | 46 | 95 | 41 | 69 | 8 | 0.0 | -2.2 | 0.0 | 0.0 | 0 | 12.9 | 118 | 92 | 17 | 6 | 6 | 0 | 0 | |
| FENDLETON | 81 | 50 | 83 | 45 | 66 | 7 | 0.0 | -2.2 | 0.0 | 0.0 | 0 | 11.8 | 146 | 75 | 22 | 0 | 0 | 0 | 0 | |
| PORTLAND | 84 | 49 | 89 | 47 | 67 | 7 | 0.0 | -1.5 | 0.0 | 0.0 | 0 | 22.3 | 100 | 94 | 30 | 0 | 0 | 0 | 0 | |
| SALEM | 86 | 45 | 90 | 42 | 65 | 8 | 0.0 | -1.5 | 0.0 | 0.0 | 0 | 25.4 | 109 | 93 | 26 | 1 | 0 | 0 | 0 | |
| PA ALLENTOWN | 65 | 45 | 76 | 33 | 55 | 5 | 3.1 | 2.3 | 1.7 | 8.0 | 194 | 40.1 | 120 | 93 | 58 | 0 | 0 | 0 | 2 | |
| ERIE | 60 | 46 | 68 | 39 | 53 | 3 | 1.2 | 3.3 | 4.4 | 4.8 | 102 | 26.9 | 89 | 83 | 52 | 0 | 0 | 0 | 3 | |
| HARRISBURG | 66 | 49 | 78 | 36 | 58 | 4 | 1.4 | 6.6 | 7.7 | 8.5 | 229 | 38.0 | 122 | 91 | 55 | 0 | 0 | 0 | 4 | |
| PHILADELPHIA | 74 | 53 | 86 | 43 | 63 | 3 | 1.8 | 9.9 | 1.4 | 6.7 | 154 | 33.7 | 95 | 92 | 53 | 0 | 0 | 0 | 1 | |
| PITTSBURGH | 63 | 43 | 72 | 34 | 53 | 3 | 1.2 | 6.6 | 5.5 | 4.1 | 131 | 29.3 | 102 | 90 | 48 | 0 | 0 | 0 | 1 | |
| SCRANTON | 62 | 44 | 71 | 30 | 53 | 3 | 2.2 | 1.5 | 8.8 | 7.0 | 200 | 29.7 | 106 | 99 | 55 | 0 | 1 | 5 | 2 | |
| RI PROVIDENCE | 68 | 50 | 74 | 37 | 59 | 2 | 2.0 | 1.2 | 1.3 | 4.1 | 111 | 29.6 | 89 | 94 | 51 | 0 | 0 | 0 | 2 | |
| SC CHARLESTON | 80 | 60 | 91 | 51 | 70 | 0 | 0.3 | -6.6 | 2.2 | 5.0 | 101 | 43.8 | 101 | 87 | 46 | 1 | 0 | 2 | 2 | |
| COLUMBIA | 79 | 49 | 90 | 37 | 64 | 4 | 0.0 | -7.7 | 3.3 | 3.9 | 101 | 30.4 | 75 | 97 | 37 | 1 | 0 | 1 | 0 | |
| FLORENCE | 80 | 55 | 91 | 44 | 68 | 8 | 0.3 | -3.3 | 3.3 | 2.5 | 70 | 26.9 | 75 | 91 | 38 | 1 | 0 | 1 | 0 | |
| GREENVILLE | 75 | 45 | 87 | 39 | 60 | 6 | 0.3 | -7.7 | 3.3 | 1.7 | 41 | 30.5 | 77 | 96 | 33 | 0 | 0 | 1 | 0 | |
| SD ABERDEEN | 64 | 36 | 77 | 32 | 51 | 5 | 1.1 | -3.3 | 1.1 | 1.2 | 58 | 25.4 | 137 | 87 | 38 | 0 | 2 | 2 | 0 | |
| BURON | 64 | 35 | 78 | 30 | 50 | 0 | 1.6 | -4.4 | 0.0 | 1.7 | 95 | 26.9 | 154 | 93 | 39 | 0 | 3 | 0 | 0 | |
| RAPID CITY | 68 | 41 | 79 | 33 | 55 | 5 | 1.1 | -3.3 | 0.0 | 1.5 | 111 | 17.7 | 122 | 91 | 29 | 0 | 0 | 0 | 0 | |
| SIoux FALLS | 63 | 37 | 76 | 33 | 50 | 0 | 1.6 | -6.6 | 0.0 | 1.9 | 59 | 33.7 | 165 | 92 | 42 | 0 | 0 | 1 | 0 | |
| TN CHATTANOOGA | 79 | 49 | 89 | 42 | 64 | 4 | 0.7 | -2.2 | 5.5 | 1.7 | 39 | 29.7 | 73 | 95 | 33 | 0 | 0 | 3 | 1 | |
| KNOXVILLE | 72 | 47 | 81 | 38 | 60 | 6 | 1.1 | -4.4 | 6.6 | 4.8 | 147 | 32.5 | 90 | 97 | 45 | 0 | 0 | 2 | 2 | |
| MEMPHIS | 75 | 56 | 83 | 51 | 65 | 5 | 2.2 | -5.5 | 2.2 | 3.9 | 106 | 32.6 | 85 | 89 | 47 | 0 | 0 | 1 | 0 | |
| NASHVILLE | 71 | 50 | 78 | 43 | 60 | 0 | 1.7 | -7.7 | 0.0 | 2.9 | 80 | 32.8 | 91 | 89 | 42 | 0 | 0 | 1 | 0 | |
| TX ABILENE | 85 | 57 | 88 | 50 | 71 | 1 | 0.0 | -7.7 | 0.0 | 2.4 | 71 | 14.3 | 73 | 82 | 35 | 0 | 0 | 0 | 0 | |
| AMARILLO | 81 | 48 | 90 | 43 | 64 | 4 | 1.1 | -4.4 | 1.1 | 1.0 | 48 | 16.3 | 95 | 82 | 23 | 1 | 0 | 0 | 0 | |
| AUSTIN | 90 | 63 | 94 | 57 | 77 | 7 | 1.1 | -8.8 | 1.1 | 3.3 | 10 | 22.0 | 90 | 86 | 35 | 5 | 0 | 1 | 0 | |
| BEAUMONT | 87 | 63 | 90 | 53 | 75 | 5 | 0.9 | -4.4 | 0.9 | 2.4 | 36 | 53.9 | 124 | 96 | 46 | 1 | 0 | 1 | 1 | |
| BROWNSVILLE | 89 | 68 | 94 | 61 | 79 | 1 | 1.1 | -1.1 | 1.1 | 2.0 | 32 | 19.1 | 89 | 91 | 52 | 4 | 0 | 3 | 0 | |
| CORPUS CHRISTI | 89 | 67 | 98 | 61 | 78 | 0 | 0.5 | -6.6 | 1.5 | 1.1 | 19 | 30.2 | 123 | 90 | 45 | 3 | 0 | 1 | 1 | |
| DEL RIO | 90 | 64 | 95 | 57 | 77 | 1 | 0.0 | -7.7 | 0.0 | 0.8 | 26 | 13.4 | 68 | 78 | 37 | 3 | 0 | 1 | 0 | |
| EL PASO | 90 | 55 | 94 | 51 | 72 | 2 | 0.0 | -3.3 | 0.0 | 1.3 | 74 | 8.3 | 115 | 67 | 15 | 3 | 0 | 0 | 0 | |
| FORT WORTH | 88 | 62 | 91 | 57 | 75 | 4 | 0.2 | -9.9 | 0.2 | 3.3 | 65 | 23.6 | 81 | 86 | 36 | 4 | 0 | 1 | 0 | |
| GALVESTON | 85 | 73 | 90 | 67 | 79 | 2 | 0.9 | -2.2 | 0.9 | 4.9 | 79 | 35.5 | 108 | 71 | 51 | 1 | 1 | 0 | 1 | |
| HOUSTON | 89 | 61 | 92 | 51 | 75 | 0 | 0.2 | -1.1 | 0.2 | 1.1 | 18 | 46.7 | 117 | 91 | 44 | 5 | 0 | 1 | 1 | |
| LUBBOCK | 84 | 52 | 91 | 45 | 68 | 1 | 0.0 | -6.6 | 0.0 | 0.2 | 9 | 11.6 | 74 | 79 | 21 | 1 | 0 | 0 | 0 | |
| MIDLAND | 85 | 53 | 91 | 48 | 69 | 1 | 1.1 | -6.6 | 0.0 | 2.1 | 62 | 14.9 | 116 | 81 | 32 | 1 | 0 | 0 | 0 | |
| SAN ANGELO | 85 | 56 | 89 | 48 | 71 | 1 | 1.1 | -8.8 | 0.0 | 2.0 | 55 | 13.8 | 84 | 86 | 38 | 0 | 0 | 0 | 0 | |
| SAN ANTONIO | 91 | 61 | 93 | 51 | 76 | 1 | 1.1 | -8.8 | 0.0 | 0.5 | 14 | 27.9 | 116 | 84 | 32 | 0 | 0 | 0 | 0 | |
| VICTORIA | 91 | 63 | 98 | 52 | 77 | 1 | 1.1 | -4.4 | 0.0 | 1.8 | 27 | 43.7 | 126 | 91 | 36 | 5 | 5 | 0 | 1 | |
| WACO | 87 | 60 | 90 | 53 | 74 | 1 | 1.6 | -3.3 | 0.6 | 3.2 | 85 | 22.5 | 92 | 93 | 40 | 0 | 0 | 1 | 1 | |
| WICHITA FALLS | 86 | 56 | 90 | 49 | 71 | 0 | 0.0 | -1.0 | 0.0 | 3.1 | 69 | 23.9 | 93 | 90 | 40 | 8 | 2 | 0 | 0 | |
| UT CEDAR CITY | 83 | 40 | 86 | 37 | 62 | 3 | 0.0 | -2.2 | 0.0 | 0.1 | 10 | 8.0 | 90 | 50 | 8 | 0 | 0 | 0 | 0 | |
| SALT LAKE CITY | 80 | 47 | 87 | 43 | 64 | 4 | 0.0 | -3.3 | 0.0 | 0.2 | 16 | 14.7 | 120 | 84 | 19 | 0 | 0 | 0 | 0 | |
| VT BURLINGTON | 59 | 43 | 64 | 28 | 51 | -3 | 1.3 | 6.6 | 4.4 | 3.7 | 107 | 26.5 | 101 | 95 | 55 | 0 | 2 | 5 | 1 | |
| VA NORFOLK | 75 | 57 | 91 | 48 | 66 | -1 | 0.7 | -1.1 | 0.7 | 4.1 | 100 | 28.4 | 80 | 89 | 47 | 1 | 0 | 1 | 1 | |
| RICHMOND | 76 | 49 | 91 | 38 | 63 | -3 | 0.4 | -4.4 | 0.3 | 3.0 | 83 | 33.0 | 99 | 95 | 42 | 1 | 0 | 2 | 0 | |
| ROANOKE | 71 | 44 | 85 | 32 | 57 | -6 | 0.4 | -4.4 | 0.4 | 4.6 | 122 | 29.7 | 95 | 95 | 42 | 0 | 1 | 2 | 0 | |
| WA QUILLAYUTE | 69 | 46 | 83 | 43 | 57 | 3 | 0.0 | -1.6 | 0.0 | 0.2 | 4 | 44.9 | 69 | 98 | 50 | 0 | 0 | 1 | 0 | |
| SEATTLE-TACOMA | 77 | 50 | 81 | 49 | 63 | 6 | 0.0 | -5.5 | 0.0 | 1 | 20.6 | 92 | 97 | 43 | 0 | 0 | 0 | 0 | 0 | |
| SPOKANE | 77 | 44 | 80 | 39 | 60 | 6 | 0.0 | -2.2 | 0.0 | 0.3 | 37 | 10.8 | 98 | 91 | 28 | 0 | 0 | 0 | 0 | |
| YAKIMA | 82 | 43 | 85 | 38 | 62 | 6 | 0.0 | -1.1 | 0.0 | 0.8 | 8 | 4.7 | 91 | 94 | 27 | 0 | 0 | 0 | 0 | |
| WV BECKLEY | 63 | 43 | 73 | 35 | 53 | -5 | 1.3 | 6.6 | 0.8 | 4.2 | 119 | 30.0 | 93 | 94 | 52 | 0 | 0 | 3 | 1 | |
| CHARLESTON | 68 | 45 | 77 | 33 | 57 | -6 | 1.7 | 1.0 | 0.9 | 6.2 | 181 | 31.2 | 95 | 96 | 52 | 0 | 0 | 3 | 2 | |
| HUNTINGTON | 68 | 45 | 77 | 36 | 57 | -4 | 0.3 | -4.4 | 0.2 | 4.4 | 129 | 31.8 | 95 | 96 | 48 | 0 | 0 | 3 | 0 | |
| PARKERSBURG | 65 | 46 | 73 | 38 | 55 | -7 | 0.9 | -3.3 | 0.5 | 3.5 | 122 | 30.3 | 93 | 96 | 50 | 0 | 0 | 4 | 1 | |
| WI GREEN BAY | 56 | 37 | 66 | 28 | 46 | -8 | 0.1 | -6.6 | 0.1 | 2.8 | 76 | 29.5 | 128 | 95 | 47 | 0 | 1 | 1 | 0 | |
| LACROSSE | 56 | 38 | 64 | 32 | 47 | -10 | 0.0 | -7.7 | 0.0 | 1.8 | 45 | 38.5 | 151 | 90 | 42 | 0 | 1 | 1 | 0 | |
| MADISON | 58 | 38 | 65 | 28 | 48 | -8 | 0.1 | -6.6 | 0.1 | 3.7 | 95 | 40.6 | 155 | 92 | 46 | 0 | 2 | 4 | 0 | |
| MILWAUKEE | 60 | 45 | 70 | 36 | 53 | -4 | 0.1 | -6.6 | 0.1 | 3.9 | 110 | 33.8 | 130 | 84 | 44 | 0 | 0 | 2 | 0 | |
| WAUSAU | 52 | 34 | 58 | 27 | 43 | -11 | 0.3 | -5.5 | 0.2 | 4.1 | 90 | 31.7 | 118 | 88 | 46 | 0 | 3 | 4 | 0 | |
| WY CASPER | 75 | 39 | 81 | 33 | 57 | 4 | 0.0 | -2.2 | 0.0 | 1.0 | 96 | 13.2 | 130 | 92 | 21 | 0 | 0 | 1 | 0 | |
| CHEYENNE | 68 | 40 | 77 | 35 | 54 | 1 | 0.0 | -2.2 | 0.0 | 3.2 | 238 | 15.5 | 122 | 93 | 28 | 0 | 0 | 0 | 0 | |
| LANDER | 74 | 42 | 82 | 37 | 58 | 5 | 0.0 | -3.3 | 0.0 | 0.4 | 36 | 13.2 | 125 | 65 | 19 | 0 | 0 | 0 | 0 | |
| SHERIDAN | 71 | 37 | 79 | 32 | 54 | 2 | 0.0 | -3.3 | 0.0 | 0.6 | 41 | 14.5 | 122 | 93 | 30 | 0 | 1 | 0 | 0 | |

Based on 1961-90 normals.

September Weather and Crop Summary

Weather

Corn Belt farmers anxiously eyed Canadian airmasses for the second consecutive September, hoping for freeze-free weather for late-maturing crops. Corn and soybeans struggled toward maturity under cool, wet conditions, except in the northwestern Corn Belt, where it was cool and drier than normal. The western Corn Belt survived a mid-September cold blast with only scattered frost, but the September 14 outbreak ended the growing season in western Nebraska, the western Dakotas, and the northern High Plains. More than 2 weeks passed before the next major cold episodes, which ended Wisconsin's growing season on September 30, and Minnesota's on October 2.

Heavy rainfall in the middle Mississippi Valley caused rapid rises on the Mississippi River and many tributaries. After falling below the 30-foot flood stage at St. Louis, MO, for the first time in 80 days on September 13, the Mississippi rose more than 9 feet in less than 2 weeks, in response to torrential rains on saturated soils. Mississippi barge traffic, which resumed in late August under restrictions to prevent further levee damage, was again temporarily halted. Massive tributary flooding (of the Arkansas and lower Missouri Rivers) occurred from northeastern Oklahoma to southwestern Missouri during the third full week of September after a 2-week inundation. Part of the moisture was supplied by remnants of the eastern Pacific Hurricane Lidia and the Atlantic Hurricane Gert.

After a record-cool summer, the Northwest enjoyed its first above-normal temperatures since May. However, dry weather accompanied the warmth across the West, raising wildfire concerns. Farther east, long-term moisture deficits continued to mount in many areas from southern Texas to the Middle Atlantic region. Moisture supplies improved in the North Atlantic States.

Spring wheat harvest activities progressed under generally favorable (albeit cool) conditions, except during a powerful mid-month storm. The storm was driven by a huge temperature contrast that sent readings into the 90's as far north as southern South Dakota on September 12, and brought a freeze to the northern Plains 2 days later. In addition, more than 5 inches of snow fell in Denver, CO, and Cheyenne, WY.

(Continued from front cover)
air overspread areas east of the Rockies. In the vicinity of the northern Great Lakes, snow showers developed. A 1.7-inch snowfall in Marquette, MI, set a September record for that location. Nearly 3 dozen daily record lows were established from the upper Midwest to the Middle Atlantic region on Thursday and Friday. On September 30, Madison, WI, recorded 28°F and Fort Wayne, IN, noted 31°F. A day later, temperatures fell to 33°F in Youngstown, OH, and to 32°F in Asheville, NC. Roanoke, VA (32°F), reported its earliest

Fieldwork

During the first half of September, rain fell over the gulf coast and eastern third of the United States bringing relief to field crops. Rains came in the form of showers across the United States throughout the month with the heaviest amounts being reported in the Mississippi Valley. Flooding occurred in low-lying fields, causing crop damage. By the end of September, winter wheat plantings and the harvesting of other field crops were behind schedule.

Temperatures over most of the Nation averaged below normal, causing slow crop development in the central Great Plains. Scattered frost during the second half of September caused crop damage in the western Corn Belt and northern half of the United States.

Winter wheat planting lagged behind previous year's progress. Frequent precipitation improved planting conditions in the Northwest early in September, but later caused excessive soil moisture that resulted in delays. At times during the month, growers in the South waited for improved soil moisture before planting. Spring wheat harvest was also behind last year's pace mainly due to late plantings and slow maturity.

Corn harvest began around mid-September with progress off to a good start. Despite late maturity across the Corn Belt late in the month progress matched 1992's pace, but was well behind average.

Soybean harvest began around the third week of the month, but lagged behind previous year's pace and average. Harvesting in the lower Mississippi and Ohio Valley was ahead of normal.

Cotton harvest by the end of September was ahead of last year's progress. Hot weather in the South and Southeast caused the crop to mature ahead of normal. Bolls were prematurely opening in areas that had been hot and dry.

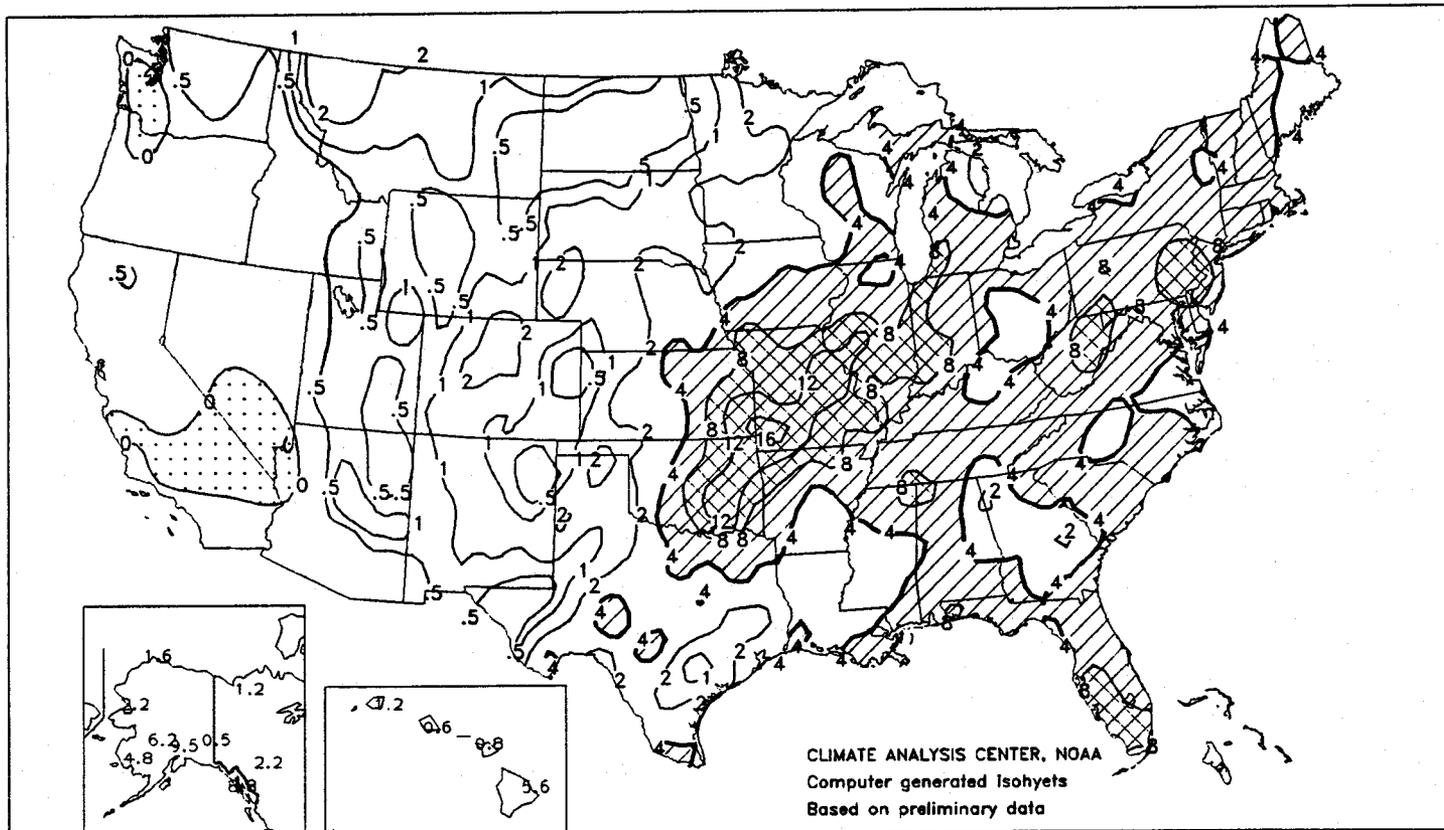
Sorghum crop development continued ahead of last year's pace. Percentage of acreage coloring and maturity were 10 to 14 days ahead of the previous year. As September came to a close, harvesting progress equaled the progress of a year ago.

