

NOUS43 KMKX 062338
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PUBLIC INFORMATION STATEMENT
NATIONAL WEATHER SERVICE MILWAUKEE/SULLIVAN WI
638 PM THU SEP 6 2007

...DROUGHT INFORMATION STATEMENT FOR SOUTHERN WISCONSIN...

...DROUGHT CONDITIONS HAVE ENDED ACROSS SOUTHERN WISCONSIN...

.SYNOPSIS...NUMEROUS LOW PRESSURE SYSTEMS...AND THEIR ASSOCIATED WARM FRONTS...MOVED ACROSS SOUTHERN WISCONSIN OVER THE PAST FOUR WEEKS. THESE SYSTEMS BROUGHT HEAVY RAINFALL...AND SOME AREAL AND RIVER FLOODING...ACROSS SOUTHERN WISCONSIN DURING THIS TIME. THE HEAVY RAINFALL WAS SUFFICIENT TO END SHORT TERM AND LONG TERM DROUGHT CONDITIONS ACROSS THE AREA.

.LOCAL AREA AFFECTED...0 OF 20 COUNTIES WITHIN THE NATIONAL WEATHER SERVICE MILWAUKEE/SULLIVAN COUNTY WARNING AREA AREA WERE AFFECTED BY ANY DROUGHT CLASSIFICATION.

.STATE AND LOCAL ACTIONS...NO KNOWN STATE OR LOCAL ACTIONS RELATED TO DROUGHT CONDITIONS WERE KNOWN AT THIS TIME ACROSS SOUTHERN WISCONSIN.

.CLIMATE SUMMARY...SHORT TERM PRECIPITATION SURPLUSES...SINCE AUGUST 7...WERE GENERALLY 4.00 TO 8.00 INCHES ACROSS SOUTHERN WISCONSIN. THE HIGHEST SURPLUSES WERE FOUND ACROSS WESTERN DANE AND IOWA COUNTIES...OVER 8.00 INCHES IN SPOTS. THE LOWEST SURPLUSES OF 2.00 TO 4.00 INCHES WERE FOUND ACROSS NORTHERN PORTIONS OF FOND DU LAC AND SHEBOYGAN COUNTIES.

LONG TERM SURPLUSES...SINCE JUNE 8 2007...WERE GENERALLY BETWEEN 2.00 AND 6.00 INCHES ACROSS SOUTHERN WISCONSIN. THE HIGHEST SURPLUSES...OVER 6.00 INCHES...WERE FOUND ACROSS DANE AND IOWA COUNTIES...AND LOCATIONS NEAR THE WISCONSIN AND ILLINOIS BORDER. THE LOWEST SURPLUSES OF UP TO 2.00 INCHES WERE FOUND ACROSS NORTHERN PORTIONS OF MARQUETTE...GREEN LAKE...FOND DU LAC AND SHEBOYGAN COUNTIES.

NOTE THAT THE ABOVE ARE GENERALIZED RANGES OF SURPLUSES...AND ACTUAL VALUES AT ANY ONE LOCATION MAY HAVE HIGHER OR LOWER VALUES.

PRECIPITATION AMOUNTS AT VARIOUS LOCATIONS ACROSS SOUTHERN WISCONSIN...

| CITY | COUNTY | AUG 3-SEP 4 | SINCE JUN 1 | DEFICIT/ SURPLUS |
|--------------|-------------|-------------|-------------|---------------------|
| NWS SULLIVAN | JEFFERSON | 12.78 | 19.70 | - |
| MILWAUKEE | MILWAUKEE | 7.92 | 12.96 | 1.79 |
| MADISON | DANE | 15.18 | 22.69 | 10.38 |
| FOND DU LAC | FOND DU LAC | 5.23 | 11.76 | - |
| SHEBOYGAN | SHEBOYGAN | 3.86 | 7.51 | - |
| RACINE | RACINE | 11.01 | 17.26 | - |
| KENOSHA | KENOSHA | 10.73 | 17.89 | - |

