

HYDROLOGIC OUTLOOK

Example for flooding potential (emphasis on saturated soil conditions)

FGUS76 KSGF 102135
ESFSGF
MOZ055-056-058-060>062-110400-

HYDROLOGIC OUTLOOK
NATIONAL WEATHER SERVICE SPRINGFIELD MO
335 PM CST FRI DEC 10 1999

...ANOTHER HEAVY RAINMAKER TO HIT THE OZARKS...

OVER THE PAST COUPLE OF WEEKS...MORE RAINFALL HAS FALLEN ACROSS THE OZARKS THAN FELL THE PAST SIX MONTHS. AS A RESULT...MOST OF SOUTHWEST MISSOURI IS ALMOST BACK TO NORMAL RAINFALL...AND IN SOME CASES ABOVE NORMAL.

THROUGH DECEMBER 10...SPRINGFIELD HAS RECEIVED 6.84 INCHES...AND MANY AREAS OF THE OZARKS HAVE RECEIVED MORE THAN EIGHT INCHES. THE NORMAL RAINFALL FOR SPRINGFIELD IN DECEMBER IS 3.16 INCHES.

BEGINNING LATE SUNDAY NIGHT... MONDAY AND EARLY TUESDAY...THE OZARKS WILL RECEIVE ANOTHER GOOD SOAKING RAIN. CURRENT MODELS INDICATE A STORM TRACK ACROSS NORTHERN ARKANSAS AND SOUTHERN MISSOURI...BASICALLY THE SAME TRACK TAKEN BY THE RECENT STORMS.

THIS MEANS ABUNDANT GULF MOISTURE WILL BE PULLED INTO THE STORM AND DEPOSIT UPWARDS OF ONE TO TWO INCHES ACROSS MOST SECTIONS OF SOUTHERN MISSOURI. WITH THE GROUND VERY SATURATED FROM THE LAST TWO HEAVY RAINFALL EVENTS...FLOODING WILL LIKELY OCCUR.

LOW WATER CROSSINGS AND SMALL STREAMS...DRY THIS PAST FALL...MAY SWELL TO SMALL RAGING STREAMS OF WATER. RIVERS...MAINLY ACROSS SOUTHERN MISSOURI...COULD RISE CLOSE TO...OR ABOVE FLOOD STAGE BY TUESDAY NIGHT AND WEDNESDAY.

OUR HAZARDOUS WEATHER OUTLOOK STATEMENT WILL BE UPDATED WITH THE LATEST INFORMATION THROUGHOUT THE WEEKEND. ANOTHER SOURCE OF CURRENT WEATHER INFORMATION IS THROUGH THE WORLD WIDE WEB AT WEATHER.GOV OR AT WWW.CRH.NWS.NOAA.GOV/SGF

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Example for flooding Potential (emphasis on excessive rainfall)

FGUS60 PHFO 120135
ESFHNL
MOZ055-056-058-060>062-121600-

HYDROLOGIC OUTLOOK
NATIONAL WEATHER SERVICE HONOLULU HI
335 PM HST FRI NOV 11 1999

...HEAVY RAINFALL POSSIBLE ACROSS THE ALOHA STATE OVER THE WEEKEND...

THE ENTIRE ISLAND CHAIN FROM KAUAI TO HAWAII IS AT RISK OF HEAVY RAINFALL OVER THE WEEKEND. THE GREATEST RISK OF HEAVY RAIN WILL BEGIN ON THE ISLAND OF KAUAI LATE FRIDAY AND CONTINUE THROUGH THE WEEKEND. BY SATURDAY AREAS FROM KAUAI TO MAUI WILL HAVE THE POTENTIAL FOR HEAVY RAINFALL WITH THE GREATEST THREAT TO THE ISLAND OF HAWAII BEING LATE SATURDAY AND ON SUNDAY.

A COLD FRONT EXTENDS SOUTHWEST ACROSS THE CENTRAL PACIFIC TO THE NORTHWEST OF KAUAI. A LOW PRESSURE SYSTEM IS FORECAST TO DEVELOP ON THIS FRONT TO THE SOUTHWEST OF KAUAI AND MOVE ACROSS THE ISLAND CHAIN OVER THE WEEKEND. IF THIS STORM SYSTEM DEVELOPS VERY STRONG SOUTH WINDS WILL PRODUCE WARM AND HUMID CONDITIONS WITH THE THREAT OF THUNDERSTORMS AND HEAVY RAIN ACROSS THE STATE THIS WEEKEND.

CURRENT FORECASTS INDICATE THIS WILL BE A SIGNIFICANT STORM SYSTEM. HOWEVER IF CONDITIONS CHANGE OR THIS STORM SYSTEM DOES NOT FOLLOW THE TRACK DESCRIBED ABOVE THIS HEAVY RAINFALL MAY NOT MATERIALIZE. EMERGENCY MANAGERS... RESIDENTS AND VISITORS ACROSS THE STATE SHOULD CONTINUE ROUTINE ACTIVITIES... BUT STAY TUNED TO LOCAL MEDIA AND LISTEN FOR LATER STATEMENTS AND POSSIBLE WATCHES AND WARNINGS.