Rice harvest continued throughout the month of September but lagged 1 to 2 weeks behind last year's pace. Periods of scattered showers slowed harvest in the upper coast region of Texas and other areas.

freeze on record, while Columbia, SC (37°F), observed its earliest sub-40°F reading. Late in the week, another chilly airmass rushed into the upper Midwest. By Saturday morning, a sampling of minimum temperatures included 24°F in St. Cloud, MN, 27°F in Mason City, IA, and 30°F in Huron, SD. In contrast, summer-like weather persisted in the West, where weekly temperatures averaged as much as 8°F above normal. The combination of hot, breezy, dry weather provided a favorable environment for wildfire development, such as the blaze that reportedly charred 20,000 acres in southern California's Los Padres National Forest.

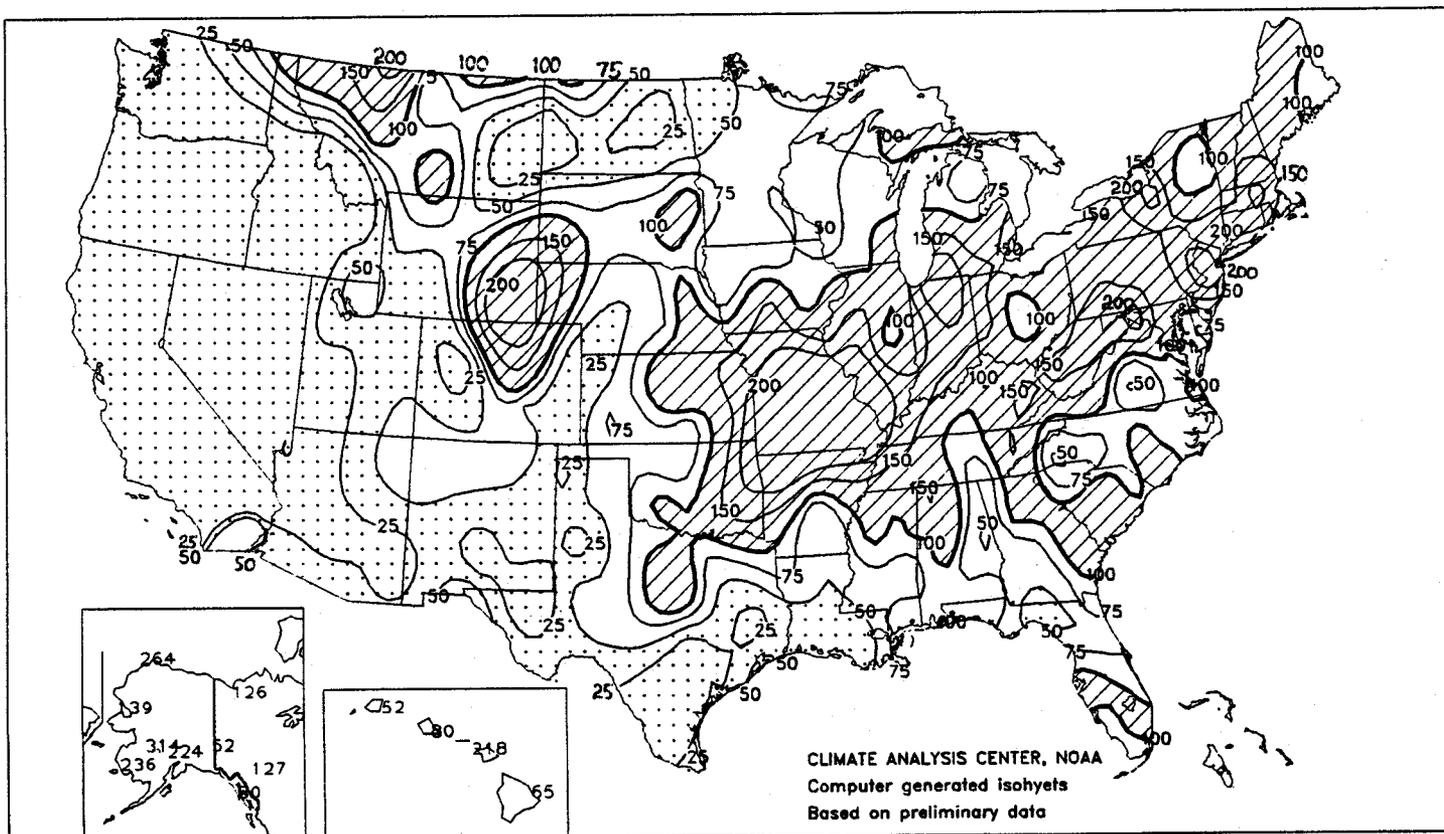
TOTAL PRECIPITATION (inches)

SEP 1993



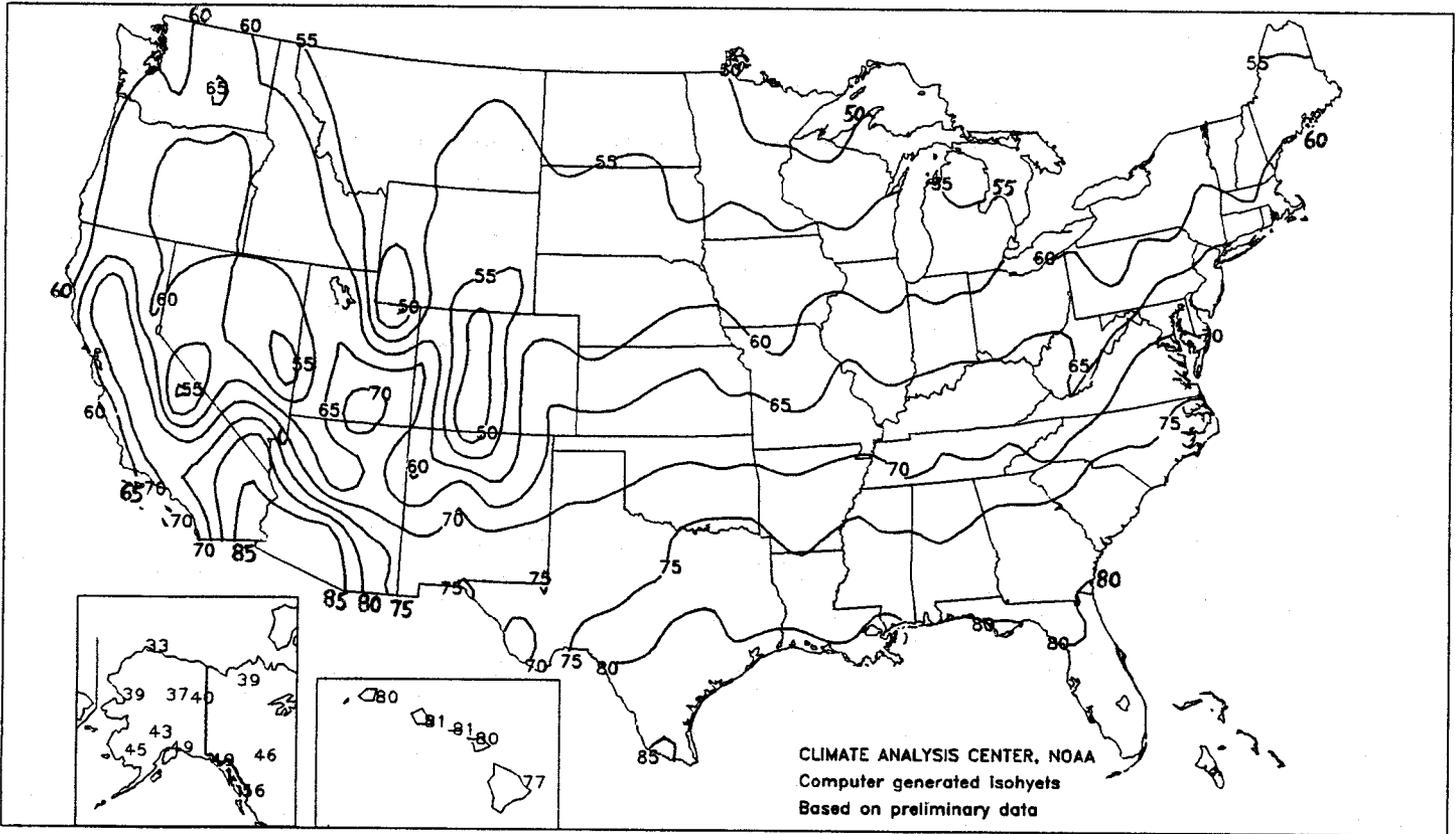
PERCENT OF NORMAL PRECIPITATION

SEP 1993



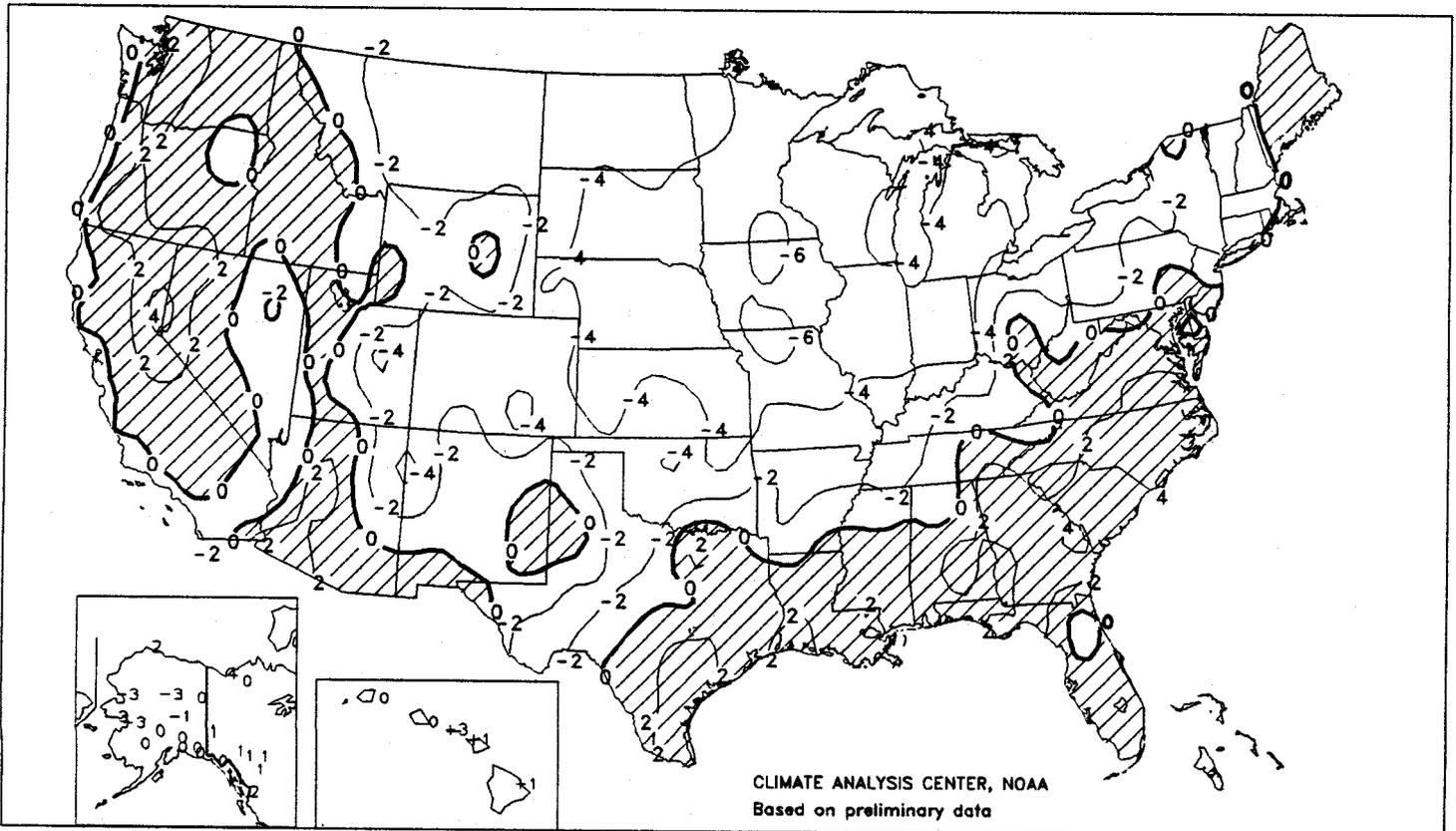
AVERAGE TEMPERATURE(°F)

SEP 1993



Departure of Average Temperature from Normal(°F)

SEP 1993



TEMPERATURE AND PRECIPITATION SUMMARY September 1993

| STATES AND STATIONS | Temp. °F | | Precip. | | STATES AND STATIONS | Temp. °F | | Precip. | | STATES AND STATIONS | Temp. °F | | Precip. | |
|---------------------|----------|-----------|---------|-----------|---------------------|----------|-----------|---------|-----------|---------------------|----------|-----------|---------|-----------|
| | AVERAGE | DEPARTURE | TOTAL | DEPARTURE | | AVERAGE | DEPARTURE | TOTAL | DEPARTURE | | AVERAGE | DEPARTURE | TOTAL | DEPARTURE |
| AL BIRMINGHAM | 73 | 0 | 4.6 | 0.7 | LA BATON ROUGE | 78 | 0 | 1.4 | -3.4 | OK YOUNGSTOWN | 60 | -2 | 3.5 | 0.0 |
| AL HUNTSVILLE | 71 | -2 | 4.5 | 0.5 | LA LAKE CHARLES | 80 | 2 | 1.3 | -4.4 | OK OKLAHOMA CITY | 70 | -3 | 3.3 | -0.5 |
| AL MOBILE | 78 | 0 | 3.4 | -2.6 | LA NEW ORLEANS | 80 | 2 | 2.5 | -3.0 | OK TULSA | 69 | -5 | 6.9 | 2.2 |
| AL MONTGOMERY | 77 | 2 | 2.5 | -1.3 | ME SHREVEPORT | 77 | 2 | 3.5 | -0.3 | OR ASTORIA | 57 | -2 | 0.1 | -2.8 |
| AK ANCHORAGE | 49 | 1 | 4.2 | 1.6 | ME CARIBOU | 54 | 1 | 5.1 | 1.7 | OR BURNS | 57 | 2 | 0.0 | -0.6 |
| AK BARROW | 33 | 2 | 1.6 | 1.0 | MD PORTLAND | 60 | 0 | 4.1 | 1.0 | ME MEFORD | 67 | 2 | 0.0 | -0.9 |
| AK FAIRBANKS | 44 | -1 | 2.6 | 1.7 | MD BALTIMORE | 69 | 0 | 4.1 | 0.7 | ME PENDLETON | 64 | 1 | T | -0.6 |
| AK JUNEAU | 51 | 2 | 6.4 | -0.4 | MA SALLSBURY | 70 | 1 | 3.4 | -0.3 | ME PORTLAND | 66 | 2 | T | -1.8 |
| AK KODIAK | 51 | 1 | 5.4 | -1.6 | MA BOSTON | 65 | 0 | 4.6 | 1.6 | ME SALEM | 63 | 2 | T | -1.5 |
| AZ NOME | 39 | -3 | 3.0 | 0.6 | MI CHATHAM | 63 | 0 | 3.5 | -0.2 | PA ALLENTOWN | 64 | -1 | 7.8 | 3.8 |
| AZ FLAGSTAFF | 57 | -1 | 2.0 | 0.5 | MI ALPENA | 52 | -5 | 1.5 | -1.6 | PA ERIE | 61 | -3 | 4.5 | 0.1 |
| AZ PHOENIX | 88 | 2 | 0.1 | -0.8 | MI DETROIT | 61 | -2 | 4.3 | 1.4 | PA HARRISBURG | 67 | 0 | 2.6 | -0.9 |
| AZ PRESCOTT | 68 | 4 | 0.1 | -1.9 | MI FLINT | 56 | -5 | 4.7 | 1.1 | PA PHILADELPHIA | 70 | 3 | 6.7 | 2.5 |
| AZ TUCSON | 81 | 1 | 0.5 | -1.2 | MI GRAND RAPIDS | 56 | -5 | 8.2 | 4.0 | PA PITTSBURGH | 63 | -1 | 3.9 | 0.9 |
| WY WINSLOW | 67 | -2 | T | -0.8 | MI HOUGHTON LAKE | 53 | -4 | 2.1 | -1.3 | PA SCRANTON | 61 | -2 | 6.6 | 3.3 |
| WY YUMA | 88 | 3 | 0.1 | -0.2 | MI LANSING | 56 | -4 | 4.8 | 0.9 | RI WILLIAMSPORT | 63 | -1 | 4.7 | 1.3 |
| AR FORT SMITH | 73 | -1 | 6.2 | 2.9 | MI MARQUETTE | 50 | -4 | 4.4 | 0.3 | RI PROVIDENCE | 65 | 1 | 4.1 | 0.6 |
| AR LITTLE ROCK | 73 | -1 | 2.0 | -2.5 | MI MUSKEGON | 57 | -4 | 4.6 | 0.7 | SC CHARLESTON | 77 | 2 | 5.0 | 0.3 |
| CA BAKERSFIELD | 77 | 1 | 0.0 | -0.2 | MI SAULT ST. MARIE | 51 | -4 | 3.7 | 0.0 | SC COLUMBIA | 78 | 3 | 3.9 | 0.2 |
| CA BISHOP | 67 | -2 | T | T | MN ALEXANDRIA | 53 | -5 | 1.8 | -0.8 | SC FLORENCE | 77 | 2 | 2.5 | -0.9 |
| CA EUREKA | 56 | -1 | T | -0.9 | MN DULUTH | 49 | -5 | 1.8 | -2.0 | SD GREENVILLE | 72 | 0 | 1.7 | -2.2 |
| CA FRESNO | 76 | 1 | 0.0 | -0.2 | MN INT'L FALLS | 49 | -5 | 2.0 | -1.1 | SD ABERDEEN | 56 | -3 | 1.2 | -0.8 |
| CA LOS ANGELES | 69 | -1 | T | -0.3 | MN MINNEAPOLIS | 55 | -5 | 2.0 | -0.7 | SD HURON | 56 | -5 | 1.7 | 0.0 |
| CA REDDING | 74 | 0 | 0.0 | -0.9 | MN ROCHESTER | 54 | -6 | 2.8 | -0.7 | SD RAPID CITY | 57 | -3 | 1.5 | 0.2 |
| CA SACRAMENTO | 71 | 0 | 0.0 | -0.4 | MN ST. CLOUD | 52 | -5 | 2.1 | -0.7 | SD SIOUX FALLS | 57 | -4 | 1.9 | -1.1 |
| CA SAN DIEGO | 69 | -2 | 0.0 | -0.2 | MS GREENWOOD | 76 | 0 | 3.8 | 0.4 | TN BRISTOL | 67 | -2 | 2.5 | -0.5 |
| CA SAN FRANCISCO | 63 | -1 | T | -0.2 | MS JACKSON | 76 | 1 | 2.0 | -0.9 | TN CHATTANOOGA | 74 | 2 | 1.7 | -2.5 |
| CA STOCKTON | -- | -- | -- | -- | MS MERIDIAN | 76 | 1 | 1.8 | -1.8 | TN KNOXVILLE | 71 | 0 | 4.8 | 1.7 |
| CO ALAMOSA | 53 | -2 | 0.6 | -0.1 | MS TUPELO | 71 | -3 | 5.5 | 1.9 | TN MEMPHIS | 74 | -1 | 3.7 | 0.2 |
| CO CO. SPRINGS | 58 | -3 | 1.4 | 0.1 | MO CAPE GIRARDEAU | 68 | -2 | 7.4 | 3.8 | TN NASHVILLE | 71 | -1 | 2.9 | -0.6 |
| CO DENVER | 61 | -2 | 2.3 | 1.0 | MO COLUMBIA | 63 | -5 | 12.1 | 8.1 | TX ABILENE | 74 | -2 | 2.4 | -0.8 |
| CO GRAND JUNCTION | 66 | -2 | 0.4 | -0.6 | MO KANSAS CITY | 63 | -5 | 7.6 | 2.8 | TX AMARILLO | 68 | -1 | 1.0 | -1.0 |
| CO PUEBLO | 60 | -5 | 0.2 | -0.7 | MO SAINT LOUIS | 66 | -4 | 9.2 | 6.0 | TX AUSTIN | 82 | 2 | 0.3 | -3.0 |
| CT BRIDGEPORT | 66 | 0 | 6.6 | 3.5 | MO SPRINGFIELD | 66 | -3 | 17.5 | 12.7 | TX BEAUMONT | 81 | 2 | 2.4 | -3.9 |
| CT HARTFORD | 63 | -1 | 5.4 | 1.6 | MT BILLINGS | 57 | -2 | 1.8 | 0.4 | TX BROWNSVILLE | 83 | 1 | 1.9 | -4.1 |
| DC WASHINGTON | 71 | 0 | 3.7 | 0.4 | MT GLASGOW | 54 | -3 | 0.6 | -0.4 | TX CORPUS CHRISTI | 83 | 2 | 1.1 | -4.4 |
| FL APALACHICOLA | 80 | 2 | 3.4 | -4.2 | MT GREAT FALLS | 53 | -4 | 1.7 | 0.5 | TX DEL RIO | 79 | 0 | 0.8 | -2.0 |
| FL DAYTONA BEACH | 80 | 0 | 2.7 | -3.6 | MT HAVRE | 53 | -3 | 0.4 | -0.8 | TX EL PASO | 76 | 2 | 1.3 | -0.4 |
| FL FT. MYERS | 83 | 1 | 6.2 | -2.4 | MT HELENA | 54 | -1 | 1.2 | 0.1 | TX FORT WORTH | 78 | 3 | 3.3 | -1.5 |
| FL JACKSONVILLE | 80 | 0 | 7.6 | 0.6 | MT KALISPELL | 52 | -1 | 1.6 | 0.4 | TX GALVESTON | 82 | 2 | 4.9 | -1.0 |
| FL KEY WEST | 84 | 1 | 5.8 | -0.1 | MT MILES CITY | 57 | -3 | 0.1 | -1.1 | TX HOUSTON | 80 | 2 | 1.1 | -4.6 |
| FL MIAMI | 83 | 1 | 12.6 | 5.0 | MT MISSOULA | 56 | 0 | 0.4 | -0.8 | TX LAREDO | -- | -- | -- | -- |
| FL ORLANDO | 81 | 0 | 5.4 | -0.7 | NE GRAND ISLAND | 60 | -4 | 1.5 | -1.4 | TX LUBBOCK | 72 | 1 | 0.2 | -2.4 |
| FL TALLAHASSEE | 80 | 1 | 1.8 | -3.8 | NE LINCOLN | 60 | -5 | 3.6 | 0.1 | TX MIDLAND | 72 | -2 | 2.1 | -1.2 |
| FL TAMPA | 82 | 1 | 6.6 | 0.6 | NE NORFOLK | 59 | -4 | 3.2 | 0.7 | TX SAN ANGELO | 74 | -1 | 2.0 | -1.4 |
| FL WEST PALM BEACH | 82 | 0 | 6.6 | -0.6 | NE NORTH PLATTE | 58 | -3 | 0.7 | -0.9 | TX SAN ANTONIO | 82 | 2 | 0.5 | -2.9 |
| GA ATHENS | 75 | 2 | 3.2 | -0.4 | NE OMAHA | 60 | -5 | 3.4 | -0.3 | TX VICTORIA | 82 | 3 | 1.8 | -4.6 |
| GA ATLANTA | 77 | 4 | 3.9 | 0.5 | NE SCOTTSBLUFF | 57 | -4 | 2.2 | 1.1 | TX WACO | 78 | -1 | 3.2 | -0.3 |
| GA AUGUSTA | 78 | 3 | 3.4 | 0.4 | NE VALENTINE | 57 | -6 | 1.8 | -0.6 | TX WICHITA FALLS | 74 | -1 | 3.1 | -1.1 |
| GA MACON | 78 | 2 | 1.3 | -1.5 | NV ELKO | 56 | -2 | T | -0.5 | UT BLANDING | 66 | -- | T | -0.9 |
| GA SAVANNAH | 80 | 3 | 6.8 | 2.4 | NV ELY | 55 | -1 | 0.2 | -0.9 | UT CEDAR CITY | 63 | 0 | 0.1 | -0.9 |
| HI HILO | 77 | 1 | 5.0 | -3.5 | NV LAS VEGAS | 81 | 1 | 0.0 | -0.3 | UT SALT LAKE CITY | 65 | 0 | 0.2 | -1.1 |
| HI HONOLULU | 81 | 0 | 0.1 | -0.7 | NV RENO | 65 | 5 | 0.0 | -0.4 | VT BURLINGTON | 59 | 0 | 3.4 | 0.1 |
| HI KAHULUI | 80 | 1 | 0.8 | 0.4 | NV WINNEMUCCA | 61 | 2 | T | -0.4 | VA LYNCHBURG | 71 | 3 | 1.7 | -1.5 |
| HI LIHUE | 80 | 1 | 1.8 | -0.6 | NH CONCORD | 59 | 0 | 4.0 | 1.2 | VA NORFOLK | 75 | 3 | 4.1 | 0.2 |
| ID BOISE | 63 | 1 | T | -0.8 | NJ ATLANTIC CITY | 67 | 1 | 2.7 | -0.3 | VA RICHMOND | 73 | 2 | 3.0 | -0.4 |
| ID LEWISTON | 65 | 1 | 0.1 | -0.7 | NM ALBUQUERQUE | 69 | 1 | 0.5 | -0.5 | VA ROANOKE | 69 | 1 | 4.6 | 1.1 |
| ID POCATELLO | 58 | -1 | 0.3 | -0.6 | NY CLOVIS | 69 | 1 | 0.6 | -1.5 | WA COLVILLE | 60 | 2 | 0.6 | -0.3 |
| IL CAIRO | -- | -- | -- | -- | NY ROSWELL | 72 | 0 | 0.9 | -1.2 | WA QUILLAYUTE | 56 | -1 | 0.2 | -4.6 |
| IL CHICAGO | 59 | -5 | 4.5 | 0.6 | NY ALBANY | 60 | -1 | 3.2 | 0.3 | WA SEATTLE-TACOMA | 62 | 1 | T | -1.8 |
| IL MOLINE | 61 | -4 | 4.1 | 0.1 | NY BINGHAMTON | 57 | -2 | 4.0 | 0.7 | WA SPOKANE | 59 | 0 | 0.3 | -0.4 |
| IL PEORIA | 61 | -5 | 7.6 | 3.7 | NY BUFFALO | 59 | -3 | 5.5 | 2.0 | WA WALLA WALLA | 67 | 2 | T | -0.8 |
| IL QUINCY | 61 | -6 | 6.5 | 1.8 | NY NEW YORK | 68 | 0 | 5.2 | 1.8 | WA YAKIMA | 61 | 0 | T | -0.4 |
| IL ROCKFORD | 58 | -5 | 3.7 | -0.1 | NY ROCHESTER | 59 | -3 | 4.4 | 1.4 | WV BECKLEY | 64 | 1 | 4.1 | 0.7 |
| IL SPRINGFIELD | 62 | -5 | 6.0 | 2.7 | NY SYRACUSE | 60 | -2 | 9.4 | 5.6 | WV CHARLESTON | 67 | -1 | 6.0 | 2.8 |
| IN EVANSVILLE | 67 | -4 | 5.6 | 2.5 | NC ASHEVILLE | 68 | 1 | 1.6 | -2.8 | WV ELKINS | 63 | 2 | 6.2 | 2.5 |
| IN FORT WAYNE | 62 | -4 | 4.8 | 2.2 | NC CHARLOTTE | 75 | 2 | 0.9 | -2.6 | WV HUNTINGTON | 67 | 1 | 4.4 | 1.1 |
| IN INDIANAPOLIS | 62 | -5 | 5.7 | 2.8 | NC GREENSBORO | 72 | 2 | 2.8 | -0.7 | WV PARKERSBURG | 65 | -2 | 3.0 | 0.0 |
| IN SOUTH BEND | 59 | -5 | 7.8 | 4.1 | NC HATTERAS | 76 | 2 | 3.0 | -2.3 | WI GREEN BAY | 55 | -4 | 2.8 | -0.7 |
| IA DES MOINES | 59 | -4 | 5.8 | 2.0 | NC NEW BERN | 76 | 2 | 3.9 | -1.2 | WI LACROSSE | 56 | -5 | 1.8 | -2.0 |
| IA DUBUQUE | 57 | -5 | 4.5 | 0.4 | NC RALEIGH | 74 | 2 | 3.5 | 0.3 | WI MADISON | 57 | -4 | 3.7 | 0.0 |
| IA SIOUX CITY | 58 | -5 | 1.3 | -1.6 | NC WILMINGTON | 78 | 4 | 8.1 | 1.3 | WI MILWAUKEE | 61 | -1 | 3.9 | 0.5 |
| IA WATERLOO | 58 | -4 | 2.9 | -0.6 | ND BISMARK | 53 | -4 | 0.3 | -1.2 | WI WAUSAU | 53 | -5 | 4.1 | -0.2 |
| KS CONCORDIA | 63 | -5 | 3.1 | 0.1 | ND FARGO | 55 | -3 | 0.5 | -1.5 | WY CASPER | 58 | 1 | 1.0 | 0.0 |
| KS DODGE CITY | 65 | -3 | 0.8 | -1.1 | ND GRAND FORKS | 54 | -2 | 0.8 | -1.5 | WY CHEYENNE | 54 | -3 | 3.2 | 1.9 |
| KS GOODLAND | 60 | -4 | 0.3 | -1.3 | ND WILLISTON | 52 | -4 | 0.3 | -1.0 | WY LANDER | 57 | -1 | 0.4 | -0.7 |
| KS TOPEKA | 63 | -4 | 7.0 | 3.2 | OH AKRON-CANTON | 61 | -3 | 4.0 | 0.6 | WY SHERIDAN | 55 | -2 | 0.6 | -0.8 |
| KS WICHITA | 67 | -3 | 1.8 | -2.1 | OH CINCINNATI | 64 | -4 | 2.7 | -0.2 | PR SAN JUAN | 83 | 0 | 4.4 | -0.9 |
| KY BOWLING GREEN | 68 | -1 | 3.6 | -0.1 | OH CLEVELAND | 62 | -2 | 5.9 | 2.5 | | | | | |
| KY JACKSON | 67 | -- | 6.6 | -- | OH COLUMBUS | 65 | 1 | 1.8 | -1.4 | | | | | |
| KY LEXINGTON | 66 | -2 | 3.0 | -0.2 | OH DAYTON | 63 | -3 | 4.7 | 2.2 | | | | | |
| KY LOUISVILLE | 68 | -2 | 3.9 | 0.8 | OH MANSFIELD | 61 | -3 | 5.5 | 2.1 | | | | | |
| KY PADUCAH | 67 | -3 | 6.0 | 2.5 | OH TOLEDO | 61 | -2 | 4.5 | 1.6 | | | | | |

