RAINFALL FREQUENCY VALUES FOR KENTUCKY

Engineering Memorandum No. 2

April 30,1971; Revised- June 1, 1979

COMMONWEALTH OF KENTUCKY

DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION

BUREAU OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

KENTUCKY

DIVISION OF WATER RESOURCES
DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION
ENGINEERING MEMORANDUM NO. 2 (4-30-71), REVISED (6-1-79)

RAINFALL FREQUENCY VALUES FOR KENTUCKY

THIS INFORMATION HAS BEEN PREPARED BY THE DIVISION OF WATER RESOURCES, DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION, COMMONWEALTH OF KENTUCKY. (AUTHORITY-KRS 151.220)

POINT RAINFALL VALUES HAVE BEEN DETERMINED FOR EACH OF THE 120 COUNTIES OF THE COMMONWEALTH AND TABULATED IN A CONVENIENT FORM. THE SOURCES OF THE INFORATION WERE TECHNICAL PAPER 40 (RAINFALL FREQUENCY ATLAS OF THE UNITED STATES FOR DURATIONS FROM 30 MINUTES TO 24 HOURS AND RETURN PERIODS FROM 1 TO 100 YEARS) AND TECHNICAL PAPER 49 (TWO-TO TEN-DAY PRECIPITATION FOR RETURN PERIODS OF 2 TO 100 YEARS IN THE CONTIGUOUS UNITED STATES), WEATHER BUREAU, U.S. DEPARTMENT OF COMMERCE. PRECIPITATION VALUES PUBLISHED IN HYDROMETEOROLOGICAL OF THE ARMY, JUNE, 1978).

THE ESTIMATED POINT RAINFALL VALUES ARE BELIEVED TO BE ADEQUATE FOR MOST ENGINEERING DESIGN PURPOSES AND ARE MADE AVAILABLE TO FILL THE NEEDS OF PERSONS WHO DO NOT HAVE THE BASIC INFORMATION READILY AVAILABLE. THE POINT RAINFALL VALUES USED IN THIS PUBLICATION ARE VALUES FOR TEN (10) SQUARE MILE AREAS.

ADJUSTMENT FOR APEAL AND SEASONAL VARIATIONS ARE NOT COVERED IN THIS PUBLICATION, HOWEVER ASSISTANCE FOR THE MORE SOPHISTICATED DETERMINATIONS MAY BE OBTAINED BY CONTACTING THE DIVISION OF WATER RESOURCES.

THE LAST SERIES OF TABLES SHOWS VALUES FOR RUNOFF VOLUMES AND QUICK RETURN FLOWS. THE RUNOFF VOLUMES REPRESENT VALUES WHERE MEASURED RUNOFF MAY VARY FROM THAT OBTAINED BY THE CURVE NUMBER METHOD. THEY REPRESENT REGIONALIZED VALUES DERIVED FROM GAGED STREAMFLOW DATA AND SUPPLEMENTED WITH CLIMATOLOGICAL DATA AND LOCAL OBSERVATIONS. THE QUICK RETURN FLOWS ARE THOSE RATES OF DISCHARGE EXPECTED TO PERSIST BEYOND THE FLOOD PERIOD AS DESCRIBED BY THE 10-DAY PRINCIPAL SPILLWAY HYDROGRAPH. ALL VALUES IN THESE TABLES CAME FROM EXHIBITS 21.1, 21-2, AND 21-3 OF THE SOIL CONSERVATION SERVICE NATIONAL ENGINEERING HANDBOOK, SECTION 4, HYDROLOGY.

DIVISION OF WATER RESURECES
DEPARTMENT FOR NATURAL RESOURCES AND ENVIROMENTAL PROTECTION
ENGINEERING MEMORADUM NO.2 (4-30-71), REVISED (6-1-79)

30 MINUTE RAINFALL (INCHES)

	FREQUENCY (YEARS)						
COUNTY	1	2	5	10	25	50	100
ADAIR	1.0	1.2	1.4	1.7	1.9	2.1	2.4
ALLEN	1.0	1.2	1.5	1.7	1.9	2.1	2.4
ANDERSON	0.9	1.1	1.4	1.6	1.9	2.0	2.3
BALLARD	1.1	1.3	1.6	1.8	2.0	2.2	2.5
BARREN	1.0	1.2	1.5	1.7	1.9	2.1	2.4
BATH	0.9	1.1	1.4	1.6	1.8	2.0	2.2
BELL	1.0	1.1	1.5	1.7	1.9	2.1	2.4
BOONE	0.9	1.1	1.4	1.6	1.8	2.0	2.2
BOURBON	0.9	1.1	1.4	1.6	1.8	2.0	2.2
BOYD	0.9	1.1	1.4	1.6	1.8	2.0	2.2
BOYLE	0.9	1.1	1.4	1.6	1.9	2.1	2.3
BRACKEN	0.9	1.1	1.4	1.6	1.8	2.0	2.2
BREATHITT	0.9	1.1	1.4	1.6	1.9	2.1	2.3
BRECKENRIDGE	1.0	1.2	1.4	1.7	1.9	2.1	2.3
BULLITT	1.0	1.1	1.4	1.6	1.9	2.1	2.3
BUTLER	1.0	1.2	1.5	1.7	1.9	2.1	2.4
CALDWELL	1.1	1.2	1.5	1.8	2.0	2.2	2.4
CALLOWAY	1.1	1.2	1.6	1.8	2.0	2.2	2.5
CAMPBELL	0.9	1.1	1.4	1.6	1.8	2.0	2.2
CARLISLE	1.1	1.3	1.6	1.8	2.0	2.3	2.5
CARROLL	0.9	1.1	1.4	1.6	1.8	2.0	2.2
CARTER	0.9	1.1	1.4	1.6	1.8	2.0	2.2
CASEY	1.0	1.1	1.4	1.7	1.9	2.1	2.3
CHRISTIAN	1.0	1.2	1.5	1.7	2.0	2.2	2.4
CLARK	0.9	1.1	1.4	1.6	1.8	2.1	2.3
CLAY	0.9	1.1	1.4	1.7	1.9	2.1	2.3
CLINTON	1.0	1.2	1.5	1.7	1.9	2.1	2.4
CRITTENDEN	1.1	1.2	1.5	1.8	2.0	2.2	2.4
CUMBERLAND	1.0	1.2	1.5	1.7	1.9	2.1	2.4
DAVIESS	1.0	1.2	1.5	1.7	1.9	2.1	2.3
EDMONSON	1.0	1.2	1.5	1.7	1.9	2.1	2.3
ELLIOTT	0.9	1.1	1.4	1.6	1.8	2.1	2.2
ESTILL	0.9	1.1	1.4	1.6	1.9	2.1	2.3
FAYETTE	0.9	1.1	1.4	1.6	1.8	2.1	2.3
FLEMING	0.9	1.1	1.4	1.6	1.8	2.0	2.2
FLOYD	0.9	1.1	1.4	1.6	1.9	2.1	2.3
FRANKLIN	0.9	1.1	1.4	1.6	1.8	2.0	2.3
FULTON	1.1	1.3	1.6	1.8	2.0	2.3	2.5
GALLATIN	0.9	1.1	1.4	1.6	1.9	2.1	2.2
GARRARD	0.9	1.1	1.4	1.6	1.9	2.1	2.3

DIVISION OF WATER RESOURCES
DEPARTMENT FOR NATURAL RESLURCES AND ENVIONMENTAL PROTECTION
ENGINEERING MEMORADUM NO.2 (4-30-71), REVISED (6-1-79)

30 MINUTE RAINFALL (INCHES)

	FREQUENCY (YEARS)						
COUNTY	1	2	5	10	25	50	100
GRANT	0.9	1.1	1.4	1.6	1.8	2.0	2.2
GRAVES	1.1	1.3	1.6	1.8	2.0	2.2	2.5
GRAYSON	1.0	1.2	1.4	1.7	1.9	2.1	2.3
GREEN	1.0	1.1	1.4	1.7	1.9	2.1	2.3
GREENUP	0.9	1.1	1.4	1.6	1.8	2.0	2.2
HANCOCK	1.0	1.2	1.4	1.7	1.9	2.1	2.3
HARDIN	1.0	1.2	1.4	1.6	1.9	2.1	2.3
HARLIN	1.0	1.1	1.5	1.7	1.9	2.1	2.3
HARRISON	0.9	1.1	1.4	1.6	1.8	2.0	2.2
HART	1.0	1.2	1.4	1.7	1.9	2.1	2.3
HENDERSON	1.0	1.2	1.5	1.7	1.9	2.1	2.3
HENRY	0.9	1.1	1.4	1.6	1.8	2.0	2.2
HICKMAN	1.1	1.3	1.6	1.8	2.0	2.3	2.5
HOPKINS	1.0	1.2	1.5	1.7	1.9	2.1	2.4
JACKSON	0.9	1.1	1.4	1.6	1.9	2.1	2.3
JEFFERSON	1.0	1.1	1.4	1.6	1.9	2.0	2.3
JESSAMINE	0.9	1.1	1.4	1.6	1.9	2.1	2.3
JOHNSON	0.9	1.1	1.4	1.6	1.9	2.1	2.3
KENTON	0.9	1.1	1.4	1.6	1.8	2.0	2.2
KNOTT	0.9	1.1	1.4	1.6	1.9	2.1	2.3
KNOX	1.0	1.1	1.5	1.7	1.9	2.1	2.3
LARUE	1.0	1.1	1.4	1.7	1.9	2.1	2.3
LAURAL	1.0	1.1	1.4	1.7	1.9	2.1	2.3
LAWRENCE	0.9	1.1	1.4	1.6	1.8	2.1	2.2
LEE	0.9	1.1	1.4	1.6	1.9	2.1	2.3
LESLIE	0.9	1.1	1.4	1.7	1.9	2.1	2.3
LETCHER	0.9	1.1	1.4	1.7	1.9	2.1	2.3
LEWIS	0.9	1.1	1.4	1.6	1.8	2.0	2.2
LINCOLN	0.9	1.1	1.4	1.6	1.9	2.1	2.3
LIVINGSTON	1.1	1.2	1.5	1.8	2.0	2.2	2.4
LOGAN	1.0	1.2	1.5	1.7	1.9	2.1	2.4
LYON	1.0	1.2	1.5	1.8	2.0	2.2	2.4
MCCRACKEN	1.0	1.3	1.6	1.8	2.0	2.2	2.5
MCCREARY	1.0	1.2	1.5	1.7	1.9	2.1	2.4
MCLEAN	1.0	1.2	1.5	1.7	1.9	2.1	2.4
MADISON	0.9	1.1	1.4	1.6	1.9	2.1	2.3
MAGOFFIN	0.9	1.1	1.4	1.6	1.9	2.1	2.3
MARION	1.0	1.1	1.4	1.6	1.9	2.1	2.3
MARSHALL	1.0	1.2	1.6	1.8	2.0	2.2	2.5
MARTIN	0.9	1.1	1.4	1.6	1.9	2.1	2.3

DIVISION OF WATER RESOURCES
DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION
ENGINEERING MEMORANDUM NO.2 (4-30-71), REVISED (6-1-79)

30 MINUTE RAINFALL (INCHES)

	FREQUENCY (YEARS)						
COUNT	1	2	5	10	25	50	100
MASON	0.9	1.1	1.4	1.6	1.8	2.0	2.2
MEADE	1.0	1.2	1.4	1.6	1.9	2.1	2.3
MENIFEE	0.9	1.1	1.4	1.6	1.9	2.1	2.3
MERCER	0.9	1.1	1.4	1.6	1.9	2.1	2.3
METCALFE	1.0	1.2	1.5	1.7	1.9	2.1	2.4
MONROE	1.0	1.2	1.5	1.7	1.9	2.1	2.4
MONTGOMERY	0.9	1.1	1.4	1.6	1.8	2.1	2.3
MORGAN	0.9	1.1	1.4	1.6	1.8	2.1	2.3
MUHLENBERG	1.0	1.2	1.5	1.7	1.9	2.1	2.4
NELSON	1.0	1.1	1.4	1.6	1.9	2.1	2.3
NICHOLAS	0.9	1.1	1.4	1.6	1.8	2.0	2.2
OHIO	1.0	1.2	1.5	1.7	1.9	2.1	2.3
OLDHAM	0.9	1.1	1.4	1.6	1.8	2.0	2.2
OWEN	0.9	1.1	1.4	1.6	1.8	2.0	2.2
OWSLEY	0.9	1.1	1.4	1.6	1.9	2.1	2.3
PENDLETON	0.9	1.1	1.4	1.6	1.8	2.0	2.2
PERRY	0.9	1.1	1.4	1.7	1.9	2.1	2.3
PIKE	0.9	1.1	1.4	1.6	1.9	2.1	2.3
POWELL	0.9	1.1	1.4	1.6	1.9	2.1	2.3
PULASKI	1.0	1.1	1.4	1.7	1.9	2.1	2.3
ROBERTSON	0.9	1.1	1.4	1.6	1.8	2.0	2.2
ROCKCASTLE	0.9	1.1	1.4	1.6	1.9	2.1	2.3
ROWAN	0.9	1.1	1.4	1.6	1.8	2.0	2.2
RUSSELL	1.0	1.1	1.4	1.7	1.9	2.1	2.3
SCOTT	0.9	1.1	1.4	1.6	1.8	2.0	2.2
SHELBY	0.9	1.1	1.4	1.6	1.8	2.0	2.3
SIMPSON	1.0	1.2	1.5	1.7	1.9	2.1	2.4
SPENCER	0.9	1.1	1.4	1.6	1.9	2.0	2.3
TAYLOR	1.0	1.1	1.4	1.7	1.9	2.1	2.3
TODD	1.0	1.2	1.5	1.7	1.9	2.1	2.4
TRIGG	1.1	1.2	1.5	1.8	2.0	2.2	2.4
TRIMBLE	0.9	1.1	1.4	1.6	1.8	2.0	2.2
UNION	1.0	1.2	1.5	1.7	2.0	2.2	2.4
WARREN	1.0	1.2	1.5	1.7	1.9	2.1	2.4
WASHINGTON	1.0	1.1	1.4	1.6	1.9	2.1	2.3
WAYNE	1.0	1.2	1.5	1.7	1.9	2.1	2.4
WEBSTER	1.0	1.2	1.5	1.7	1.9	2.1	2.4
WHITLEY	1.0	1.2	1.5	1.7	1.9	2.1	2.4
WOLFE	0.9	1.1	1.4	1.6	1.9	2.1	2.3
WOODFORD	0.9	1.1	1.4	1.6	1.9	2.0	2.3

DIVISION OF WATER RESOURCES
DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION
ENGINEERING MEMORANDUM NO.2 (4-30-71), REVISED (6-1-79)

1 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)						
COUNTY	1	2	5	10	25	50	100
ADAIR	1.2	1.4	1.8	2.1	2.4	2.7	2.9
ALLEN	1.2	1.5	1.8	2.1	2.4	2.7	2.9
ANDERSON	1.2	1.4	1.7	2.0	2.3	2.6	2.8
BALLARD	1.3	1.6	2.0	2.3	2.6	2.9	3.1
BARREN	1.2	1.4	1.8	2.1	2.4	2.7	2.9
BATH	1.1	1.3	1.7	2.0	2.3	2.6	2.8
BELL	1.2	1.4	1.8	2.2	2.4	2.7	3.0
BOONE	1.1	1.4	1.7	2.0	2.3	2.5	2.8
BOURBON	1.1	1.3	1.7	2.0	2.3	2.6	2.8
BOYD	1.1	1.3	1.7	2.0	2.3	2.6	2.9
BOYLE	1.2	1.4	1.8	2.1	2.4	2.6	2.9
BRACKEN	1.1	1.3	1.7	2.0	2.2	2.5	2.8
BREATHITT	1.1	1.3	1.8	2.1	2.4	2.6	2.9
BRECKINRIDGE	1.2	1.4	1.8	2.1	2.4	2.6	2.9
BULLITT	1.2	1.4	1.8	2.1	2.3	2.6	2.8
BUTLER	1.2	1.5	1.8	2.1	2.4	2.7	2.9
CALDWELL	1.3	1.5	1.9	2.2	2.5	2.8	3.0
CALLOWAY	1.3	1.6	2.0	2.2	2.6	2.8	3.1
CAMPBELL	1.1	1.3	1.7	2.0	2.3	2.5	2.8
CARLISLE	1.3	1.6	2.0	2.3	2.6	2.9	3.2
CARROLL	1.1	1.4	1.7	2.0	2.3	2.5	2.8
CARTER	1.1	1.3	1.7	2.0	2.3	2.6	2.8
CASEY	1.2	1.4	1.8	2.1	2.4	2.6	2.9
CHRISTIAN	1.3	1.5	1.9	2.2	2.5	2.8	3.0
CLARK	1.1	1.4	1.7	2.0	2.3	2.6	2.8
CLAY	1.2	1.4	1.8	2.1	2.4	2.7	2.9
CLINTON	1.2	1.4	1.8	2.1	2.4	2.7	2.9
CRITTENDEN	1.3	1.5	1.9	2.2	2.5	2.8	3.0
CUMBERLAND	1.2	1.4	1.8	2.1	2.4	2.7	2.9
DAVIESS	1.2	1.5	1.9	2.1	2.4	2.7	3.0
EDMONSON	1.2	1.5	1.8	2.1	2.4	2.7	2.9
ELLIOTT	1.1	1.3	1.7	2.0	2.3	2.6	2.9
ESTILL	1.1	1.4	1.7	2.1	2.3	2.6	2.9
FAYETTE	1.1	1.4	1.7	2.0	2.3	2.6	2.8
FLEMING	1.1	1.3	1.7	2.0	2.3	2.5	2.8
FLOYD	1.1	1.4	1.8	2.1	2.4	2.7	2.9
FRANKLIN	1.1	1.4	1.7	2.0	2.3	2.6	2.8
FULTON	1.3	1.6	2.0	2.3	2.7	2.9	3.2
GALLATIN	1.1	1.4	1.7	2.0	2.3	2.5	2.8
GARRARD	1.1	1.4	1.8	2.1	2.3	2.6	2.9