LONE ROCK SAUK 14.80 24.15 -

.SOIL MOISTURE CONDITIONS...CALCULATED SOIL MOISTURE CONDITIONS SHOWED SURPLUSES ACROSS ALL OF SOUTHERN WISCONSIN. THE TOP 12 INCHES OF SOIL...AS OF SEPTEMBER 5 2007...SHOWED MOISTURE SURPLUSES GENERALLY BETWEEN 0.30 AND 0.90 INCHES ACROSS SOUTHERN WISCONSIN. SURPLUSES GREATER THAN 0.90 INCHES WERE FOUND ACROSS LAFAYETTE AND GREEN COUNTIES.

THE TOP 72 INCHES OF SOIL...AS OF SEPTEMBER 5 2007...SHOWED SIMILAR TRENDS IN SOIL MOISTURE SURPLUSES. SOUTHERN WISCONSIN SHOWED SOIL MOISTURE SURPLUSES GENERALLY BETWEEN 1.50 TO 4.00 INCHES. SURPLUSES OF GREATER THAN 4.00 INCHES WERE FOUND SOUTH OF A HILL POINT...TO MADISON...TO MILWAUKEE LINE. SURPLUSES OF 1.50 TO 2.00 INCHES WERE FOUND ACROSS NORTHERN FOND DU LAC AND SHEBOYGAN COUNTIES.

THE TOP 12 AND 72 INCH VALUES...AND THE TABLE BELOW...INDICATE THAT SOIL MOISTURE CONDITIONS HAVE BECOME VERY WET IN THE PAST FOUR WEEKS.

MORE SPECIFICALLY...CROP SOIL MOISTURE CONDITIONS ACROSS WISCONSIN CLIMATE REGIONS...AS OF SEPTEMBER 2...WERE...

| WISCONSIN REGION | PERCENT VERY SHORT | PERCENT SHORT | PERCENT ADEQUATE | PERCENT SURPLUS |
|------------------|--------------------|---------------|------------------|-----------------|
| STATE | 6 | 11 | 65 | 18 |
| CENTRAL | 0 | 0 | 76 | 24 |
| EAST CENTRAL | 21 | 17 | 58 | 4 |
| SOUTHWEST | 0 | 0 | 74 | 26 |
| SOUTH CENTRAL | 0 | 0 | 45 | 55 |
| SOUTHEAST | 0 | 0 | 31 | 69 |

.GROUND WATER IMPACTS...FOR THE REALTIME REPORTING WELL AT MAZOMANIE...THE LATEST WELL WATER LEVEL WAS 11.01 FEET BELOW GROUND LEVEL...AS OF 7 AM ON AUGUST 19 2007. THIS IS HIGHER THAN THE 12.09 FEET BELOW GROUND LEVEL...RECORDED ON JULY 24 2007. THE LATEST LEVEL HAS BEEN A CONTINUATION OF A CONSISTENT INCREASE IN THE WELL WATER LEVEL AT MAZOMANIE SINCE EARLY AUGUST. THE LEVEL WAS IN THE NEAR NORMAL PERCENTILE CLASS...IN THE 25TH TO 75TH PERCENTILE RANGE.

THE LOWEST LEVEL ON RECORD FOR MAZOMANIE WAS 12.93 FEET BELOW GROUND LEVEL...NOTED ON NOVEMBER 12 1999. THE HIGHEST LEVEL ON RECORD WAS 5.09 FEET BELOW GROUND LEVEL ON APRIL 27 1993. THIS DATA WAS BASED ON THE DANE COUNTY RECORDS AT MAZOMANIE. THE PERIOD OF RECORD EXTENDED FROM OCTOBER 27 1953...THROUGH THE PRESENT.