Based on 1961-90 normals.

National Agricultural Summary

September 27 - October 3, 1993

HIGHLIGHTS: Rain fell over much of the eastern half of the Nation. Showers and thunderstorms were reported in the Great Lakes, Ohio Valley, the Florida peninsula, and parts of west central California. Elsewhere, dry weather prevailed with sunny skies. Freezing temperatures occurred late in the week in Michigan, Minnesota and Wisconsin ending the growing season. Where weather conditions permitted, farmers were busy planting and harvesting field crops, fruits, and vegetables.

SMALL GRAINS: Winter wheat planted in the 19 major wheat producing States reached 55 percent (%) complete, compared with 60% by this time in 1992 and 58% for the 5-year average. Plantings continued to make good progress in the central Great Plains. Growers in South Dakota and Kansas made good progress over the previous week when planting was delayed by excessive moisture. Fields in parts of Texas and the southeast received moisture needed to improve planting conditions. The spring wheat harvest reached 89% complete, compared with 97% by this time in 1992 and a 99% average. Slow crop development has caused harvest to fall behind average in all five major States. Harvest of barley, rye, and oats continued in the southern Great Plains and northwest, with progress behind average.

CORN: Corn harvest was complete on 11% of the Nation's acreage, compared with 10% last year and a 26% average. Progress has been ahead of normal over most parts of the southeast due to the past hot, dry summer. In the 17 major producing States, the crop has reached the maturity stage in 62% of the acreage, compared with 63% last year and a 83% average. Corn condition was rated fair to good.

SOYBEANS: Soybean harvest reached 7% complete, compared with 20% a year ago and a 27% average. Clear weather provided good harvest conditions in the lower Mississippi and Ohio Valleys. In the 19 major producing States, soybeans were dropping leaves on 67% of the acreage, compared with 78% last year and a 77% average. Some fields in Wisconsin had been affected by recent frost. Soybean condition was rated as fair to good.

COTTON: Cotton harvest in the 14 producing States reached 22% compared with 17% this time a year ago. Hot, dry summer conditions across the south and southeast caused the crop to mature faster than normal. Defoliation was active in the lower Mississippi Valley. Cotton bolls opening advanced to 82%, compared with 65% a year ago and a 71% average. The crop was rated in fair to excellent condition.

SORGHUM: Harvesting of grain sorghum continued to hold near last year's pace. In the 12 major producing States, 36% of the acreage had been harvested, compared with 37% last year and a 43% average. Harvesting progress continued ahead of average in Texas, Oklahoma, and New Mexico. Activity in Louisiana and Mississippi has been hampered by slower than normal crop development.

RICE: Progress of the rice harvest reached 60%, compared with 81% last year and a 69% average. Harvest progress lagged behind last year and the 5-year average in all five States. Rice was reported as being in good to excellent condition.

OTHER FIELD CROPS: Third and fourth cutting of hay was active in parts of the Nation where conditions permitted. Burley and dark-fired tobacco harvest was active in Kentucky and Tennessee. Flue-cured harvest was winding down in North Carolina. Crops in these areas were generally in good condition. Dryland peanut fields in Texas benefited from scattered showers. Potato harvest was active in Colorado, Idaho, Maine, Minnesota, and Wisconsin.

FRUITS AND NUTS: Florida's early orange, white, and colored grapefruit harvest was progressing slowly. In California, Valencia orange harvest was nearly complete. Harvesting of apples was active in Georgia, Michigan, North Carolina, and other States. Cool temperatures help provide good color to the fruit. Pecan harvest was active in the South and Southeast, as almonds and pistachios were harvested in the west.

VEGETABLES: Winter vegetable planting continued in California, Arizona, Texas, and Florida. Dry Beans were maturing ahead of normal in Michigan. Vegetables were harvested for roadside stands in areas along the Atlantic Coast.

PASTURE and LIVESTOCK: Pastures across the Nation were generally in good condition. There were reports of supplemental feeding in parts of the Southeast. Fertilizer application and no-till drilling of wheat and rye were reported to enhance grazing for the fall and winter. Livestock was generally in fair to good condition.

Crop Progress

for the Week Ending October 3, 1993

COTTON (Percent Bolls Opening)

| | Current | Last Wk | 1992 | Avg. |
|-----------|---------|---------|------|------|
| AL | 79 | 75 | 62 | 83 |
| AZ | 100 | 100 | 99 | 97 |
| AR | 79 | 72 | 75 | 80 |
| CA | 100 | 95 | 100 | 99 |
| GA | 88 | 86 | 69 | 77 |
| LA | 95 | 92 | 96 | 94 |
| MS | 93 | 91 | 95 | 93 |
| MO | 85 | 81 | 66 | 81 |
| NM | 88 | 69 | 74 | 77 |
| NC | 98 | 90 | 77 | 88 |
| OK | 72 | 60 | 29 | 53 |
| SC | 95 | 90 | 86 | 86 |
| TN | 99 | 91 | 83 | 86 |
| TX | 69 | 60 | 39 | 49 |
| 14 States | 82 | 75 | 65 | 71 |

These 14 States produced 99% of the 1992 cotton crop.

COTTON (Percent Harvested)

| | Current | Last Wk | 1992 | Avg. |
|-----------|---------|---------|------|------|
| AL | 16 | 6 | 7 | 29 |
| AZ | 28 | 21 | 27 | 16 |
| AR | 16 | 8 | 8 | 16 |
| CA | 5 | 1 | 30 | 10 |
| GA | 26 | 12 | 7 | 15 |
| LA | 39 | 15 | 30 | 38 |
| MS | 16 | 5 | 16 | 29 |
| MO | 17 | 0 | 2 | 18 |
| NM | 3 | 0 | 1 | 0 |
| NC | 15 | 9 | 2 | 7 |
| OK | 6 | 2 | 0 | 2 |
| SC | 23 | 12 | 5 | 14 |
| TN | 21 | 9 | 6 | 19 |
| TX | 31 | 27 | 22 | 20 |
| 14 States | 22 | 14 | 17 | 20 |

These 14 States produced 99% of the 1992 cotton crop.

SOYBEANS (Percent Dropping Leaves)

| | Current | Last Wk | 1992 | Avg. |
|-----------|---------|---------|------|------|
| AL | 43 | 30 | 42 | 44 |
| AR | 27 | 17 | 27 | 22 |
| GA | 58 | 37 | 55 | 53 |
| IL | 80 | 56 | 85 | 88 |
| IN | 91 | 70 | 87 | 82 |
| IA | 66 | 35 | 94 | 94 |
| KS | 75 | 55 | 80 | 80 |
| KY | 50 | 35 | 50 | 46 |
| LA | 65 | 56 | 60 | 47 |
| MI | 95 | 55 | 75 | 80 |
| MN | 52 | 22 | 95 | 98 |
| MS | 44 | 35 | 59 | 49 |
| MO | 55 | 37 | 74 | 67 |
| NE | 97 | 51 | 89 | 93 |
| NC | 25 | 19 | 31 | 27 |
| OH | 99 | 90 | 90 | 83 |
| SC | 10 | 4 | 13 | 15 |
| SD | 70 | 40 | 88 | 97 |
| TN | 47 | 34 | 43 | 46 |
| 19 States | 67 | 45 | 78 | 77 |

These 19 States produced 95% of the 1992 soybean crop.

SOYBEANS (Percent Harvested)

| | Current | Last Wk | 1992 | Avg. |
|-----------|---------|---------|------|------|
| AL | 7 | 2 | 2 | 8 |
| AR | 5 | 3 | 8 | 4 |
| GA | 4 | 0 | 2 | 3 |
| IL | 7 | 2 | 36 | 41 |
| IN | 10 | 2 | 26 | 26 |
| IA | 8 | 1 | 21 | 37 |
| KS | 5 | 1 | 25 | 25 |
| KY | 4 | 2 | 8 | 4 |
| LA | 27 | 15 | 21 | 17 |
| MI | 2 | 0 | 3 | 10 |
| MN | 3 | 1 | 17 | 42 |
| MS | 9 | 4 | 13 | 10 |
| MO | 3 | 0 | 14 | 12 |
| NE | 15 | 0 | 29 | 37 |
| NC | 0 | 0 | 0 | 0 |
| OH | 15 | 8 | 15 | 19 |
| SC | 1 | 0 | 0 | 0 |
| SD | 3 | 0 | 12 | 42 |
| TN | 3 | 1 | 2 | 3 |
| 19 States | 7 | 2 | 20 | 27 |

These 19 States produced 95% of the 1992 soybean crop.

WINTER WHEAT (Percent Planted)

| | Current | Last Wk | 1992 | Avg. |
|-----------|---------|---------|------|------|
| AR | 7 | 3 | 6 | 4 |
| CA | 2 | 1 | 0 | 0 |
| CO | 89 | 73 | 96 | 86 |
| GA | 5 | 1 | 4 | 4 |
| ID | 41 | 24 | 76 | 60 |
| IL | 5 | 1 | 12 | 17 |
| IN | 10 | 5 | 20 | 25 |
| KS | 55 | 30 | 65 | 65 |
| MI | 30 | 20 | 40 | 50 |
| MO | 7 | 6 | 12 | 18 |
| MT | 43 | 20 | 79 | 82 |
| NE | 90 | 70 | 95 | 90 |
| NC | 12 | 10 | 12 | 11 |
| OH | 12 | 4 | 13 | 22 |
| OK | 69 | 51 | 59 | 55 |
| OR | 63 | 51 | 36 | 35 |
| SD | 93 | 80 | 93 | 89 |
| TX | 55 | 43 | 63 | 58 |
| WA | 79 | 69 | 84 | 74 |
| 19 States | 55 | 38 | 60 | 58 |

These 19 States produced 90% of the 1992 winter wheat crop.

CORN (Percent Dent)

| | Current | Last Wk | 1992 | Avg. |
|-----------|---------|---------|------|------|
| CO | 93 | 86 | 89 | 94 |
| GA | 100 | 100 | 100 | 100 |
| IL | 99 | 96 | 98 | 99 |
| IN | 100 | 99 | 100 | 100 |
| IA | 85 | 78 | 99 | 100 |
| KS | 100 | 96 | 98 | 100 |
| KY | 100 | 99 | 99 | 99 |
| MI | 100 | 100 | 85 | 95 |
| MN | 85 | 61 | 99 | 99 |
| MO | 98 | 93 | 100 | 100 |
| NE | 98 | 95 | 98 | 100 |
| NC | 100 | 100 | 100 | 100 |
| OH | 100 | 97 | 100 | 98 |
| PA | 87 | 76 | 69 | 77 |
| SD | 82 | 62 | 89 | 100 |
| TX | 100 | 100 | 100 | 100 |
| WI | 72 | 68 | 74 | 91 |
| 17 States | 92 | 86 | 96 | 98 |

These 17 States produced 94% of the 1992 corn crop.

CORN (Percent Mature)

| | Current | Last Wk | 1992 | Avg. |
|-----------|---------|---------|------|------|
| CO | 48 | 23 | 50 | 67 |
| GA | 100 | 100 | 100 | 100 |
| IL | 82 | 54 | 68 | 89 |
| IN | 84 | 56 | 66 | 78 |
| IA | 50 | 34 | 83 | 96 |
| KS | 90 | 75 | 90 | 96 |
| KY | 90 | 86 | 80 | 81 |
| MI | 35 | 25 | 15 | 50 |
| MN | 15 | 6 | 40 | 82 |
| MO | 90 | 58 | 87 | 95 |
| NE | 79 | 34 | 73 | 91 |
| NC | 100 | 97 | 99 | 99 |
| OH | 70 | 45 | 42 | 52 |
| PA | 35 | 16 | 20 | 31 |
| SD | 36 | 20 | 46 | 86 |
| TX | 93 | 89 | 90 | 97 |
| WI | 33 | 16 | 25 | 67 |
| 17 States | 62 | 40 | 63 | 83 |

These 17 States produced 94% of the 1992 corn crop.

CORN (Percent Harvested)

| | Current | Last Wk | 1992 | Avg. |
|-----------|---------|---------|------|------|
| CO | 4 | 0 | 4 | 6 |
| GA | 92 | 90 | 85 | 91 |
| IL | 8 | 2 | 7 | 32 |
| IN | 7 | 3 | 4 | 20 |
| IA | 5 | 3 | 6 | 24 |
| KS | 35 | 25 | 40 | 55 |
| KY | 41 | 30 | 34 | 37 |
| MI | 2 | 1 | 2 | 5 |
| MN | 1 | 0 | 0 | 16 |
| MO | 19 | 15 | 27 | 46 |
| NE | 4 | 1 | 5 | 23 |
| NC | 74 | 64 | 55 | 69 |
| OH | 9 | 5 | 4 | 10 |
| PA | 3 | 1 | 2 | 6 |
| SD | 1 | 0 | 3 | 22 |
| TX | 82 | 78 | 78 | 83 |
| WI | 3 | 2 | 1 | 10 |
| 17 States | 11 | 7 | 10 | 26 |

These 17 States produced 94 of the 1992 corn crop.

SORGHUM
(Percent Coloring)

| | Current | Last Wk | 1992 | Avg. |
|-----------|---------|---------|------|------|
| AR | 100 | 100 | 100 | 99 |
| CO | 82 | 56 | 78 | 86 |
| IL | 93 | 90 | 92 | 95 |
| KS | 95 | 90 | 80 | 95 |
| LA | 100 | 100 | 100 | 100 |
| MS | 100 | 99 | 100 | 100 |
| MO | 93 | 86 | 96 | 96 |
| NE | 90 | 85 | 93 | 98 |
| NM | 89 | 76 | 94 | 96 |
| OK | 91 | 86 | 99 | 100 |
| SD | 85 | 72 | 77 | 95 |
| TX | 97 | 95 | 92 | 96 |
| 12 States | 94 | 90 | 89 | 96 |

These 12 States produced 99% of the 1992 grain sorghum crop.

