

NEBRASKA WEATHER & CROPS

Run
1900
9-27-93

NEBRASKA
AGRICULTURAL
STATISTICS
SERVICE

For Week Ending September 26, 1993

Issue: 30-93

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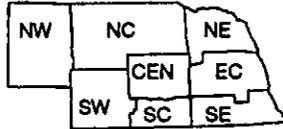
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and U.S. Department of Commerce
National Oceanic and Atmospheric Admn.
National Weather Service



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

WEATHER

Temperatures for the week averaged three to five degrees below normals across the State. Scattered precipitation occurred throughout the week with rainfall totals of one inch or less in the western part of the State to between an inch and a half and three inches across the southeast.

GENERAL

Wet field conditions last week limited fieldwork activities, but benefitted some pastures, according to the Nebraska Agricultural Statistics Service. Fieldwork activities that were able to be performed included corn silage harvest, wheat seeding and reseeding, hay harvest, and seed corn harvest. Other activities included weed control, pre-harvest preparations, and moving hay for winter feeding. The extent of damage caused by the frost of two weeks ago was still being assessed by producers. Producers in areas where a killing frost has not yet occurred remain hopeful for additional heat units for their fall maturing crops.

CROPS

All corn condition was rated at 1% very poor, 5% poor, 30% fair, 61% good, and 3% excellent. Dryland fields were rated at 69% good or excellent. Irrigated fields were rated at 61% good or excellent. As of Sunday, 34% of the crop had reached maturity, over two weeks behind the five-year average of 76%. Silage harvest continued and seed corn harvest continued where surface and weather conditions permitted.

CROPS (Cont.)

Soybean condition was rated at 1% poor, 33% fair, 64% good, and 2% excellent. By week's end, 51% of the crop had dropped their leaves; in some cases, the maturity process was accelerated by the previous frost. Currently, the crop was one week behind the five-year average of 76%.

Sorghum condition was rated at 10% poor, 47% fair, and 43% good. The crop remained well behind normal with 20% mature to date. The full extent of frost damage was still unknown.

Dry bean condition was rated at 10% very poor, 24% poor, 28% fair, 35% good, and 3% excellent. Dry bean harvest progressed to 40% complete. Mold, rust, and other wet weather problems continue to affect quality and quantity of beans taken from affected fields.

Wheat seeding progressed to 70% sown as of Sunday. This compares with 82% last year and 73% for the five-year average. Weather conditions brought delays to some producers in their efforts in seeding and reseeding fields.

Alfalfa condition was rated at 23% fair, 68% good, and 9% excellent. Third cutting activities were nearing completion with fourth cutting activities rated at 28% complete.

LIVESTOCK

Pasture and range condition was rated at 102% of normal and compares with 97% of normal last year at this time. Pastures continued to provide more than adequate forage in most areas.

| FIELD WORK PROGRESS AS OF SEPTEMBER 26, 1993 | AGRICULTURAL STATISTICS DISTRICTS | | | | | | | | STATE | LAST WEEK | LAST YEAR | AVER- AGE |
|--|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|-------|--------------|--------------|--------------|
| | NW | NC | NE | C | EC | SW | SC | SE | | | | |
| % corn dented | 66 | 91 | 93 | 94 | 97 | 98 | 100 | 100 | 95 | 91 | 94 | 98 |
| % corn mature | 6 | 18 | 23 | 48 | 34 | 25 | 42 | 50 | 34 | 16 | 38 | 76 |
| % corn harvested | 0 | 0 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 0 | 2 | 12 |
| % sorghum turning color | 0 | 80 | 99 | 87 | 89 | 92 | 95 | 81 | 85 | 74 | 83 | 94 |
| % sorghum mature | 0 | 12 | 29 | 27 | 28 | 20 | 11 | 19 | 20 | 5 | 15 | 65 |
| % soybeans turning color | 0 | 96 | 96 | 96 | 88 | 99 | 99 | 89 | 92 | 67 | 93 | 96 |
| % soybeans dropping leaves | 0 | 42 | 50 | 73 | 49 | 71 | 49 | 50 | 51 | 23 | 57 | 76 |
| % dry beans dropping leaves | 100 | 98 | 100 | 100 | 0 | 100 | 100 | 0 | 100 | 87 | n/a | n/a |
| % dry beans harvested | 30 | 41 | 49 | 15 | 0 | 70 | 100 | 0 | 40 | 31 | n/a | n/a |
| % alfalfa third cutting | 81 | 94 | 97 | 95 | 94 | 100 | 100 | 91 | 94 | 88 | 100 | n/a |
| % alfalfa fourth cutting | 6 | 34 | 24 | 39 | 21 | 34 | 37 | 52 | 28 | 15 | 31 | n/a |
| % wheat sown | 93 | 100 | 73 | 85 | 63 | 67 | 63 | 27 | 70 | 47 | 82 | 73 |
| DAYS SUITABLE AND SOIL MOISTURE CONDITION AS OF SEPTEMBER 24, 1993 | | | | | | | | | | | | |
| Days suitable | 4.3 | 4.0 | 2.6 | 4.0 | 2.0 | 3.6 | 2.8 | 0.5 | 2.6 | 5.8 | 6.8 | |
| Topsoil moisture - Short | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 27 | |
| (Percent) - Adequate | 57 | 71 | 60 | 78 | 33 | 75 | 45 | 26 | 50 | 89 | 71 | |
| - Surplus | 43 | 29 | 40 | 22 | 67 | 25 | 55 | 74 | 50 | 3 | 2 | |
| Subsoil moisture - Short | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 | |
| (Percent) - Adequate | 100 | 86 | 73 | 78 | 67 | 87 | 54 | 63 | 72 | 87 | 89 | |
| - Surplus | 0 | 14 | 27 | 22 | 33 | 13 | 46 | 37 | 28 | 10 | 5 | |