.RIVER AND STREAMFLOW CONDITIONS...THE RECENT ROUNDS OF HEAVY RAINFALL CAUSED MINOR TO MAJOR FLOODING OF AREA RIVERS...MAINLY IN THE BARABOO...PECATONICA...ROCK AND FOX RIVER BASINS. LOCATIONS MAINLY ALONG THE ROCK RIVER BASIN WERE STILL RECEDING FROM THEIR FLOOD LEVELS OF THE PAST FEW WEEKS. THE REST OF THE AREA RIVER STAGES AND STREAMFLOWS WERE NEAR OR SLIGHTLY ABOVE THEIR HISTORICAL NORMALS.

.AGRICULTURAL IMPACTS...AS OF SEPTEMBER 4 2007...NEEDED RAINFALL BROUGHT IMPROVEMENT TO CROPS IN SOME AREAS ACROSS THE STATE.

HOWEVER...IN OTHER PARTS OF THE STATE...THE RAIN CAME TOO LATE OR WAS TOO HEAVY TO BE BENEFICIAL. THERE WERE 4.5 DAYS...ON AVERAGE...SUITABLE FOR FIELDWORK LAST WEEK.

CORN IN THE DOUGH STAGE WAS 88 PERCENT COMPLETE...ABOVE THE 86 PERCENT COMPLETE LAST YEAR...AND THE 5 YEAR AVERAGE OF 76 PERCENT COMPLETE. CORN IN THE DENT STAGE WAS 56 PERCENT COMPLETE...ABOVE THE 49 PERCENT COMPLETE LAST YEAR...AND THE 5 YEAR AVERAGE OF 37 PERCENT.

THE CORN CROP WAS 6 PERCENT MATURE...SLIGHTLY ABOVE THE 3 PERCENT MATURE LAST YEAR...AND THE 5 YEAR AVERAGE OF 2 PERCENT MATURE. CORN HARVESTED FOR SILAGE WAS 8 PERCENT COMPLETE...ABOVE THE 4 PERCENT COMPLETE FOR BOTH LAST YEAR...AND FOR THE 5 YEAR AVERAGE. THE QUANTITY AND QUALITY OF THE SILAGE WAS CONSIDERED POOR.

SOYBEANS TURNING COLOR WAS 23 PERCENT...AND SOYBEANS DROPPING LEAVES WAS 3 PERCENT. THESE VALUES WERE SLIGHTLY ABOVE BOTH LAST YEAR...AND THE 5 YEAR AVERAGE. FARMERS IN THE SOUTHWEST CLIMATE DIVISION NOTED DAMAGE TO THE SOYBEANS FROM HIGH WINDS.

THE THIRD AND FOURTH CUTTING ALFALFA PROGRESS INCREASED IN THE PAST WEEK. THIRD CUTTING HAY WAS 74 PERCENT COMPLETE...BELOW THE 82 PERCENT COMPLETE LAST YEAR...AND SLIGHTLY ABOVE THE 5 YEAR AVERAGE OF 73 PERCENT COMPLETE. FOURTH CUTTING HAY WAS 7 PERCENT COMPLETE...BELOW THE 12 PERCENT COMPLETE LAST YEAR...BUT MATCHED THE 5 YEAR AVERAGE. THE RECENT RAINFALL SHOULD BRING BETTER YIELDS AND QUALITY FOR THE FOURTH CUTTING HAY THAN THE SECOND AND THIRD CUTTINGS.

PASTURE WAS 54 PERCENT GOOD TO EXCELLENT...AN INCREASE FROM THE 46 PERCENT LAST WEEK. THE POTATO...SWEET CORN...SNAPBEAN AND APPLE YIELDS WERE REPORTED AS GOOD. HOWEVER...THE RECENT RAINFALL HAS MADE THE SWEET CORN AND SNAPBEAN HARVESTS TOUGHER.