SORGHUM
(Percent Mature)

| | Current | Last Wk | 1992 | Avg. |
|-----------|---------|---------|------|------|
| AR | 96 | 87 | 97 | 93 |
| CO | 41 | 23 | 32 | 46 |
| IL | 65 | 43 | 69 | 74 |
| KS | 50 | 30 | 30 | 60 |
| LA | 98 | 93 | 100 | 98 |
| MS | 97 | 93 | 100 | 95 |
| MO | 62 | 54 | 75 | 75 |
| NE | 47 | 20 | 36 | 81 |
| NM | 27 | 13 | 19 | 18 |
| OK | 34 | 27 | 29 | 50 |
| SD | 36 | 18 | 42 | 84 |
| TX | 86 | 82 | 80 | 83 |
| 12 States | 65 | 52 | 57 | 74 |

These 12 States produced 99% of the 1992 grain sorghum crop.

SORGHUM
(Percent Harvested)

| | Current | Last Wk | 1992 | Avg. |
|-----------|---------|---------|------|------|
| AR | 71 | 52 | 85 | 74 |
| CO | 8 | 0 | 2 | 10 |
| IL | 2 | 1 | 11 | 22 |
| KS | 5 | 3 | 5 | 20 |
| LA | 90 | 78 | 95 | 91 |
| MS | 79 | 65 | 91 | 80 |
| MO | 24 | 18 | 31 | 34 |
| NE | 1 | 0 | 5 | 26 |
| NM | 9 | 1 | 7 | 5 |
| OK | 15 | 11 | 11 | 8 |
| SD | 2 | 0 | 0 | 33 |
| TX | 73 | 72 | 72 | 68 |
| 12 States | 36 | 33 | 37 | 43 |

These 12 States produced 99% of the 1992 grain sorghum crop.

SPRING WHEAT
(Percent Harvested)

| | Current | Last Wk | 1992 | Avg. |
|----------|---------|---------|------|------|
| ID | 89 | 72 | 100 | 100 |
| MN | 93 | 84 | 94 | 99 |
| MT | 64 | 38 | 93 | 99 |
| ND | 91 | 81 | 97 | 99 |
| SD | 100 | 99 | 100 | 100 |
| 5 States | 89 | 78 | 97 | 99 |

These 5 States produced 96% of the 1992 spring wheat crop.

RICE
(Percent Harvested)

| | Current | Last Wk | 1992 | Avg. |
|----------|---------|---------|------|------|
| AR | 52 | 36 | 79 | 62 |
| CA | 25 | 10 | 55 | 29 |
| LA | 93 | 84 | 94 | 93 |
| MS | 50 | 31 | 78 | 71 |
| TX | 84 | 79 | 99 | 100 |
| 5 States | 60 | 47 | 81 | 69 |

These 5 States produced 97% of the 1992 rice crop.

Crop Condition
(Percent)

for the Week Ending Oct. 3, 1993

RICE

| State | VP | P | F | G | EX |
|-----------|-----|-----|-----|-----|-----|
| AR | 0 | 0 | 44 | 56 | 0 |
| CA | 0 | 0 | 5 | 85 | 10 |
| LA | 0 | 0 | 75 | 25 | 0 |
| MS | 0 | 0 | 55 | 45 | 0 |
| TX | 0 | 0 | 35 | 65 | 0 |
| 5 State | 0 | 0 | 45 | 54 | 1 |
| Prev Week | 0 | 0 | 39 | 59 | 2 |
| Prev Year | N/A | N/A | N/A | N/A | N/A |

SORGHUM

| State | VP | P | F | G | EX |
|-----------|----|----|----|----|----|
| AR | 0 | 11 | 72 | 17 | 0 |
| CO | 1 | 5 | 30 | 53 | 11 |
| IL | 0 | 0 | 15 | 78 | 7 |
| KS | 0 | 1 | 30 | 52 | 17 |
| LA | 0 | 5 | 55 | 40 | 0 |
| MS | 0 | 0 | 63 | 37 | 0 |
| MO | 0 | 8 | 66 | 26 | 0 |
| NE | 0 | 8 | 40 | 51 | 1 |
| NM | 2 | 25 | 39 | 34 | 0 |
| OK | 0 | 2 | 21 | 76 | 1 |
| SD | 9 | 9 | 50 | 32 | 0 |
| TX | 0 | 3 | 32 | 59 | 6 |
| 12 State | 0 | 4 | 37 | 52 | 7 |
| Prev Week | 0 | 4 | 31 | 57 | 8 |
| Prev Year | 0 | 4 | 16 | 56 | 24 |

SOYBEANS

| State | VP | P | F | G | EX |
|-----------|----|----|----|----|----|
| AL | 0 | 18 | 57 | 22 | 3 |
| AR | 0 | 10 | 62 | 28 | 0 |
| GA | 21 | 35 | 33 | 11 | 0 |
| IL | 0 | 1 | 14 | 77 | 8 |
| IN | 0 | 0 | 16 | 70 | 14 |
| IA | 2 | 16 | 66 | 14 | 2 |
| KS | 0 | 0 | 23 | 68 | 9 |
| KY | 0 | 0 | 45 | 51 | 4 |
| LA | 0 | 21 | 67 | 12 | 0 |
| MI | 1 | 4 | 20 | 50 | 25 |
| MN | 15 | 40 | 38 | 7 | 0 |
| MS | 0 | 10 | 77 | 13 | 0 |
| MO | 4 | 9 | 55 | 32 | 0 |
| NE | 0 | 0 | 25 | 68 | 7 |
| NC | 0 | 16 | 59 | 25 | 0 |
| OH | 3 | 9 | 32 | 47 | 9 |
| SC | 12 | 33 | 39 | 16 | 0 |
| SD | 8 | 10 | 54 | 28 | 0 |
| TN | 0 | 9 | 46 | 43 | 2 |
| 19 State | 3 | 11 | 40 | 41 | 5 |
| Prev Week | 3 | 11 | 40 | 41 | 5 |
| Prev Year | 1 | 2 | 19 | 64 | 14 |

VP - Very Poor P - Poor F - Fair
G - Good EX - Excellent

CORN

| State | VP | P | F | G | EX |
|-----------|----|----|----|----|----|
| CO | 3 | 11 | 25 | 50 | 11 |
| GA | 18 | 16 | 51 | 15 | 0 |
| IL | 0 | 1 | 14 | 74 | 11 |
| IN | 0 | 0 | 21 | 72 | 7 |
| IA | 1 | 21 | 66 | 11 | 1 |
| KS | 0 | 0 | 28 | 62 | 10 |
| KY | 0 | 0 | 62 | 38 | 0 |
| MI | 1 | 4 | 20 | 50 | 25 |
| MN | 18 | 45 | 31 | 6 | 0 |
| MO | 2 | 18 | 61 | 18 | 1 |
| NE | 0 | 5 | 23 | 67 | 5 |
| NC | 12 | 27 | 48 | 13 | 0 |
| OH | 3 | 12 | 35 | 43 | 7 |
| PA | 3 | 10 | 32 | 43 | 12 |
| SD | 5 | 11 | 47 | 35 | 2 |
| TX | 0 | 6 | 16 | 73 | 5 |
| WI | 0 | 6 | 44 | 49 | 1 |
| 17 State | 3 | 12 | 36 | 44 | 5 |
| Prev Week | 3 | 13 | 35 | 43 | 6 |
| Prev Year | 2 | 3 | 16 | 61 | 18 |

COTTON

| State | VP | P | F | G | EX |
|-----------|----|----|----|----|----|
| AL | 0 | 18 | 68 | 14 | 0 |
| AZ | 0 | 0 | 15 | 75 | 10 |
| AR | 0 | 0 | 62 | 38 | 0 |
| CA | 0 | 0 | 0 | 85 | 15 |
| GA | 3 | 23 | 61 | 13 | 0 |
| LA | 0 | 0 | 64 | 36 | 0 |
| MS | 0 | 36 | 54 | 10 | 0 |
| MO | 0 | 8 | 83 | 9 | 0 |
| NM | 0 | 0 | 20 | 78 | 2 |
| NC | 0 | 17 | 62 | 21 | 0 |
| OK | 0 | 0 | 52 | 39 | 9 |
| SC | 4 | 64 | 31 | 1 | 0 |
| TN | 0 | 32 | 50 | 18 | 0 |
| TX | 0 | 7 | 31 | 58 | 4 |
| 14 State | 0 | 11 | 41 | 44 | 4 |
| Prev Week | 0 | 9 | 41 | 46 | 4 |
| Prev Year | 1 | 6 | 49 | 44 | 4 |

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall none to 0.07 in. north; none to 0.10 in. central; none to 0.08 in. south. Temperatures 4 to 10° below normal north; 4 to 9° below normal central; 3 to 8° below normal south. Lows 35 to 47° north; 39 to 50° central; 42 to 53° south. Highs 80 to 85° north; 82 to 88° central; 85 to 89° south.

Days suitable for fieldwork 6.1. Soil moisture 58% short, 42% adequate. Corn harvested 77%, 76% 1992, 82% avg. Sorghum harvested 41%, 43% 1992, 60% avg.; 10% poor, 52% fair, 38% good. Peanuts dug 50%, 65% 1992, 73% avg.; combined 45%, 52% 1992, 61% avg.; 42% poor, 58% fair. Wheat seeded 14%, 19% 1992, 18% avg. Pasture 2% very poor, 14% poor, 43% fair, 41% good. Primary activities: Defoliating cotton, harvesting vegetables, sorghum, cotton, corn, land preparation for seeding small grains, general care of livestock, poultry, catfish.

ALASKA: Wind, rain, snow and sunny skies all played a part in the State's weather picture last week.

Days suitable for potato harvest 2, 1 day for hay/grain harvest. Second crop hay harvest was nearly 60% complete, versus 70% 1992. Barley 100% harvested, compared to 85% complete last year. Commercial potato harvest was 80% complete, 5% ahead of 1992. Topsoil, subsoil moisture supplies were rated 100% adequate.

ARIZONA: Sunny, hot statewide with occasional scattered clouds, 26th to 2nd. Showers southeast 30th to 2nd. Temperatures 2° below to 7° above normal. Extremes 30°; 91°, higher elevations; 44°; 108° deserts.

Cotton harvest continued active; 100% bolls open, 99% 1992, 97% avg. 28% harvested, 27% 1992, 16% avg. Weeds light to moderate, insects moderate. Defoliation active all areas. Alfalfa good. Harvest moderate eastern, south central, active in central, western producing areas. Weeds light to moderate, insects moderate; disease light. Rain damage light all areas. Western area lemon harvest continues. Central areas, cantaloupe, watermelons, honeydews, sweet corn, green onions harvested. Apples, sweet corn, chilies, lettuce, squash, watermelons harvested eastern production areas. Cattle, calves fair to good north, mostly good central, good southeast. Soil moisture short, north; short to adequate, central, southeast. Stockwater short to adequate, north; adequate, central; adequate southeast. Range, feed supplies below average north; average central; average southeast. Insect damage light, central, southeast; mostly light, north.

ARKANSAS: Cool week, temperatures averaging little below normal. Scattered showers occurred latter part of week. Extremes 39°; 90°. Rainfall 0.04 to 2.73 in.

Days suitable for fieldwork 6. Moderate rate of crop growth. Soil moisture 26% short, 62% adequate, 12% surplus. Rice, sorghum harvests continued. Early planted soybeans continued to be harvested. Cotton fields defoliated. Fruit, vegetable crops good condition. Sunflowers fair. Corn harvest 89%, 88% 1992, 91% avg. Corn 17% poor, 62% fair, 21% good. Producers continued to apply fertilizer to pastures. Armyworm larvae infestation in pastures. Producers continued to apply fertilizer pastures. Planting cool season forages continued. Livestock good condition, external parasites reported.

CALIFORNIA: Temperatures were above normal at nearly every location. Drizzle along coast brought only trace amounts of precipitation.

Hot, dry weather prevailed. Ground preparation fall small grains active. Winter wheat planting underway. Dryland producers waiting fall rains. Rice harvest progressed. Cotton defoliation continued. Harvest active desert areas, beginning other areas. Average yields, fair to good quality. Safflower harvest wound down, finished most areas. Sunflower harvest progressed. Corn harvest grain, silage

winding down. Alfalfa hay harvest progressed, good yields, quality. Sugar beet harvest normal pace. Seeding 1994 crop progressed. Dry bean harvest increased. Growers continued to harvest table, juice, wine grapes. Raisins dried, rolled, picked up, boxed. Almond, walnut, pistachio, olive, persimmon, apple, fall strawberry, pomegranate harvests active. Late varieties of peaches, plums were picked, packed. Valencia orange, lemon harvests continued; preparations made for Navel orange harvest. Broccoli shipments fairly heavy, good quality Salinas. Planting broccoli Coachella Valley. Carrot packing continued Fresno area. Cauliflower movement Salinas fairly heavy, variable quality. Celery harvest moderate Salinas-Watsonville, Santa Maria good quality. Sweet Corn being harvested central valley. Head lettuce volume central coast remained moderate, variable quality. Lettuce planting Coachella Valley. Fall potato harvest Tulalake full swing. Winter potatoes Kern County planted. Sweet potatoes harvested central valley. Melon harvest declining. Processing tomato harvest continued San Joaquin Valley, expected to end few weeks. Fresh market tomatoes treated worms central valley. Other crops harvested: peppers, cucumbers, cabbage, snap beans, squash. Rangeland very dry, not providing much feed. Supplementing with hay evident. Irrigated pastures remain good condition. Fall calving underway. Sheep grazing crop residue.

COLORADO: Very little moisture. Weak fronts moved through the area on the 28th, few clouds, no moisture accompanied it. Another weak front produced windy conditions on the 1st to 2nd in several locations, again no significant rain or snow. Warming temperatures, dry conditions prevailed statewide over the weekend. Temperatures were within a couple of degrees of normal in most locations.

Days suitable for fieldwork 6.5. Soil moisture 6% very short, 39% short, 54% adequate, 1% surplus. Alfalfa 3rd cutting 70%, 74% 1992, 73% avg. Alfalfa 4th cutting 15%, 16% 1992, 21% avg. Oats harvested 97%, 96% 1992, 95% avg. Winter wheat seeded 89%, 96% 1992, 86% avg.; emerged 63%, 70% 1992, 54% avg. Dry beans cut 78%, 84% 1992, 87% avg.; harvested 65%, 69% 1992, 67% avg. Corn mature 48%, 50% 1992, 67% avg.; harvested 4%, 4% 1992, 6% avg. Corn silage harvested 80%, 86% 1992, 84% avg. Sorghum turning color 82%, 78% 1992, 86% avg.; mature 41%, 32% 1992, 46% avg.; harvested 8%, 2% 1992, 10% avg. Summer potatoes harvested 84%, 95% 1992, 78% avg. Dry onions harvested 77%, 81% 1992, 76% avg. Fall potatoes harvested 72%, 75% 1992, 54% avg. Sugarbeets harvested 9%, 5% 1992, 5% avg. Corn 3% very poor, 11% poor, 25% fair, 50% good, 11% excellent. Sugarbeets 12% fair, 67% good, 21% excellent. Winter wheat 4% poor, 25% fair, 51% good, 20% excellent. Livestock mostly good to excellent. Pasture, range feed mostly good.

FLORIDA: Temperatures 4 to 8° below normal, north, 1 to 3° below central, near normal south. Lows; low 40s north, low 50s northeast, upper 50s to mid 60s central, mid 60s to 70s south. Highs; upper 80s to low 90s. Showers limited to east central, south, totals 1.00 to 3.00 in. north and central, 0.25 in.

Soil moisture short to adequate scattered areas surplus moisture. Peanut harvesting active. Cotton harvest gaining momentum. Making preparations for small grain planting, sugarcane harvest. Haymaking active where plant growth adequate. Tobacco marketing activity starting to wind down. Sugarcane planting gaining momentum. Soybeans continue make good progress. Citrus very good condition, moisture adequate. Rain would be helpful, abundant new growth. Light splitting on early oranges on wet soils. Early orange, white, colored grapefruit harvest slowly progressing, caretakers cutting cover crops, fertilizing, spraying. Cooler than normal, dry north, central vegetable production areas which helped growers get on planting schedule. South, southeast coast wet, above normal temperatures. Statewide, crops in fair to good condition. Light cutting yellow squash, eggplant, East Coast. Snap bean harvest underway north. Harvesting;

sweet corn, peppers, tomatoes, cucumbers north, radishes, central, cherry tomatoes, Plant City area. Pasture feed 40% fair, 45% good, 15% excellent. Cattle herds fair to excellent.

GEORGIA: Cool week. Temperatures 4 to 7° below normal, up to 10° below normal some spots. Extreme highs middle to upper 70s northeast to upper 80s south. Coolest lows near freezing northeast to low to middle 40s elsewhere except middle 50s near coast. Rain limited only few stations reporting rain one day. Rainfall under 0.25 in., local isolated spots near 1.00 in.

Days suitable for fieldwork 6.5. Soil moisture 46% very short, 37% short, 17% adequate. Corn harvest slows. Cotton harvest rapid. Sorghum 3% very poor, 22% poor, 66% fair, 9% good; 62% harvested for grain, 52% 1992, 56% avg. Peanuts 3% very poor, 44% poor, 48% fair, 5% good; 65% dug, 67% 1992, 71% avg.; 44% threshed, 50% 1992, 55% avg. Soybean harvest off to fast start. Wheat 60% fair, 40% good; 1% emerged, 2% 1992, 1% avg.; planting normal progress despite dry soils. Rye 17% planted, 20% 1992, 16% avg. Other small grains 1% very poor, 14% poor, 68% fair, 17% good; 11% planted, 12% 1992, 9% avg. Vegetables 1% very poor, 25% poor, 46% fair, 25% good, 3% excellent. Apples 30% fair, 69% good, 1% excellent; 65% harvested, 74% 1992, 74% avg. Pecans 6% fair, 93% good, 1% excellent; 0% harvested, 3% 1992, 2% avg. Hay 27% very poor, 41% poor, 28% fair, 4% good. Pasture 18% very poor, 26% poor, 46% fair, 9% good, 1% excellent; Supplemental feeding continues. Cattle fair to good. Hogs good.

HAWAII: Light, variable winds, weak tropical disturbance created hot, muggy weather. Southerly winds allowed volcanic haze to linger over islands chain. In Honolulu, record high 93° 29th. Thundershower band passed through State over weekend bringing heavy rain to parts Hawaii Island, Kauai. No major damage. Temperatures varied high 60s to low 90s. Rainfall none to 7.60 in.

Hot, muggy weather unfavorable for some crops. Growers stepped up irrigation, pest control efforts to maintain crop progress. Banana output moderate to heavy, papaya production near last weeks level. Watermelon harvesting near seasonal end.

IDAHO: Temperatures 1 to 8° above normal. High, Hagerman 92°. Low, Aberdeen 28°. No precipitation.

Days suitable for fieldwork 7. Soil moisture 1% very short, 24% short, 75% adequate. Winter wheat harvested 98%, 100% 1992, 100% avg. Oats harvested 88%, 100% 1992, 100% avg. Potatoes turning or turned 58%, harvested 42%; 1% very poor, 5% poor, 23% fair, 63% good, 8% excellent. Alfalfa second cutting 99%, 100% 1992, 100% avg. Alfalfa third cutting 63%, 94% 1992, 88% avg. Dry peas harvested 98%, 100% 1992, 100% avg. Lentils harvested 90%, 100% 1992, 100% avg. Peach harvest complete. Apples harvested 31%, 69% 1992, 37% avg. Hops harvested 99%, 100% 1992, 97% avg. Onions harvested 63%, 95% 1992, 77% avg. Dry beans harvested 70%, 83% 1992, 88% avg. Field corn silage harvested 46%, 87% 1992, 71% avg. Field corn grain harvested 3%, 17% 1992, 8% avg. Sugarbeets harvested 13%, 19% 1992, 16% avg. Irrigation water supplies 1% poor, 13% fair, 75% good, 11% excellent. Activities: Harvesting hay, potatoes, beans, apples, corn silage, lentils, sugarbeets. Planting winter wheat, burning bluegrass seed fields. Pasture, range feed 96% of normal. Livestock good.

ILLINOIS: Sweeping Canadian air brought cooler than normal weather last week, as frost, freezing temperatures across the State. Highs lower 60s to upper 60s. Lows upper 30s to 40s. Extremes upper 20s. Precipitation 0.10 in. to over 0.50 in. north, 0.10 to 2.00 in. south.

Days suitable for fieldwork 3.5. Crops made significant development last week, while harvest progressed little due to soil moisture. Soil moisture 31% adequate, 69% surplus. Soybeans turning yellow 93%, 97% 1992, 97% avg. Alfalfa cut third crop 90%, 97% 1992, 99% avg. Farm activities included: Chopping corn silage, hauling grain, picking seed corn, shelling corn, seeding wheat, tending livestock. Pasture feed 95% of normal.

INDIANA: High temperatures upper 50s to lower 60s north, 60s south. These readings 7 to 10° below normal. Lows averaged mostly mid 30s to lower 40s across State. Low readings were mostly 5 to 11° below normal. Rainfall 0.10 to 0.70 in. over State.

Days suitable for fieldwork 4. Dry weather jump started harvesting again. Pastures feed 90% of normal, 89% last week. Topsoil 2% short, 66% adequate, 32% surplus. Subsoil 2% short, 82% adequate, 16% surplus. Wheat acreage tilled 34%, 44% 1992, 56% avg. Moisture content of harvested corn 27%, soybeans 16%.

IOWA: Temperatures 5 to 7° below normal. Extremes 27°; 81°. Scattered light frost statewide, 29th; hard freeze north, 2nd. Precipitation generally only in sprinkles, maximum 0.02 in. northeast.

Days suitable for fieldwork 4.7. Topsoil 50% adequate, 50% surplus. Subsoil 17% adequate, 83% surplus. Corn in dough stage 96%, 100% 1992, 100% normal. Soybeans with leaves turning color 90%, 100% 1992, 100% normal. Third crop alfalfa hay harvested 84%, 91% 1992, 98% normal. Second crop clover hay harvested 90%, 100% 1992, 100% normal. Winter Wheat seeded 25%, 41% 1992, 53% normal. Pasture feed 1% very poor, 4% poor, 41% fair, 46% good, 8% excellent. Livestock mostly good. Some cattlemen are weaning their calves early to help save winter hay supplies as there have already been reports of supplemental feeding of cattle on pasture. Drier weather last week allowed the feedlots to firm up. Fields in some areas of the State are still very wet making them soft, spongy. Flooding continues to be a problem along some rivers, creeks.

KANSAS: Temperatures normal to 7° below normal. Very heavy precipitation southeast, greatest amount Pittsburg 15.40 in. Light amounts elsewhere ranging 0.03 in. northwest, 0.60 in. east central.

Days suitable for fieldwork 4.5. Topsoil 15% short to very short, 73% adequate, 12% surplus. Subsurface 3% short to very short, 82% adequate, 15% surplus. Clear skies, warm temperatures provided good planting weather for wheat producers. Planting slowed by excess moisture east, progressed swiftly west, central. Several areas west central re-planting because of heavy rains two weeks ago. Wheat emerged 20%, 20% 1992, 15% avg. Virtually all corn acreage in dent stage. Stalk rot, lodging continue to damage corn. Sorghum harvest hasn't started northwest, north central, underway elsewhere. Soybean harvest underway all areas.