DIVISION OF WATER RESOURCES
DEPARTMENT FOR NATURAL AND ENVIRONMENTAL PROTECTION
ENGINEERING MEMORANDUM NO.2 (4-30-71), REVISED (6-1-79)

1 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)						
COUNTY	1	2	5	10	25	50	100
GRANT	1.1	1.4	1.7	2.0	2.3	2.5	2.8
GRAVES	1.3	1.6	2.0	2.2	2.6	2.8	3.1
GRAYSON	1.2	1.4	1.8	2.1	2.4	2.7	2.9
GREEN	1.2	1.4	1.8	2.1	2.4	2.7	2.9
GREENUP	1.1	1.3	1.7	2.0	2.3	2.6	2.8
HANCOCK	1.2	1.5	1.8	2.1	2.4	2.7	2.9
HARDIN	1.2	1.4	1.8	2.1	2.4	2.6	2.9
HARLAN	1.2	1.4	1.8	2.1	2.4	2.7	3.0
HARRISON	1.1	1.3	1.7	2.0	2.3	2.5	2.8
HART	1.2	1.4	1.8	2.1	2.4	2.7	2.9
HENDERSON	1.3	1.5	1.9	2.1	2.4	2.7	3.0
HENRY	1.2	1.4	1.7	2.0	2.3	2.6	2.8
HICKMAN	1.3	1.6	2.0	2.3	2.6	2.9	3.2
HOPKINS	1.3	1.5	1.9	2.2	2.5	2.7	3.0
JACKSON	1.2	1.4	1.8	2.1	2.4	2.6	2.9
JEFFERSON	1.2	1.4	1.8	2.0	2.3	2.6	2.8
JESSAMINE	1.1	1.4	1.7	2.1	2.3	2.6	2.8
JOHNSON	1.1	1.3	1.7	2.1	2.3	2.6	2.9
KENTON	1.1	1.4	1.7	2.0	2.3	2.5	2.8
KNOTT	1.1	1.4	1.8	2.1	2.4	2.7	2.9
KNOX	1.2	1.4	1.8	2.1	2.4	2.7	2.9
LARUE	1.2	1.4	1.8	2.1	2.4	2.6	2.9
LAUREL	1.2	1.4	1.8	2.1	2.4	2.7	2.9
LAWRENCE	1.1	1.3	1.7	2.0	2.3	2.6	2.9
LEE	1.1	1.4	1.8	2.1	2.3	2.6	2.9
LESLIE	1.2	1.4	1.8	2.1	2.4	2.7	2.9
LETCHER	1.2	1.4	1.8	2.1	2.4	2.7	3.0
LEWIS	1.1	1.3	1.7	2.0	2.3	2.5	2.8
LINCOLN	1.2	1.4	1.8	2.1	2.4	2.6	2.9
LIVINGSTON	1.3	1.5	2.0	2.3	2.5	2.8	3.1
LOGAN	1.2	1.5	1.9	2.2	2.4	2.7	3.0
LYON	1.3	1.5	2.0	2.2	2.5	2.8	3.0
MCCRACKEN	1.3	1.6	2.0	2.2	2.6	2.8	3.1
MCCREARY	1.2	1.4	1.8	2.2	2.4	2.7	2.9
MCLEAN	1.2	1.5	1.9	2.1	2.4	2.7	3.0
MADISON	1.1	1.4	1.8	2.1	2.3	2.6	2.9
MAGOFFIN	1.1	1.3	1.8	2.1	2.3	2.6	2.9
MARION	1.2	1.4	1.8	2.1	2.3	2.6	2.9
MARSHALL	1.3	1.6	2.0	2.2	2.6	2.8	3.1
MARTIN	1.1	1.3	1.7	2.1	2.3	2.6	2.9

DIVISION OF WATER RESOURCES
DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION
ENGINEERING MEMORANDUM NO. 2 (4-30-71), REVISED (6-1-79)

1 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)						
COUNTY	1	2	5	10	25	50	100
MASON	1.1	1.3	1.7	2.0	2.3	2.5	2.8
MEADE	1.2	1.4	1.8	2.1	2.4	2.6	2.9
MENIFEE	1.1	1.3	1.7	2.0	2.3	2.6	2.9
MERCER	1.2	1.4	1.8	2.1	2.3	2.6	2.8
METCALFE	1.2	1.4	1.8	2.1	2.4	2.7	2.9
MONROE	1.2	1.4	1.8	2.1	2.4	2.7	2.9
MONTGOMERY	1.1	1.3	1.7	2.0	2.3	2.6	2.8
MORGAN	1.1	1.3	1.7	2.1	2.3	2.6	2.9
MUHLENBERG	1.2	1.5	1.9	2.1	2.5	2.7	3.0
NELSON	1.2	1.4	1.8	2.1	2.3	2.6	2.9
NICHOLAS	1.1	1.3	1.7	2.0	2.3	2.6	2.8
OHIO	1.2	1.5	1.8	2.1	2.4	2.7	2.9
OLDHAM	1.2	1.4	1.8	2.0	2.3	2.6	2.8
OWEN	1.1	1.4	1.7	2.0	2.3	2.6	2.8
OWSLEY	1.1	1.4	1.8	2.1	2.4	2.6	2.9
PENDLETON	1.1	1.3	1.7	2.0	2.3	2.5	2.8
PERRY	1.2	1.4	1.8	2.1	2.4	2.7	3.0
PIKE	1.1	1.4	1.8	2.1	2.4	2.7	3.0
POWELL	1.1	1.3	1.7	2.1	2.3	2.6	2.9
PULASKI	1.2	1.4	1.8	2.1	2.4	2.7	2.9
ROBERTSON	1.1	1.3	1.7	2.0	2.3	2.5	2.8
ROCKCASTLE	1.2	1.4	1.8	2.1	2.4	2.6	2.9
ROWAN	1.1	1.3	1.7	2.0	2.3	2.6	2.8
RUSSELL	1.2	1.4	1.8	2.1	2.4	2.7	2.9
SCOTT	1.1	1.4	1.7	2.0	2.3	2.6	2.8
SHELBY	1.2	1.4	1.8	2.0	2.3	2.6	2.8
SIMPSON	1.2	1.5	1.9	2.2	2.4	2.7	2.9
SPENCER	1.2	1.4	1.8	2.1	2.3	2.6	2.8
TAYLOR	1.2	1.4	1.8	2.1	2.4	2.7	2.9
TODD	1.3	1.5	1.9	2.2	2.5	2.7	3.0
TRIGG	1.3	1.5	2.0	2.2	2.5	2.8	3.0
TRIMBLE	1.2	1.4	1.8	2.0	2.3	2.6	2.8
UNION	1.3	1.5	1.9	2.2	2.5	2.8	3.0
WARREN	1.2	1.5	1.8	2.1	2.4	2.7	2.9
WASHINGTON	1.2	1.4	1.8	2.1	2.3	2.6	2.8
WAYNE	1.2	1.4	1.8	2.1	2.4	2.7	2.9
WEBSTER	1.3	1.5	1.9	2.2	2.4	2.8	3.0
WHITLEY	1.2	1.4	1.8	2.2	2.4	2.7	2.9
WOLFE	1.1	1.3	1.7	2.1	2.3	2.6	2.9
WOODFORD	1.1	1.4	1.7	2.0	2.3	2.6	2.8

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2 HOURS RAINFALL (INCHES)

	FREQUENCY (YEARS)						
COUNTY	1	2	5	10	25	50	100
ADAIR	1.5	1.8	2.3	2.5	2.9	3.3	3.6
ALLEN	1.5	1.8	2.3	2.6	3.0	3.3	3.7
ANDERSON	1.5	1.7	2.2	2.5	2.8	3.2	3.4
BALLARD	1.7	1.9	2.4	2.8	3.2	3.5	3.9
BARREN	1.5	1.8	2.3	2.6	2.9	3.3	3.7
BATH	1.4	1.8	2.1	2.4	2.8	3.1	3.4
BELL	1.5	1.7	2.3	2.5	2.9	3.3	3.6
BOONE	1.4	1.7	2.1	2.4	2.7	3.1	3.3
BOURBON	1.4	1.7	2.1	2.4	2.8	3.1	3.4
BOYD	1.4	1.6	2.1	2.4	2.8	3.1	3.4
BOYLE	1.5	1.7	2.2	2.5	2.8	3.2	3.5
BRACKEN	1.4	1.6	2.1	2.4	2.7	3.1	3.3
BREATHITT	1.4	1.7	2.2	2.4	2.8	3.2	3.5
BRECKINRIDGE	1.5	1.8	2.2	2.5	2.9	3.2	3.6
BULLITT	1.5	1.8	2.2	2.5	2.8	3.2	3.5
BUTLER	1.6	1.8	2.3	2.6	2.9	3.3	3.7
CALDWELL	1.6	1.9	2.3	2.7	3.0	3.4	3.8
CALLOWAY	1.6	1.9	2.4	2.8	3.1	3.5	3.9
CAMPBELL	1.4	1.6	2.1	2.4	2.7	3.1	3.3
CARLISLE	1.7	1.9	2.4	2.8	3.2	3.5	3.9
CARROLL	1.5	1.7	2.1	2.4	2.8	3.1	3.4
CARTER	1.4	1.6	2.1	2.4	2.7	3.1	3.4
CASEY	1.5	1.7	2.2	2.5	2.9	3.2	3.5
CHRISTIAN	1.6	1.9	2.3	2.7	3.0	3.4	3.8
CLARK	1.4	1.7	2.2	2.4	2.8	3.1	3.4
CLAY	1.5	1.7	2.2	2.5	2.9	3.2	3.5
CLINTON	1.5	1.8	2.3	2.6	2.9	3.3	3.6
CRITTENDEN	1.6	1.9	2.3	2.7	3.0	3.4	3.8
CUMBERLAND	1.5	1.8	2.3	2.6	2.9	3.3	3.6
DAVIESS	1.6	1.8	2.3	2.6	2.9	3.3	3.6
EDMONSON	1.5	1.8	2.3	2.6	2.9	3.3	3.6
ELLIOTT	1.4	1.6	2.1	2.4	2.8	3.1	3.4
ESTILL	1.4	1.7	2.2	2.4	2.8	3.2	3.4
FAYETTE	1.4	1.7	2.1	2.4	2.8	3.1	3.4
FLEMING	1.4	1.6	2.1	2.4	2.7	3.1	3.4
FLOYD	1.4	1.6	2.2	2.4	2.8	3.2	3.4
FRANKLIN	1.5	1.7	2.1	2.4	2.8	3.1	3.4
FULTON	1.7	1.9	2.4	2.8	3.2	3.5	3.9
GALLATIN	1.5	1.7	2.1	2.4	2.7	3.1	3.3
GARRARD	1.5	1.7	2.2	2.5	2.8	3.2	3.5

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2 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)						
COUNTY	1	2	5	10	25	50	100
GRANT	1.4	1.7	2.1	2.4	2.7	3.1	3.3
GRAVES	1.7	1.9	2.4	2.8	3.1	3.5	3.9
GRAYSON	1.5	1.8	2.3	2.6	2.9	3.3	3.6
GREEN	1.5	1.8	2.2	2.5	2.9	3.3	3.6
GREENUP	1.4	1.6	2.0	2.3	2.7	3.0	3.3
HANCOCK	1.6	1.8	2.3	2.6	2.9	3.2	3.6
HARDIN	1.5	1.8	2.2	2.5	2.9	3.2	3.5
HARLAN	1.5	1.7	2.3	2.5	2.9	3.3	3.6
HARRISON	1.4	1.7	2.1	2.4	2.7	3.1	3.4
HART	1.5	1.8	2.3	2.5	2.9	3.3	3.6
HENDERSON	1.6	1.8	2.3	2.6	3.0	3.3	3.7
HENRY	1.5	1.7	2.1	2.4	2.8	3.1	3.4
HICKMAN	1.7	1.9	2.4	2.8	3.2	3.5	3.9
HOPKINS	1.6	1.9	2.3	2.7	3.0	3.3	3.7
JACKSON	1.4	1.7	2.2	2.5	2.9	3.2	3.5
JEFFERSON	1.5	1.7	2.2	2.5	2.8	3.2	3.5
JESSAMINE	1.5	1.7	2.2	2.4	2.8	3.2	3.4
JOHNSON	1.4	1.6	2.1	2.4	2.8	3.1	3.4
KENTON	1.4	1.6	2.1	2.4	2.7	3.0	3.3
KNOTT	1.4	1.7	2.2	2.4	2.9	3.2	3.5
KNOX	1.5	1.7	2.3	2.5	2.9	3.3	3.5
LARUE	1.5	1.8	2.2	2.5	2.9	3.2	3.6
LAUREL	1.5	1.7	2.2	2.5	2.9	3.2	3.5
LAWRENCE	1.4	1.6	2.1	2.4	2.8	3.1	3.4
LEE	1.4	1.7	2.2	2.4	2.8	3.2	3.4
LESLIE	1.5	1.7	2.3	2.5	2.9	3.2	3.5
LETCHER	1.4	1.7	2.3	2.5	2.9	3.2	3.5
LEWIS	1.4	1.6	2.1	2.4	2.7	3.0	3.3
LINCOLN	1.5	1.7	2.2	2.5	2.9	3.2	3.5
LIVINSTON	1.6	1.9	2.4	2.7	3.1	3.4	3.8
LOGAN	1.6	1.8	2.3	2.7	3.0	3.3	3.7
LYON	1.6	1.9	2.4	2.7	3.1	3.4	3.8
MCCRACKEN	1.7	1.9	2.4	2.8	3.1	3.4	3.8
MCCREARY	1.5	1.8	2.3	2.6	2.9	3.3	3.6
MCLEAN	1.6	1.8	2.3	2.6	3.0	3.3	3.7
MADISON	1.5	1.7	2.2	2.4	2.8	3.2	3.4
MAGOFFIN	1.4	1.7	2.2	2.4	2.8	3.1	3.4
MARION	1.5	1.7	2.2	2.5	2.9	3.2	3.5
MARSHALL	1.6	1.9	2.4	2.8	3.1	3.4	3.8
MARTIN	1.4	1.6	2.2	2.4	2.8	3.1	3.4