WISCONSIN CROP PROGRESS COMPILED BY THE USDA NATIONAL AGRICULTURAL STATISTICS SERVICE...AS OF SEPTEMBER 2 2007...

| CROP AND PCT OF ACREAGE | C | EC | SW | SC | SE | STATE AVERAGE | | |
|---------------------------|----|----|----|----|----|---------------|-----------|------------|
| | | | | | | THIS YEAR | LAST YEAR | 5 YEAR AVG |
| CORN DOUGH | 81 | 74 | 93 | 98 | 99 | 88 | 86 | 76 |
| CORN DENT | 42 | 50 | 70 | 64 | 60 | 56 | 49 | 37 |
| CORN MATURE | 3 | 6 | 6 | 9 | 13 | 6 | 3 | 2 |
| CORN HARVESTED FOR SILAGE | 4 | 9 | 4 | 5 | 1 | 8 | 4 | 4 |
| SOYBEANS TURNING COLOR | 33 | 38 | 20 | 9 | 10 | 23 | 24 | 25 |
| SOYBEANS DROPPING LEAVES | 2 | 6 | 0 | 1 | 1 | 3 | 2 | 2 |
| THIRD CUTTING HAY | 77 | 79 | 71 | 62 | 71 | 74 | 82 | 73 |
| FOURTH CUTTING HAY | 8 | 8 | 10 | 9 | 8 | 7 | 12 | 7 |

C=CENTRAL WISCONSIN CLIMATE DIVISION
 EC=EAST CENTRAL WISCONSIN CLIMATE DIVISION
 SW=SOUTHWEST WISCONSIN CLIMATE DIVISION
 SC=SOUTH CENTRAL WISCONSIN CLIMATE DIVISION
 SE=SOUTHEAST WISCONSIN CLIMATE DIVISION

WISCONSIN CROP CONDITIONS COMPILED BY THE USDA NATIONAL AGRICULTURAL STATISTICS SERVICE...AS OF SEPTEMBER 2 2007...

| CROP AND PCT OF ACREAGE | VERY | | | | |
|-------------------------|------|------|------|------|-----------|
| | POOR | POOR | FAIR | GOOD | EXCELLENT |
| CORN | 7 | 14 | 30 | 34 | 15 |
| SOYBEANS | 5 | 13 | 28 | 38 | 16 |
| PASTURE | 10 | 10 | 26 | 41 | 13 |

SOME LOCAL QUOTES PARTICULAR TO SOUTHERN WISCONSIN COUNTIES INCLUDED...

FOND DU LAC COUNTY...NEW SEEDING LOOKS GREAT. RAIN WAS TOO LATE FOR THE CORN. THIRD AND FOURTH CROP HAY LOOK GREAT. WE NEED JUST THREE TO FIVE DAYS OF DRYING WEATHER. IT SOUNDS AS IF LOTS OF WINTER WHEAT WILL BE PLANTED IN THE NEXT THREE WEEKS.

IOWA COUNTY...ALFALFA IS BEING CUT AND CORN SILAGE IS BEING MADE. EARLY PLANTED SOYBEANS ARE TURNING.

DANE COUNTY...CORN AND SOYBEANS CONTINUE TO DETERIORATE FROM EXCESS RAIN DURING AUGUST. CORN SILAGE HAS BEGUN. WET SOIL CONDITIONS CONTINUE TO DICTATE FIELD ACTIVITIES...ALTHOUGH CONDITIONS CONTINUE TO IMPROVE DAILY. MANY FARMERS WILL BE ABLE TO RETURN TO FIELDWORK WITHOUT CONCERN TO SOIL COMPACTION BY THE END OF THIS WEEK...IF NO MORE RAIN FALLS.

KENOSHA COUNTY...MOST FIELDS ARE TOO WET TO ENTER. CROPS WERE DAMAGED BY EXCESSIVE RAIN. SOME CORN AND SOYBEANS ARE A COMPLETE LOSS BECAUSE THEY WERE SUBMERGED.