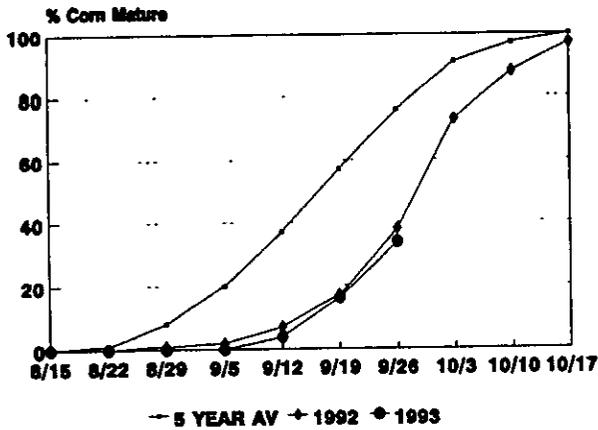
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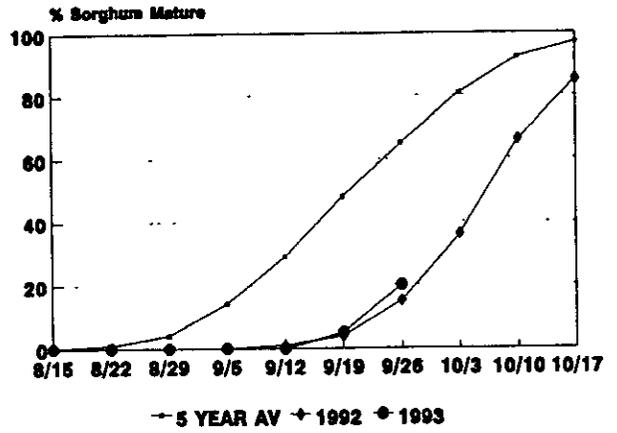
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CORN MATURE



