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NEBRASKA WEATHER & CROPS

NEBRASKA
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STATISTICS
SERVICE

For Week Ending August 25, 1991

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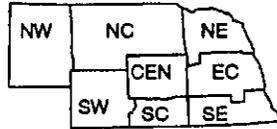
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National Weather Service



Nebraska Department of Agriculture
Division of Agr'l Statistics
Cooperative Extension Service
Institute of Agriculture
and Natural Resources--UNL

WEATHER

Temperatures averaged from four to seven degrees above normals. Precipitation occurred midweek with amounts ranging from none in the northern half of the State up to .74 inch in the central portion. Scattered reports of 1.00 inch occurred in the southeast.

GENERAL

Nebraska farmers and ranchers experienced a week of hot temperatures and very limited rainfall, according to the Nebraska Agricultural Statistics Service. Irrigation systems remained active with some producers giving their corn the last irrigation water for the season. All dryland crops continued to experience severe stress from the hot, dry conditions and are seeing their yield potential continually decreased with the current weather conditions. Other farm activities included alfalfa cutting, fall seeding preparations, harvest equipment readiness activities, silage harvesting, and limited dry bean harvesting.

CROPS

All corn condition was rated at 2% very poor, 10% poor, 20% fair, 60% good, and 8% excellent. Dryland corn was rated at 26% good or better while 87% of the irrigated corn was in good or better condition. Harvesting of irrigated corn for silage has begun while some dryland corn continues to be cut for silage in an attempt to salvage some

CROPS (Cont.)

value from the deteriorated crop. Overall, crop development continued ahead of normal as the hot, dry weather hastens maturity and dry down.

Soybean condition was rated at 1% very poor, 12% poor, 51% fair, 33% good, and 3% excellent. Dryland soybeans were losing yield potential in several areas due to the lack of rainfall. Weed control continued.

Sorghum condition was rated at 6% very poor, 32% poor, 31% fair, 30% good, and 1% excellent. Warmer temperatures this past week brought headed sorghum into coloring well ahead of normal. Reports indicate that sorghum not headed out is not expected to head due to the lack of rainfall.

Alfalfa was rated at 4% very poor, 30% poor, 36% fair, 29% good, and 1% excellent. Third cutting activities progressed well last week and were ahead of last year and average at week's end. The hot, dry weather has reduced the third cutting output.

LIVESTOCK

Pasture and range condition was rated at 70% of normal. Although the Northwest and Southwest Districts continue to have a good grass supply, the eastern third of the State is continually finding more producers needing to supplement hay to cattle on deteriorating pastures. Many pastures have turned brown and need moisture to obtain new growth and grazing potential.