WAUKESHA COUNTY...WE RECEIVED 9.00 INCHES OF RAIN LAST WEEK. ALL CROPS LOOK GREAT. CORN IS IN THE DENT STAGE. SOYBEANS ARE JUST STARTING TO CHANGE COLOR.

.FIRE DANGER IMPACTS...FIRE DANGER CONDITIONS WERE MAINLY LOW ACROSS SOUTHERN WISCONSIN. LOW FIRE DANGER CONDITIONS EXISTED ACROSS MARQUETTE...GREEN LAKE...SAUK...COLUMBIA...NORTHERN IOWA AND NORTHWEST DANE COUNTIES. A SMALL AREA OF MODERATE FIRE DANGER CONDITIONS EXISTED ACROSS FAR NORTHERN SAUK COUNTY...NEAR THE WISCONSIN DELLS AREA.

10 HOUR FUEL MOISTURES RANGED FROM 7 TO 8 PERCENT ACROSS SOUTHERN WISCONSIN. THESE VALUES WERE SIMILAR TO THOSE OBSERVED FOUR WEEKS AGO.

100 HOUR FUEL MOISTURES RANGED FROM 11 TO 15 PERCENT ACROSS SOUTHERN WISCONSIN. THESE VALUES WERE SIMILAR TO THOSE OBSERVED FOUR WEEKS AGO.

THE LATEST KEETCH-BYRAM DROUGHT INDEX VALUES WERE LESS THAN 200...OR IN THE VERY LOW CATEGORY...ACROSS SOUTHERN WISCONSIN. THESE VALUES WERE TWO CATEGORIES LOWER THAN THOSE OBSERVED FOUR WEEKS AGO.

.PRECIPITATION/TEMPERATURE OUTLOOK...THE OUTLOOKS ARE BROKEN DOWN INTO THE PERIODS LISTED BELOW...

FOR THE 6 TO 10 DAY PERIOD OF SEPTEMBER 12 THROUGH SEPTEMBER 16
2007...

THE 6 TO 10 DAY TEMPERATURE OUTLOOK SHOWED SLIGHTLY ELEVATED
PROBABILITIES FOR BELOW NORMAL TEMPERATURES ACROSS SAUK...IOWA AND
LAFAYETTE COUNTIES. THEY WERE GENERALLY IN THE 33 TO 40 PERCENT
RANGE. IN ADDITION...THE CHANCES FOR NEAR AND BELOW NORMAL
TEMPERATURES WERE SLIGHTLY REDUCED...BUT STILL POSSIBLE...IN THIS
PERIOD. THE REST OF SOUTHERN WISCONSIN SHOWED EQUAL CHANCES FOR
ABOVE...NEAR AND BELOW NORMAL TEMPERATURES.

THE 6 TO 10 DAY PRECIPITATION OUTLOOK SHOWED EQUAL CHANCES FOR
ABOVE...NEAR AND BELOW NORMAL PRECIPITATION ACROSS SOUTHERN
WISCONSIN.

FOR THE 8 TO 14 DAY PERIOD OF SEPTEMBER 14 THROUGH SEPTEMBER 20
2007...

THE 8 TO 14 DAY TEMPERATURE OUTLOOK SHOWED ELEVATED PROBABILITIES
FOR BELOW NORMAL TEMPERATURES ACROSS SOUTHERN WISCONSIN. THEY WERE
GENERALLY GREATER THAN 40 PERCENT. IN ADDITION...THE CHANCES FOR
ABOVE NORMAL TEMPERATURES WERE REDUCED...BUT STILL POSSIBLE...IN
THIS PERIOD.

THE 8 TO 14 DAY PRECIPITATION OUTLOOK SHOWED EQUAL CHANCES FOR
ABOVE...NEAR AND BELOW NORMAL PRECIPITATION ACROSS SOUTHERN
WISCONSIN.

FOR THE MONTH OF SEPTEMBER 2007...THE OUTLOOK SHOWED EQUAL CHANCES
FOR ABOVE...NEAR AND BELOW NORMAL TEMPERATURES AND PRECIPITATION.