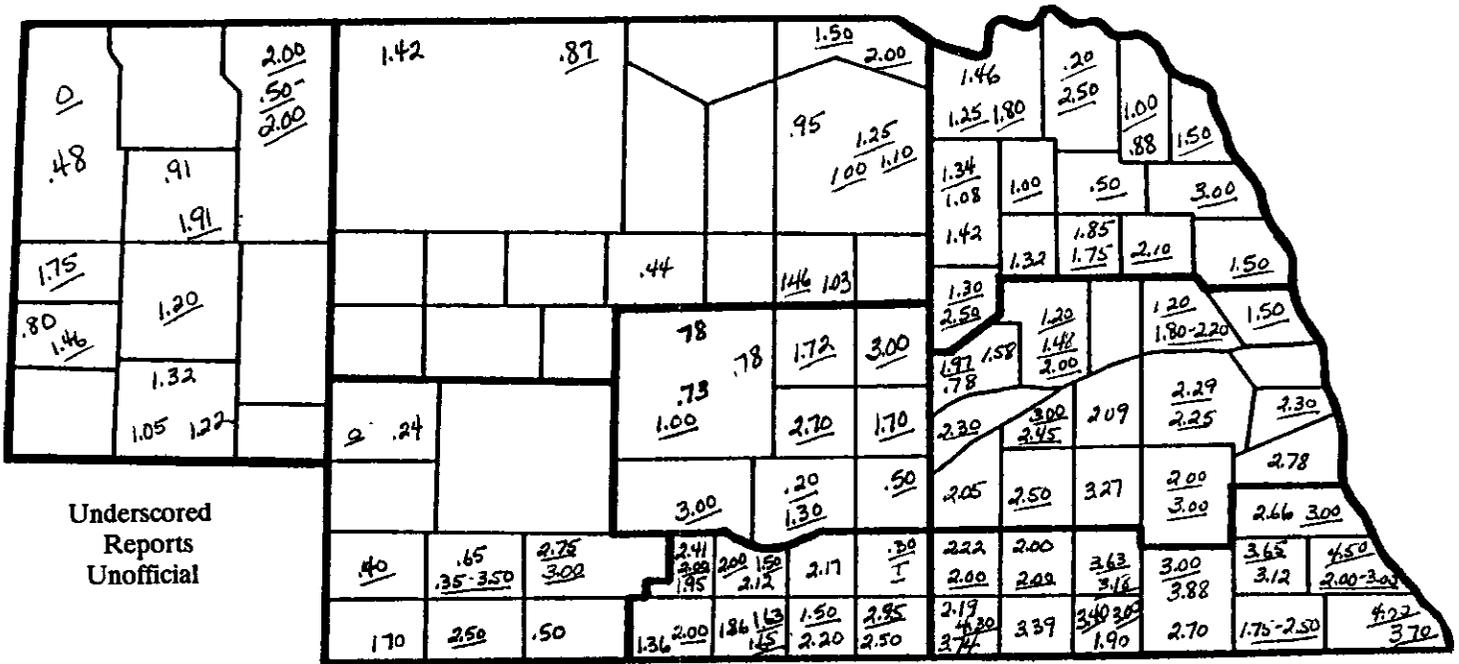
SORGHUM MATURE



Progress as of Sunday

Progress as of Sunday

PRECIPITATION MAP FOR WEEK ENDING FRIDAY, SEPTEMBER 24, 1993



PRECIPITATION, APRIL 1 - SEPTEMBER 24, 1993

| | NW | NC | NE | CEN | EC | SW | SC | SE |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Total past week | .96 | .96 | 1.34 | .76 | 2.09 | .77 | 2.07 | 2.78 |
| Total since April 1 | 14.59 | 22.38 | 28.66 | 25.97 | 33.10 | 20.66 | 30.75 | 36.07 |
| Normal since April 1 | 12.89 | 16.04 | 18.74 | 17.49 | 20.40 | 14.61 | 17.88 | 21.61 |
| Total as % of normal | 113% | 140% | 153% | 148% | 162% | 141% | 172% | 167% |

TEMPERATURE, PRECIPITATION, AND GROWING DEGREE DAY DATA, WEEK ENDING SUNDAY, SEPTEMBER 26, 1993

| Station | Temperature | | | | Precipitation Total Inches 1/ | Growing Degree Data Since April 15 | | | |
|---------|--------------|-----|------|-----------|----------------------------------|---------------------------------------|---------|--------|--------|
| | Extremes | | Mean | Departure | | Last Week | Current | Normal | |
| | Max | Min | | | | | | | |
| NW | Chadron | 74 | 39 | 55 | --- | --- | --- | --- | |
| | Scottsbluff | 84 | 39 | 55 | -4 | .03 | 2172 | 2234 | 2447 |
| | Sidney | 88 | 41 | 56 | --- | 0 | --- | --- | --- |
| NC | Valentine | 78 | 39 | 56 | -2 | 0 | --- | --- | --- |
| NE | Norfolk | 82 | 42 | 57 | -3 | .77 | --- | --- | --- |
| | Sioux City | 77 | 40 | 58 | -3 | .01 | --- | --- | --- |
| | Concord | --- | --- | --- | --- | --- | 2373 | 2429 | 2830 |
| | Elgin | --- | --- | --- | --- | --- | 2344 | 2397 | 2769 |
| | West Point* | --- | --- | --- | --- | --- | 2548 | 2604 | 2908 |
| CEN | Grand Island | 85 | 44 | 58 | -3 | .36 | --- | --- | --- |
| | Ord | 85 | 39 | 59 | --- | 0 | 2407 | 2474 | 2776 |
| EC | Lincoln | 80 | 47 | 58 | -5 | 1.48 | --- | --- | --- |
| | Omaha | 76 | 46 | 57 | -5 | 1.61 | --- | --- | --- |
| SW | Imperial | 88 | 38 | 57 | --- | .03 | --- | --- | --- |
| | North Platte | 88 | 38 | 56 | -3 | T | **2288 | **2359 | **2723 |
| SC | Holdrege | --- | --- | --- | --- | --- | 2593 | 2663 | 2966 |
| SE | Beatrice | --- | --- | --- | --- | --- | 2794 | 2862 | 3081 |
| | Clay Center | --- | --- | --- | --- | --- | 2630 | 2700 | 3031 |

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.