KENTUCKY: High temperatures upper 70s to lower 80s with nighttime lows low to mid 30s. Temperatures upper 50s, 3 to 4° below normal. Most areas received rainfall the beginning. weekend. Rainfall 0.25 to 0.75 in. with highest 1.00 in.

Days suitable fieldwork 4.9. Soil moisture 2% very short 36% short, 60% adequate, 2% surplus. Corn crop continues to mature rapidly, dried down very well. Yields variable. Soybeans generally escaped light frost some areas. Leaves still green 20% crop. Burley 4% stripped, another 16% ready for stripping. Minimal houseburn. Condition housed tobacco 14% fair, 81% good, 5% excellent. Fall wheat seeding active, generally for cover crop. Pasture feed good.

LOUISIANA: Temperatures 2.7 to 0.5° below normal. Extremes 43°; 93°. Rainfall 0.09 in. southeast areas to 2.15 in. northwest.

Days suitable for fieldwork 6.1. Soil moisture 8% very short, 43% short, 47% adequate, 2% surplus. Corn 100% harvested, 100% 1992, 100% avg. Hay 90% final cutting, 92% 1992, 86% avg. Harvest winding down. Rice 98% ripe, 98% 1992, 99% avg. Second crop rice management active in the south; harvest was active in the north. Soybeans 89% turning color, 86% 1992, 73% avg. Harvest active, spraying of late beans for insects continued. Sweet potatoes 11% poor, 69% fair, 20% good; 54% harvested, 51% 1992, 61% avg. Sugarcane 2% poor, 25% fair, 73% good; 93% planted, 57% 1992, 78% avg. Planting moved along swiftly, harvest began in some parishes on 30th. Livestock 2% poor, 41% fair, 55% good, 2% excellent. Pastures 27% very poor, 2% poor, 21% fair, 50% good. Vegetables 19% poor, 53% fair, 28% good.

MARYLAND & DELAWARE: MARYLAND: Precipitation 1.39 in., normal 0.73 in. Temperature 59.8°, normal 62.2°. Extremes 26°; 88°.

Days suitable for fieldwork 5.1. Topsoil 5% short, 84% adequate, 11% surplus. Subsoil 37% short, 63% adequate. Wheat 8% seeded, 1% 1992, 4% avg. Barley 26% seeded, 11% 1992, 27% avg. Rye 20% seeded, 7% 1992, 26% avg. Oats 33% seeded, 6% 1992, 5% avg. Corn poor to mostly fair; 91% mature, 73% 1992, 81% avg.; 48% grain harvested, 14% 1992, 36% avg.; 88% silage harvested, 58% 1992, 82% avg. Soybean poor to mostly fair; 76% turned, 63% 1992, 66% avg.; 44% shedding leaves, 38% 1992, 40% avg. Sorghum fair to good; 79% turned, 100% 1992, n/a avg.; 48% mature, 83% 1992, n/a avg. Tobacco 94% cut, 99% 1992, 98% avg. Pasture feed good; hay supplies adequate. Alfalfa hay 82% fourth cut, 71% 1992, 66% avg. Other hay 74% third cut, 75% 1992, 63% avg.; 50% fourth cut, 27% 1992, 21% avg. Apples 64% harvested, 50% 1992, 63% avg.

DELAWARE: Precipitation 1.04 in., normal 0.76 in. Temperature 61.7°, normal 62.8°. Extremes 36°; 86°.

Days suitable for fieldwork 6.5. Topsoil 50% short, 50% adequate. Subsoil 100% short. Barley 41% seeded, 4% 1992, 16% avg. Corn poor; 93% mature, 85% 1992, 92% avg.; 51% grain harvested, 15% 1992, 49% avg.; 99% silage harvested, 92% 1992, 94% avg. Soybeans poor to fair; 64% turned, 66% 1992, 60% avg.; 41% shedding leaves, 39% 1992, 28% avg. Sorghum poor to mostly fair; 73% turned, 77% 1992, n/a avg.; 31% mature, 27% 1992, n/a avg. Alfalfa hay 66% fourth cut, 79% 1992, 83% avg. Other hay 84% third cut, 85% 1992, 95% avg.; 0% fourth cut, 29% 1992, 19% avg. Pasture feed very poor; hay supplies short. Apples 70% harvested, 53% 1992, 60% avg.

MICHIGAN: Extremes 23°; 66°. Precipitation 0.23 to 1.50 in. across the State.

Days suitable for fieldwork 3.0. Soil moisture 35% adequate, 65% surplus. Dry beans 90% mature, 80% 1992, 80% avg.; 45% harvested, 45% 1992, 55% avg.; 2% very poor, 13% poor, 30% fair, 40% good, 15% excellent. Corn silage 40% harvested, 25% 1992, 60% avg. Potatoes 60% harvested, 60% 1992, 65% avg. Sugarbeets 6% harvested, 10% 1992, 5% avg. Hay 70% third cutting, 70% 1992, 80% avg.; 2% very poor, 8% poor, 20% fair, 50% good, 20% excellent. Pasture feed 90% of normal. Major activities: Hauling manure, repairing equipment, picking apples, limited dry bean harvesting, some fall tillage, wheat seeding.

MINNESOTA: Temperatures 7 to 10° below normal for State. Extremes 16°; 81°. Precipitation 0.31 to 0.65 in. below normal for the State. Precipitation none to 0.26 in. Greatest weekly precipitation was 0.34 in.

Days suitable for fieldwork 5.0. Topsoil 1% short, 60% adequate, 39% surplus. Rye 77% seeded, 83% 1992, 93% avg. Winter wheat 75% seeded, 94% 1992, 95% avg. Spring wheat 93% combined, 94% 1992, 99% avg. Sweet corn for processing 90% harvested, 89% 1992, 99% avg. Hay grain 55% stubble plowed or tilled, 50% 1992, 73% avg. Potatoes 59% harvested, 63% 1992, 68% avg. Flax 66% harvested, 29% 1992, 79% avg. Dry beans 58% harvested, 71% 1992, 85% avg. Sunflowers 4% harvested, 2% 1992, 30% avg. Sugarbeets 15% harvested, 21% 1992, 17% avg. Corn 85% dent, 99% 1992, 99% avg.; 15% mature, 40% 1992, 82% avg.; 1% combined, 0% 1992, 16% avg.; 27% silage cut, 37% 1992, 71% avg.; 30% moisture content, 32% 1992, 27% avg. Soybeans 87% yellowing, 99% 1992, 99% avg.; 52% shedding leaves, 95% 1992, 98% avg.; 15% mature, 60% 1992, 83% avg.; 3% combined, 17% 1992, 42% avg.; 15% moisture content 14% 1992, 13% avg. Corn 18% very poor, 45% poor, 31% fair, 6% good. Soybeans 15% very poor, 40% poor, 38% fair, 7% good.

MISSISSIPPI: Temperature 67°, 3.9° below normal. Extremes 39°; 92°. Lower delta region accumulated the most precipitation with over 1.00 in. Other regions received a minimal amount to almost 1.00 in. Rainfall 0.65 in., 0.17 below normal. Soil temperatures 73°.

Days suitable for fieldwork 6.0, 5.8 1992, 4.8 avg. Soil 3% very short, 36% short, 61% adequate. Corn 99% mature, 100% 1992, 98% avg.; 70% harvested, 72% 1992, 77% avg.; 96% silage harvested, 99% 1992, 99% avg.; 17% poor, 47% fair, 35% good, 1% excellent. Cotton 93% open bolls, 95% 1992, 93% avg.; 16% harvested, 16%

1992, 29% avg.; 36% poor, 54% fair, 10% good. Rice 89% mature, 100% 1992, 96% avg.; 50% harvested, 78% 1992, 71% avg.; 55% fair, 45% good. Sorghum 100% turning color, 100% 1992, 100% avg.; 97% mature, 100% 1992, 95% avg.; 79% harvested, 91% 1992, 80% avg.; 92% silage harvested, 100% 1992, 94% avg.; 63% fair, 37% good. Soybeans 75% coloring, 84% 1992, 76% avg.; 44% shedding, 59% 1992, 49% avg.; 9% harvested, 13% 1992, 10% avg.; 10% poor, 77% fair, 13% good. Sweet potatoes 60% harvested, 55% 1992, 60% avg.; 50% fair, 50% good. Wheat 8% planted, 13% 1992, 15% avg. Hay 97% harvested, 97% 1992, 93% avg. Livestock 18% fair, 73% good, 9% excellent. Pasture feed 83% of normal. Activities: Cotton defoliation, crop harvesting.

MISSOURI: Temperatures 3 to 7° below normal across State. Rainfall 0.45 in., varying from none northern half of State to over 1.00 in. south central, southeast.

Days suitable for fieldwork 2.9, ranging from 1.5 west-central, to 4.4 southeast. Topsoil 33% adequate, 67% surplus. Corn harvested by districts: 81% southeast, 26% or less other districts. Soybeans turning color 87%, 92% 1992, 87% avg.; mature 22%, 54%, 44% avg.; harvest beginning in all areas. Sorghum harvest ranges less 5% northern districts to 54% southeast. Pasture feed 2% poor, 17% fair, 68% good, 13% excellent.

MONTANA: Temperatures 1 to 5° above normal. No precipitation except for the central area which had a trace.

Days suitable for fieldwork 6.4. Topsoil 22% short, 73% adequate, 5% surplus. Subsoil 16% short, 78% adequate, 6% surplus. Winter wheat harvested 94% complete, 100% 1992, 100% avg. Barley harvested 73% complete, 96% 1992, 99% avg. Oats harvested 72% complete, 97% 1992, 99% avg. Corn silage harvested 76% complete, 90% 1992, 92% avg. Sugarbeets harvested 3% complete, 12% 1992, 17% avg. Dry beans harvested 55% complete, 96% 1992, 92% avg. Potatoes harvested 27% complete, 50% 1992, 59% avg. Second cutting alfalfa hay 88% complete, 99% 1992, 99% average. Other hay 90% complete, 100% 1992, 100% avg. Pasture, range feed condition at 101% of normal, down 4 points from last week. Cattle, calves moved from summer ranged 16%, sheep, lambs moved 17%.

NEBRASKA: Temperatures 3° below normal east central to 2° above normal north central. Trace of precipitation across the State.

Days suitable for fieldwork 6.0. Topsoil 5% short, 91% adequate, 4% surplus. Subsoil 1% short, 92% adequate, 7% surplus. Alfalfa 18% fair, 76% good, 6% excellent; 41% fourth cutting harvested. Dry beans 9% very poor, 27% poor, 27% fair, 32% good, 5% excellent; 70% harvested. Pasture, range feed 101% of normal.

NEVADA: No precipitation reported statewide. Temperatures above normal, some near record highs recorded. Extremes 16°; 101°.

Irrigation water supplies 20% very short, 35% short, 45% adequate. Potato digging 50% complete, 55% 1992, 55% avg. Onion harvest 65% complete, 75% 1992, 75% avg. Third cutting alfalfa hay 85% complete, 80% 1992, 80% avg. Extreme south completing 5th, 6th cutting. Alfalfa seed harvest 95% complete, 90% 1992, 90% avg. Garlic, winter grain planting active. Pasture, range feed good most areas. Livestock movement to winter pastures continues.

NEW ENGLAND: Precipitation 1.02 to 2.64 in. north; 0.41 to 3.68 in. south. Temperatures 46 to 54° north; 48 to 59° south. Maximum temperatures 62 to 73° north; 66 to 76° south. Minimum temperatures 22 to 32° north; 25 to 40° south.

Days suitable for fieldwork 5. Soil moisture 16% short, 55% adequate, 29% surplus. Available grazing 3% very short, 28% short, 66% adequate, 3% surplus. Fieldwork progress 2 days behind schedule. Pasture feed 72% of normal. Maine potato harvest 60%, 80% 1992, 70% avg. Connecticut, Massachusetts potatoes 85% harvested, 80% 1992, 70% avg. Rhode Island potatoes 90% harvested, 70% 1992, 80% avg. Potato good to fair regionwide. Maine oat fair; harvested 90%, 80% 1992, 95% avg. Field corn good to fair; 40% harvested, 40% 1992, 50% avg. Second cutting hay 90% harvested, 90% 1992, 100% avg.; good. Third cutting hay 65% harvested, 70%

1992, 75% avg.; good to fair. Sweet corn harvested 95%, 100% 1992, 100% avg.; fair. Apples 55% harvested, size medium, color good to fair, condition good. Peaches 100% harvested, size medium, condition good. Pears 80% harvested, size medium, condition good. Raspberries 95% harvested, size medium, condition good. Cranberries 30% harvested, size small to medium, condition fair to good. Major farm activities: Chopping corn. Seeding cover crops. Picking fall vegetables, squash, pumpkins for roadside stands. Picking apples.

NEW JERSEY: Temperatures averaged much above normal. Extremes 29°; 82°. Rainfall 2.17 in. north, 1.11 in. central, 0.47 in. south. Heaviest 24 hour total 2.68 in. on 27th, 28th. Estimated soil moisture, in percent field capacity, averaged 99% north, 97% central, 75% south. Four inch soil temperatures averaged 56° north; 59° central, 59° south.

Soil moisture content is adequate to surplus for the State. Harvest of fall greens, cabbage, peppers are active. Harvest of sweet potatoes is active, heat has hurt the crop in some areas. Tomatoes harvest is almost complete. Apple harvest still active. Cranberry harvest active with limited damage reported. Some planting of cover crop small grains, harvesting of early planted corn, soybeans are underway. Pasture conditions are average, amount of feed requirements pastures are supplying is also average.

NEW MEXICO: Dry over nearly the entire State. Southeastern corner of the State was the only area to receive measurable rain. Temperatures averaged about 2° above normal in the north, very close to normal in the south. Extremes 22° northwest; 96° southeast.

Days suitable for fieldwork 6.8. Soil moisture 68% short, 32% adequate. Light freeze damage in isolated areas. Crop conditions: Alfalfa 21% fair, 78% good, 1% excellent; most on last cutting, if not already finished. Corn 10% poor, 36% fair, 54% good; silage harvest near complete; grain harvest starting. Irrigated wheat 56% fair, 44% good. Dryland wheat 73% poor, 17% fair, 10% good. Wheat crop 90% planted. Fall lettuce mostly good, harvest started. Chile 18% fair, 73% good, 9% excellent; green harvest slowing. Apples 17% poor, 33% fair, 50% good; harvest continues. Pecans mostly good. Cattle, sheep mostly good. Range feed 71% of normal.

NEW YORK: Cool, wet week. Precipitation recorded each day, mostly rain, snow in higher elevations. Rainfall above average all areas, greatest in Great Lakes Division, 200% of normal recorded here. Heaviest rain was 2.73 in. at Buffalo. Killing frost northern third of State on 30th, most of State on 1st. Only unaffected region was Coastal Division. Temperatures averaged below normal, from 1° in Coastal Division to 8° elsewhere. Extremes 23°; 80°.

Days suitable for fieldwork 5.1. Soil moisture adequate except short in southeast. Pastures feed 84% of normal. Wet soils slowed harvesting progress. Frost most areas during week. Corn silage 35% harvested, 16% 1992, 39% avg. Grain corn harvest underway. Hay good. Third cutting alfalfa 79% finished, 71% 1992, 75% avg. Potato harvest in full swing. Dry bean harvest 30% completed. Apple harvest continued. Bosc pear harvest active. Cider making active. Vegetable harvest winding down. Onion harvest continued. Growers moving onions into storage.

NORTH CAROLINA: Temperatures near normal to 5° below normal. Smallest negative departures were along the coast. Precipitation 1.47 in. at New Bern to no rain at several locations.

Days suitable for fieldwork 6.0. Soil moisture 5% very short, 51% short, 44% adequate. Crop condition: Pasture 3% very poor, 22% poor, 53% fair, 20% good, 2% excellent. Field tobacco 8% poor, 42% fair, 50% good. Corn 12% very poor, 27% poor, 48% fair, 13% good. Hay 25% poor, 60% fair, 15% good. Cotton 17% poor, 62% fair, 21% good. Peanuts 32% poor, 42% fair, 26% good. Soybeans 16% poor, 59% fair, 25% good. Sweet potatoes 9% poor, 46% fair, 45% good. Apples 41% fair, 53% good. Sorghum 18% poor, 59% fair, 23% good. Hay, roughage supplies 2% very short, 39% short, 57% adequate, 2% surplus. Apples harvested 55%, 68% 1992, 71% avg. Flue-cured tobacco harvested 86%, 97% 1992, 97% avg. Burley

tobacco harvested 89%, 75% 1992, 87% avg. Corn for silage harvested 94%, 80% 1992, 88% avg. Corn for grain 74%, 55% 1992, 69% avg. Sorghum for grain 32%, 31% 1992, 40% avg. Sweet potatoes harvested 20%, 36% 1992, 35% avg. Cotton harvested 15%, 2% 1992, 7% avg. Peanuts dug 23%, 15% 1992, 23% avg.; threshed 10%, 9% 1992, 8% avg. Cotton open bolls 98%, 77% 1992, 88% avg. Corn mature 100%, 99% 1992, 99% avg. Soybean drop leaf 25%, 31% 1992, 27% avg. Second cutting of the hay crop is 96% completed. Third cutting of the hay crop is 62% completed. Major activities: Harvesting, marketing tobacco; harvesting corn for grain. Other activities included: Cutting corn for silage; harvesting apples; defoliating cotton; seeding cover crops; tending livestock; general farm maintenance.

NORTH DAKOTA: Cool temperatures, very little precipitation over State. Temperatures 5° below normal north central, northeast to 1° below normal south central. Extremes 16° north central, northeast; 76° north central.

Days suitable for fieldwork 6.9. Topsoil 33% short, 65% adequate, 2% surplus. Subsoil 10% short, 81% adequate, 9% surplus. Small grain harvest neared completion but remained behind average. Hard red spring wheat 91% harvested, 97% 1992, 99% avg. Durum wheat 82% harvested, 91% 1992, 98% avg. Oats 97% harvested, 99% 1992, 100% avg. Barley 96% harvested, 99% 1992, 100% avg. Intended winter wheat acres planted 76%, 87% 1992, 91% avg. Intended rye acres planted 82%, 87% 1992, 92% avg. Hard frost over much of the State halted corn, sunflower growth. Corn for grain 28% very poor, 44% poor, 28% fair; corn for silage 2% very poor, 21% poor, 65% fair, 12% good; sugarbeets 12% poor, 37% fair, 51% good; dry beans 18% poor, 66% fair, 16% good; soybeans 9% very poor, 31% poor, 50% fair, 10% good; sunflowers 6% poor, 51% fair, 43% good. Flax 54% harvested, 65% 1992, 89% avg. Corn for grain 0% harvested, 1% 1992, 24% avg. Corn for silage 73% cut, 72% 1992, 90% avg. Dry beans 46% harvested, 48% 1992, 82% avg. Soybeans 15% harvested, 30% 1992, 59% avg. Sunflowers 0% harvested, 2% 1992, 21% avg. Potatoes 79% dug, 78% 1992, 83% avg. Sugarbeets 15% lifted, 21% 1992, 24% avg. Range, pasture feed conditions 92% of normal.

OHIO: Unseasonably cold air resulted in the end of the growing season for many locales as mercuries dipped into the low to mid 30s. Freezing to slightly below freezing temperatures were recorded through much of the north, west. Temperatures 6 to 11° below normal with mean readings from near 50° to the low 50s. Maximums varied near 60° to the mid 60s south with mean lows from the upper 30s. Precipitation was light to moderate with most accumulations near normal. Cleveland stood out with almost 2.00 in. of precipitation while around 0.50 in. fell elsewhere.

Days suitable for fieldwork 3.7. Topsoil 30% short, 66% adequate, 4% surplus. Subsoil short. Processing tomatoes harvested 93%, 80% 1992, 86% avg. Potatoes harvested 80%, 66% 1992, 66% avg. Fall apples harvested 42%, 42% 1992, 40% avg. Grapes harvested 40%, 18% 1992. Corn harvested for silage 82%, 51% 1992, 57% avg. Pasture 8% very poor, 20% poor, 37% fair, 31% good, 4% excellent. Hay 3% very poor, 15% poor, 40% fair, 36% good, 6% excellent. Harvested corn moisture 25%, 29% 1992. Harvested soybean moisture 14%, 14% 1992. Rain curtailed harvest activities, winter wheat planting, helped planted wheat, double-cropped soybeans. Little frost damage. Corn borer infestations in some areas. Potatoes rate good, digging progressed slowly due to cold mornings, wet ground. Fall apples rate good. Tobacco harvest nearly complete south, sugarbeets harvest to start soon north. Recent rain helped sugarbeets growth.

OKLAHOMA: Temperatures 2° below normal southwest to 4° below normal north central. Precipitation none Panhandle, north central, west central, central, southwest to 1.25 in. southeast.

Days suitable for fieldwork 5.6. Topsoil 18% short, 73% adequate, 9% surplus. Subsoil 10% short, 90% adequate. Corn 100% mature, 100% 1992, 100% avg.; 93% harvested, 82% 1992, 82% avg. Soybeans 97% setting pods, 99% 1992, 100% avg.; 50% mature, 53% 1992, 35% avg.; 16% harvested, 18% 1992, 9% avg. Peanuts 17% fair, 83% good; 49% mature, 54% 1992, 72% avg.; 7% harvested, 18% 1992, 7% avg. Alfalfa 93% 4th cut, 93% 1992, 90% avg.; 31% 5th cut, 39% 1992,

28% avg. Pastures 96% of normal. Feeder prices steady to \$1.00 lower. Calves \$2.00 to \$8.00 higher.

OREGON: Temperatures 3 to 10° above normal statewide, except coast 1 to 4° below normal. Precipitation dry statewide.

Soil moisture 32% short, 68% adequate. Barley 31% planted. 1994 winter wheat crop 63% planted, 22% emerged. Willamette Valley red clover, sugarbeets seed crop harvests continued, field corn silage harvest underway. Malheur County sugarbeet harvest expected 11th. Potato, onion harvest continued, statewide. Willamette Valley broccoli, sweet corn harvests continued. Hood River Valley Bosc, Anjou picking continued, Jonagold, Golden Delicious harvest underway. Winter pear harvest winding down, apple harvest continued; Medford district. Apple picking continued, Milton-Freewater. Willamette Valley apple harvest continued; hazelnuts falling, harvest set to begin; strawberry, caneberry fields being prepared for winter. Cranberry harvest underway, southern coast. Livestock good to excellent. Range, pasture feed 92% of normal. Supplemental hay, protein being feed, western areas. Eastern cattle coming off ranges. Fall rains anticipated for fall pasture regrowth.