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2 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)						
COUNTY	1	2	5	10	25	50	100
MASON	1.4	1.6	2.1	2.4	2.7	3.0	3.3
MEADE	1.5	1.8	2.2	2.5	2.9	3.2	3.5
MENIFEE	1.4	1.7	2.1	2.4	2.8	3.1	3.4
MERCER	1.5	1.7	2.2	2.5	2.8	3.2	3.5
METCALFE	1.5	1.8	2.3	2.6	2.9	3.3	3.6
MONROE	1.5	1.8	2.3	2.6	2.9	3.3	3.7
MONTGOMERY	1.4	1.7	2.1	2.4	2.8	3.1	3.4
MORGAN	1.4	1.6	2.1	2.4	2.8	3.1	3.4
MUHLENBERG	1.6	1.9	2.3	2.7	3.0	3.3	3.7
NELSON	1.5	1.8	2.2	2.5	2.8	3.2	3.5
NICHOLAS	1.4	1.6	2.1	2.4	2.7	3.1	3.4
OHIO	1.6	1.8	2.3	2.4	2.9	3.3	3.7
OLDHAM	1.5	1.7	2.1	2.4	2.8	3.1	3.4
OWEN	1.5	1.7	2.1	2.4	2.8	3.1	3.4
OWSLEY	1.4	1.7	2.2	2.4	2.9	3.2	3.5
PENDLETON	1.4	1.7	2.1	2.4	2.7	3.1	3.3
PERRY	1.4	1.7	2.2	2.5	2.9	3.2	3.5
PIKE	1.4	1.7	2.2	2.4	2.9	3.2	3.5
POWELL	1.4	1.7	2.2	2.4	2.8	3.1	3.4
PULASKI	1.5	1.7	2.2	2.5	2.9	3.3	3.5
ROBERTSON	1.4	1.6	2.1	2.4	2.7	3.1	3.3
ROCKCASTLE	1.5	1.7	2.2	2.5	2.9	3.2	3.5
ROWAN	1.4	1.6	2.1	2.4	2.8	3.1	3.4
RUSSELL	1.5	1.7	2.3	2.5	2.9	3.3	3.6
SCOTT	1.4	1.7	2.1	2.4	2.7	3.1	3.3
SHELBY	1.5	1.7	2.2	2.4	2.8	3.2	3.4
SIMPSON	1.6	1.8	2.3	2.7	3.0	3.3	3.7
SPENCER	1.5	1.7	2.2	2.5	2.8	3.2	3.5
TAYLOR	1.5	1.8	2.2	2.5	2.9	3.2	3.5
TODD	1.6	1.8	2.3	2.9	3.0	3.3	3.8
TRIGG	1.6	1.9	2.4	2.7	3.1	3.4	3.8
TRIMBLE	1.5	1.7	2.1	2.4	2.8	3.1	3.4
UNION	1.6	1.9	2.3	2.7	3.0	3.3	3.7
WARREN	1.5	1.8	2.3	2.6	2.9	3.3	3.7
WASHINGTON	1.5	1.7	2.2	2.5	2.8	3.2	3.5
WAYNE	1.5	1.8	2.3	2.6	2.9	3.3	3.6
WEBSTER	1.6	1.9	2.3	2.7	3.0	3.3	3.7
WHITLEY	1.5	1.8	2.3	2.6	2.9	3.3	3.6
WOLFE	1.4	1.7	2.2	2.4	2.8	3.2	3.4
WOODFORD	1.5	1.7	2.2	2.4	2.8	3.2	3.4

DIVISION OF WATER RESOURCES
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3 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)						
COUNTY	1	2	5	10	25	50	100
ADAIR	1.6	2.0	2.4	2.8	3.3	3.5	3.9
ALLEN	1.7	2.0	2.5	2.8	3.3	3.6	4.0
ANDERSON	1.6	1.9	2.3	2.7	3.2	3.4	3.7
BALLARD	1.9	2.2	2.7	3.0	3.5	3.9	4.3
BARREN	1.7	2.0	2.5	2.8	3.3	3.6	3.0
BATH	1.5	1.8	2.3	2.6	3.1	3.3	3.6
BELL	1.6	1.9	2.4	2.8	3.3	3.5	3.9
BOONE	1.5	1.8	2.2	2.6	3.0	3.3	3.6
BOURBON	1.5	1.8	2.3	2.6	3.1	3.3	3.6
BOYD	1.5	1.8	2.2	2.6	2.9	3.2	3.6
BOYLE	1.6	1.9	2.4	2.7	3.2	3.4	3.8
BRACKEN	1.5	1.8	2.2	2.6	3.0	3.3	3.6
BREATHITT	1.5	1.9	2.3	2.7	3.1	3.4	3.7
BRECKINRIDGE	1.7	2.0	2.5	2.8	3.3	3.5	3.9
BULLITT	1.6	1.9	2.4	2.7	3.2	3.5	3.8
BUTLER	1.7	2.0	2.5	2.8	3.3	3.6	4.0
CALDWELL	1.8	2.1	2.6	2.9	3.4	3.7	4.2
CALLOWAY	1.8	2.1	2.7	3.0	3.4	3.8	4.2
CAMPBELL	1.5	1.8	2.2	2.6	3.0	3.3	3.6
CARLISLE	1.9	2.2	2.7	3.1	3.5	3.9	4.3
CARROLL	1.5	1.9	2.3	2.6	3.1	3.4	3.7
CARTER	1.5	1.8	2.2	2.6	3.0	3.3	3.6
CASEY	1.6	1.9	2.4	2.7	3.2	3.5	3.8
CHRISTIAN	1.8	2.1	2.6	2.9	3.4	3.7	4.1
CLARK	1.5	1.9	2.3	2.6	3.1	3.4	3.7
CLAY	1.6	1.9	2.4	2.8	3.2	3.4	3.8
CLINTON	1.7	2.0	2.5	2.8	3.3	3.6	3.9
CRITTENDEN	1.8	2.1	2.6	2.9	3.4	3.7	4.2
CUMBERLAND	1.7	2.0	2.5	2.8	3.3	3.6	3.9
DAVIESS	1.7	2.0	2.5	2.8	3.3	3.6	4.0
EDMONSON	1.7	2.0	2.5	2.8	3.3	3.6	4.0
ELLIOTT	1.5	1.8	2.2	2.6	3.0	3.3	3.6
ESTILL	1.6	1.9	2.3	2.7	3.2	3.4	3.7
FAYETTE	1.6	1.9	2.3	2.6	3.1	3.4	3.7
FLEMING	1.5	1.8	2.2	2.6	3.0	3.3	3.6
FLOYD	1.5	1.9	2.3	2.7	3.1	3.4	3.7
FRANKLIN	1.6	1.9	2.3	2.6	3.1	3.4	3.7
FULTON	1.9	2.2	2.7	3.1	3.5	3.9	4.4
GALLATIN	1.5	1.8	2.3	2.6	3.1	3.3	3.6
GARRARD	1.6	1.9	2.3	2.7	3.2	3.4	3.7

DIVISION OF WATER RESOURCES
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3 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)						
COUNTY	1	2	5	10	25	50	100
GRANT	1.5	1.8	2.3	2.6	3.1	3.3	3.6
GRAVES	1.9	2.2	2.7	3.0	3.5	3.9	4.3
GRAYSON	1.7	2.0	2.5	2.8	3.3	3.6	3.9
GREEN	1.7	2.0	2.4	2.8	3.3	3.5	3.9
GREENUP	1.5	1.8	2.2	2.5	2.9	3.2	3.5
HANCOCK	1.7	2.0	2.5	2.8	3.3	3.5	4.0
HARDIN	1.7	2.0	2.4	2.8	3.2	3.5	3.9
HARLAN	1.6	1.9	2.4	2.8	3.3	3.5	3.9
HARRISON	1.5	1.8	2.3	2.6	3.1	3.3	3.6
HART	1.7	2.0	2.5	2.8	3.3	3.5	3.9
HENDERSON	1.8	2.0	2.5	2.9	3.3	3.6	4.0
HENRY	1.6	1.9	2.3	2.7	3.1	3.4	3.7
HICKMAN	1.9	2.2	2.7	3.1	3.5	3.9	4.3
HOPKINS	1.8	2.1	2.6	2.9	3.4	3.7	4.1
JACKSON	1.6	1.9	2.3	2.7	3.2	3.4	3.7
JEFFERSON	1.6	1.9	2.4	2.7	3.2	3.4	3.8
JESSAMINE	1.6	1.9	2.3	2.7	3.2	3.4	3.7
JOHNSON	1.5	1.8	2.3	2.7	3.0	3.3	3.6
KENTON	1.5	1.8	2.2	2.6	3.0	3.3	3.6
KNOTT	1.5	1.9	2.3	2.8	3.2	3.4	3.8
KNOX	1.6	1.9	2.4	2.8	3.3	3.5	3.8
LARUE	1.6	2.0	2.4	2.7	3.2	3.5	3.9
LAUREL	1.6	1.9	2.4	2.8	3.2	3.5	3.8
LAWRENCE	1.5	1.8	2.2	2.6	3.0	3.3	3.6
LEE	1.5	1.9	2.3	2.7	3.2	3.4	3.7
LESLIE	1.6	1.9	2.4	2.8	3.2	3.4	3.8
LETCHER	1.5	1.9	2.3	2.8	3.2	3.4	3.8
LEWIS	1.5	1.8	2.2	2.6	3.0	3.3	3.6
LINCOLN	1.6	1.9	2.4	2.7	3.2	3.4	3.8
LIVINGTON	1.8	2.1	2.6	3.0	3.4	3.8	4.2
LOGAN	1.7	2.0	2.5	2.9	3.4	3.7	4.0
LYON	1.8	2.1	2.6	3.0	3.4	3.8	4.2
MCCRACKEN	1.9	2.1	2.7	3.0	3.4	3.8	4.3
MCCREARY	1.6	2.0	2.4	2.8	3.3	3.5	3.9
MCLEAN	1.7	2.0	2.5	2.9	3.3	3.6	4.0
MADISON	1.6	1.9	2.3	2.7	3.2	3.4	3.7
MAGOFFIN	1.5	1.8	2.3	2.7	3.1	3.3	3.7
MARION	1.6	1.9	2.4	2.7	3.2	3.5	3.8
MARSHALL	1.8	2.1	2.6	3.0	3.4	3.8	4.2
MARTIN	1.5	1.8	2.3	2.7	3.0	3.3	3.7

DIVISION OF WATER RESOURCES
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3 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)						
COUNTY	1	2	5	10	25	50	100
MASON	1.5	1.8	2.2	2.6	3.0	3.3	3.6
MEADE	1.7	2.0	2.4	2.8	3.2	3.5	3.9
MENIFEE	1.5	1.8	2.3	2.6	3.1	3.3	3.6
MERCER	1.6	1.9	2.4	2.7	3.2	3.4	3.7
METCALFE	1.7	2.0	2.5	2.8	3.3	3.6	3.9
MONROE	1.7	2.0	2.5	2.8	3.3	3.6	4.0
MONTGOMERY	1.5	1.8	2.3	2.6	3.1	3.3	3.6
MORGAN	1.5	1.8	2.3	2.6	3.1	3.3	3.6
MUHLENBERG	1.7	2.0	2.5	2.9	3.3	3.7	4.0
NELSON	1.6	1.9	2.4	2.7	3.2	3.5	3.8
NICHOLAS	1.5	1.8	2.3	2.6	3.1	3.3	3.6
OHIO	1.7	2.0	2.5	2.8	3.3	3.6	4.0
OLDHAM	1.6	1.9	2.3	2.7	3.1	3.4	3.7
OWEN	1.5	1.8	2.3	2.6	3.1	3.3	3.7
OWSLEY	1.6	1.9	2.3	2.7	3.2	3.4	3.7
PENDLETON	1.5	1.8	2.2	2.6	3.1	3.3	3.6
PERRY	1.5	1.9	2.3	2.8	3.2	3.4	3.8
PIKE	1.5	1.9	2.3	2.7	3.1	3.4	3.8
POWELL	1.5	1.8	2.3	2.7	3.1	3.4	3.7
PULASKIE	1.6	1.9	2.4	2.8	3.3	3.5	3.8
ROBERTSON	1.5	1.8	2.2	2.6	3.0	3.3	3.6
ROCKCASTLE	1.6	1.9	2.4	2.7	3.2	3.4	3.8
ROWAN	1.5	1.8	2.2	2.6	3.0	3.3	3.6
RUSSELL	1.6	2.0	2.4	2.8	3.3	3.5	3.9
SCOTT	1.6	2.0	2.3	2.6	3.1	3.4	3.6
SHELBY	1.6	1.9	2.3	2.7	3.2	3.4	3.7
SIMPSON	1.7	2.0	2.5	2.9	3.4	3.7	4.0
SPENCER	1.6	1.9	2.4	2.7	3.2	3.4	3.8
TAYLOR	1.6	1.9	2.4	2.8	3.3	3.5	3.8
TODD	1.8	2.1	2.6	2.9	3.4	3.7	4.1
TRIGG	1.8	2.1	2.6	2.9	3.4	3.8	4.2
TRIMBLE	1.6	1.9	2.3	2.7	3.1	3.4	3.7
UNION	1.8	2.1	2.6	2.9	3.3	3.7	4.1
WARREN	1.7	2.0	2.5	2.8	3.3	3.6	4.0
WASHINGTON	1.6	1.9	2.4	2.7	3.2	3.5	3.8
WAYNE	1.6	2.0	2.4	2.8	3.3	3.5	3.9
WEBSTER	1.8	2.1	2.6	2.9	3.3	3.7	4.1
WHITLEY	1.6	1.9	2.4	2.8	3.3	3.5	3.9
WOLFE	1.5	1.9	2.3	2.7	3.1	3.4	3.7
WOODFORD	1.6	1.9	2.3	2.7	3.1	3.4	3.7

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6 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)							
COUNTY	1	2	5	10	25	50	100	PMP
ADAIR	2.0	2.3	2.9	3.4	3.8	4.4	4.6	28.7
ALLEN	2.1	2.4	3.0	3.5	3.9	4.5	4.7	28.9
ANDERSON	1.9	2.2	2.8	3.2	3.7	4.2	4.4	28.1
BALLARD	2.2	2.6	3.2	3.7	4.2	4.7	5.1	28.7
BARREN	2.1	2.4	3.0	3.4	3.9	4.4	4.7	28.8
BATH	1.8	2.1	2.7	3.1	3.6	4.0	4.3	28.0
BELL	1.9	2.4	2.9	3.3	3.9	4.4	4.7	28.9
BOONE	1.9	2.2	2.7	3.1	3.5	4.0	4.2	27.5
BOURBON	1.9	2.2	2.7	3.2	3.6	4.0	4.3	28.0
BOYD	1.8	2.1	2.5	3.0	3.6	3.8	4.2	27.9
BOYLE	2.0	2.3	2.8	3.3	3.7	4.2	4.5	28.4
BRACKEN	1.8	2.1	2.7	3.1	3.5	3.9	4.2	27.7
BREATHITT	1.9	2.2	2.7	3.2	3.7	4.0	4.5	28.4
BRECKINRIDGE	2.0	2.4	2.9	3.4	3.8	4.3	4.6	28.3
BULLITT	2.0	2.3	2.9	3.3	3.7	4.2	4.5	28.2
BUTLER	2.1	2.4	3.0	3.5	3.9	4.4	4.7	28.7
CALDWELL	2.2	2.5	3.1	3.6	4.0	4.5	4.9	28.7
CALLOWAY	2.2	2.6	3.2	3.7	4.1	4.7	5.0	29.0
CAMPBELL	1.8	2.1	2.7	3.1	3.5	3.9	4.2	27.5
CARLISLE	2.2	2.6	3.3	3.7	4.2	4.7	5.1	28.9
CARROLL	1.9	2.2	2.7	3.2	3.6	4.0	4.3	27.7
CARTER	1.8	2.1	2.6	3.0	3.6	3.9	4.2	27.9
CASEY	2.0	2.3	2.9	3.3	3.8	4.3	4.5	28.6
CHRISTIAN	2.2	2.5	3.1	3.6	4.0	4.6	4.9	28.9
CLARK	1.9	2.2	2.7	3.2	3.7	4.1	4.3	28.1
CLAY	1.9	2.3	2.8	3.2	3.8	4.2	4.6	28.6
CLINTON	2.0	2.4	3.0	3.4	3.9	4.4	4.7	28.9
CRITTENDEN	2.2	2.5	3.1	3.6	4.0	4.5	4.9	28.6
CUMBERLAND	2.0	2.4	3.0	3.4	3.9	4.4	4.7	28.9
DAVIESS	2.1	2.4	3.0	3.4	3.9	4.4	4.7	28.3
EDMONSON	2.1	2.4	3.0	3.4	3.9	4.4	4.7	28.7
ELLIOTT	1.8	2.1	2.6	3.1	3.6	3.9	4.3	28.0
ESTILL	1.9	2.2	2.7	3.2	3.7	4.1	4.4	28.3
FAYETTE	1.9	2.2	2.8	3.2	3.7	4.1	4.4	28.1
FLEMING	1.8	2.1	2.6	3.1	3.6	3.9	4.2	27.9
FLOYD	1.8	2.2	2.7	3.1	3.8	3.9	4.5	28.4
FRANKLIN	1.9	2.2	2.8	3.2	3.6	4.1	4.4	28.0
FULTON	2.3	2.6	3.3	3.8	4.2	4.8	5.1	29.0
GALLATIN	1.9	2.2	2.7	3.2	3.5	4.0	4.3	27.7
GARRARD	1.9	2.2	2.8	3.2	3.7	4.2	4.4	28.3