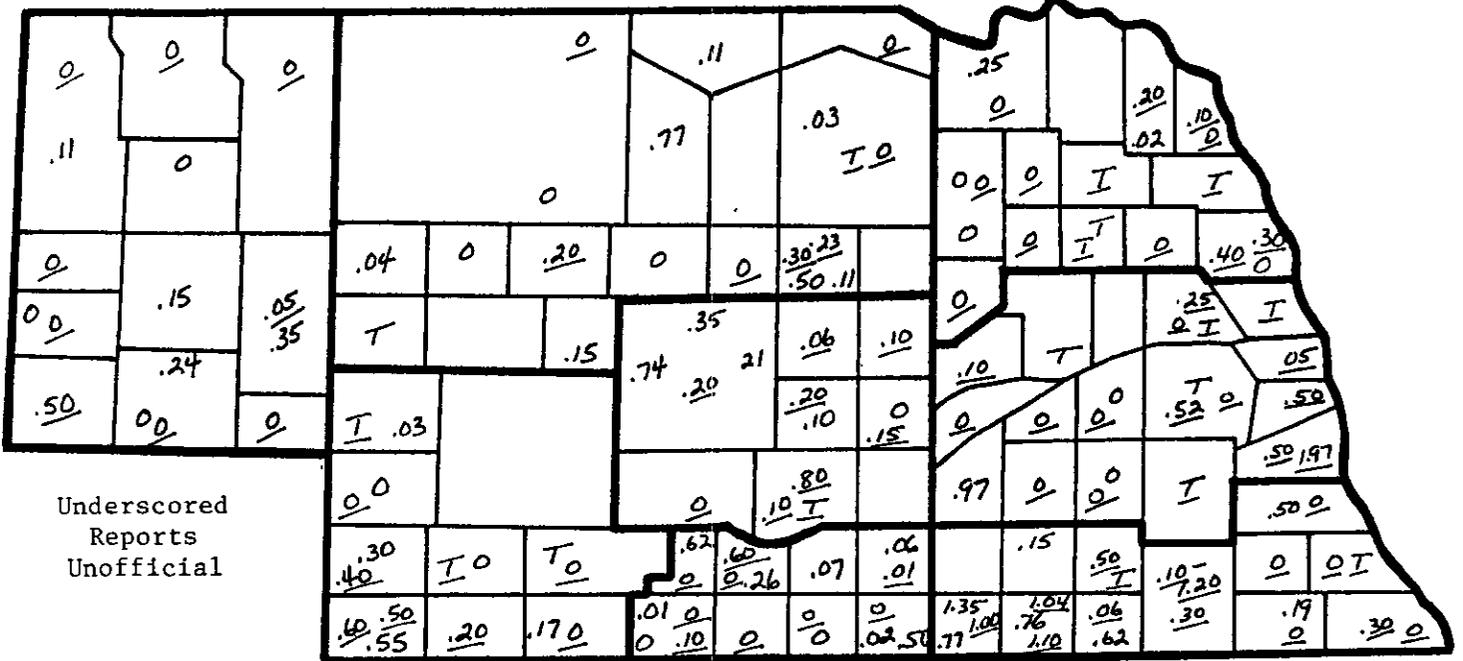
| FIELD WORK PROGRESS AS OF AUGUST 25, 1991 | AGRICULTURAL STATISTICS DISTRICTS | | | | | | | | STATE | LAST WEEK | LAST YEAR | AVER- AGE |
|--|-----------------------------------|----|----|----|----|-----|-----|-----|-------|--------------|--------------|--------------|
| | NW | NC | NE | C | EC | SW | SC | SE | | | | |
| % corn dough stage | 84 | 89 | 97 | 98 | 97 | 100 | 98 | 100 | 97 | 86 | 81 | 90 |
| % corn dented | 19 | 53 | 56 | 53 | 69 | 60 | 56 | 92 | 61 | 35 | 23 | 45 |
| % corn mature | 0 | 0 | 4 | 3 | 6 | 0 | 0 | 18 | 4 | 0 | 0 | 3 |
| % sorghum headed | 99 | 98 | 96 | 97 | 96 | 100 | 86 | 90 | 92 | 88 | 89 | 95 |
| % sorghum turning color | 0 | 39 | 26 | 17 | 52 | 29 | 32 | 55 | 47 | 21 | 14 | 36 |
| % sorghum mature | 0 | 0 | 0 | 2 | 6 | 2 | 0 | 3 | 3 | 0 | 0 | 1 |
| % soybeans setting pods | 0 | 95 | 96 | 99 | 95 | 100 | 100 | 100 | 97 | 89 | 87 | 95 |
| % soybeans turning color | 0 | 1 | 6 | 15 | 9 | 8 | 8 | 17 | 10 | 0 | 4 | 8 |
| % alfalfa third cutting | 40 | 67 | 71 | 91 | 71 | 97 | 80 | 76 | 73 | 46 | 71 | 64 |
| DAYS SUITABLE AND SOIL MOISTURE CONDITION AS OF AUGUST 23, 1991 | | | | | | | | | | | | |
| Days suitable | 68 | 67 | 67 | 67 | 67 | 68 | 69 | 67 | 67 | 61 | 60 | |
| Topsoil moisture - Short | 89 | 91 | 94 | 89 | 87 | 100 | 77 | 100 | 91 | 79 | 39 | |
| (Percent) - Adequate | 11 | 9 | 6 | 11 | 13 | 0 | 23 | 0 | 9 | 21 | 55 | |
| - Surplus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | |
| Subsoil moisture - Short | 44 | 73 | 78 | 89 | 71 | 78 | 85 | 100 | 78 | 73 | 41 | |
| (Percent) - Adequate | 56 | 27 | 22 | 11 | 29 | 22 | 15 | 0 | 22 | 27 | 57 | |
| - Surplus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | |

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PRECIPITATION MAP FOR WEEK ENDING FRIDAY, AUGUST 23, 1991



Precipitation, April 1 - August 23, 1991

| | NW | NC | NE | CEN | EC | SW | SC | SE |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Total past week | .12 | .16 | .05 | .28 | .19 | .15 | .17 | .62 |
| Total since April 1 | 12.41 | 12.98 | 14.95 | 13.19 | 17.75 | 13.66 | 15.11 | 13.68 |
| Normal since April 1 | 11.43 | 13.96 | 16.02 | 15.06 | 17.04 | 12.76 | 15.16 | 17.75 |
| Total as % of normal | 109% | 93% | 93% | 88% | 104% | 107% | 100% | 77% |

TEMPERATURE, PRECIPITATION, AND GROWING DEGREE DAY DATA,
WEEK ENDING SUNDAY, AUGUST 25, 1991

| Station | Temperature | | | | Precipitation | Growing Degree Data Since April 15 | | |
|------------------|-------------|-----|------|-----------|-----------------|------------------------------------|---------|--------|
| | Extremes | | Mean | Departure | Total Inches 1/ | Last Week | Current | Normal |
| | Max | Min | | | | | | |
| NW Chadron | 103 | 57 | 79 | --- | 0 | --- | --- | --- |
| Scottsbluff | 101 | 52 | 76 | +6 | 0 | 1975 | 2121 | 2171 |
| Sidney | --- | --- | --- | --- | --- | 1915 | 2065 | 2125 |
| NC Valentine | 103 | 56 | 78 | +7 | 0 | 2073 | 2231 | 2204 |
| NE Norfolk | 99 | 51 | 77 | +5 | 0 | --- | --- | --- |
| Sioux City | 96 | 56 | 76 | +4 | T | --- | --- | --- |
| Concord | --- | --- | --- | --- | --- | 2209 | 2374 | 2459 |
| Elgin | --- | --- | --- | --- | --- | 2231 | 2398 | 2399 |
| West Point* | --- | --- | --- | --- | --- | 2343 | 2505 | 2513 |
| CEN Grand Island | 100 | 52 | 78 | +5 | .36 | 2366 | 2543 | 2503 |
| Ord | 100 | 49 | 75 | --- | 0 | 2262 | 2422 | 2471 |
| EC Lincoln | 101 | 53 | 78 | +4 | .01 | 2549 | 2723 | 2597 |
| Omaha | 94 | 58 | 76 | +4 | .05 | 2500 | 2671 | 2503 |
| Columbus | --- | --- | --- | --- | --- | 2489 | 2659 | 2552 |
| York | --- | --- | --- | --- | --- | 2449 | 2618 | 2615 |
| SW Imperial | 97 | 57 | 76 | --- | .12 | --- | --- | --- |
| North Platte | 99 | 54 | 77 | +6 | .24 | **2102 | **2259 | **2347 |
| SC Holdrege | --- | --- | --- | --- | --- | 2307 | 2467 | 2546 |
| SE Beatrice | --- | --- | --- | --- | --- | 2524 | 2688 | 2717 |
| Clay Center | --- | --- | --- | --- | --- | 2376 | 2538 | 2590 |

1/ Precipitation totals not included in map above. * Automated weather station. ** North Platte Experiment Station.

Growing Degree Days (GDD) are used to measure the length of time required for a crop to reach maturity. The formula used to calculate GDD is: Max. temp. + min. temp. divided by 2 minus 50 = GDD. For example, if the average temperature for a day = 70 degrees, the GDD = 20 for that day. GDD are calculated for each day and accumulated from April 15.

Growing Degree Day data is furnished by the Department of Agricultural Meteorology, Institute of Agriculture and Natural Resources, The University of Nebraska-Lincoln.