PENNSYLVANIA: Temperature 56°, 4° below normal. Extremes 24°; 86°. Precipitation 1.39 in., 0.58 in. above normal.

Days suitable for fieldwork 4. Soil moisture 7% short, 60% adequate, 33% surplus. Ensilage corn harvested 53% complete, 26% 1992. Corn 3% very poor, 10% poor, 32% fair, 43% good, 12% excellent. Soybean harvest 5% complete, 5% 1992; 5% very poor, 7% poor, 26% fair, 48% good, 14% excellent. Wheat planted 47% complete, 46% 1992. Oats harvest 100% complete, 100% 1992. Barley planted 68% complete, 55% 1992. Tobacco harvest 100% complete, 89% 1992. Potato harvest 70% complete, 69% 1992. Third cutting alfalfa 91% complete, 77% 1992. Fourth-cutting alfalfa 58% complete, 46% 1992. Second cutting clover-timothy 100% complete, 95% 1992. Quality of hay made 43% poor, 45% fair, 12% good. Feed from pastures good to excellent. Apple harvest 64% complete, 53% 1992. Peach harvest 100% complete, 99% 1992. Grapes harvest 54% complete, 59% 1992. Fall plowing 68% complete, 55% 1992. Activities: Filling silos with corn silage; cutting hay; harvesting corn; picking apples; planting wheat, barley; caring for livestock.

PUERTO RICO: Island rainfall 1.59 in. was 0.25 in. below normal. Weekly total 4.29 in. at San Sebastian, 4.06 in. at Maricao 2SSW, 4.02 in. at Adjuntas Aes. Highest 24 hour total 3.13 in. at Maricao 2SSW. Island temperatures 79 to 80° on coasts, 74 to 75° in interior with mean station temperature 82.9° at Guayama to 64.3° at Cerro Maravilla. Extremes 54°; 95°.

SOUTH CAROLINA: Seasons changed across Palmetto State last week as fall-like conditions prevailed. Afternoon temperatures began week in upper 80s, lower 90s, finished in 60s, 70s. Scattered areas of frost formed in low lying areas western half of State. Temperatures last week averaged 2 to 7° below normal. Rainfall nearly 0.20 in.

Days suitable for fieldwork 6.5. Soil moisture 20% very short, 63% short, 17% adequate. Corn very poor; 87% harvested, 89% 1992, 85% avg. Sorghum poor; 48% harvested, 52% 1992, 49% avg. Soybeans 12% very poor, 33% poor, 39% fair, 16% good; 35% leaves turning, 41% 1992, 41% avg.; 10% dropping leaves, 13% 1992, 15% avg.; 5% mature, 7% 1992, 8% avg.; 1% harvested, 0% 1992, 0% avg. Cotton 4% very poor, 64% poor, 31% fair, 1% good; 95% open bolls, 86% 1992, 86% avg.; 23% harvested, 5% 1992, 14% avg. Tobacco fair; 93% harvested, 100% 1992, 100% avg.; 64% stalks destroyed, 79% 1992, 68% avg. Sweet potatoes fair; 32% harvested, 34% 1992, 41% avg. Fall hay poor to fair; 60% harvested, 81% 1992, 74% avg. Apples fair; 70% harvested, 74% 1992, 81% avg. Pecans fair. Pasture feed 28% very poor, 46% poor, 21% fair, 5% good.

SOUTH DAKOTA: Temperatures 5° below normal to 3° above normal. Extremes 19°; 85°. Rainfall was scattered, very light. Maximum 0.06 in.

Days suitable for fieldwork 5.7. Topsoil 1% very short, 19% short, 67% adequate, 13% surplus. Subsoil 1% very short, 18% short, 59% adequate, 22% surplus. Sunflowers 1% very poor, 1% poor, 20% fair, 67% good, 11% excellent. Flax 84% harvested, 72% 1992, 97% avg. Sorghum 45% silage harvested, 44% 1992, 68% avg. Corn 40% silage harvested, 53% 1992, 67% avg. Favorable weather allowed row crops to make good progress towards maturity in most areas. Silage harvest was in full swing. Early planted row crops were being harvested. Winter grain seeding was near complete. Livestock 3% fair, 77% good, 20% excellent. Pasture feed conditions 91% of normal. The movement of yearlings to market was slowing down in most areas while calves were starting to move.

TENNESSEE: Temperatures were below normal averaging in the 50s, 60s across the State. Precipitation also averaged below normal with most areas receiving between 0.25 to 0.75 in. of rain.

Days suitable for fieldwork 5.0. Soil moisture 4% very short, 24% short, 69% adequate, 3% surplus. Corn 95% mature, 94% 1992, 93% avg.; 46% grain harvested, 48% 1992, 50% avg.; 93% silage harvested, 83% 1992, 90% avg. Cotton 99% open bolls, 83% 1992, 86% avg.; 21% harvested, 6% 1992, 19% avg.; 32% poor, 50% fair, 18% good. Sorghum 98% mature, 97% 1992, 90% avg.; 68% harvested, 47% 1992, 53% avg. Soybeans 47% dropping leaves, 43% 1992, 46% avg.; 18% mature, 18% 1992, 20% avg.; 3% harvested, 2% 1992, 3% avg.; 9% poor, 46% fair, 43% good, 2% excellent. Tobacco 90% burley harvested, 95% 1992, 94% avg.; 4% burley stripped, 5% 1992, 6% avg.; 93% dark air harvested, 97% 1992, 93% avg.; 93% dark fire harvested, 95% 1992, 95% avg. Wheat 7% seeded, 10% 1992, 11% avg. Cattle 3% poor, 25% fair, 72% good. Cotton condition declined for the fourth consecutive week. Brief, but heavy, rainfall damaged some open bolls. Early yields have been disappointing, as farmers have reported trouble picking an abundance of "knotty" bolls. Soybean harvest getting underway in west. Early yields have been encouraging, reports of insect damage have subsided. Tobacco harvest is wrapping, up stripping is underway in several areas. Pastures are still short, good condition for this time of year. Many cattle producers have been no-till drilling wheat, rye into pastures hoping to get some extra grazing this fall, winter.

TEXAS: High pressure brought clear skies and dry conditions to most of Texas last week. Cold front moved through Eastern one-half of State over weekend, bringing scattered showers, thunderstorms. Despite rainfall, all crop districts reported below normal precipitation for week. Departures -0.14 in. Blacklands to -0.99 in. South Central Texas. Blacklands received an average of 0.67 in. last week, followed by an average of 0.50 in. Cross Timbers. Some of greater individual station totals were 1.64 in. at Dallas, 1.51 in. at Waco. Mean temperatures were below normal last week except for northern High Plains, where near normal readings occurred. Greatest departures were -5° in southern High Plains, southern Low Plains crop districts. Soil temperatures 69° Bushland to 85° Beeville.

Crops: Corn harvest for grain continued in full swing in Northern High Plains. Harvest activity has been virtually completed in other areas. Condition 82% normal, 87% 1992. Cotton cool night temperatures have tempered cotton growth in Trans-Pecos, High Plains. Harvesting, applying of defoliant was active on Plains, where much cotton is open well ahead of normal. In Blacklands, excellent weather conditions allowed harvest to progress rapidly, shredding, plowing of harvested land was active. Condition 77% normal, 65% 1992. Rice harvest of remaining first crop rice continued. Second crop rice continues to lag behind normal. Grain sorghum harvesting continued in High, Low Plains where conditions allowed. Harvest winding down in Edwards Plateau. A few remaining fields were harvested in Blacklands, where harvest is almost complete. Condition 80% normal, 88% 1992. Small grains: Stands in Low Plains made good progress where recent rains have fallen. In High Plains, some planting is being delayed until more rain is received. Planting of small grain for winter pastures was active in Central Texas where conditions allowed. A few producers in the Blacklands were having to contend with armyworms. Wheat 71% of normal. Peanuts prospects for dry land crop in Cross Timbers, Blacklands continued to diminish. Harvesting active in East

Texas, Edwards Plateau, South Texas. Some producers in Low Plains were preparing for harvest. Condition 69% normal, 84% 1992. Soybeans harvest continued in High Plains.

Commercial Vegetables: Rio Grande Valley, tomato, melon crops made good progress. Planting of fall vegetables was active. Cucumbers still being harvested. San Antonio-Winter Garden, cabbage made good progress. Some spinach was planted. Tomato plants progressed slowly, land preparation continued. East Texas, sweet potato harvest continued, yields have been disappointing. Harvesting of pumpkins, watermelons continued, few fields of cole, greens were planted. High Plains, harvesting of peppers, pumpkins, squash continued. Harvested watermelon fields were being plowed. Trans-Pecos, fall lettuce, onions were planted. Pepper harvesting continued, seed beds were being prepared. Pecans in Central Texas, limited harvesting had begun. Stink bug damage occurred to some trees in Trans-Pecos. Crop continues to look good in Blacklands.

Range and Livestock: Ranges, pastures continued to green up where rain has been received. Cool weather impeded growth of permanent pastures in many parts of State. In Central Texas, some ranchers were applying fertilizers to hay fields in hopes of one more cutting. Hay supplies may be short in some areas of State. Supplemental feeding continued. Livestock good condition across most of State.

UTAH: Temperature maximums 6° above normal, minimums 2° below normal. There was none precipitation.

Days suitable for fieldwork 7.0. Soil moisture 30% short, 70% adequate. Irrigation water supply 6% very short, 8% short, 86% adequate. Stockwater supply 1% very short, 29% short, 70% adequate. Winter wheat seeded 79%, 86% 1992, 74% avg. Winter wheat emerged 65%, 53% 1992, 33% avg. Field corn mature 56%, 88% 1992; harvested for grain 5%, 27% 1992, 19% avg.; harvested for silage 57%, 94% 1992, 82% avg. Alfalfa 3rd cutting 86%. Alfalfa 4th cutting 32%, 81% 1992, 64% avg. Alfalfa seed harvested 80%, 99% 1992, 85% avg. Apples picked 18%, 87% 1992, 62% avg. Potatoes harvested 37%, 87% 1992, 58% avg. Onions harvested 59%, 90% 1992, 84% avg. Dry beans harvested 5%. Cattle moved from summer range 45%, 62% 1992, 51% avg. Sheep moved from summer range 54%, 70% 1992, 58% avg. Pasture, range feed good to excellent.

VIRGINIA: Temperatures 3 to 6° below normal. Extremes 27°, 91°. Precipitation was widespread.

Days suitable for fieldwork 5.0. Topsoil 4% very short, 36% short, 57% adequate, 3% surplus. Pasture 1% very poor, 23% poor, 50% fair, 23% good, 3% excellent. Corn silage harvested 85%, 75% 1992, 83% avg. Corn harvested for grain 60%, 41% 1992, 54% avg. Soybean 5% very poor, 56% poor, 36% fair, 3% good; harvested 3%, 0% 1992, 3% avg. Cotton defoliation, picking continued. Cotton harvesting 14% completed, 0% 1992, 5% avg. Peanut 14% very poor, 72% poor, 14% fair; dug 25%, 10% 1992, 41% avg.; combined 11%, 2% 1992, 27% avg. Flue tobacco 84% harvested, 95% 1992, 91% avg. Fire tobacco 98% harvested, 100% 1992, 100% avg. Sun tobacco 100% harvested, 100% 1992, 100% avg. Burley tobacco 92% harvested, 98% 1992, 97% avg. Sweet potato harvest about 74% completed. Fall apples 57% harvested. Fruit size smaller than normal, cool temperatures adding color, quality reported good. Winter wheat 5% seeded, 5% 1992, 7% avg. Oats 17% seeded, 32% 1992, 26% avg. Barley 19% seeded, 17% 1992, 17% avg. Livestock mostly fair to good. Late pasture growth good. Some light frost in spotted areas. Harvesting cucumbers, snap beans, tomatoes, squash, peppers, pumpkins.

WASHINGTON: Temperatures normal to 6° above normal west; 1° above normal to 8° above normal east. Precipitation none west; none to 0.01 in. east.

Days suitable for fieldwork 6.9. Soil moisture 16% short, 84% adequate. Irrigation water supply 18% short, 82% adequate. Hay, other roughage 6% short, 92% adequate, 2% surplus. Range, pasture 11% poor, 76% fair, 13% good. Winter wheat dryland 45% good, 55% excellent; irrigated 100% good. Barley dryland 60% good, 40% excellent; irrigated 100% good. Potatoes, dry beans, and corn, 100%

good. Warm, dry weather returned to the state last week. Some record breaking high temperatures were recorded and no station went below freezing. No precipitation was received statewide last week with the exception of Goldendale, which received .01 inch. Only five of the 23 reporting weather stations have recorded greater more than 25% normal precipitation since the new season started September 1st. Grain harvests were essentially completed in most areas. Fall field preparations and seeding progressed rapidly. Plants were continuing to emerge well, some areas were beginning to become concerned with the lack of fall moisture. Apples were being picked. Grape harvest continued, slowed by maturity problems in many areas. Pumpkins were maturing rapidly, harvest was underway in some areas. Late season vegetable harvests continued.

WEST VIRGINIA: Temperature 53°. Extremes 27°, 81°. Precipitation 0.71 in.

Days suitable for fieldwork 4.0. Soil moisture 31% short, 69% adequate. Tobacco, 20% fair, 80% good; 90% harvested. Hay 7% very poor, 31% poor, 47% fair, 15% good; 100% 2nd cut, 90% 3rd cut. Pastures feed 10% very poor, 29% poor, 41% fair, 20% good; 76% of normal. Cattle 28% fair, 72% good. Sheep 10% poor, 31% fair, 59% good. Apples poor to fair. Corn 5% poor, 72% fair, 23% good; 100% mature, 50% harvested. Soybeans 20% fair, 80% good; 61% dropping leaves. Farm activities: Moving livestock, feeding livestock, cutting hay, harvesting tobacco, chopping silage, harvesting corn, harvesting apples, sowing barley, sowing wheat, general maintenance.

WISCONSIN: Very dry with roller coaster-like temperatures. Hard freeze, frost statewide on 30th, 2nd, to bring an end to the growing season across the State. Temperature 46°; 8° below normal. Extremes 16°, 78°. Precipitation trace to 0.60 in.

Days suitable for fieldwork 4.7. Soil moisture 1% short, 48% adequate, 51% surplus. Pasture feed 84% of normal, 77% 1992, 74% average. General condition of crops: 3% poor, 38% fair, 59% good. Corn 6% poor, 44% fair, 49% good, 1% excellent. Corn in dent or beyond: 72% in dent, 74% 1992, 91% avg.; mature 33% mature, 25% 1992, 67% average. Corn for grain 3% harvested, 1% 1992, 10% average. Corn silo filling 15% complete, 19% 1992, 53% avg. Soybean 1% poor, 30% fair, 63% good, 6% excellent. Soybeans with leaves turning 80%, 79% 1992. Soybeans with leaves shedding 43% 1993, 35% 1992, 72% avg. 3rd cut alfalfa: 68% harvested, 64% 1992, 76% average. Fall tillage 10% complete, 8% 1992, 14% average. Farmers harvested corn, alfalfa. Despite the short growing season, most crops were in good condition. Little progress was made on harvesting third crop alfalfa last week. Cloudy skies, scattered precipitation made it difficult to dry the hay. Reporters have indicated that there is a good supply of hayslage, good quality dry hay is in short supply. With the corn crop done growing, harvesting for silage and high moisture will increase. Some farmers hope for warm, dry weather to remove moisture from the corn before harvesting. Many fields of soybeans have been affected by the recent frost. Potato harvest is about half complete. Early reports suggest that yields will be lower than last year. Early planted winter wheat, rye have emerged, their condition looks good. Cranberries continue to be harvested. Cranberries were reported fair to good in size, fair in color.

WYOMING: Temperatures 4° below normal in Redbird to 4° above normal in Lander, Evanston. Precipitation was below normal across the State with only a few scattered areas reporting small amounts of precipitation.

Days suitable for fieldwork 6.6. Topsoil 34% short, 66% adequate. Subsoil 26% short, 74% adequate. Spring wheat 87% harvested, 100% 1992, 100% avg. Oats 90% harvested, 100% 1992, 100% avg. Barley 96% harvested, 100% 1992, 100% avg. Winter wheat planted for harvest 96% 1994; emerged 66%, 61% 1992, 61% avg. Corn silage harvested 87%, 80% 1992, 87% avg. Dry beans combined 54%, 84% 1992, 80% avg. Sugarbeets harvested 13%, 23% 1992, 23% avg. Sugarbeets good to excellent. Corn mostly poor. Dry beans very poor to poor. Livestock mostly good. Cattle, calves moved from summer ranges 47%, 50% 1992. Sheep, lambs moved from summer ranges 49%, 52% 1992. Pasture, range feed condition good to excellent.

September 1993
MONTHLY DATA FROM SELECTED FOREIGN CITIES
CLIMATE ANALYSIS CENTER-NMC-NWS-NOAA
 *** = DATA NOT AVAILABLE

International Weather and Crop Summary
HIGHLIGHTS

September 26 - October 2, 1993

FSU: In western Russia, mixed rain and snow caused further delays in autumn fieldwork. Dry weather helped fieldwork in most of Ukraine. In the New Lands, persistent cold, damp weather slowed spring grain harvesting.

EUROPE: Wet, cool weather hampered corn and sugar beet harvesting.

SOUTH ASIA: Showers in central and eastern India benefited immature summer crops and boosted reservoirs for winter grains and oilseeds.

SOUTHEAST ASIA: Showers increased reservoir levels in northern and central Thailand.

EASTERN ASIA: Dry weather continued to aid summer crop maturation and harvesting across the North China Plain and most of Manchuria. Showers slowed summer crop harvesting across southern China.

AUSTRALIA: Rains favored vegetative to reproductive wheat across the southern and western wheat regions.

SOUTH AMERICA: Rain continued to boost topsoil moisture for summer crop planting across the region, but delayed fieldwork across southern Brazil.

CANADA: Dry weather promoted Prairie grain and oilseed harvests. Ontario summer crops got their first hard freeze.

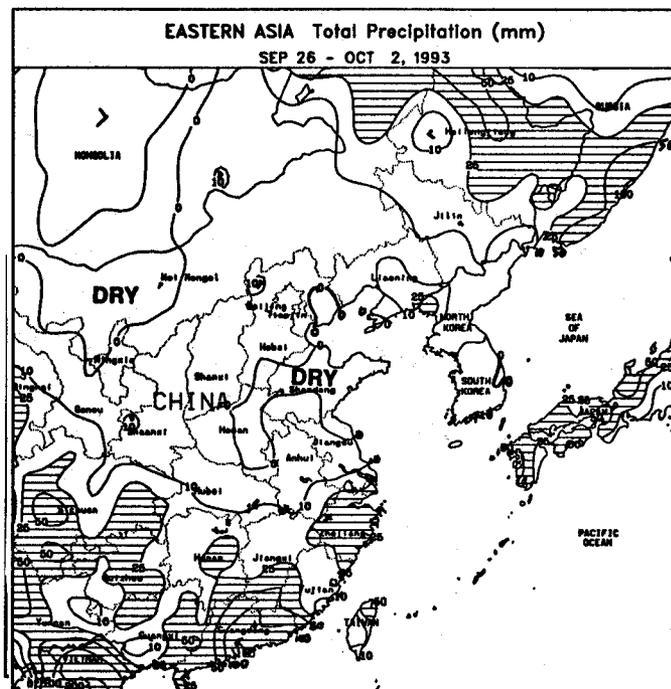
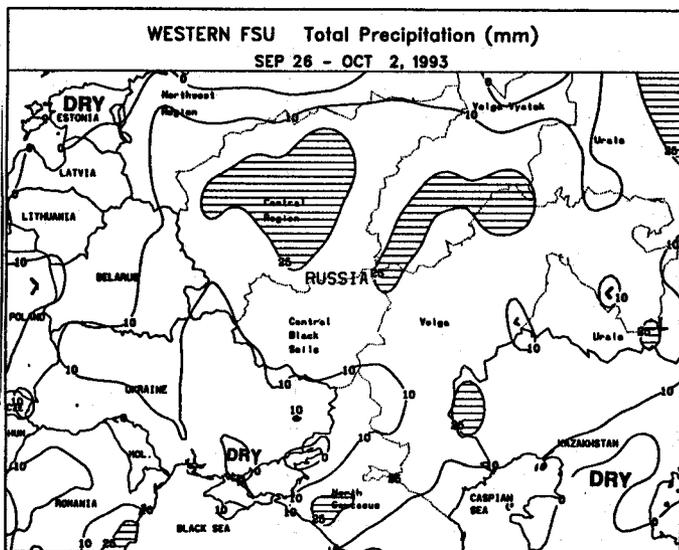
MEXICO: Widespread showers favored corn across central and southern Mexico. Recent heavy rains caused some vegetable planting delays across the northwest coast.