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6 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)							
COUNTY	1	2	5	10	25	50	100	PMP
GRANT	1.9	2.2	2.7	3.1	3.5	4.0	4.3	27.7
GRAVES	2.2	2.6	3.3	3.7	4.1	4.7	5.0	28.9
GRAYSON	2.1	2.4	3.0	3.4	3.9	4.4	4.7	28.5
GREEN	2.0	2.3	2.9	3.4	3.8	4.3	4.6	28.6
GREENUP	1.8	2.1	2.5	3.0	3.5	3.8	4.1	27.7
HANCOCK	2.1	2.4	3.0	3.4	3.9	4.3	4.7	28.2
HARDIN	2.0	2.3	2.9	3.4	3.8	4.3	4.6	28.3
HARLAN	1.9	2.3	2.8	3.3	3.8	4.3	4.7	28.8
HARRISON	1.9	2.2	2.7	3.1	3.6	4.0	4.3	27.9
HART	2.0	2.3	2.9	3.4	3.9	4.4	4.6	28.6
HENDERSON	2.1	2.5	3.0	3.5	4.0	4.4	4.8	28.3
HENRY	1.9	2.2	2.8	3.2	3.6	4.1	4.4	27.9
HICKMAN	2.3	2.6	3.3	3.7	4.2	4.7	5.1	29.0
HOPKINS	2.1	2.5	3.1	3.5	4.0	4.5	4.8	28.6
JACKSON	1.9	2.3	2.8	3.2	3.8	4.2	4.5	28.5
JEFFERSON	2.0	2.3	2.8	3.3	3.7	4.2	4.5	28.0
JESSAMINE	1.9	2.2	2.8	3.2	3.7	4.1	4.4	28.2
JOHNSON	1.8	2.2	2.6	3.1	3.7	3.9	4.4	28.2
KENTON	1.8	2.1	2.7	3.1	3.5	3.9	4.2	27.5
KNOTT	1.9	2.2	2.7	3.2	3.8	4.0	4.5	28.5
KNOX	1.9	2.3	2.9	3.3	3.8	4.4	4.7	28.8
LARUE	2.0	2.3	2.9	3.4	3.8	4.3	4.6	28.4
LAUREL	1.9	2.3	2.8	3.3	3.8	4.3	4.6	28.7
LAWRENCE	1.8	2.1	2.6	3.0	3.6	3.9	4.3	28.1
LEE	1.9	2.2	2.7	3.2	3.7	4.1	4.4	28.4
LESLIE	1.9	2.3	2.8	3.3	3.8	4.2	4.6	28.7
LETCHER	1.9	2.3	2.8	3.2	3.8	4.1	4.6	28.6
LEWIS	1.8	2.1	2.6	3.0	3.5	3.9	4.2	27.8
LINCOLN	2.0	2.3	2.8	3.3	3.8	4.3	4.5	28.5
LIVINGTON	2.2	2.5	3.2	3.6	4.1	4.6	5.0	28.6
LOGAN	2.1	2.4	3.1	3.5	4.0	4.5	4.8	28.9
LYON	2.2	2.5	3.2	3.6	4.1	4.6	4.9	28.8
MCCRACKEN	2.2	2.6	3.2	3.7	4.1	4.6	5.0	28.7
MCCREARY	2.0	2.4	2.9	3.4	3.9	4.4	4.7	28.9
MCCLEAN	2.1	2.4	3.0	3.5	3.9	4.4	4.8	28.5
MADISON	1.9	2.2	2.8	3.2	3.7	4.2	4.4	28.3
MAGOFFIN	1.8	2.2	2.7	3.1	3.7	4.0	4.4	28.3
MARION	2.0	2.3	2.9	3.3	3.8	4.3	4.5	28.4
MARSHALL	2.2	2.6	3.2	3.7	4.1	4.6	5.0	28.8
MARTIN	1.8	2.1	2.6	3.0	3.7	3.9	4.4	28.2

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6 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)							
COUNTY	1	2	5	10	25	50	100	PMP
MASON	1.8	2.1	2.6	3.1	3.5	3.9	4.2	27.7
MEADE	2.0	2.3	2.9	3.3	3.8	4.3	4.6	28.2
MENIFEE	1.9	2.2	2.7	3.1	3.7	4.0	4.3	28.2
MERCER	1.9	2.2	2.8	3.3	3.7	4.2	4.4	28.3
METCALFE	2.0	2.4	3.0	3.4	3.9	4.4	4.7	28.8
MONROE	2.1	2.4	3.0	3.5	3.9	4.5	4.7	28.9
MONGOMERY	1.9	2.2	2.7	3.1	3.6	4.0	4.3	28.1
MORGAN	1.8	2.2	2.7	3.1	3.7	4.0	4.3	28.2
MUHLENBERG	2.1	2.5	3.1	3.5	4.0	4.5	4.8	28.6
NELSON	2.0	2.3	2.9	3.3	3.8	4.2	4.5	28.3
NICHOLAS	1.8	2.1	2.7	3.1	3.6	4.0	4.3	27.9
OHIO	2.1	2.4	3.0	3.4	3.9	4.4	4.7	28.5
OLDHAM	1.9	2.3	2.8	3.2	3.6	4.1	4.4	27.9
OWEN	1.9	2.2	2.7	3.2	3.6	4.0	4.3	27.8
OWSLEY	1.9	2.2	2.8	3.2	3.7	4.1	4.5	28.5
PENDLETON	1.8	2.1	2.7	3.1	3.5	4.0	4.2	27.7
PERRY	1.7	2.3	2.8	3.2	3.8	4.1	4.6	28.6
PIKE	1.8	2.2	2.7	3.1	3.8	4.0	4.5	28.4
POWELL	1.9	2.2	2.7	3.2	3.7	4.1	4.4	28.2
PULASKI	2.0	2.3	2.9	3.3	3.8	4.3	4.6	28.7
ROBERTSON	1.8	2.1	2.7	3.1	3.5	4.0	4.2	27.8
ROCKCASTLE	1.9	2.3	2.8	3.3	3.8	4.2	4.5	28.5
ROWAN	1.8	2.1	2.6	3.1	3.6	3.9	4.3	28.0
RUSSELL	2.0	2.3	2.9	3.4	3.7	4.4	4.6	28.8
SCOTT	1.9	2.2	2.7	3.2	3.6	4.1	4.3	27.9
SHELBY	1.9	2.2	2.8	3.2	3.7	4.1	4.4	28.0
SIMPSON	2.1	2.4	3.1	3.5	4.0	4.5	4.8	28.9
SPENCER	2.0	2.3	2.8	3.3	3.7	4.2	4.4	28.1
TAYLOR	2.0	2.3	2.9	3.4	3.8	4.3	4.5	28.5
TODD	2.2	2.5	3.1	3.5	4.0	4.6	4.8	28.9
TRIGG	2.2	2.5	3.1	3.6	4.1	4.3	4.9	28.9
TRIMBLE	1.9	2.2	2.8	3.2	3.6	4.1	4.4	27.8
UNION	2.1	2.5	3.1	3.5	4.0	4.5	4.8	28.4
WARREN	2.1	2.4	3.0	3.5	3.9	4.5	4.7	28.8
WASHINGTON	2.0	2.3	2.8	3.3	3.7	4.2	4.5	28.3
WAYNE	2.0	2.4	2.9	3.4	3.9	4.4	4.7	28.9
WEBSTER	2.1	2.5	3.1	3.5	4.0	4.5	4.8	28.5
WHITLEY	2.0	2.4	2.9	3.4	3.9	4.4	4.7	28.9
WOLFE	1.9	2.2	2.7	3.1	3.7	4.0	4.4	28.3
WOODFORD	1.9	2.2	2.8	3.2	3.7	4.1	4.4	28.1

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DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION
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12 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)							
COUNTY	1	2	5	10	25	50	100	PMP
ADAIR	2.4	2.8	3.5	4.0	4.5	5.1	5.5	33.8
ALLEN	2.5	2.9	3.7	4.2	4.6	5.3	5.7	34.2
ANDERSON	2.3	2.7	3.4	3.8	4.3	4.8	5.3	33.1
BALLARD	2.7	3.1	3.8	4.4	4.9	5.6	6.0	34.1
BARREN	2.5	2.9	3.6	4.1	4.6	5.2	5.6	33.9
BATH	2.2	2.6	3.2	3.6	4.2	4.6	5.2	32.6
BELL	2.4	2.8	3.4	3.9	4.5	4.9	5.6	34.2
BOONE	2.2	2.6	3.2	3.6	4.1	4.6	5.1	32.1
BOURBON	2.2	2.6	3.2	3.7	4.2	4.7	5.2	33.0
BOYD	2.1	2.5	3.0	3.5	4.0	4.4	5.0	32.5
BOYLE	2.3	2.7	3.4	3.9	4.4	4.9	5.4	33.3
BRACKEN	2.2	2.6	3.1	3.6	4.1	4.5	5.1	32.3
BREATHITT	2.2	2.6	3.2	3.7	4.2	4.7	5.3	33.5
BRECKINRIDGE	2.4	2.8	3.6	4.0	4.5	5.1	5.5	33.4
BULLITT	2.4	2.8	3.5	3.9	4.4	4.9	5.4	33.2
BUTLER	2.5	2.9	3.6	4.1	4.6	5.3	5.7	33.7
CALDWELL	2.6	3.0	3.7	4.3	4.8	5.4	5.8	34.0
CALLOWAY	2.7	3.1	3.8	4.4	4.9	5.6	6.0	34.4
CAMPBELL	2.2	2.6	3.0	3.6	4.1	4.5	5.1	32.1
CARLISLE	2.7	3.1	3.8	4.4	4.9	5.7	6.1	34.3
CARROLL	2.3	2.7	3.3	3.7	4.2	4.7	5.2	32.4
CARTER	2.1	2.5	3.0	3.5	4.0	4.4	5.0	32.6
CASEY	2.4	2.8	3.5	3.9	4.5	5.0	5.5	33.7
CHRISTIAN	2.6	3.0	3.7	4.3	4.7	5.5	5.8	34.2
CLARK	2.3	2.7	3.3	3.7	4.3	4.7	5.3	33.1
CLAY	2.3	2.7	3.3	3.8	4.4	4.8	5.4	33.8
CLINTON	2.5	2.9	3.6	4.1	4.6	5.2	5.6	34.2
CRITTENDEN	2.6	3.0	3.7	4.3	4.8	5.4	5.8	33.7
CUMBERLAND	2.5	2.9	3.6	4.1	4.6	5.2	5.6	34.2
DAVIESS	2.5	2.9	3.6	4.1	4.6	5.2	5.6	33.5
EDMONSON	2.5	2.9	3.7	4.1	4.6	5.2	5.6	33.8
ELLIOTT	2.1	2.5	3.1	3.6	4.1	4.5	5.1	32.9
ESTILL	2.3	2.7	3.3	3.7	4.3	4.8	5.3	33.4
FAYETTE	2.3	2.7	3.3	3.8	4.3	4.7	5.3	33.1
FLEMING	2.2	2.6	3.1	3.6	4.1	4.5	5.1	32.6
FLOYD	2.2	2.6	3.2	3.7	4.2	4.6	5.2	33.5
FRANKLIN	2.3	2.7	3.3	3.8	4.3	4.8	5.3	33.0
FULTON	2.7	3.2	3.9	4.4	5.0	5.8	6.2	34.5
GALLATIN	2.2	2.6	3.2	3.7	4.2	4.6	5.2	32.3
GARRARD	2.3	2.7	3.4	3.8	4.3	4.9	5.4	33.5

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12 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)							
COUNTY	1	2	5	10	25	50	100	PMP
GRANT	2.2	2.6	3.2	3.7	4.2	4.6	5.2	32.2
GRAVES	2.7	3.1	3.8	4.4	4.9	5.7	6.0	34.4
GRAYSON	2.5	2.9	3.6	4.1	4.5	5.2	5.6	33.5
GREEN	2.4	2.8	3.5	4.0	4.5	5.1	5.5	33.7
GREENUP	2.1	2.5	3.0	3.5	4.0	4.4	5.0	32.4
HANCOCK	2.5	2.9	3.6	4.1	4.5	5.1	5.6	33.3
HARDIN	2.4	2.8	3.5	4.0	4.5	5.1	5.5	33.4
HARLAN	2.3	2.7	3.4	3.8	4.4	4.9	5.5	34.0
HARRISON	2.2	2.6	3.2	3.7	4.2	4.6	5.2	32.6
HART	2.5	2.8	3.6	4.1	4.5	5.2	5.5	33.7
HENDERSON	2.5	2.9	3.6	4.1	4.6	5.3	5.7	33.5
HENRY	2.3	2.7	3.3	3.8	4.3	4.8	5.3	32.6
HICKMAN	2.7	3.1	3.9	4.4	4.9	5.7	6.1	34.4
HOPKINS	2.6	3.0	3.7	4.2	4.7	5.4	5.8	33.8
JACKSON	2.3	2.7	3.3	3.8	4.3	4.8	5.4	33.5
JEFFERSON	2.4	2.8	3.4	3.9	4.4	4.9	5.4	33.0
JESSAMINE	2.3	2.7	3.3	3.8	4.3	4.8	5.3	33.3
JOHNSON	2.2	2.5	3.1	3.6	4.1	4.5	5.1	33.1
KENTON	2.2	2.6	3.2	3.6	4.1	4.5	5.1	32.1
KNOTT	2.2	2.6	3.2	3.7	4.2	4.7	5.3	33.8
KNOX	2.4	2.8	3.4	3.9	4.4	4.9	5.5	34.0
LARUE	2.4	2.8	3.5	4.0	4.5	5.1	5.5	33.5
LAUREL	2.4	2.8	3.4	3.9	4.4	4.9	5.5	33.8
LAWRENCE	2.1	2.5	3.0	3.5	4.0	4.5	5.1	32.9
LEE	2.3	2.7	3.3	3.7	4.3	4.7	5.3	33.5
LESLIE	2.3	2.7	3.3	3.8	4.3	4.8	5.4	33.8
LETCHER	2.3	2.6	3.3	3.7	4.3	4.7	5.4	33.8
LEWIS	2.1	2.5	3.0	3.5	4.0	4.4	5.0	32.4
LINCOLN	2.3	2.7	3.4	3.9	4.4	4.9	5.4	33.5
LIVINGSTON	2.6	3.0	3.8	4.3	4.8	5.5	5.9	34.0
LOGAN	2.6	2.9	3.7	4.2	4.7	5.4	5.7	34.2
LYON	2.6	3.0	3.8	4.3	4.8	5.5	5.9	34.1
MCCRACKEN	2.6	3.1	3.8	4.4	4.9	5.6	6.0	34.1
MCCREARY	2.4	2.8	3.5	4.0	4.5	5.1	5.6	34.1
MCLEAN	2.5	2.9	3.7	4.2	4.6	5.3	5.7	33.6
MADISON	2.3	2.7	3.3	3.8	4.3	4.8	5.3	33.3
MAGOFFIN	2.2	2.6	3.2	3.6	4.2	4.6	5.2	33.4
MARION	2.4	2.8	3.5	3.9	4.4	5.0	5.4	33.5
MARSHALL	2.6	3.1	3.8	4.3	4.8	5.6	5.9	34.2
MARTIN	2.1	2.5	3.1	3.6	4.0	4.5	5.1	33.1