FOR THE SEPTEMBER THROUGH NOVEMBER 2007 PERIOD...THE OUTLOOK SHOWED
SLIGHTLY ENHANCED PROBABILITIES FOR ABOVE NORMAL TEMPERATURES. THEY
WERE GENERALLY IN THE 33 TO 40 PERCENT RANGE. THE CHANCES FOR BELOW
NORMAL TEMPERATURES DECREASED SLIGHTLY...BUT WERE STILL
POSSIBLE...IN THIS PERIOD.

FOR THE SEPTEMBER THROUGH NOVEMBER 2007 PERIOD...THE OUTLOOK SHOWED
EQUAL CHANCES FOR ABOVE...NEAR AND BELOW NORMAL PRECIPITATION ACROSS
SOUTHERN WISCONSIN.

THE SEASONAL DROUGHT OUTLOOK...THROUGH NOVEMBER 2007...INDICATED
THAT DROUGHT CONDITIONS WERE NOT EXPECTED TO DEVELOP ACROSS SOUTHERN
WISCONSIN.

.QUESTIONS OR COMMENTS...IF YOU HAVE ANY QUESTIONS OR COMMENTS ABOUT
THIS DROUGHT INFORMATION STATEMENT...PLEASE CONTACT...

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MILWAUKEE/SULLIVAN WISCONSIN

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.RELATED WEB SITES...THE FOLLOWING WEB SITES WERE REFERENCED TO

ACCESS INFORMATION FOR THIS DROUGHT INFORMATION STATEMENT. NOTE ALL LINKS SHOULD BE IN LOWER CASE LETTERS.

NWS MILWAUKEE/SULLIVAN DROUGHT INFORMATION PAGE-
[HTTP://WWW.CRH.NOAA.GOV/MKX/?N=DROUGHT-INTRO](http://www.crh.noaa.gov/mkx/?N=DROUGHT-INTRO)

THIS WEBSITE CONTAINS LINKS TO MOST OF THE INFORMATION USED IN THE DROUGHT INFORMATION STATEMENT. IT DISPLAYS EACH SECTION OF THE DROUGHT INFORMATION STATEMENT WITH ITS RESPECTIVE LINKS...IN A USER-FRIENDLY FORMAT.

LOCAL WEATHER...CLIMATE AND WATER INFORMATION-
[HTTP://WWW.WEATHER.GOV/CLIMATE/INDEX.PHP?WFO=MKX](http://www.weather.gov/climate/index.php?WFO=MKX)
UNITED STATES GEOLOGICAL SURVEY-
[HTTP://WATER.USGS.GOV](http://water.usgs.gov)
MIDWEST REGIONAL CLIMATE CENTER-
[HTTP://MRCC.SWS.UIUC.EDU](http://mrcc.sws.uiuc.edu)
U.S. DROUGHT MONITOR-
[HTTP://WWW.DROUGHT.UNL.EDU/DM/INDEX.HTML](http://www.drought.unl.edu/dm/index.html)
WILDLAND FIRE ASSESSMENT SYSTEM-
[HTTP://WWW.WFAS.US/CONTENT/VIEW/32/49/](http://www.wfas.us/content/view/32/49/)
WISCONSIN DEPARTMENT OF NATURAL RESOURCES-
[HTTP://WWW.DNR.STATE.WI.US](http://www.dnr.state.wi.us)
NATIONAL AGRICULTURAL STATISTICS SERVICE WISCONSIN-
[HTTP://WWW.NASS.USDA.GOV/WI](http://www.nass.usda.gov/wi)

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.NEXT ISSUANCE...THIS PRODUCT WILL BE ISSUED AGAIN WHEN DROUGHT CONDITIONS BECOME APPARENT IN THE MILWAUKEE/SULLIVAN COUNTY WARNING AREA.

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WOOD