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Example for drought/water supply (discussion format)

FGUSii KDMX 261510
ESFDMX
IAZALL-271500-

HYDROLOGIC OUTLOOK
NATIONAL WEATHER SERVICE DES MOINES IA
1005 AM CDT TUE OCT 26 1999

...DROUGHT / WATER SUPPLY STATEMENT NUMBER 1... FOR MODERATE DROUGHT CONDITIONS EXIST OVER PARTS OF NORTHWEST IOWA... AND MILD DROUGHT NOW FOUND OVER MUCH OF CENTRAL IOWA...

THE EXTENDED PERIOD OF DRY WEATHER WHICH BEGAN LAST AUGUST WILL LIKELY PERSIST THROUGH THE END OF THIS MONTH. ACCORDING TO DATA PROVIDED BY THE IOWA STATE CLIMATOLOGISTS OFFICE THIS WILL MAKE THE PERIOD FROM AUGUST THROUGH OCTOBER THE 8TH DRIEST IN THE PAST

127 YEARS OF WEATHER RECORDS IN IOWA. EVEN MORE UNUSUAL IS THE SEPTEMBER-OCTOBER DRYNESS WHICH WOULD END UP AS THE 6TH DRIEST ON RECORD AND THE DRIEST SUCH PERIOD SINCE 1953. IF NO MORE RAIN FALLS THIS MONTH OCTOBER ALONE WILL RANK AS THE 8TH DRIEST ON RECORD AT 0.59 INCHES OF RAINFALL VERSUS THE AVERAGE OF 2.53 INCHES.

THE MOST RECENT LONG-TERM PALMER DROUGHT SEVERITY INDEX (BASED ON DATA THROUGH OCTOBER 23) ISSUED BY THE NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY SHOWS THE WORST CONDITIONS NOW EXISTING OVER NORTHWEST IOWA. MILD DROUGHT CONDITIONS HAVE TAKEN HOLD OVER A LARGE PART OF CENTRAL IOWA...COVERING MOST OF THE SOUTHERN TWO-THIRDS OF THE STATE. ONLY NORTHEAST AND NORTH CENTRAL IOWA ARE NOT EXPERIENCING SOME LEVEL OF DROUGHT AT THIS TIME.

STREAMFLOWS HAVE ALSO DIMINISHED NOTICEABLY IN RECENT WEEKS AND ARE NOW AT OR BELOW BASEFLOW IN MOST OF THE STATE. BASEFLOW IS THE LEVEL WHERE THE STREAM BED INTERSECTS GROUNDWATER. AS GROUNDWATER IS DEPLETED STREAMS WILL CONTINUE A SLOW FALL. WITH THE END OF THE GROWING SEASON HOWEVER...THE RATE OF GROUNDWATER DEPLETION SHOULD BE REDUCED. STREAMFLOWS ARE LOWEST OVER CENTRAL AND SOUTH CENTRAL IOWA...WHERE SOME CURRENT FLOWS ON THE LOWER DES MOINES RIVER ARE AS LOW AS THE 10TH PERCENTILE FOR THIS DATE.

THE ROCK ISLAND DISTRICT OF THE US ARMY CORPS OF ENGINEERS HAS INITIATED A DROUGHT CONTINGENCY PLAN FOR ITS THREE MAJOR RESERVOIRS IN THE STATE...CORALVILLE...RED ROCK...AND SAYLORVILLE. OUTFLOWS FROM THESE RESERVOIRS WILL BE MAINTAINED AT MINIMUM LEVELS IN ORDER TO ACCOMMODATE THE DECREASED INFLOW OF WATER INTO THE RESERVOIRS.

THE LATEST 6 TO 10 DAY FORECAST FOR THE PERIOD FROM OCTOBER 31 THROUGH NOVEMBER 4, 1999 ISSUED BY THE NWS CLIMATE PREDICTION CENTER (CPC) FORECASTS LITTLE IF ANY PRECIPITATION OVER THE STATE.

HOWEVER...THE 30 DAY FORECAST FROM CPC FOR NOVEMBER INDICATES THE LIKELIHOOD OF ABOVE NORMAL RAINFALL OVER MOST OF IOWA. STATEWIDE AVERAGE RAINFALL FOR NOVEMBER IS ONLY 1.78 INCHES...SO EVEN ABOVE NORMAL PRECIPITATION MAY NOT DO MUCH TO EASE CURRENT CONDITIONS.

LOOKING AHEAD TO THE WINTER SEASON...EXTENDED FORECASTS FROM CPC SUGGEST NO STRONG TREND TOWARD ABOVE OR BELOW NORMAL PRECIPITATION IN IOWA FOR THE PERIOD FROM DECEMBER THROUGH JANUARY. EITHER WAY...WINTER IS NOT A TIME OF YEAR WHEN A LOT OF MOISTURE IS AVAILABLE FOR STORMS HERE. THE AVERAGE PRECIPITATION FOR THIS 3-MONTH PERIOD IS ONLY ABOUT 3 INCHES...WHICH IS LESS THAN THE AVERAGE RAINFALL FOR JUST APRIL.