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12 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)							
COUNTY	1	2	5	10	25	50	100	PMP
MASON	2.1	2.6	3.1	3.6	4.1	4.5	5.1	32.3
MEADE	2.4	2.8	3.5	4.0	4.5	5.0	5.5	33.2
MENIFEE	2.2	2.6	3.2	3.6	4.2	4.6	5.2	33.1
MERCER	2.3	2.7	3.4	3.9	4.4	4.9	5.4	33.2
METCALFE	2.5	2.9	3.6	4.1	4.6	5.2	5.6	33.9
MONROE	2.5	2.9	3.6	4.1	4.6	5.3	5.7	34.2
MONTGOMERY	2.2	2.6	3.2	3.7	4.2	4.6	5.2	33.1
MORGAN	2.2	2.6	3.1	3.6	4.1	4.6	5.2	33.2
MUHLENBERG	2.5	2.9	3.7	4.2	4.7	5.3	5.7	33.8
NELSON	2.4	2.8	3.5	3.9	4.4	5.0	5.4	33.3
NICHOLAS	2.2	2.6	3.2	3.6	4.2	4.6	5.2	32.6
OHIO	2.5	2.9	3.6	4.1	4.6	5.2	5.6	33.6
OLDHAM	2.3	2.7	3.4	3.8	4.3	4.8	5.3	32.9
OWEN	2.2	2.7	3.3	3.7	4.2	4.7	5.2	32.5
OWSLEY	2.3	2.7	3.3	3.8	4.3	4.8	5.3	33.5
PENDLETON	2.2	2.6	3.2	3.6	4.2	4.6	5.2	32.2
PERRY	2.3	2.7	3.3	3.7	1.3	4.8	5.4	33.7
PIKE	2.2	2.5	3.2	3.7	4.1	4.6	5.2	33.5
POWELL	2.2	2.6	3.2	3.7	4.2	4.7	5.3	33.3
PULASKI	2.4	2.8	3.5	3.9	4.5	5.0	5.5	33.8
ROBERTSON	2.2	2.6	3.1	3.6	4.1	4.5	5.1	32.4
ROCKCASTLE	2.3	2.7	3.4	3.8	4.4	4.9	5.4	33.5
ROWAN	2.2	2.6	3.1	3.6	4.1	4.5	5.1	32.6
RUSSELL	2.4	2.8	3.5	4.0	4.5	5.1	5.5	33.9
SCOTT	2.3	2.7	3.3	3.7	4.2	4.7	5.2	32.8
SHELBY	2.3	2.7	3.4	3.8	4.3	4.8	5.3	33.0
SIMPSON	2.6	2.9	3.7	4.2	4.7	5.4	5.7	34.2
SPENCER	2.3	2.7	3.4	3.9	4.4	4.9	5.4	33.1
TAYLOR	2.4	2.8	3.5	4.0	4.5	5.0	5.5	33.6
TODD	2.6	3.0	3.7	4.2	4.7	5.4	5.8	34.2
TRIGG	2.6	3.0	3.8	4.3	4.8	5.5	5.9	34.2
TRIMBLE	2.3	2.7	3.3	3.8	4.3	4.8	5.3	32.4
UNION	2.6	3.0	3.7	4.3	4.7	5.3	5.8	33.5
WARREN	2.5	2.9	3.6	4.1	4.6	5.3	5.7	33.9
WASHINGTON	2.4	2.8	3.4	3.9	4.4	4.9	5.4	33.3
WAYNE	2.4	2.8	3.5	4.0	4.6	5.1	5.6	34.1
WEBSTER	2.6	3.0	3.7	4.2	4.7	5.3	5.8	33.5
WHITLEY	2.4	2.8	3.5	3.9	4.5	5.0	5.6	34.1
WOLFE	2.2	2.6	3.2	3.7	4.2	4.7	5.2	33.2
WOODFORD	2.3	2.7	3.3	3.8	4.3	4.8	5.3	33.1

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24 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)							
COUNTY	1	2	5	10	25	50	100	PMP
ADAIR	2.8	3.3	4.1	4.6	5.4	5.9	6.4	36.5
ALLEN	2.8	3.4	4.3	4.8	5.6	6.1	6.6	37.0
ANDERSON	2.7	3.1	3.9	4.4	5.2	5.6	6.2	35.0
BALLARD	3.1	3.6	4.5	5.1	5.8	6.5	7.0	36.5
BARREN	2.8	3.3	4.2	4.7	5.5	6.0	6.5	36.5
BATH	2.5	3.0	3.7	4.2	4.9	5.4	5.9	35.0
BELL	2.6	3.1	3.9	4.5	5.2	5.8	6.3	37.0
BOONE	2.6	3.0	3.7	4.2	4.9	5.4	5.9	34.0
BOURBON	2.6	3.0	3.8	4.3	5.0	5.4	6.0	35.0
BOYD	2.5	2.7	3.5	4.0	4.6	5.0	5.5	35.0
BOYLE	2.7	3.2	4.0	4.5	5.2	5.7	6.3	35.5
BRACKEN	2.5	3.0	3.7	4.2	4.9	5.3	5.8	34.5
BREATHITT	2.6	3.0	3.7	4.3	4.9	5.4	5.9	36.0
BRECKINRIDGE	2.8	3.3	4.1	4.6	5.4	5.9	6.4	35.5
BULLITT	2.7	3.2	4.0	4.5	5.2	5.7	6.3	35.5
BUTLER	2.9	3.4	4.2	4.8	5.5	6.1	6.6	36.0
CALDWELL	3.0	3.4	4.3	4.9	5.6	6.3	6.8	36.5
CALLOWAY	3.1	3.5	4.4	5.0	5.8	6.5	6.9	37.0
CAMPBELL	2.5	3.0	3.7	4.2	4.9	5.3	5.8	34.0
CARLISLE	3.1	3.6	4.5	5.1	5.8	6.5	7.0	37.0
CARROLL	2.6	3.1	3.8	4.3	5.1	5.5	6.1	34.5
CARTER	2.5	2.8	3.6	4.0	4.7	5.1	5.6	35.0
CASEY	2.7	3.2	4.0	4.5	5.3	5.8	6.3	36.0
CHRISTIAN	3.0	3.4	4.3	4.9	5.7	6.3	6.8	36.5
CLARK	2.6	3.0	3.8	4.3	5.0	5.5	6.1	35.5
CLAY	2.6	3.0	3.8	4.4	5.1	5.6	6.2	36.5
CLINTON	2.8	3.3	4.2	4.7	5.5	6.0	6.5	37.0
CRITTENDEN	3.0	3.5	4.3	4.7	5.6	6.3	6.8	36.0
CUMBERLAND	2.8	3.3	4.2	4.7	5.5	6.0	6.5	37.0
DAVIESS	2.8	3.3	4.2	4.7	5.5	6.0	6.5	35.5
EDMONSON	2.8	3.3	4.2	4.7	5.5	6.0	6.5	36.0
ELLIOTT	2.5	2.8	3.6	4.1	4.7	5.2	5.7	35.5
ESTILL	2.6	3.0	3.8	4.3	5.0	5.5	6.1	35.5
FAYETTE	2.6	3.1	3.8	4.3	5.1	5.5	6.1	35.5
FLEMING	2.5	2.9	3.6	4.1	4.8	5.3	5.8	35.0
FLOYD	2.5	2.9	3.7	4.2	4.8	5.3	5.7	36.0
FRANKLIN	2.6	3.1	3.9	4.4	5.1	5.5	6.1	35.0
FULTON	3.1	3.7	4.5	5.2	5.9	6.6	7.1	37.5
GALLATIN	2.6	3.1	3.8	4.3	5.0	5.4	6.0	34.5
GARRARD	2.6	3.1	3.9	4.4	5.2	5.6	6.2	36.0

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24 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)							
COUNTY	1	2	5	10	25	50	100	PMP
GRANT	2.6	3.1	3.7	4.2	5.0	5.4	6.0	34.5
GRAVES	3.1	3.6	4.5	5.1	5.8	6.5	7.0	37.0
GRAYSON	2.8	3.3	4.2	4.7	5.5	6.0	6.2	36.0
GREEN	2.8	3.3	4.1	4.6	5.4	5.9	6.4	36.0
GREENUP	2.5	2.8	3.5	4.0	4.6	5.0	5.5	35.0
HANCOCK	2.8	3.3	4.1	4.7	5.4	6.0	6.5	35.5
HARDIN	2.7	3.2	4.1	4.6	5.3	5.9	6.4	35.5
HARLAN	2.6	3.0	3.8	4.4	5.1	5.7	6.1	37.0
HARRISON	2.6	3.0	3.7	4.2	5.0	5.4	6.0	35.0
HART	2.8	3.3	4.1	4.6	5.4	5.9	6.4	36.0
HENDERSON	2.9	3.4	4.2	4.8	5.5	6.1	6.6	35.5
HENRY	2.6	3.1	3.9	4.4	5.1	5.5	6.1	34.5
HICKMAN	3.1	3.6	4.5	5.2	5.9	6.6	7.0	37.0
HOPKINS	2.9	3.4	4.3	4.8	5.5	6.2	6.7	36.0
JACKSON	2.9	3.1	3.8	4.4	5.1	5.6	6.2	36.0
JEFFERSON	2.7	3.2	4.0	4.5	5.2	5.7	6.2	35.0
JESSAMINE	2.6	3.1	3.9	4.4	5.1	5.5	6.2	35.5
JOHNSON	2.5	2.8	3.6	4.1	4.7	5.2	5.7	35.5
KENTON	2.5	3.0	3.7	4.2	4.9	5.3	5.8	34.0
KNOTT	2.5	2.9	3.7	4.3	4.9	5.5	5.9	36.5
KNOX	2.6	3.1	3.9	4.5	5.2	5.8	6.3	37.0
LARUE	2.7	3.2	4.1	4.6	5.3	5.8	6.4	35.5
LAUREL	2.6	3.1	3.9	4.5	5.2	5.7	6.3	36.5
LAWRENCE	2.5	2.8	3.6	4.0	4.7	5.1	5.6	35.5
LEE	2.6	3.0	3.8	4.3	5.0	5.5	6.1	36.0
LESLIE	2.6	3.0	3.8	4.4	5.0	5.6	6.1	36.5
LETCHER	2.5	2.9	3.7	4.3	4.9	5.6	5.9	36.5
LEWIS	2.5	2.8	3.6	4.0	4.7	5.1	5.6	35.0
LINCOLN	2.7	3.2	3.9	4.5	5.2	5.7	6.3	36.0
LIVINGSTON	3.0	3.5	4.4	4.9	5.7	6.1	6.9	36.0
LOGAN	2.9	3.4	4.3	4.8	5.6	6.2	6.7	36.5
LYON	3.0	3.5	4.4	4.9	5.7	6.4	6.8	36.5
MCCRACKEN	3.0	3.6	4.4	5.0	5.8	6.4	6.9	36.5
MCREARY	2.7	3.2	4.0	4.6	5.3	5.9	6.4	37.0
MCLEAN	2.9	3.4	4.2	4.8	5.5	6.1	6.6	35.5
MADISON	2.6	3.1	3.8	4.3	5.1	5.6	6.1	35.5
MAGOFFIN	2.5	2.9	3.7	4.2	4.8	5.3	5.8	36.0
MARION	2.7	3.2	4.0	4.5	5.3	5.8	6.3	36.0
MARSHALL	3.0	3.5	4.4	5.0	5.7	6.4	6.9	37.0
MARTIN	2.5	2.8	3.6	4.1	4.7	5.2	5.6	36.0

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24 HOUR RAINFALL (INCHES)

	FREQUENCY (YEARS)							
COUNTY	1	2	5	10	25	50	100	PMP
MASON	2.5	2.9	3.6	4.1	4.8	5.3	5.8	34.5
MEADE	2.7	3.2	4.1	4.6	5.3	5.8	6.4	35.0
MENIFEE	2.5	2.9	3.7	4.2	4.9	5.4	5.9	35.5
MERCER	2.7	3.2	3.9	4.4	5.2	5.6	6.2	35.5
METCALFE	2.8	3.3	4.2	4.7	5.5	6.0	6.5	36.5
MONROE	2.8	3.4	4.2	4.7	5.6	6.0	6.6	37.0
MONTGOMERY	2.6	3.0	3.7	4.2	5.0	5.4	6.0	35.5
MORGAN	2.5	2.9	3.7	4.1	4.8	5.3	5.8	35.5
MUHLENBERG	2.9	3.4	4.3	4.8	5.5	6.2	6.7	36.0
NELSON	2.7	3.2	4.0	4.5	5.3	5.7	6.3	35.5
NICHOLAS	2.6	3.0	3.7	4.2	4.9	5.4	5.9	35.0
OHIO	2.8	3.3	4.2	4.7	5.5	6.0	6.5	36.0
OLDHAM	2.7	3.2	3.9	4.4	5.2	5.6	6.2	34.5
OWEN	2.6	3.1	3.8	4.3	5.1	5.5	6.1	34.5
OWSLEY	2.6	3.1	3.8	4.3	5.1	5.5	6.1	36.5
PENDLETON	2.6	3.1	3.7	4.2	4.9	5.3	5.9	34.5
PERRY	2.5	3.0	3.8	4.3	5.0	5.5	6.0	36.5
PIKE	2.5	2.9	3.6	4.2	4.8	5.4	5.7	36.5
POWELL	2.6	3.0	3.8	4.3	5.0	5.5	6.0	35.5
PULASKI	2.7	3.2	4.0	4.5	5.3	5.8	6.3	36.5
ROBERTSON	2.5	3.0	3.7	4.2	4.9	5.3	5.9	34.5
ROCKCASTLE	2.6	3.1	3.9	4.4	5.2	5.7	6.2	36.0
ROWAN	2.5	2.9	3.6	4.1	4.8	5.3	5.8	35.0
RUSSELL	2.8	3.3	4.1	4.6	5.4	5.9	6.4	36.5
SCOTT	2.6	3.1	3.8	4.3	5.1	5.5	6.1	35.0
SHELBY	2.7	3.2	3.9	4.4	5.2	5.6	6.2	35.0
SIMPSON	2.9	3.4	4.3	4.8	5.6	6.1	6.7	37.0
SPENCER	2.7	3.2	4.0	4.5	5.2	5.6	6.2	35.0
TAYLOR	2.7	3.2	4.1	4.6	5.3	5.8	6.4	36.0
TODD	2.9	3.4	4.3	4.9	5.6	6.3	6.7	36.5
TRIGG	3.0	3.5	4.4	5.0	5.7	6.4	6.8	37.0
TRIMBLE	2.6	3.1	3.9	4.4	5.1	5.5	6.1	34.5
UNION	2.9	3.4	4.3	4.8	5.5	6.2	6.7	35.5
WARREN	2.9	3.4	4.2	4.8	5.5	6.1	6.6	36.5
WASHINGTON	2.7	3.2	4.0	4.5	5.2	5.7	6.3	35.5
WAYNE	2.8	3.3	4.1	4.6	5.4	5.9	6.4	37.0
WEBSTER	2.9	3.4	4.3	4.8	5.5	6.2	6.7	36.0
WHITLEY	2.7	3.2	4.0	4.5	5.3	5.9	6.4	37.0
WOLFE	2.5	2.9	3.7	4.2	4.9	5.4	5.9	36.0
WOODFORD	2.6	3.1	3.9	4.4	5.1	5.6	6.2	35.0

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2 DAY RAINFALL (INCHES)