| COUNTRY | CITY | TEMPERATURE (C) | | | | | PRECIPITATION (MM) | | |
|---------|----------------|-----------------|---------|----|----|-----|--------------------|-------|-------------|
| | | AVG MAX | AVG MIN | HI | LO | AVG | DPART F/NRM | TOTAL | DPART F/NRM |
| NORWAY | OSLO | 12 | 3 | 18 | -3 | 8 | -1.6 | 24 | -74 |
| SWEDEN | STOCKHOLM | 13 | 5 | 17 | -1 | 9 | -2.6 | 38 | -15 |
| FINLAND | HELSINKI | 11 | 3 | 15 | -6 | 7 | -3.2 | 14 | -60 |
| U KING | GLASGOW | 16 | 8 | 20 | -2 | 12 | -1.2 | 43 | -55 |
| | EDINBURGH | 16 | 7 | 22 | -1 | 11 | -1.1 | 47 | -20 |
| | BIRMINGHAM | 16 | 8 | 24 | 3 | 12 | -1.0 | 76 | 21 |
| | LONDON | 17 | 8 | 23 | 3 | 12 | -1.4 | 102 | 34 |
| IRELAND | DUBLIN | 16 | 10 | 20 | 5 | 13 | -0.6 | 87 | 20 |
| ICELAND | REYKJAVIK | 12 | 7 | 15 | 3 | 10 | 2.1 | 81 | 14 |
| DENMRK | COPENHAGEN | 14 | 9 | 19 | 3 | 12 | -2.4 | 124 | 62 |
| LUXEMB | LUXEMBOURG | 16 | 10 | 23 | 5 | 13 | -0.6 | 153 | 86 |
| SWITZL | ZURICH | 18 | 10 | 27 | 5 | 14 | -0.2 | 73 | -22 |
| | GENEVA | 18 | 11 | 26 | 4 | 15 | -0.2 | 264 | 182 |
| FRANCE | PARIS/ORLY | 19 | 11 | 27 | 5 | 15 | ** | 111 | ** |
| | STRASBOURG | 19 | 10 | 26 | 4 | 15 | -0.2 | 89 | 33 |
| | BOURGES | 19 | 11 | 28 | 6 | 15 | -1.0 | 146 | 85 |
| | BORDEAUX | 21 | 12 | 29 | 8 | 17 | -0.7 | 246 | 173 |
| | TOULOUSE | 22 | 13 | 31 | 6 | 18 | -0.5 | 150 | 103 |
| | MARSEILLE | 25 | 16 | 31 | 8 | 20 | 0.3 | 65 | 18 |
| SPAIN | VALLADOLID | 22 | 10 | 31 | 3 | 16 | -2.5 | 51 | 18 |
| | MADRID | 25 | 12 | 33 | 4 | 18 | -1.9 | 20 | -14 |
| | SEVILLE | 29 | 16 | 37 | 11 | 23 | -2.2 | 11 | -10 |
| PORTUG | LISBON | 23 | 16 | 34 | 12 | 20 | -1.7 | 64 | 38 |
| GERMNY | HAMBURG | 16 | 9 | 23 | 3 | 13 | -1.0 | 119 | 49 |
| | BERLIN | 17 | 10 | 24 | 4 | 14 | -1.0 | 78 | 32 |
| | DUSSELDORF | 18 | 11 | 25 | 4 | 14 | -1.1 | 149 | 87 |
| | LEIPZIG | 17 | 9 | 26 | 2 | 13 | -1.1 | 61 | 16 |
| | DRESDEN | 17 | 10 | 25 | 2 | 14 | -0.7 | 44 | -4 |
| | STUTTGART | 18 | 10 | 27 | 2 | 14 | -0.2 | 54 | -6 |
| | NURNBERG | 19 | 9 | 28 | 2 | 14 | 0.1 | 46 | -5 |
| AUSTRI | VIENNA | 20 | 11 | 28 | 4 | 16 | 0.3 | 40 | -13 |
| | INNSBRUCK | 19 | 10 | 27 | 4 | 14 | 0.2 | 82 | 4 |
| CZECH | PRAGUE | 18 | 8 | 25 | 1 | 13 | -0.6 | 42 | 2 |
| POLAND | WARSAW | 17 | 8 | 24 | 0 | 12 | -0.8 | 38 | -3 |
| | LODZ | 17 | 9 | 24 | 3 | 13 | 0.0 | 100 | 47 |
| | KATOWICE | 19 | 8 | 26 | 1 | 14 | 0.7 | 36 | -16 |
| | PRZEMYSL | 17 | 9 | 24 | -1 | 13 | -0.6 | 30 | -25 |
| HUNGAR | BUDAPEST | 22 | 11 | 29 | 6 | 16 | -0.1 | 72 | 32 |
| F YUGO | BELGRADE | 24 | 14 | 33 | 8 | 19 | 1.5 | 52 | 2 |
| ROMANI | BUCHAREST | 25 | 8 | 34 | -3 | 17 | -1.0 | 20 | -17 |
| BULGAR | SOFIA | 24 | 11 | 33 | 4 | 18 | 1.2 | 16 | -28 |
| ITALY | MILAN | 23 | 14 | 27 | 8 | 19 | -0.1 | 287 | 220 |
| | VERONA | 23 | 13 | 27 | 6 | 18 | -0.7 | 172 | 110 |
| | VENICE | 23 | 15 | 25 | 11 | 19 | -0.1 | 181 | 115 |
| | GENOA | 23 | 18 | 29 | 12 | 21 | -1.5 | 217 | 102 |
| | ROME | 27 | 18 | 32 | 11 | 23 | 1.5 | 63 | -8 |
| | NAPLES | 27 | 17 | 34 | 10 | 22 | 1.1 | 65 | -20 |
| GREECE | THESSALONIKA | 28 | 15 | 34 | 10 | 21 | -0.5 | 6 | -20 |
| | LARISSA | 29 | 14 | 37 | 8 | 21 | -0.6 | 8 | -24 |
| | ATHENS | 29 | 20 | 34 | 14 | 24 | -0.2 | 0 | -12 |
| TURKEY | ISTANBUL | 25 | 16 | 32 | 12 | 21 | 1.1 | 48 | 7 |
| | ANKARA | 26 | 8 | 33 | 1 | 17 | -1.1 | 0 | -37 |
| CYPRUS | LARNACA | 31 | 19 | 36 | 16 | 25 | -0.2 | 0 | -5 |
| ESTONI | TALLINN | 11 | 4 | 14 | -4 | 7 | -3.7 | 40 | -42 |
| FSU | ST. PETERSBURG | 11 | 4 | 15 | -2 | 8 | -3.3 | 17 | -49 |
| LITHUA | KAUNAS | 13 | 7 | 20 | -2 | 10 | -2.2 | 69 | 12 |
| FSU | MINSK | 13 | 7 | 22 | 0 | 10 | -2.2 | 82 | 27 |
| | KAZAN | 10 | 4 | 20 | -2 | 7 | -4.0 | 104 | 59 |
| | MOSCOW | 10 | 4 | 18 | -3 | 7 | -3.9 | 110 | 50 |
| | YEKATERINBURG | 9 | 4 | 20 | -2 | 6 | -3.5 | 47 | -3 |
| | OMSK | 12 | 5 | 19 | -1 | 8 | -2.2 | 52 | 21 |
| | KUSTANAY | 13 | 4 | 22 | -3 | 9 | -3.1 | 30 | 4 |
| | KRASNOYARSK | 13 | 5 | 18 | -3 | 9 | 0.0 | 49 | 9 |
| | NOVOSIBIRSK | 12 | 5 | 19 | -1 | 9 | -1.3 | 55 | 22 |
| | BARNAUL | 14 | 6 | 25 | -2 | 10 | -1.3 | 29 | -1 |
| | KHABAROVSK | 21 | 9 | 28 | 3 | 15 | 1.5 | 84 | -7 |
| | VLADIVOSTOK | 19 | 13 | 25 | 9 | 16 | 0.8 | 106 | -23 |
| | KIEV | 16 | 8 | 22 | 1 | 12 | -1.8 | 129 | 83 |
| | LVOV | 17 | 9 | 24 | -1 | 13 | -0.4 | 58 | 2 |
| | KIROVOGRAD | 18 | 8 | 24 | -2 | 13 | -1.1 | 88 | 52 |

Based on Preliminary Reports

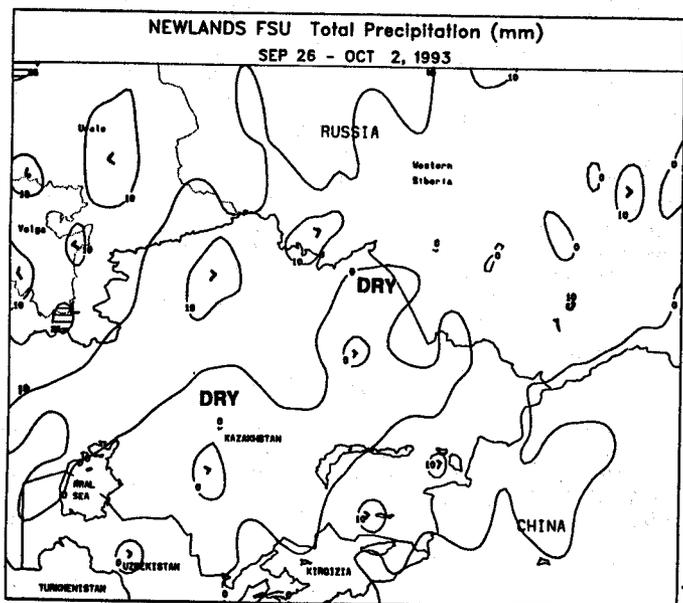
September 1993

| COUNTRY | CITY | TEMPERATURE (C) | | | | | PRECIPITATION (MM) | | | COUNTRY | CITY | TEMPERATURE (C) | | | | | PRECIPITATION (MM) | | | | | | | | | | | | |
|----------------|------------|-----------------|-----|-----|-----|-------|--------------------|-------|----------------|--------------|---------------|-----------------|-----|-----|-------|-------|--------------------|--------------|------------|--------------|---------------|-----|-----|-------|------|-------|-----|-----|-----|
| | | AVG | AVG | HI | LO | DPART | AVG | TOTAL | DPART | | | AVG | AVG | HI | LO | DPART | TOTAL | DPART | | | | | | | | | | | |
| | | MAX | MIN | MAX | MIN | F/NRM | | F/NRM | | | MAX | MIN | MAX | MIN | F/NRM | | F/NRM | | | MAX | MIN | MAX | MIN | F/NRM | | F/NRM | | | |
| FSU | ODESSA | 19 | 13 | 23 | 7 | 16 | -1.2 | 15 | -21 | KENYA | NAIROBI | 27 | 11 | 29 | 6 | 19 | 0.1 | 0 | -25 | TANZAN | DAR ES SALAAM | 30 | 18 | 32 | 17 | 24 | 0.1 | 19 | -11 |
| | YALTA | 22 | 14 | 28 | 8 | 18 | -0.9 | 18 | -16 | GABON | LIBREVILLE | ** | ** | 30 | 20 | ** | *** | ** | ** | TOGO | LOME | 30 | 24 | 32 | 21 | 27 | 1.2 | 35 | -13 |
| | VORONEZH | 13 | 5 | 22 | -4 | 9 | -3.8 | 86 | 33 | B FASO | OUAGADOUGOU | 33 | 23 | 35 | 19 | 28 | 1.0 | 110 | -29 | IVRY C | ABIDJAN | 29 | 24 | 31 | 22 | 26 | 1.9 | 49 | -17 |
| | SARATOV | 13 | 7 | 22 | -1 | 10 | -2.5 | 182 | 147 | MOZAMB | MAPUTO | 28 | 18 | 37 | 14 | 23 | 1.9 | 2 | -40 | ZAMBIA | LUSAKA | 27 | ** | 31 | 9 | ** | *** | 0 | -1 |
| | KHARKOV | 15 | 7 | 22 | 1 | 11 | -3.0 | 107 | 67 | SIMBAB | HARARE | 26 | 13 | 30 | 9 | 19 | 0.8 | 5 | -4 | ZIMBAB | HARARE | 26 | 13 | 30 | 9 | 19 | 0.8 | 5 | -4 |
| | VOLGOGRAD | 17 | 8 | 27 | -2 | 12 | -3.1 | 82 | 61 | S AFRI | PRETORIA | 29 | 13 | 32 | 8 | 21 | 2.6 | 3 | -18 | JOHANNESBURG | 26 | 10 | 30 | 5 | 18 | 2.3 | 2 | -25 | |
| | ROSTOV | 18 | 9 | 27 | 2 | 14 | -3.0 | 48 | 9 | BETHAL | 26 | 10 | 30 | 5 | 18 | 2.3 | 2 | -25 | DURBAN | 24 | 16 | 29 | 11 | 20 | 1.0 | 59 | -14 | | |
| | ASTRAKHAN | 22 | 10 | 30 | 2 | 16 | -1.3 | 3 | -19 | CAPE TOWN | 20 | 10 | 27 | 4 | 15 | 1.3 | 10 | -30 | CANADA | TORONTO | 19 | 8 | 29 | -1 | 14 | -1.5 | 55 | -19 | |
| | KRASNODAR | 24 | 10 | 30 | 3 | 17 | -0.6 | 42 | 13 | MONTREAL | 19 | 9 | 28 | -1 | 14 | -0.4 | 123 | 36 | WINNIPEG | 16 | 5 | 24 | -2 | 10 | -1.9 | 23 | -29 | | |
| | ORENBURG | 15 | 5 | 25 | -2 | 10 | -3.9 | 38 | 7 | REGINA | 17 | 4 | 28 | -3 | 10 | -1.3 | 52 | 18 | SASKATOON | 17 | 2 | 25 | -5 | 10 | -1.4 | 42 | 10 | | |
| | TSELINGRAD | 14 | 5 | 24 | -6 | 9 | -1.9 | 20 | -4 | LETHBRIDGE | 19 | 5 | 29 | -1 | 12 | -0.7 | 76 | 32 | LETHBRIDGE | 19 | 5 | 29 | -1 | 12 | -0.7 | 76 | 32 | | |
| | KARAGANDA | 16 | 4 | 28 | -6 | 10 | -2.4 | 10 | -10 | CALGARY | 17 | 4 | 27 | -2 | 11 | -0.1 | 24 | -23 | EDMONTON | 17 | 5 | 25 | -1 | 11 | 0.1 | 33 | -8 | | |
| | TBILISI | 26 | 15 | 33 | 10 | 20 | 0.7 | 129 | 91 | VANCOUVER | 20 | 10 | 26 | 5 | 15 | 0.4 | 2 | -63 | MEXICO | GUADALAJARA | ** | ** | 29 | 13 | ** | *** | ** | ** | |
| | TASHKENT | 29 | 13 | 36 | 5 | 21 | 0.7 | 10 | 6 | MEXICO CITY | ** | ** | 23 | 11 | ** | *** | ** | ** | ACAPULCO | ** | ** | 34 | 22 | ** | *** | ** | ** | | |
| | ASHKABAD | 32 | 17 | 38 | 11 | 24 | 1.4 | 1 | -4 | BERMUD | ST. GEORGES | 30 | 26 | 32 | 24 | 28 | 1.4 | 54 | -108 | BAHAMA | NASSAU | 32 | 24 | 33 | 21 | 28 | 0.9 | 83 | -84 |
| | DAMASCUS | 34 | 11 | 39 | 5 | 23 | -0.5 | 0 | 0 | CUBA | HAVANA | 31 | 24 | 35 | 22 | 28 | 0.9 | 106 | -39 | JAMAIC | KINGSTON | 33 | 25 | 34 | 23 | 29 | 0.5 | 60 | -56 |
| | JERUSALEM | 28 | 16 | 34 | 12 | 22 | 0.3 | 0 | 0 | P RICO | SAN JUAN | 32 | 25 | 33 | 23 | 28 | 0.3 | 111 | -23 | GUADEL | RAIZET | 32 | 24 | 33 | 22 | 28 | 0.9 | 82 | -66 |
| | KARACHI | 33 | 26 | 38 | 25 | 30 | 0.7 | 9 | 0 | MARTINQ | LAMENTIN | 31 | 24 | 34 | 22 | 28 | 1.1 | 119 | -96 | BARBAD | BRIDGETOWN | 31 | 25 | 33 | 22 | 28 | 0.5 | 62 | -74 |
| | AMRITSAR | 33 | ** | 36 | 20 | ** | *** | 71 | -15 | TRINID | PORT OF SPAIN | 32 | 24 | 33 | 23 | 28 | 1.4 | 105 | -98 | COLOMB | BOGOTA | ** | ** | 23 | 3 | ** | *** | ** | ** |
| NEW DELHI | 32 | 25 | 35 | 22 | 28 | -1.0 | 207 | 83 | VENEZU | CARACAS | 32 | 24 | 33 | 23 | 28 | 0.3 | 18 | -28 | F GUIA | CAYENNE | 31 | 22 | 32 | 21 | 27 | 0.2 | 10 | -66 | |
| AHMEDABAD | 35 | 25 | 37 | 23 | 30 | 0.9 | 85 | -27 | BRAZIL | FORTALEZA | 29 | 24 | 30 | 22 | 27 | -0.1 | 22 | -4 | RECIFE | ** | ** | 29 | 20 | ** | *** | 50 | -63 | | |
| INDORE | 30 | 22 | 33 | 19 | 26 | 0.0 | 137 | -43 | BELO HORIZONTE | 29 | 18 | 34 | 14 | 24 | 2.5 | 64 | 23 | CAMPO GRANDE | 29 | 19 | 34 | 10 | 24 | 1.3 | 98 | 11 | | | |
| CALCUTTA | 32 | 25 | 34 | 18 | 29 | -0.5 | 405 | 101 | FRANCA | 27 | 18 | 32 | 13 | 22 | 1.6 | 99 | 34 | LONDRINA | ** | ** | 26 | 10 | ** | *** | ** | ** | | | |
| VERAVAL | 31 | 26 | 33 | 23 | 28 | 0.9 | 78 | -17 | SANTA MARIA | ** | 11 | 25 | 4 | ** | *** | 98 | -53 | PORTO ALEGRE | 21 | 12 | 25 | 5 | 16 | -0.8 | 52 | -72 | | | |
| BOMBAY | 30 | 25 | 31 | 21 | 27 | 0.2 | 592 | 283 | PERU | LIMA | 20 | 16 | 23 | 15 | 18 | 1.4 | 1 | 0 | BOLIVI | LA PAZ | 15 | 1 | 19 | -2 | 8 | -0.4 | 35 | 4 | |
| POONA | 29 | 21 | 32 | 19 | 25 | -0.2 | 49 | -84 | CHILE | SANTIAGO | 19 | 4 | 27 | -1 | 11 | 0.0 | 2 | -18 | ARGENT | IGUAZU | 24 | 13 | 35 | 1 | 19 | *** | 238 | ** | |
| BEGAMPET | 31 | 22 | 33 | 19 | 26 | 0.1 | 119 | -53 | FORMOSA | 25 | 14 | 39 | 5 | 19 | -0.2 | 79 | -15 | CERES | 23 | 8 | 32 | -1 | 15 | -0.8 | 34 | -13 | | | |
| VISHAKHAPATNAM | 31 | 26 | 33 | 21 | 28 | *** | 179 | ** | CORDOBA | 21 | 7 | 32 | -3 | 14 | -1.2 | 25 | -14 | RIO CUARTO | 19 | 7 | 29 | -2 | 13 | -0.3 | 10 | -32 | | | |
| MADRAS | 34 | 25 | 36 | 22 | 30 | 0.1 | 61 | -78 | ROSARIO | 20 | 7 | 28 | -1 | 14 | -0.2 | 184 | 121 | BUENOS AIRES | 18 | 7 | 25 | 2 | 12 | -0.6 | 28 | -32 | | | |
| MANGALORE | 30 | 23 | 32 | 21 | 27 | 0.4 | 160 | -107 | SANTA ROSA | 20 | 5 | 29 | -1 | 12 | 0.2 | 19 | -20 | TRES ARROYOS | 17 | 4 | 26 | -4 | 11 | -0.1 | 23 | -31 | | | |
| KINGS PEAK | 30 | 25 | 33 | 22 | 28 | *** | 546 | ** | N CALD | NOUMEA | 24 | 17 | 28 | 15 | 21 | 0.3 | 28 | -11 | FIJI | NAUSORI | 25 | 19 | 27 | 14 | 22 | -0.8 | 79 | -85 | |
| PYONGYANG | 23 | 12 | 27 | 4 | 18 | -1.0 | 76 | -74 | SAMOA | PAGO PAGO | 29 | 24 | 31 | 21 | 27 | 0.0 | 230 | 66 | TAHITI | PAPEETE | 30 | 22 | 32 | 19 | 26 | 1.2 | 38 | -7 | |
| SEOUL | 26 | 17 | 30 | 11 | 22 | 1.4 | 55 | -87 | N ZEAL | AUCKLAND | 15 | 9 | 17 | 5 | 12 | -1.0 | 0 | -93 | WELLINGTON | 12 | 8 | 16 | 4 | 10 | *** | 23 | ** | | |
| SAPPORO | 21 | 14 | 26 | 10 | 18 | 0.6 | 57 | -81 | PA N G | PORT MORESBY | 30 | 23 | 33 | 20 | 26 | 0.0 | 8 | -30 | AUSTRAL | DARWIN | 31 | 24 | 34 | 22 | 28 | -0.2 | 32 | 14 | |
| NAGOYA | 26 | 19 | 34 | 13 | 23 | -0.5 | 296 | 84 | MORE | 20 | 8 | 28 | 5 | 14 | -1.6 | 58 | 24 | MORE | 20 | 8 | 28 | 5 | 14 | -1.6 | 58 | 24 | | | |
| TOKYO | 26 | 21 | 32 | 15 | 23 | 0.0 | 143 | -37 | BRISBANE | 22 | 13 | 27 | 8 | 18 | -0.7 | 55 | 22 | PERTH | 19 | 9 | 26 | 4 | 14 | -0.6 | 91 | 20 | | | |
| YOKOHAMA | 25 | 20 | 31 | 15 | 23 | 0.1 | 162 | -38 | CEDUNA | 20 | 7 | 32 | 0 | 14 | -1.1 | 19 | -9 | ADLAIDE | 18 | 8 | 27 | 4 | 13 | -0.5 | 64 | 8 | | | |
| KYOTO | 26 | 19 | 34 | 13 | 23 | -0.5 | 204 | -2 | MELBOURNE | 16 | 8 | 23 | 3 | 12 | -0.3 | 118 | 70 | WAGGA | 17 | 6 | 25 | 2 | 12 | 0.4 | 111 | 61 | | | |
| OSAKA | 27 | 21 | 32 | 15 | 24 | -0.5 | 235 | 71 | CANBERRA | 16 | 5 | 23 | 0 | 10 | 0.7 | 79 | 24 | INDONE | DJAKARTA | 34 | 22 | 35 | 19 | 28 | 0.4 | 36 | ** | | |
| PHETCHABUN | 32 | 24 | 34 | 22 | 28 | 0.6 | 142 | -136 | PHILIP | MANILA | 31 | 26 | 34 | 20 | 28 | 0.5 | 274 | -69 | | | | | | | | | | | |
| BANGKOK | 33 | 25 | 35 | 23 | 29 | 0.2 | 271 | -71 | | | | | | | | | | | | | | | | | | | | | |
| KUALA LUMPUR | 32 | 23 | 34 | 22 | 28 | 1.3 | 231 | 39 | | | | | | | | | | | | | | | | | | | | | |
| HANOI | 32 | 26 | 34 | 22 | 29 | 0.8 | 278 | 24 | | | | | | | | | | | | | | | | | | | | | |
| HARBIN | 21 | 9 | 29 | 2 | 15 | 0.6 | 51 | -7 | | | | | | | | | | | | | | | | | | | | | |
| HAMI | 28 | 8 | 35 | 2 | 18 | -0.4 | 0 | -4 | | | | | | | | | | | | | | | | | | | | | |
| LANCHOW | 23 | 11 | 31 | 8 | 17 | 1.2 | 35 | -10 | | | | | | | | | | | | | | | | | | | | | |
| BEIJING | 27 | 16 | 32 | 9 | 22 | 1.9 | 19 | -30 | | | | | | | | | | | | | | | | | | | | | |
| TIENTSIN | 27 | 15 | 33 | 7 | 21 | 0.3 | 36 | -4 | | | | | | | | | | | | | | | | | | | | | |
| LHASA | 19 | 8 | 23 | 6 | 13 | -0.5 | 148 | 88 | | | | | | | | | | | | | | | | | | | | | |
| KUNMING | 23 | 15 | 27 | 13 | 19 | 1.4 | 102 | -20 | | | | | | | | | | | | | | | | | | | | | |
| CHENGCHOW | 28 | 17 | 32 | 9 | 23 | 1.7 | 28 | -64 | | | | | | | | | | | | | | | | | | | | | |
| YEHCHANG | 28 | 20 | 32 | 16 | 24 | 0.6 | 166 | 46 | | | | | | | | | | | | | | | | | | | | | |
| HANKOW | 28 | 20 | 34 | 13 | 24 | 1.0 | 205 | 117 | | | | | | | | | | | | | | | | | | | | | |
| CHUNGKING | 27 | 21 | 33 | 16 | 24 | *** | 148 | ** | | | | | | | | | | | | | | | | | | | | | |
| CHIHKIANG | 29 | 20 | 33 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | |

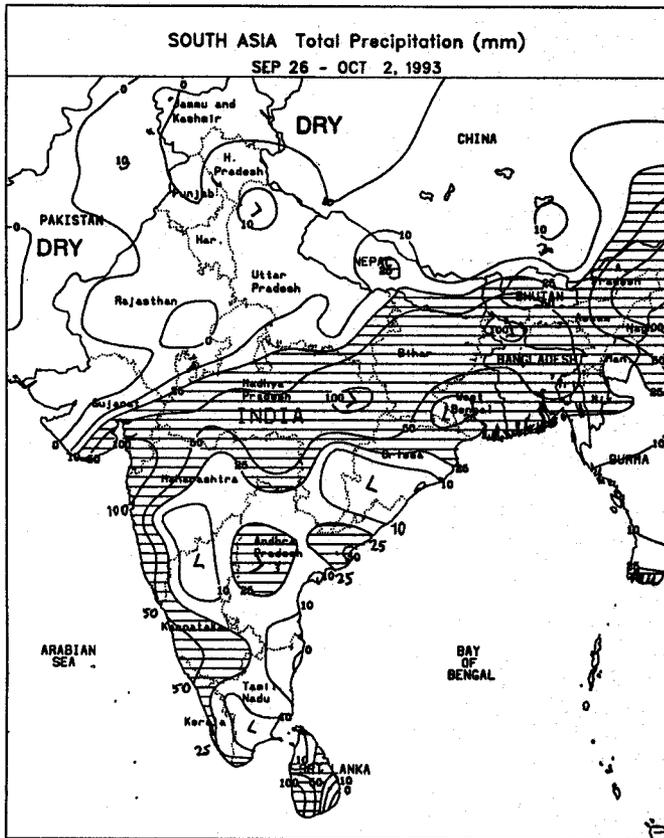


FSU-WESTERN: An early-week storm system crossed the north, ushering in unseasonably cold air (weekly average temperatures 3-7 degrees Celsius (C) below-normal). Rain turned to snow showers by mid-week. Greatest amounts of moisture (10-25 mm with local amounts in excess of 30 mm) covered northwestern Ukraine, eastern Belarus, and Russia. The cold, damp weather over Russia delayed potato, sugar beet, and sunflower harvests as well as planting of 1994 winter grain crops. As of September 27, reports indicated the spring grain harvest was 71 percent complete, compared with 81 percent last year. In addition, potato harvest was about 50 percent complete while the sugar beet harvest was about 30 percent complete. Usually, potato harvesting is nearing completion by the end of September, while sugar beet harvesting extends through October. In Ukraine, dry weather in southern and eastern areas helped corn harvesting and winter grain planting. Moisture conditions were adequate in most areas for germination except in the extreme south where topsoil moisture was unfavorably low.

EASTERN ASIA: Mostly dry weather continued across the North China Plain and southern Manchuria, favoring corn, soybean, and cotton maturation and harvesting. Moderate showers across northern Manchuria (Heilongjiang) slowed early harvest progress. Across the Manchurian crop areas, minimum temperatures ranged from -1 to -5 degrees C across the north and 4 to -1 degrees C across the south, producing the first frost of the season. The first frost usually occurs near September 25 in the north and near October 10 in the south. Early in the week, Typhoon Dot made landfall in Guangdong, approximately 75-100 miles west of Hong Kong, with sustained winds of 85-95 mph. The storm spawned heavy showers (50-200 mm) across most of Guangdong and caused local damage to sugarcane and late double-crop rice. The rest of southern China received moderate rain (20-55 mm), slowing summer crop harvesting. Temperatures averaged 1-2 degrees C below normal in northern and southern China and near normal elsewhere. Southern Japan received moderate to heavy rain (30-100 mm), slowing rice harvesting, while South Korea enjoyed drier weather.

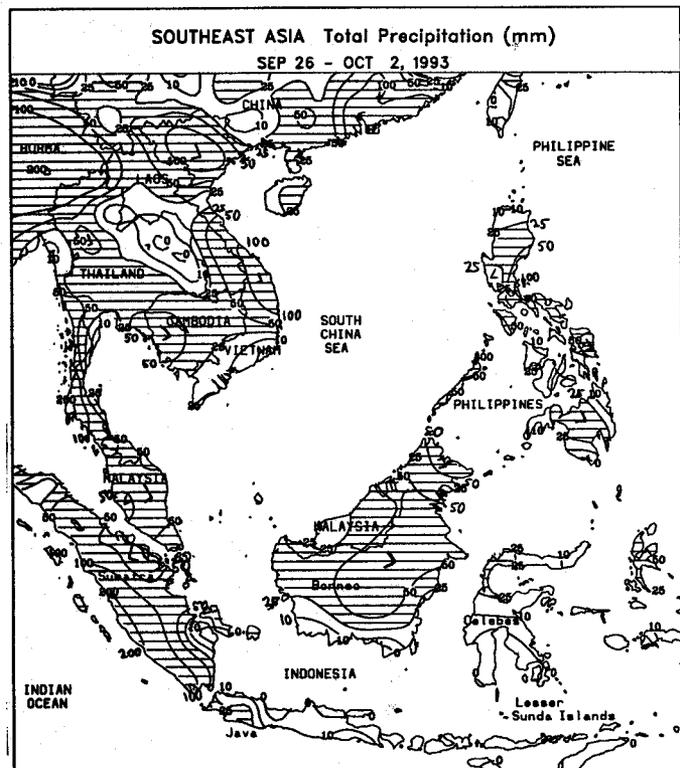


FSU-NEW LANDS: Wintry weather slowed spring grain harvesting in the Urals, Western Siberia, and Kazakhstan. Although precipitation amounts around 10 mm were less than last week, the weather continued cold and damp, slowing grain maturation and hampering harvest. Rain during the day turned to snow at night, with snow reported as far south as central Kazakhstan. Weekly average temperatures were 1-5 degrees C below normal over the region with extreme minimum temperatures ranging from -1 to -3 degrees C in the Urals, and -3 to -7 degrees C in West Siberia and Kazakhstan. The persistent cold, damp weather over the region has prompted concerns about whether the spring grain harvest will reach completion. In cotton areas of central Asia, warm, dry weather favored rapid cotton harvesting.

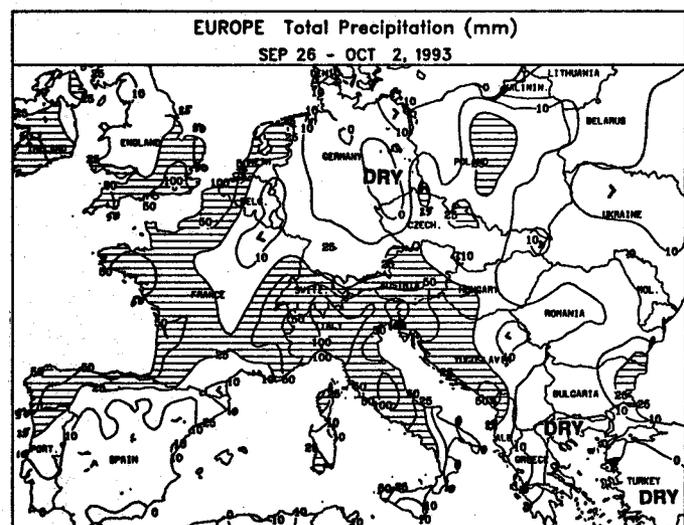


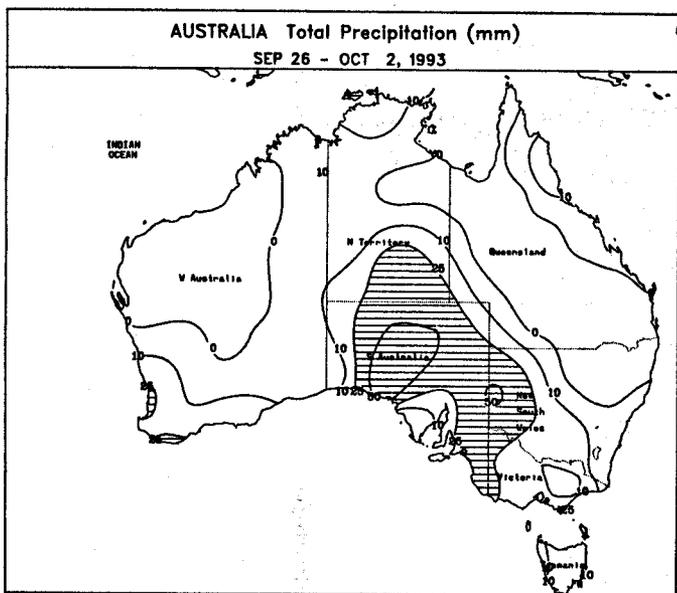
SOUTH ASIA: A swath of moderate to heavy showers (50-125 mm) cut across central and eastern India, helping late developing summer crops. The continuing heavy rains in winter wheat and rice areas from Bihar eastward improved planting moisture. In contrast, warm, dry weather continued from Uttar Pradesh to Pakistan, and returned to primary summer crop areas of Rajasthan to Gujarat. The drier and warmer weather of recent weeks in Pakistan and northern India has been favorable for maturing cotton. Light to moderate showers (5-43 mm) in southern India benefited fall crop establishment. Rainfall diminished from the previous week (10 mm or less) in southwest Maharashtra and northern Karnataka, where the devastating earthquake disrupted regional infrastructure. Agriculture is diverse in this section of India, but the most frequently grown crops in the affected area include sugarcane, sunflower, sorghum, and rabi (fall planted) groundnuts. These crops are mostly in late growth stages at the present time.

EUROPE: Wet weather hampered corn and sugar beet harvesting, with heavy rain (50-100 mm or more) drenching all but extreme southern Italy. This was the second consecutive week of heavy rain in Italy's Po Valley. Rainfall averaged 25-80 mm in western and southeastern France, southern England and northwestern Spain, slowing fieldwork. Dry weather prevailed over much of Germany, with mostly light showers (10 mm or less) in the far west and south causing few delays in sugar beet harvesting or early winter grain planting. However, some of the moisture from the intense western storms reached into northeastern Europe, with 20-48 mm in central Poland benefiting winter crop establishment. Rainfall generally averaged 5-20 mm over the remainder of eastern Europe, slowing corn harvesting slightly in Romania, but adding topsoil moisture for winter crop planting. Mostly dry weather continued in Greece and much of Bulgaria. Wet weather delayed fieldwork along the Adriatic region of the former Yugoslavia. Lowest minimum temperatures fell 1 to 6 degrees C below freezing in eastern Poland. Temperatures generally averaged 1-5 degrees C below normal across Europe, except in the southeast, where near-normal temperatures prevailed.

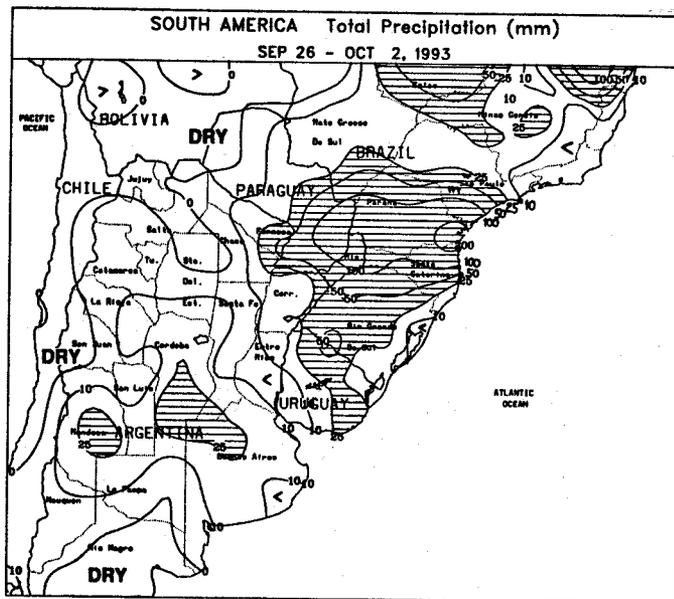


SOUTHEAST ASIA: Moderate to heavy showers (25-50 mm or more, with locations receiving more than 100 mm) continued over Thailand's northern and central rice areas, boosting irrigation levels for dry-season crops. Heavy showers (50-179 mm) also fell in sections of northern and central Vietnam. In contrast, dry weather (25 mm or less) developed over eastern Thailand and along the Mekong River. The recent continuation of heavy rain in Thailand is helping to build reservoir levels following this summer's drier- and warmer-than-normal weather. However, rainfall typically drops off drastically in October, leaving little time to gain needed moisture. Further south, moderate to heavy showers (25-30 mm) continued over the Malay peninsula, with flooding from inundating rain (100-300 mm or more) likely in southernmost Thailand. In the Philippines, moderate to heavy showers (25-115 mm) covered major crop areas in Mindanao and Luzon, helping immature grains and sugarcane and increasing topsoil moisture for fall plantings. Typhoon Flo was approaching Luzon at week's end.





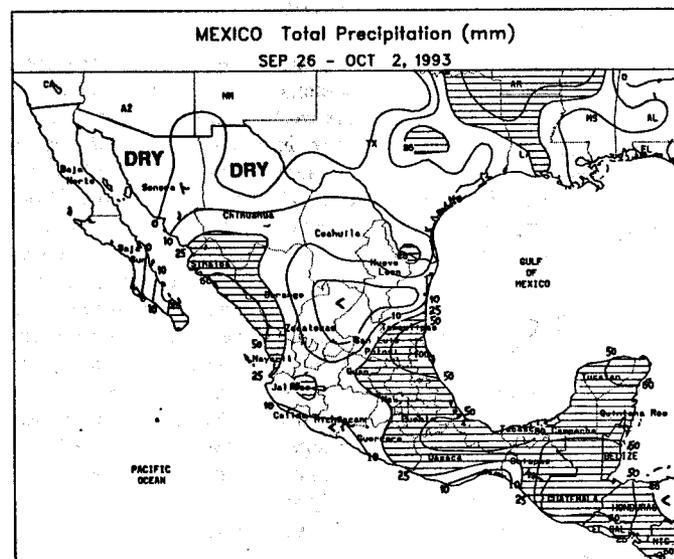
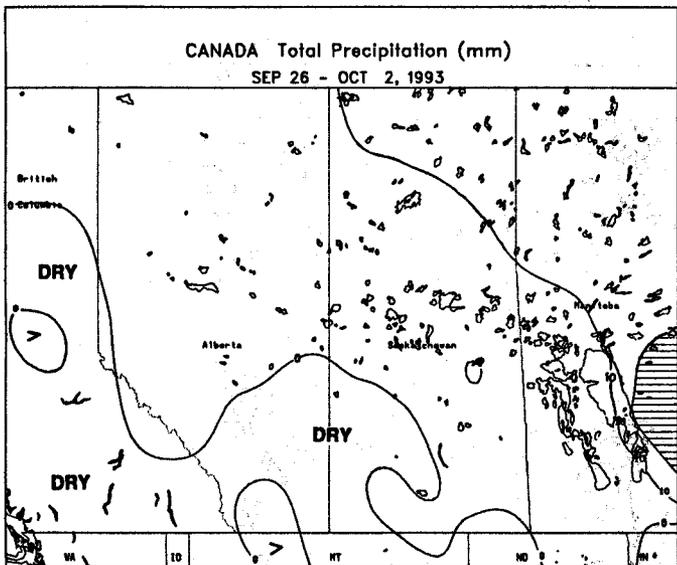
AUSTRALIA: Widespread moderate rains (20-60 mm) covered most of southern New South Wales, South Australia, and Victoria, benefiting vegetative to reproductive winter wheat. Dry, warm weather prevailed across southern Queensland and northern New South Wales, where reproductive wheat still needs rain. The western wheat areas received 5-20 mm, keeping soils moist for winter grains. Temperatures averaged 2-4 degrees C above normal across the eastern and southern wheat regions and 1-3 degrees C below normal in the west.



SOUTH AMERICA: In southern Brazil, widespread showers (30-100 mm, with isolated amounts greater than 200 mm) continued across Rio Grande do Sul, Santa Catarina, and Parana, raising soil moisture levels but delaying wheat harvesting and summer crop planting. Moderate showers (20-60 mm) favored germinating soybeans across Mato Grosso do Sul and Goias. In Argentina, widespread light to moderate rain (10-50 mm) covered most of central Argentina, favoring vegetative and early reproductive winter wheat. Minimum temperatures ranged from 1 to -1 degrees C across southeastern Buenos Aires, most of La Pampa and extreme southern Cordoba, burning back vegetative wheat. Temperatures averaged 2-4 degrees C below normal across Argentina and extreme southern Brazil, while the rest of southern Brazil averaged near normal.

CANADA: Dry weather across the Prairies favored harvests of spring grain and oilseeds. Temperatures averaged 2-4 degrees C below normal in eastern Saskatchewan and Manitoba and near normal elsewhere, with sub-freezing temperatures reported at nearly all locations. Lowest temperatures (-7 to -10 degrees C) occurred in Manitoba and parts of Saskatchewan, with the Red River Valley reporting its first hard freeze. As of last week, crops were over 30 percent harvested, about 2-4 weeks away from completion. In Ontario, a hard freeze hit many corn and soybean areas, but damage was likely limited as most crops were maturing. Precipitation, most of which occurred before the freeze, totalled 25-35 mm in most crop areas, soaking standing crops and slowing harvests.

MEXICO: Widespread moderate showers (30-100 mm) covered the Yucatan peninsula and southeastern Mexico, favoring vegetative corn. East-central Mexico (northern Veracruz and eastern San Luis Potosi) received additional moderate to heavy rains (40-125 mm), possibly causing additional flooding. The Southern Plateau Corn Belt received light to moderate rain (10-30 mm), aiding late-filling corn. Typically, corn harvesting ranges from October to December across the main corn belt. Moderate to heavy showers (30-80 mm) delayed vegetable planting across the northwest coast.



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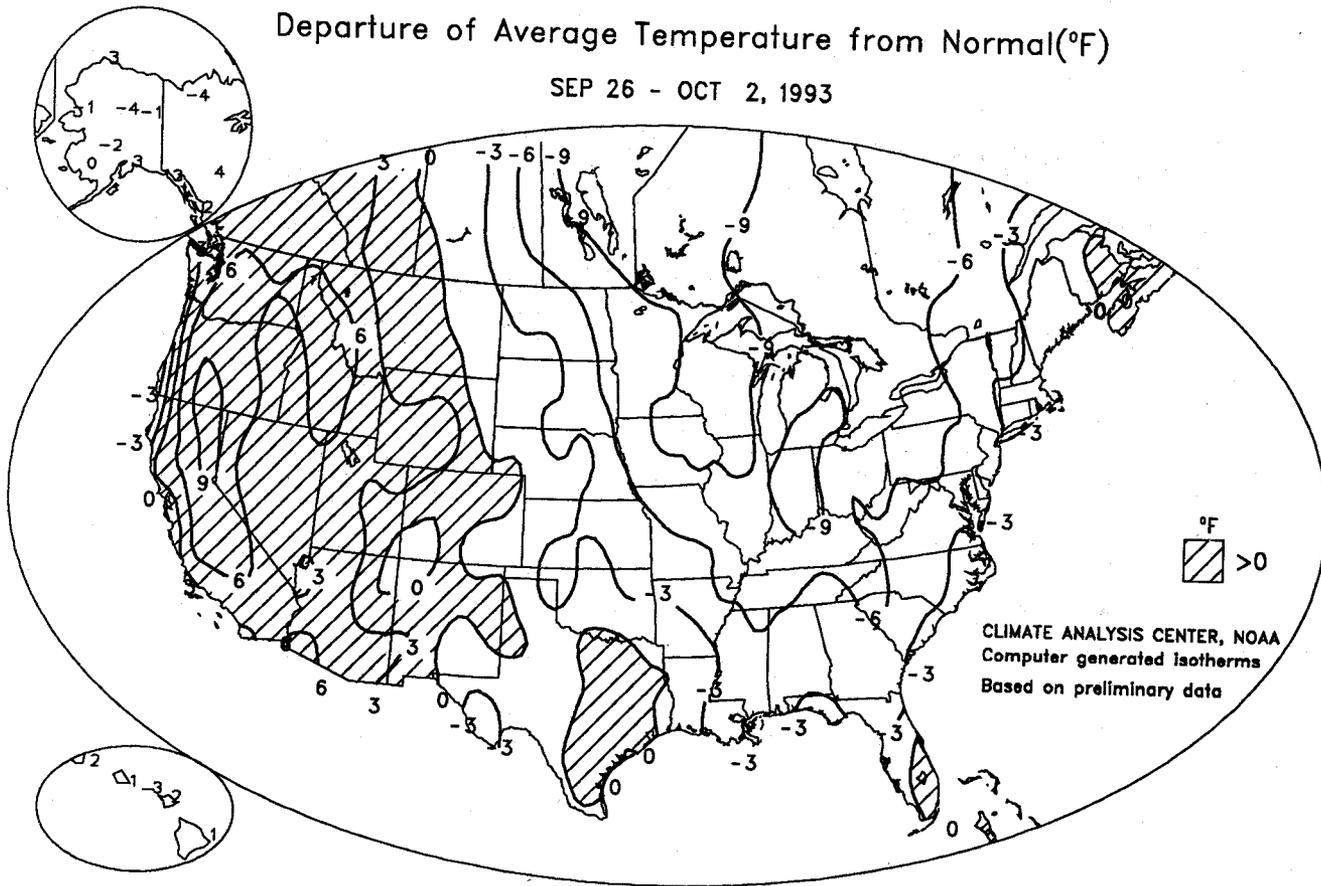
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Departure of Average Temperature from Normal(°F)

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