MAPS OF THE PALMER DROUGHT SEVERITY INDEX AND OTHER DROUGHT INDICES ARE AVAILABLE ON THE INTERNET AT [HTTP://ENSO.UNL.EDU/MONITOR/CURRENT.HTML](http://enso.unl.edu/monitor/current.html).

REAL-TIME STREAMFLOW INFORMATION IS AVAILABLE FROM THE US GEOLOGICAL SURVEY AT [HTTP://WATER.USGS.GOV/REALTIME.HTML](http://water.usgs.gov/realtime.html).

MEDIUM AND LONG RANGE WEATHER AND CLIMATE FORECASTS ARE AVAILABLE ON THE WEB AT [HTTP://WWW.CPC.NOAA.GOV](http://www.cpc.noaa.gov).

ADDITIONAL DROUGHT/WATER SUPPLY STATEMENTS WILL BE ISSUED BY THIS NWS OFFICE AS CONDITIONS WARRANT.

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Example for extended stream flow prediction or water supply outlook (discussion and tabular format)

FGUSii KBOU 121726
ESFBOU
COZ030>040 -131800

HYDROLOGIC OUTLOOK
NATIONAL WEATHER SERVICE DENVER CO
1120 AM MDT MON JUNE 12 2000

...WATER SUPPLY OUTLOOK... NORTH CENTRAL AND NORTHEAST COLORADO AS OF JUNE 1 2000...

MUCH ABOVE AVERAGE TEMPERATURES AND A LACK OF PRECIPITATION DURING MAY HAVE CAUSED THE SNOWPACK TO MELT AT AN EXCEPTIONALLY FAST RATE...NEARLY TWICE THE NORMAL MELT RATE. THE REMAINING SNOWPACK WAS ONLY 25% OF AVERAGE ON JUNE 1. THE CACHE LA POUFRE WATERSHED HAS THE LARGEST REMAINING SNOW AMOUNT AT 45% OF AVERAGE.

PRECIPITATION IN THE BASIN WAS 55% OF AVERAGE DURING MAY, AND THE WATER YEAR TOTAL WAS 77% OF AVERAGE.

THE COMBINED RESERVOIR STORAGE IN THE BASIN WAS ABOUT AVERAGE FOR JUNE 1 AND ABOUT 11% LESS THAN THIS TIME LAST YEAR.

FOR THE SOUTH PLATTE BASIN...STREAMFLOW FORECASTS HAVE REMAINED NEARLY THE SAME AS THEY WERE LAST MONTH. FLOWS FOR THE UPCOMING RUNOFF SEASON ARE EXPECTED TO BE BELOW AVERAGE. FOLLOWING ARE PRELIMINARY STREAM FLOW FORECASTS FOR THE SELECTED LOCATIONS ASSUMING NORMAL PRECIPITATION PATTERNS:

LOCATION	PERCENT OF AVERAGE	RUNOFF PERIOD
NORTH PLATTE RIVER NORTHGATE	76	JUN-SEP
SOUTH PLATTE RIVER ANTERO RESERVOIR INFLOW	62	APR-JUL
SPINNEY MOUNTAIN RESERVOIR INFLOW	76	APR-JUL
ELEVENMILE CANYON RESERVOIR INFLOW	74	APR-JUL

LAKE GEORGE	21	APR-SEP
CHEESMAN LAKE INFLOW	72	APR-SEP
SOUTH PLATTE	75	APR-SEP
NORTH FORK SOUTH PLATTE RIVER		
SOUTH PLATTE	75	APR-SEP
BEAR CREEK		
MORRISON	73	APR-SEP
CLEAR CREEK		
GOLDEN	77	APR-SEP
ST VRAIN CREEK		
LYONS	82	APR-SEP
MIDDLE BOULDER CREEK		
NEDERLAND	81	APR-SEP
SOUTH BOULDER CREEK		
ELDORADO SPRINGS	80	APR-SEP
BOULDER CREEK		
ORODELL	81	APR-SEP
BIG THOMPSON RIVER		
ESTES PARK	85	APR-SEP
CANYON MOUTH	88	APR-SEP
CACHE LA POUFRE RIVER		
CANYON MOUTH	75	APR-SEP

THESE FORECASTS REFLECT NATURAL FLOW ONLY. ACTUAL OBSERVED FLOW WILL LIKELY BE AFFECTED BY UPSTREAM WATER MANAGEMENT.

THIS OUTLOOK IS BASED ON PRESENT OBSERVATIONS OF SNOWPACK AND ASSUMES NORMAL PRECIPITATION FOR THE REMAINDER OF THE SNOW SEASON.

IF THE ACTUAL OBSERVED PRECIPITATION DEVIATES FROM NORMAL...THEN THE ACTUAL OBSERVED RUNOFF WILL LIKELY BE DIFFERENT THAN THE FORECASTS IN THIS OUTLOOK.

THIS MESSAGE IS A RESULT OF COORDINATED ACTIVITY BETWEEN THE NATIONAL WEATHER SERVICE AND THE NATIONAL RESOURCES CONSERVATION SERVICE.

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