	FREQUENCY (YEARS)							
COUNTY	1	2	5	10	25	50	100	PMP
ADAIR	0.0	3.8	4.6	5.3	6.3	6.7	7.5	40.0
ALLEN	0.0	3.9	4.8	5.5	6.5	7.0	7.8	40.5
ANDERSON	0.0	3.6	4.4	5.1	6.0	6.4	7.2	39.0
BALLARD	0.0	4.2	5.2	5.9	4.8	7.6	8.3	40.5
BARREN	0.0	3.9	4.7	5.5	6.4	6.9	7.7	40.0
BATH	0.0	3.4	4.1	4.9	5.6	6.1	6.9	39.0
BELL	0.0	3.6	4.5	5.1	6.0	6.7	7.3	41.0
BOONE	0.0	3.4	4.1	4.8	5.6	6.0	6.8	38.0
BOURBON	0.0	3.5	4.2	4.9	5.7	6.1	7.0	38.5
BOYD	0.0	3.2	3.9	4.6	5.2	5.8	6.4	38.5
BOYLE	0.0	3.6	4.4	5.2	6.1	6.5	7.3	39.5
BRACKEN	0.0	3.4	4.1	4.8	5.5	6.0	6.8	38.0
BREATHITT	0.0	3.4	4.2	4.9	5.6	6.3	6.9	39.5
BRECKINRIDGE	0.0	3.8	4.6	5.3	6.3	6.7	7.5	39.0
BULLITT	0.0	3.7	4.5	5.2	6.2	6.5	7.3	39.0
BUTLER	0.0	3.9	4.8	5.5	6.4	6.9	7.7	40.0
CALDWELL	0.0	4.0	5.0	5.7	6.6	7.2	7.9	40.0
CALLOWAY	0.0	4.1	5.1	5.9	6.8	7.6	8.2	41.0
CAMPBELL	0.0	3.4	4.1	4.7	5.5	6.0	6.8	38.0
CARLISLE	0.0	4.2	5.2	6.0	6.8	7.7	8.3	41.0
CARROLL	0.0	3.5	4.2	4.9	5.8	6.2	7.0	38.0
CARTER	0.0	3.2	4.0	4.7	5.3	5.9	6.6	38.5
CASEY	0.0	3.7	4.5	5.2	6.2	6.6	7.4	40.0
CHRISTIAN	0.0	4.0	5.0	5.7	6.6	7.2	7.9	40.5
CLARK	0.0	3.5	4.2	5.0	5.8	6.2	7.1	39.0
CLAY	0.0	3.5	4.4	5.0	5.9	6.5	7.3	40.0
CLINTON	0.0	3.8	4.7	5.6	6.4	6.9	7.6	40.5
CRITTTENDEN	0.0	4.0	5.0	5.7	6.6	7.2	7.9	40.0
CUMBERLAND	0.0	3.8	4.7	5.4	6.4	6.9	7.6	40.5
DAVIESS	0.0	3.8	4.7	5.4	6.4	6.9	7.6	39.5
EDMONSON	0.0	3.8	4.7	5.5	6.4	6.8	7.6	40.0
ELLIOTT	0.0	3.3	4.0	4.7	5.4	6.0	6.7	39.0
ESTILL	0.0	3.5	4.3	5.0	5.8	6.3	7.1	39.5
FAYETTE	0.0	3.5	4.3	5.0	5.9	6.3	7.1	39.0
FLEMING	0.0	3.3	4.0	4.8	5.5	6.0	6.8	38.5
FLOYD	0.0	3.3	4.0	4.8	5.5	6.2	6.7	40.0
FRANKLIN	0.0	3.6	4.2	5.0	5.9	6.3	7.1	38.5
FULTON	0.0	4.3	5.3	6.1	7.0	7.9	8.5	41.0
GALLATIN	0.0	3.5	4.2	4.9	5.7	6.1	7.0	38.0
GARRARD	0.0	3.6	4.4	5.1	6.0	6.4	7.2	39.5

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2 DAY RAINFALL (INCHES)

	FREQUENCY (YEARS)							
COUNTY	1	2	5	10	25	50	100	PMP
GRANT	0.0	3.5	4.2	4.9	5.7	6.1	7.0	38.0
GRAVES	0.0	4.2	5.3	5.9	6.8	7.6	8.3	41.0
GRAYSON	0.0	3.8	4.7	5.4	6.3	6.8	7.6	39.5
GREEN	0.0	3.8	4.6	5.3	6.3	6.7	7.5	40.0
GREENUP	0.0	3.2	3.9	4.6	5.2	5.8	6.4	38.5
HANCOCK	0.0	3.8	4.7	5.4	6.3	6.8	7.6	39.0
HARDIN	0.0	3.7	4.6	5.3	6.3	6.6	7.4	39.5
HARLAN	0.0	3.5	4.4	4.9	5.8	6.6	7.2	41.0
HARRISON	0.0	3.5	4.0	4.9	5.7	6.1	7.0	38.5
HART	0.0	3.8	4.7	5.4	6.3	6.8	7.6	39.5
HENDERSON	0.0	3.9	4.8	5.5	6.4	6.9	7.7	39.0
HENRY	0.0	3.6	4.3	5.0	5.9	6.2	7.1	38.5
HICKMAN	0.0	4.2	5.2	6.0	6.9	7.8	8.4	41.0
HOPKINS	0.0	3.9	4.9	5.6	6.5	7.0	7.8	39.5
JACKSON	0.0	3.5	4.3	5.1	5.9	6.4	7.2	40.0
JEFFERSON	0.0	3.6	4.4	5.1	6.1	6.4	7.3	38.5
JESSAMINE	0.0	3.6	4.3	5.1	6.0	6.2	7.1	39.0
JOHNSON	0.0	3.3	4.0	4.7	5.4	6.0	6.7	39.5
KENTON	0.0	3.4	4.1	4.8	5.5	6.0	6.8	38.0
KNOTT	0.0	3.4	4.1	4.8	5.6	6.3	6.9	40.0
KNOX	0.0	3.6	4.5	5.1	6.0	6.6	7.3	40.5
LARUE	0.0	3.7	4.6	5.3	6.2	6.6	7.4	39.5
LAUREL	0.0	3.6	4.4	5.1	6.0	6.6	7.3	40.0
LAWRENCE	0.0	3.2	3.9	4.7	5.3	6.0	6.5	39.0
LEE	0.0	3.5	4.2	5.0	5.8	6.3	7.0	39.5
LESLIE	0.0	3.5	4.3	5.0	5.8	6.5	7.1	40.5
LETCHER	0.0	3.4	4.2	4.8	5.6	6.4	6.9	40.5
LEWIS	0.0	3.2	4.0	4.7	5.4	5.9	6.6	38.5
LINCOLN	0.0	3.6	4.4	5.2	6.1	6.5	7.3	39.5
LIVINGSTON	0.0	4.0	5.1	5.8	6.7	7.4	8.0	40.0
LOGAN	0.0	3.9	4.9	5.6	6.5	7.0	7.8	40.5
LYON	0.0	4.0	5.0	5.8	6.7	7.3	8.0	40.0
MCCRACKEN	0.0	4.1	5.1	5.9	6.7	7.6	8.2	40.5
MCCREARY	0.0	3.7	4.6	5.3	6.2	6.8	7.5	40.5
MCLEAN	0.0	3.9	4.8	5.5	6.5	6.9	7.7	39.5
MADISON	0.0	3.5	4.3	5.1	5.9	6.3	7.1	39.5
MAGOFFIN	0.0	3.3	4.1	4.8	5.5	6.2	6.8	39.5
MARION	0.0	3.7	4.5	5.2	6.2	6.6	7.4	39.5
MARSHALL	0.0	4.1	5.1	5.9	6.7	7.5	8.1	40.5
MARTIN	0.0	3.2	3.9	4.7	5.3	6.0	6.6	39.5

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2 DAY RAINFALL (INCHES)

	FREQUENCY (YEARS)							
COUNTY	1	2	5	10	25	50	100	PMP
MASON	0.0	3.3	4.0	4.8	5.5	5.9	6.7	38.0
MEADE	0.0	3.7	4.6	5.3	6.2	6.6	7.4	39.0
MENIFEE	0.0	3.4	4.1	4.9	5.6	6.1	6.9	39.0
MERCER	0.0	3.6	4.4	5.1	6.0	6.4	7.2	39.0
METCALFE	0.0	3.8	4.7	5.4	6.4	6.8	7.6	40.0
MONROE	0.0	3.9	4.8	5.5	6.5	6.9	7.7	40.5
MONGOMERY	0.0	3.4	4.2	4.9	5.7	6.2	7.0	39.0
MORGAN	0.0	3.3	4.1	4.8	5.5	6.1	6.8	39.0
MUHLENBERG	0.0	3.9	4.9	5.6	6.5	7.0	7.8	40.0
NELSON	0.0	3.7	4.5	5.2	6.2	6.5	7.3	39.0
NICHOLAS	0.0	3.4	4.1	4.9	5.6	6.1	6.9	38.5
OHIO	0.0	3.8	4.7	5.5	6.4	6.9	7.7	39.5
OLDHAM	0.0	3.6	4.4	5.0	6.0	6.3	7.2	38.5
OWEN	0.0	3.5	4.2	4.9	5.8	6.2	7.0	38.5
OWSLEY	0.0	3.5	4.3	5.0	5.8	6.4	7.1	40.0
PENDLETON	0.0	3.4	4.1	4.8	5.6	6.0	6.9	38.0
PERRY	0.0	3.4	4.2	4.9	5.7	6.4	7.0	40.0
PIKE	0.0	3.3	4.0	4.7	5.4	6.2	6.7	40.0
POWELL	0.0	3.5	4.2	5.0	5.7	6.2	7.0	39.5
PULASKI	0.0	3.7	4.5	5.2	6.1	6.6	7.4	40.0
ROBERTSON	0.0	3.4	4.1	4.8	5.6	6.0	6.8	38.5
ROCKCASTLE	0.0	3.6	4.4	5.1	6.0	6.5	7.2	40.0
ROWAN	0.0	3.3	4.0	4.8	5.5	6.0	6.8	39.0
RUSSELL	0.0	3.8	4.6	5.3	6.3	6.7	7.5	40.0
SCOTT	0.0	3.5	4.2	5.0	5.8	6.2	7.1	38.5
SHELBY	0.0	3.6	4.4	5.1	6.0	6.3	7.2	38.5
SIMPSON	0.0	3.9	4.9	5.6	6.5	7.0	7.8	40.5
SPENCER	0.0	3.6	4.4	5.1	6.1	6.4	7.2	39.0
TAYLOR	0.0	3.7	4.6	5.3	6.2	6.6	7.4	39.5
TODD	0.0	3.9	4.9	5.7	6.6	7.2	7.9	40.5
TRIGG	0.0	4.0	5.0	5.8	6.7	7.4	8.0	40.5
TRIMBLE	0.0	3.6	4.3	5.0	5.9	6.2	7.1	38.0
UNION	0.0	3.9	4.9	5.6	6.5	7.1	7.8	39.5
WARREN	0.0	3.9	4.8	5.5	6.5	6.9	7.7	40.0
WASHINGTON	0.0	3.6	4.4	5.2	6.1	6.5	7.3	39.0
WAYNE	0.0	3.7	4.6	5.3	6.3	6.8	7.5	40.5
WEBSTER	0.0	3.9	4.9	5.6	6.5	7.0	7.8	39.5
WHITLEY	0.0	3.7	4.6	5.2	6.1	6.7	7.4	41.0
WOLFE	0.0	3.4	4.1	4.9	5.6	6.2	6.9	39.5
WOODFORD	0.0	3.6	4.3	5.0	6.0	6.3	7.1	39.0

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4 DAY RAINFALL (INCHES)

	FREQUENCY (YEARS)					
COUNTY	2	5	10	25	50	100
ADAIR	4.4	5.6	6.3	7.4	8.0	8.7
ALLEN	4.6	5.8	6.6	7.9	8.5	9.0
ANDERSON	4.2	5.3	5.9	6.8	7.5	8.3
BALLARD	4.9	6.2	7.2	8.5	9.4	10.1
BARREN	4.5	5.7	6.5	7.7	8.3	8.9
BATH	4.0	4.9	5.6	6.5	7.2	8.0
BELL	4.1	5.3	6.0	7.0	7.9	8.5
BOONE	4.0	5.0	5.5	6.5	7.1	7.9
BOURBON	4.1	5.0	5.7	6.6	7.3	8.1
BOYD	3.8	4.7	5.4	6.1	6.8	7.5
BOYLE	4.2	6.3	6.0	6.9	7.7	8.4
BRACKEN	4.0	4.9	5.5	6.4	7.1	7.9
BREATHITT	4.0	4.9	5.7	6.6	7.4	8.0
BRECKINRIDGE	4.4	5.6	6.3	7.3	7.9	8.8
BULLITT	4.3	5.4	6.0	6.9	7.7	8.5
BUTLER	4.6	5.7	6.6	7.8	8.3	9.0
CALDWELL	4.7	5.9	6.9	8.2	8.9	9.5
CALLOWAY	4.1	5.1	5.9	6.8	7.6	8.2
CAMPBELL	4.0	4.9	5.5	6.4	7.0	7.9
CARLISLE	5.0	6.2	7.2	8.6	9.6	10.2
CARROLL	4.1	5.1	5.7	6.6	7.2	8.1
CARTER	3.9	4.7	5.4	6.2	6.9	7.6
CASEY	4.3	5.4	6.1	7.0	7.8	8.6
CHRISTIAN	4.7	5.9	6.9	8.2	8.9	9.5
CLARK	4.1	5.1	5.8	6.6	7.4	8.1
CLAY	4.0	5.1	5.9	6.9	7.7	8.2
CLINTON	4.5	5.7	6.4	7.6	8.2	8.8
CRITTENDEN	4.7	5.9	6.9	8.3	8.9	9.6
CUMBERLAND	4.5	5.7	6.4	7.6	8.2	8.9
DAVIESS	4.5	5.7	6.5	7.7	8.2	8.9
EDMONSON	4.5	5.7	6.5	7.6	8.2	8.9
ELLIOTT	3.9	4.8	5.5	6.3	7.0	7.7
ESTILL	4.1	5.1	5.8	6.7	7.5	8.2
FAYETTE	4.1	5.1	5.8	6.7	7.4	8.2
FLEMING	4.0	4.9	5.5	6.4	7.1	7.8
FLOYD	3.9	4.8	5.6	6.5	7.1	7.7
FRNAKLIN	4.2	5.2	5.8	6.7	7.4	8.2
FULTON	5.1	6.3	74	8.8	9.7	10.4
GALLATIN	4.1	5.0	5.6	6.5	7.2	8.0
GARRARD	4.2	5.2	6.0	6.8	7.6	8.3

4 DAY RAINFALL (INCHES)

COUNTY	FREQUENCY (YEARS) 2	5	10	25	50	100
GRANT	4.1	5.0	5.6	6.5	7.2	8.0
GRAVES	5.0	6.2	7.2	8.6	9.4	10.1
GRAYSON	4.5	5.6	6.4	7.5	8.0	8.8
GREEN	4.4	5.6	6.3	7.3	7.9	8.7
GREENUP	3.8	4.7	5.3	6.1	6.8	7.5
HANCOCK	4.5	5.6	6.3	7.4	7.9	8.8
HARDIN	4.4	5.5	6.2	7.2	7.8	8.7
HARLAN	4.0	5.0	5.9	6.8	7.7	8.2
HARRISON	4.1	5.0	5.7	6.5	7.2	8.0
HART	4.4	5.6	6.4	7.4	8.0	8.8
HENDERSON	4.6	5.8	6.6	7.8	8.5	9.0
HENRY	4.2	5.2	5.8	6.7	7.3	8.2
HICKMAN	5.0	6.3	7.3	8.7	9.5	10.2
HOPKINS	4.7	5.8	6.7	8.0	8.7	9.3
JACKSON	4.1	5.1	5.9	6.8	7.6	8.3
JEFFERSON	4.3	5.3	6.0	6.9	7.6	8.4
JESSAMINE	4.2	5.2	5.9	6.8	7.5	8.3
JOHNSON	3.9	4.8	5.5	6.4	7.1	7.7
KENTON	4.0	4.9	5.5	6.4	7.0	7.9
KNOTT	3.9	4.9	5.7	6.6	7.3	7.9
KNOX	4.1	5.3	6.0	7.0	7.8	8.4
LARUE	4.4	5.5	6.2	7.2	7.8	8.7
LAUREL	4.1	5.3	6.0	7.0	7.8	8.4
LAWRENCE	3.9	4.7	5.4	6.3	6.9	7.6
LEE	4.0	5.0	5.8	6.7	7.5	8.1
LESLIE	4.0	5.0	5.8	6.8	7.6	8.2
LETCHER	3.9	4.9	5.7	6.7	7.4	7.9
LEWIS	3.9	4.8	5.4	6.2	7.0	7.7
LINCOLN	4.2	5.3	6.0	6.9	7.7	8.4
LIVINGSTON	4.8	6.0	7.0	8.3	9.1	9.8
LOGAN	4.7	5.8	6.7	8.1	8.6	9.2
LYON	4.8	6.0	7.0	8.3	9.1	9.7
MCCRACKEN	4.9	6.1	7.1	8.5	9.3	10.0
MCCREARY	4.3	5.5	6.3	7.4	8.1	8.7
MCLEAN	4.6	5.8	6.6	7.8	8.4	9.0
MADISON	4.1	5.2	5.9	6.8	7.5	8.2
MAGOFFIN	3.9	4.9	5.6	6.5	7.2	7.8
MARION	4.3	5.4	6.1	7.0	7.8	8.6
MARSHALL	4.9	6.1	7.1	8.4	9.2	9.9
MARTIN	3.9	4.8	5.5	6.4	7.0	7.6

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4 DAY RAINFALL (INCHES)

	FREQUENCY (YEARS)					
COUNTY	2	5	10	25	50	100
MASON	4.0	4.8	5.5	6.3	7.0	7.8
MEADE	4.4	5.5	6.1	7.1	7.8	8.6
MENIFEE	4.0	4.9	5.7	6.4	7.3	8.0
MERCER	4.2	5.3	6.0	6.5	7.7	8.4
METCALFE	4.5	5.7	6.4	7.5	8.1	8.8
MONROE	4.5	5.7	6.5	7.8	8.4	8.9
MONTGOMERY	4.0	5.0	5.7	6.6	7.3	8.1
MORGAN	3.9	4.8	5.6	6.5	7.2	7.9
MUHLENBERG	4.6	5.8	6.7	8.0	8.5	9.1
NELSON	4.3	5.4	6.1	7.0	7.7	8.5
NICHOLAS	4.0	4.9	5.6	6.5	7.2	8.0
OHIO	4.5	5.7	6.5	7.7	8.2	8.9
OLDHAM	4.2	5.2	5.8	6.8	7.4	8.3
OWEN	4.1	5.1	5.7	6.6	7.3	8.1
OWSLEY	4.0	5.0	5.8	6.8	7.5	8.2
PENDLETON	4.0	4.9	5.6	6.4	7.1	7.9
PERRY	4.0	5.0	5.8	6.7	7.5	8.0
PIKE	3.9	4.8	5.6	6.5	7.0	7.7
POWELL	4.0	5.0	5.8	6.6	7.4	8.1
PULASKI	4.3	5.4	6.1	7.1	7.9	8.6
ROBERTSON	4.0	4.9	5.5	6.4	7.1	7.9
ROCKCASTLE	4.2	5.3	6.0	6.9	7.7	8.4
ROWAN	3.9	4.8	5.5	6.4	7.1	7.8
RUSSELL	4.4	5.6	6.3	7.4	8.0	8.7
SCOTT	4.1	5.1	5.8	6.6	7.3	8.2
SHELBY	4.2	5.2	5.9	6.8	7.5	8.3
SIMPSON	4.6	5.8	6.7	8.0	8.6	9.2
SPENCER	4.3	5.3	6.0	6.9	7.6	8.4
TAYLOR	4.4	5.5	6.2	7.1	7.8	8.6
TODD	4.7	5.9	6.8	8.1	8.8	9.4
TRIGG	4.8	6.0	7.0	8.3	9.1	9.7
TRIMBLE	4.2	5.2	5.8	6.7	7.3	8.2
UNION	4.6	5.9	6.7	8.0	8.7	9.3
WARREN	4.6	5.8	6.6	7.8	8.4	9.0
WASHINGTON	4.3	5.4	6.0	6.9	7.7	8.5
WAYNE	4.4	5.6	6.3	7.4	8.1	8.7
WEBSTER	4.6	5.8	6.7	8.0	8.6	9.2
WHITLEY	4.2	5.4	6.1	7.4	8.0	8.6
WOLFE	4.0	4.9	5.7	6.6	7.3	8.0
WOODFORD	4.2	5.2	5.9	6.7	7.5	8.3

DIVISION OF WATER RESOURCES
DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION
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7 DAY RAINFALL (INCHES)

	FREQUENCY (YEARS)					
COUNTY	2	5	10	25	50	100
ADAIR	5.1	6.4	7.2	8.5	9.4	10.3
ALLEN	5.3	6.7	7.6	8.8	9.8	10.7
ANDERSON	4.9	6.1	6.8	8.0	8.8	9.6
BALLARD	5.8	7.2	8.2	9.6	10.7	11.8
BARREN	5.2	6.6	7.4	8.7	9.6	10.5
BATH	4.5	5.7	6.5	7.6	8.4	9.3
BELL	4.8	6.2	6.9	8.2	9.2	10.1
BOONE	4.6	5.7	6.4	7.3	8.0	8.9
BOURBON	4.6	5.8	6.5	7.7	8.5	9.3
BOYD	4.2	5.4	6.1	7.3	7.8	8.9
BOYLE	4.9	6.2	6.9	8.1	9.0	9.8
BRACKEN	4.5	5.6	6.4	7.4	8.1	9.0
BREATHITT	4.6	5.8	6.6	7.8	8.5	9.4
BRECKINRIDGE	5.2	6.4	7.2	8.4	9.3	10.0
BULLITT	5.0	6.2	6.9	8.1	9.0	9.7
BUTLER	5.3	6.7	7.5	8.7	9.6	10.4
CALDWELL	5.5	6.9	7.9	9.1	10.1	11.0
CALLOWAY	5.7	7.2	8.2	9.5	10.6	11.5
CAMPBELL	4.5	5.6	6.4	7.4	8.0	8.9
CARLISLE	5.8	7.3	8.3	9.7	10.7	11.8
CARROLL	4.7	5.8	6.6	7.7	8.4	9.1
CARTER	4.3	5.5	6.2	7.3	7.9	8.9
CASEY	5.0	6.3	7.0	8.3	9.2	10.0
CHRISTIAN	5.5	6.9	7.9	9.1	10.1	10.9
CLARK	4.7	5.9	6.6	7.8	8.6	9.5
CLAY	4.8	6.0	6.8	8.0	8.9	9.8
CLINTON	5.2	6.5	7.3	8.6	9.6	10.7
CRITTENDEN	5.5	6.9	7.9	9.1	10.0	11.1
CUMBERLAND	5.2	6.5	7.4	8.6	9.6	10.6
DAVIESS	5.3	6.6	7.4	8.6	9.6	10.3
EDMONSON	5.2	6.6	7.4	8.6	9.6	10.3
ELLIOTT	4.4	5.6	6.3	7.5	8.1	9.1
ESTILL	4.7	5.9	6.7	7.9	8.7	9.6
FAYETTE	4.7	5.9	6.7	7.9	8.7	9.5
FLEMING	4.5	5.7	6.4	7.5	8.2	9.1
FLOYD	4.4	5.6	6.5	7.6	8.1	9.0
FRANKLIN	4.8	6.0	6.7	7.9	8.6	9.4
FULTON	5.9	7.4	8.5	9.9	11.0	12.0
GALLATIN	4.7	5.8	6.5	7.6	8.2	9.1
GARRARD	4.9	6.4	6.8	8.0	9.0	9.8

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7 DAY RAINFALL (INCHES)

	FREQUENCY (YEARS)					
COUNTY	2	5	10	25	50	100
GRANT	4.6	5.8	6.5	7.6	8.3	9.1
GRAVES	5.8	7.3	8.3	9.6	10.7	11.7
GRAYSON	5.2	6.5	7.3	8.5	9.4	10.2
GREEN	5.1	6.4	7.2	8.4	9.4	10.2
GREENUP	4.3	5.4	6.1	7.2	7.8	8.8
HANCOCK	5.2	6.5	7.3	8.4	9.3	10.1
HARDIN	5.1	6.4	7.1	8.3	9.2	9.8
HARLAN	4.7	5.9	6.8	8.0	8.8	9.6
HARRISON	4.6	5.8	6.5	7.6	8.3	9.2
HART	5.2	6.5	7.3	8.5	9.5	10.2
HENDERSON	5.3	6.7	7.5	8.7	9.6	10.6
HENRY	4.8	5.9	6.7	7.8	8.5	9.3
HICKMAN	5.8	7.3	8.4	9.8	10.8	11.9
HOPKINS	5.4	6.8	7.7	8.9	9.9	10.8
JACKSON	4.8	6.0	6.8	8.0	8.9	9.8
JEFFERSON	5.0	6.1	6.8	8.0	8.8	9.6
JESSAMINE	4.8	6.0	6.7	8.0	8.8	9.6
JOHNSON	4.4	5.6	6.4	7.5	8.1	9.0
KENTON	4.6	5.7	6.4	7.4	8.0	8.9
KNOTT	4.5	5.7	6.6	7.7	8.4	9.2
KNOX	7.8	6.1	6.9	8.2	9.1	10.0
LARUE	5.1	6.4	7.1	8.3	9.3	10.0
LAUREL	4.9	6.2	6.9	8.2	9.1	10.0
LAWRENCE	4.3	5.5	6.3	7.4	7.9	8.9
LEE	4.7	5.9	6.7	7.9	8.6	9.6
LESLIE	4.7	5.9	6.8	7.9	8.7	9.6
LETCHER	4.6	5.7	6.6	7.8	8.4	9.1
LEWIS	4.4	5.5	6.3	7.3	8.0	8.9
LINCOLN	4.9	6.2	6.9	8.1	9.0	9.9
LIVINGSTON	5.6	7.0	8.0	9.3	10.3	11.3
LOGAN	5.4	6.8	7.8	8.9	9.9	10.7
LYON	5.6	7.0	8.0	9.2	10.6	11.2
MCCRACKEN	5.7	7.2	8.2	9.5	10.5	11.6
MCCREARY	5.0	6.4	7.1	8.4	9.4	10.5
MCLEAN	5.3	6.7	7.5	8.7	9.7	10.5
MADISON	4.8	6.0	6.7	8.0	8.8	9.7
MAGOFFIN	4.5	5.7	6.5	7.6	8.2	9.2
MARION	5.0	6.3	7.0	8.2	9.2	9.9
MARSHALL	5.7	7.1	8.1	9.4	10.5	11.4
MARTIN	4.4	5.5	6.3	7.4	7.9	8.8

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7 DAY RAINFALL (INCHES)

	FREQUENCY (YEARS)					
COUNTY	2	5	10	25	50	100
MASON	4.5	5.6	6.3	7.4	8.0	9.0
MEADE	5.1	6.3	7.0	8.2	9.1	9.8
MENIFEE	4.5	5.8	6.5	7.7	8.4	9.3
MERCER	4.9	6.1	6.8	8.1	8.9	9.7
METCALFE	5.2	6.5	7.3	8.6	9.6	10.5
MONROE	5.3	6.6	7.5	8.7	9.7	10.7
MONTGOMERY	4.6	5.8	6.5	7.7	8.5	9.4
MORGAN	4.5	5.7	6.4	7.6	8.3	9.2
MUHLENBERG	5.4	6.8	7.7	8.8	9.8	10.6
NELSON	5.0	6.2	6.9	8.2	9.1	9.8
NICHOLAS	4.6	5.7	6.5	7.6	8.3	9.2
OHIO	5.3	6.6	7.5	8.7	9.6	10.3
OLDHAM	4.9	6.0	6.8	7.9	8.6	9.4
OWEN	4.7	5.8	6.6	7.7	8.4	9.2
OWSLEY	4.7	5.9	6.7	7.9	8.8	9.6
PENDLETON	4.6	5.7	6.4	7.5	8.2	9.0
PERRY	4.6	5.8	6.6	7.9	8.5	9.4
PIKE	4.5	5.5	6.4	7.5	8.0	8.9
POWELL	4.6	5.9	6.6	7.8	8.6	9.5
PULASKI	5.0	6.3	7.0	8.3	9.3	10.1
ROBERTSON	4.5	5.7	6.4	7.5	8.2	9.0
ROCKCASTLE	4.9	6.1	6.8	8.1	9.0	9.9
ROWAN	4.4	5.6	6.4	7.5	8.2	9.1
RUSSELL	5.1	6.4	7.2	8.5	9.4	10.3
SCOTT	4.7	5.9	6.6	7.8	8.5	9.3
SHELBY	4.9	6.0	6.8	7.9	8.7	9.5
SIMPSON	5.4	6.8	7.7	8.9	9.9	10.8
SPENCER	4.9	6.1	6.8	8.0	8.9	9.7
TAYLOR	5.1	6.3	7.0	8.3	9.3	10.0
TODD	5.5	6.9	7.8	9.0	10.0	10.8
TRIGG	5.6	7.1	8.0	9.3	10.3	11.2
TRIMBLE	4.8	5.9	6.7	7.8	8.5	9.3
UNION	5.5	6.8	7.7	8.9	9.9	10.9
WARREN	5.3	6.7	7.5	8.8	9.7	10.5
WASHINGTON	5.0	6.2	6.9	8.1	9.0	9.8
WAYNE	5.1	6.4	7.2	8.5	9.5	10.5
WEBSTER	5.4	6.8	7.7	8.9	9.9	10.8
WHITLEY	5.0	6.3	7.0	8.3	9.3	10.3
WOLFE	4.6	5.8	6.5	7.8	8.5	9.4
WOODFORD	4.8	6.0	6.7	7.9	8.7	9.5

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DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION
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10 DAY RAINFALL (INCHES)

	FREQUENCY (YEARS)					
COUNTY	2	5	10	25	50	100
ADAIR	5.7	7.1	8.1	9.5	10.5	11.3
ALLEN	5.9	7.5	8.5	9.7	10.9	11.8
ANDERSON	5.5	6.7	7.6	8.9	9.8	10.6
BALLARD	6.3	7.9	9.3	10.3	11.9	13.2
BARREN	5.8	7.3	8.4	9.6	10.7	11.5
BATH	5.2	6.4	7.3	8.4	9.3	10.5
BELL	5.5	6.9	7.7	9.2	10.0	11.0
BOONE	5.2	6.3	7.2	8.3	9.0	9.9
BOURBON	5.3	6.5	7.4	8.6	9.4	10.3
BOYD	4.8	6.1	6.9	8.1	8.8	9.8
BOYLE	5.5	6.8	7.7	9.1	10.1	10.8
BRACKEN	5.1	6.3	7.1	8.3	9.0	9.9
BREATHITT	5.2	6.5	7.3	8.7	9.5	10.4
BRECKINRIDGE	5.7	7.0	8.2	9.3	10.3	11.2
BULLITT	5.5	6.9	7.8	9.1	10.1	10.9
BUTLER	5.8	7.4	8.5	9.6	10.7	11.6
CALDWELL	6.0	7.6	8.9	9.9	11.2	12.0
CALLOWAY	6.3	7.9	9.3	10.2	11.7	12.8
CAMPBWLL	5.1	6.3	7.1	8.3	8.9	9.9
CARLISLE	6.3	8.0	9.4	10.3	11.9	13.3
CARROLL	5.3	6.5	7.4	8.6	9.4	10.2
CARTER	5.0	6.2	7.0	8.3	9.0	9.9
CASEY	5.6	7.0	7.9	9.3	10.3	11.0
CHRISTIAN	6.0	7.7	8.9	9.9	11.2	12.0
CLARK	5.3	6.6	7.5	8.7	9.6	10.4
CLAY	5.4	6.7	7.5	9.0	9.8	10.7
CLINTON	5.8	7.3	8.2	9.4	10.8	11.5
CRITTENDEN	6.0	7.6	9.0	9.9	11.3	12.1
CUMBERLAND	5.8	7.3	8.2	9.6	10.8	11.5
DAVIESS	5.8	7.3	8.4	9.5	10.6	11.5
EDMONSON	5.8	7.3	8.4	9.6	10.6	11.4
ELLIOTT	5.0	6.3	7.1	8.3	9.1	10.0
ESTILL	5.4	6.6	7.5	8.8	9.7	10.6
FAYETTE	5.4	6.6	7.5	8.8	9.6	10.5
FLEMING	5.1	6.3	7.2	8.3	9.1	10.0
FLOYD	4.9	6.2	7.0	8.4	9.1	10.0
FRNAKLIN	5.4	6.6	7.5	8.8	9.6	10.4
FULTON	6.5	8.1	9.6	10.5	12.2	13.6
GALLATIN	5.2	6.4	7.3	8.4	9.2	10.2
GARRARD	5.5	6.7	7.6	9.0	9.9	10.8

DIVISION OF WATER RESOURCES
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10 DAY RAINFALL (INCHES)

	FREQUENCY (YEARS)					
COUNTY	2	5	10	25	50	100
GRANT	5.2	6.4	7.3	8.4	9.2	10.0
GRAVES	6.3	7.9	9.3	10.3	11.9	13.0
GRAYSON	5.7	7.2	8.3	9.5	10.5	11.3
GREEN	5.7	7.1	8.1	9.4	10.4	11.2
GREENUP	4.9	6.1	6.9	8.1	8.8	9.8
HANCOCK	5.7	7.2	8.3	9.4	10.3	11.3
HARDIN	5.6	7.0	8.1	9.3	10.2	11.1
HARLAN	5.2	6.7	7.3	8.9	9.6	10.7
HARRISON	5.3	6.4	7.3	8.5	9.3	10.1
HART	5.7	7.2	8.2	9.5	10.5	11.3
HENDERSON	5.8	7.4	8.6	9.6	10.8	11.7
HENRY	5.4	6.6	7.5	8.7	9.5	10.3
HICKMAN	6.4	8.0	9.5	10.4	12.0	13.4
HOPKINS	5.9	7.5	8.8	9.8	11.0	11.8
JACKSON	5.4	6.7	7.6	9.0	9.8	10.7
JEFFERSON	5.5	6.8	7.7	9.0	9.9	10.7
JESSAMINE	5.4	6.7	7.6	8.9	9.8	10.6
JOHNSON	5.0	6.2	7.0	8.4	9.1	10.0
KENTON	5.1	6.3	7.2	8.3	8.9	9.9
KNOTT	5.0	6.4	7.1	8.6	9.3	10.3
KNOX	5.5	6.9	7.7	9.2	10.0	11.0
LARUE	5.6	7.0	8.0	9.3	10.3	11.1
LAUREL	5.5	6.8	7.7	9.3	10.1	11.0
LAWRENCE	4.9	6.2	6.9	8.3	8.9	9.9
LEE	5.3	6.6	7.4	8.8	9.5	10.5
LESLIE	5.3	6.7	7.4	8.9	9.7	10.7
LETCHER	4.9	6.4	7.1	8.7	9.3	10.1
LEWIS	5.0	6.2	7.1	8.3	9.0	9.8
LINCOLN	5.5	6.8	7.7	9.2	10.1	10.9
LIVINGSTON	6.1	7.7	9.1	10.0	11.5	12.5
LOGAN	6.0	7.6	8.7	9.8	11.0	11.8
LYON	6.1	7.7	9.1	10.0	11.4	12.4
MCCRACKEN	6.2	7.9	9.2	10.2	11.8	12.9
MCCREARY	5.7	7.1	8.0	9.5	10.5	11.3
MCLEAN	5.9	7.4	8.6	9.7	10.8	11.6
MADISON	5.4	6.6	7.6	8.9	9.8	10.7
MAGOFFIN	5.1	6.3	7.1	8.5	9.2	10.2
MARION	5.6	6.9	7.8	9.2	10.2	11.0
MARSHALL	6.2	7.8	9.2	10.1	11.7	12.7
MARTIN	4.8	6.1	6.8	8.3	9.0	9.8

DIVISION OF WATER RESOURCES
DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION
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10 DAY RAINFALL (INCHES)

	FREQUENCY (YEARS)					
COUNTY	2	5	10	25	50	100
MASON	5.1	6.3	7.1	8.3	9.0	9.9
MEADE	5.6	7.0	8.0	9.2	10.1	11.0
MENIFEE	5.2	6.4	7.3	8.5	9.5	10.3
MERCER	5.5	6.8	7.7	9.0	9.9	10.7
METCALFE	5.8	7.3	8.2	9.6	10.7	11.5
MONROE	5.9	7.4	8.4	9.7	10.9	11.7
MONTGOMERY	5.3	6.5	7.4	8.4	9.4	10.3
MORGAN	5.1	6.4	7.2	8.5	9.3	10.2
MUHLENBERG	5.9	7.5	8.6	9.8	10.9	11.7
NELSON	5.6	7.0	7.8	9.2	10.1	10.9
NICHOLAS	5.2	6.4	7.3	8.4	9.2	10.1
OHIO	5.8	7.3	8.4	9.6	10.6	11.5
OLDHAM	5.4	6.7	7.6	8.8	9.6	10.4
OWEN	5.3	6.5	7.4	8.6	9.4	10.2
OWSLEY	5.4	6.6	7.4	8.8	9.7	10.6
PENDLETON	5.2	6.3	7.2	8.4	9.1	10.0
PERRY	5.2	6.5	7.2	8.8	9.5	10.4
PIKE	4.9	6.1	6.8	8.4	8.9	9.9
POWELL	5.3	6.5	7.4	8.6	9.6	10.5
PULASKI	5.6	6.9	7.8	9.3	10.3	11.1
ROBERTSON	5.2	6.4	7.2	8.4	9.1	10.0
ROCKCASTLE	5.5	6.8	7.7	9.1	10.0	10.9
ROWAN	5.1	6.3	7.2	8.4	9.2	10.1
RUSSELL	5.7	7.1	8.0	9.5	10.6	11.3
SCOTT	5.3	6.5	7.5	8.7	9.5	10.3
SHELBY	5.4	6.7	7.6	8.9	9.7	10.4
SIMPSON	6.0	7.5	8.7	9.8	11.0	11.8
SPENCER	5.5	6.8	7.7	9.0	9.9	10.6
TAYLOR	5.6	7.0	8.0	9.3	10.3	11.1
TODD	6.0	7.3	8.8	9.9	11.1	11.9
TRIGG	6.1	7.8	9.0	10.0	11.5	12.3
TRIMBLE	5.3	6.6	7.5	8.7	9.5	10.2
UNION	5.9	7.5	8.8	9.5	11.0	11.9
WARREN	5.9	7.4	8.5	9.7	10.8	11.7
WASHINGTON	5.5	6.8	7.7	9.1	10.0	10.8
WAYNE	5.8	7.2	8.0	9.5	10.7	11.4
WEBSTER	5.9	7.5	8.7	9.7	11.0	11.8
WHITLEY	5.7	7.0	7.9	9.3	10.3	11.2
WOLFE	5.2	6.5	7.3	8.6	9.5	10.4
WOODFORD	5.4	6.6	7.6	8.9	9.7	10.5

DIVISION OF WATER RESOURCES
DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION
ENGINEERING MEMORANDUM NO.2 (4-30-71), REVISED (6-1-79)
ONE DAY AND TEN DAY DIRECT DISCHARGES (INCHES)
QUICK RETUN FLOWS (CSM)

COUNTY	ONE DAY FREQUENCY (YEARS) 25	50	100	TEN DAY FREQUENCY (YEARS) 25	50	100	QUICK RETURN FLOWS (CSM)
ADAIR	4.0	4.3	4.7	7.9	8.6	9.3	7.5
ALLEN	4.1	4.5	4.9	8.2	8.9	9.7	7.6
ANDERSON	3.9	4.2	4.6	7.8	8.5	9.2	7.0
BALLARD	4.1	4.5	4.9	8.2	8.9	9.7	6.3
BARREN	4.1	4.4	4.8	8.2	8.8	9.6	7.6
BATH	3.7	4.0	4.3	7.3	7.9	8.6	6.4
BELL	3.7	4.0	4.3	7.3	7.9	8.6	7.6
BOONE	3.7	4.0	4.3	7.3	7.9	8.6	6.2
BOURBON	3.7	4.0	4.4	7.5	8.1	8.8	6.7
BOYD	3.2	3.5	3.8	6.4	6.9	7.5	4.9
BOYLE	3.9	4.2	4.6	7.8	8.5	9.2	7.2
BRACKEN	3.6	3.9	4.3	7.2	7.8	8.5	6.3
BREATHITT	3.6	3.9	4.2	7.1	7.7	8.4	6.8
BRECKINRIDGE	4.2	4.5	4.9	8.3	9.0	9.8	6.9
BULLITT	4.0	4.4	4.8	8.1	8.7	9.5	7.0
BUTLER	4.2	4.6	5.0	8.4	9.1	9.9	7.2
CALDWELL	4.3	4.6	5.0	8.5	9.2	10.0	6.7
CALLOWAY	4.3	4.6	5.0	8.5	9.2	10.0	6.8
CAMPBELL	3.6	3.9	4.2	7.1	7.7	8.4	6.2
CARLISLE	4.1	4.4	4.2	8.2	8.8	9.6	6.4
CARROLL	3.9	4.2	4.6	7.8	8.5	9.2	6.4
CARTER	3.4	3.7	4.0	6.8	7.4	8.0	5.2
CASEY	3.9	4.2	4.6	7.8	8.5	9.2	7.4
CHRISTIAN	4.3	4.6	5.0	8.5	9.2	10.0	7.0
CLARK	3.7	4.0	4.4	7.5	8.1	8.8	6.8
CLAY	3.7	4.0	4.6	7.3	7.9	8.6	7.4
CLINTON	4.0	4.3	4.7	7.9	8.6	9.3	7.7
CRITTENDEN	4.3	4.6	5.0	8.5	9.2	10.0	6.5
CUMBERLAND	4.0	4.3	4.7	8.0	8.6	9.4	7.6
DAVIESS	4.3	4.6	5.0	8.5	9.2	10.0	6.7
EDMONSON	4.1	4.5	4.9	8.2	8.9	9.7	7.3
ELLIOTT	3.4	6.7	4.1	6.9	7.5	8.1	5.5
ESTILL	3.7	4.0	4.4	7.4	8.0	8.7	7.0
FAYETTE	3.8	4.1	4.5	7.7	8.3	9.0	6.9
FLEMING	3.6	3.9	4.2	7.1	7.7	8.4	6.3
FLOYD	3.4	3.6	4.0	6.7	7.3	7.9	6.0
FRANKLIN	3.9	4.2	4.6	7.7	8.4	9.1	6.8
FULTON	3.9	4.2	4.6	7.8	8.5	9.2	6.4
GALLATIN	3.8	4.1	4.5	7.7	8.3	9.0	6.4
GARRARD	3.9	4.2	4.6	7.7	8.4	9.1	7.2

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ONE DAY AND TEN DAY DIRECT DISCHARGES (INCHES)
QUICK RETUN FLOWS (CSM)

	ONE DAY			TEN DAY			QUICK RETURN FLOWS (CSM)
	FREQUENCY (YEARS)						
COUNTY	25	50	100	25	50	100	
GRANT	3.8	4.1	4.5	7.6	8.2	8.9	6.4
GRAVES	4.3	4.6	5.0	8.5	9.2	10.0	6.6
GRAYSON	4.2	4.5	4.9	8.3	9.0	9.8	7.8
GREEN	4.0	4.3	4.7	8.0	8.6	9.4	7.4
GREENUP	3.3	3.5	3.9	6.5	7.1	7.7	4.9
HANCOCK	4.2	4.6	5.0	8.4	9.1	9.9	6.7
HARDIN	4.1	4.4	4.8	8.2	8.8	9.6	7.1
HARLAN	3.5	3.8	4.2	7.1	7.6	8.6	7.4
HARRISON	3.7	4.0	4.4	7.5	8.1	8.8	6.6
HART	4.1	4.4	4.8	8.2	8.8	9.6	7.3
HENDERSON	4.3	4.6	5.0	8.5	9.2	10.0	6.4
HENRY	3.9	4.2	4.6	7.8	8.5	9.2	6.6
HICKMAN	4.0	4.4	4.8	8.1	8.7	9.5	6.5
HOPKINS	4.3	4.6	5.0	8.5	9.2	10.0	6.8
JACKSON	3.7	4.0	4.4	7.5	8.1	8.8	7.3
JEFFERSON	4.0	4.3	4.7	8.0	8.6	9.4	6.7
JESSAMINE	3.9	4.2	4.6	7.7	8.4	9.1	7.0
JOHNSON	3.4	3.6	4.0	6.7	7.3	7.9	5.5
KENTON	3.6	3.9	4.3	7.2	7.8	8.5	6.2
KNOTT	3.4	6.7	4.0	6.8	7.4	8.0	6.7
KNOX	3.7	4.0	4.4	7.4	8.0	8.7	7.6
LARUE	4.0	4.4	4.8	8.1	8.7	9.5	7.2
LAUREL	3.8	4.1	4.5	7.6	8.2	8.9	7.5
LAWRENCE	3.3	3.5	3.9	6.5	7.4	7.7	5.0
LEE	3.7	4.0	4.3	7.3	7.9	8.6	7.0
LESLIE	3.6	3.9	4.2	7.1	7.7	8.4	7.3
LETCHER	3.4	3.7	4.0	6.8	7.4	8.0	7.0
LEWIS	3.5	3.8	4.1	7.0	7.5	8.2	5.7
LINCOLN	3.9	4.2	4.6	7.7	8.4	9.1	7.3
LIVINGSTON	4.3	4.6	5.0	8.5	9.2	10.0	6.5
LOGAN	4.3	4.6	5.0	8.5	9.2	10.0	7.3
LYON	4.3	4.6	5.0	8.5	9.2	10.0	6.7
MCCRACKEN	4.3	4.6	5.0	8.5	9.2	10.0	6.4
MCCREARY	3.9	4.2	4.6	7.7	8.4	9.1	7.7
MCLEAN	4.3	4.6	5.0	8.5	9.2	10.0	6.7
MADISON	3.8	4.1	4.5	7.7	8.3	9.0	7.1
MAGOFFIN	3.4	3.7	4.1	6.9	7.5	8.1	6.0
MARION	4.0	4.3	4.7	7.9	8.6	9.3	7.3
MARSHALL	4.3	4.6	5.0	8.5	9.2	10.0	6.7
MARTIN	3.3	3.6	3.9	6.6	7.2	7.8	5.0

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ONE DAY AND TEN DAY DIRECT DISCHARGES (INCHES)
QUICK RETUN FLOWS (CSM)

COUNTY	ONE DAY FREQUENCY (YEARS) 25	50	100	TEN DAY FREQUENCY (YEARS) 25	50	100	QUICK RETURN FLOWS (CSM)
MASON	3.6	3.9	4.2	7.1	7.7	8.4	6.2
MEADE	4.1	4.5	4.9	8.2	8.9	9.7	6.8
MENIFEE	3.6	3.9	4.3	7.2	7.8	8.5	6.5
MERCER	3.9	4.2	4.6	7.8	8.5	9.2	7.2
METCALFE	4.1	4.4	4.8	8.2	8.8	9.6	7.5
MONROE	4.1	4.4	4.8	8.2	8.8	9.6	7.7
MONTOMERY	3.7	4.0	4.4	7.4	8.0	8.7	6.7
MORGAN	3.5	3.8	4.2	7.1	7.6	8.3	6.0
MUHLENBERG	4.3	4.6	5.0	8.5	9.2	10.0	7.0
NELSON	4.0	4.3	4.7	8.0	8.6	9.4	7.0
NICHOLAS	3.7	4.0	4.3	7.3	7.9	8.6	6.5
OHIO	4.2	4.6	5.0	8.4	9.1	9.9	7.0
OLDHAM	4.0	4.3	4.7	7.9	8.6	9.3	6.7
OWEN	3.9	4.2	4.6	7.7	8.4	9.1	6.5
OWSLEY	3.7	4.0	4.3	7.3	7.9	8.6	7.2
PENDLETON	3.7	4.0	4.4	7.4	8.0	8.7	6.4
PERRY	3.5	3.8	4.2	7.1	7.6	8.3	7.0
PIKE	3.3	3.5	3.9	6.5	7.1	7.7	6.0
POWELL	3.7	4.0	4.3	7.3	7.9	8.6	6.8
PULASKI	3.9	4.2	4.6	7.7	8.4	9.1	7.5
ROBERTSON	3.6	3.9	4.3	7.2	7.8	8.5	6.4
ROCKCASTLE	3.8	4.1	4.5	7.7	8.3	9.0	7.3
ROWAN	3.5	3.8	4.2	7.1	7.6	8.3	6.0
RUSSELL	4.0	4.3	4.7	7.9	8.6	9.3	7.6
SCOTT	3.8	4.1	4.5	7.7	8.3	9.0	6.7
SHELBY	4.0	4.3	4.7	7.9	8.6	9.3	6.8
SIMPSON	4.2	4.6	5.0	8.4	9.4	9.9	7.5
SPENCER	4.0	4.3	4.7	7.9	8.6	9.3	6.9
TAYLOR	4.0	4.3	4.7	8.0	8.6	9.4	7.4
TODD	4.3	4.6	5.0	8.5	9.2	10.0	7.2
TRIGG	4.3	4.6	5.0	8.5	9.2	10.0	6.9
TRIMBLE	4.0	4.3	4.7	7.9	8.6	9.3	6.4
UNION	4.3	4.6	5.0	8.5	9.2	10.0	6.4
WARREN	4.2	4.5	4.9	8.3	9.0	9.8	7.5
WASHINGTON	4.0	4.3	4.7	7.9	8.6	9.3	7.2
WAYNE	3.9	4.2	4.6	7.8	8.5	9.2	7.7
WEBSTER	4.3	4.6	5.0	8.5	9.2	10.0	6.6
WHITLEY	3.8	4.1	4.5	7.6	8.2	8.9	7.7
WOLFE	3.6	3.9	4.3	7.2	7.8	8.5	6.6
WOODFORD	3.9	4.2	4.6	7.7	8.4	9.1	7.0