

James C. Currens Kentucky Geological Survey			springs and the relative size of their catch serves as a geographic index to literature of This map is designed for regional and p are much too small to precisely locate on t is referred to the literature for detailed site investigators over the last 25 years. The und number, referred to as the AKGWA numl identified by the underflow spring name a	
Joseph A. Ray Kentucky Natural Resources and Environmental Protection Cabinet– Division of Water				
	LEGEND		in the "Data Source" column of the key, a	
	Area of potential karst ground-water basin development		cave streams, the precise flow paths are structure, or surface features. Arrows show flow is illustrated as either thick trunk-flow	
	Area of limited karst ground-water basin development			
	Inferred perennial ground-water flow route		basins are inferred, based on the existence position of ground-water basin boundaries boundaries can shift during high-water con overflow routes. Additional overflow rou shown on this map were obtained during in base flow because base flow is the mos to be an underflow spring that preferentiall names of ground-water basins are derived the small map scale.	
	Subsurface overflow (high-flow) route			
*	Surface overflow (high-flow) route			
	Ground-water basin catchment boundary			
	Intermittent lake			
$\sim \prec \prec$	Stream sink or swallet		white on the map) is karst. The shaded ar	
•	Underflow spring (perennial)	N	The user should consult the "References (
0	Overflow spring (high flow)	Ą	¹ Worthington, S.R.H., 1991, Karst hydrog University, Ph.D. dissertation, 380 n	
¥	Karst window or sinking spring	N	Oniversity, 1 n.D. dissertation, 500 p.	
θ	Cave stream			
0	Other tracer-injection point			
•	Water well		1000 0	
(1208)	Kentucky Division of Water AKGWA spring identification number			
BURGIN	Spring name		UNIVERSAL	

EXPLANATION

basins in the Harrodsburg quadrangle, determined primarily by ground-water identify the ground-water basins and springs to which a site may drain. Major tchment areas can be evaluated for potential as water supplies. The map also re on karst ground water in the area. l preliminary hydrologic investigations. Features such as springs and swallets n this map with a scale small enough to show regional relationships. The user te descriptions. The data used to compile this map were obtained by numerous site descriptions. The data used to compile this map were obtained by numerous euderflow spring draining a ground-water basin is assigned a unique identification number (Assembled Kentucky Ground Water Database). Individual basins are eme and AKGWA number. The authors of tracer data are identified by number ey, and are listed in "References Cited" in order of publication or research date. shown here have been established by tracer studies, with the exception of mapped are unknown and are inferred or interpreted using water-level data, geologic show the direction of ground-water flow and tracer recovery locations. Conduit tak-flow lines or thin tributary-flow lines. The locations of some ground-water tence of a significant spring system and the delineation of adjacent basins. The aries should be considered approximate because of the map's scale and because conditions. Also, excess flow may exit or enter a basin via surface or subsurface w routes probably exist. Although most of the results of ground-water tracing ring moderate- or high-flow conditions, the ground-water basins are illustrated most common flow condition. The main spring draining the basin is assumed ntially drains base flow. Overflow springs discharge during high flow.¹ Generally, rived from these main springs. Not all additional springs are shown because of

o revision upon receipt of new hydrologic data. The unshaded area (shown in l area (shown in light brown) is largely underlain by noncarbonate rocks and t features are only shown in those areas where tracer tests have been conducted. s Cited" for additional information. ogeology of the Canadian Rocky Mountains: Hamilton, Ontario, McMaster

5 6 7 8 9 10 11 12 13 14 15 16 KILOMETERS 3 4 5 6 7 8 9 10 MILES 5000 10 000 15 000 METERS 20 000 30 000 40 000 50 000 FEET

SCALE 1:100 000 TRANSVERSE MERCATOR PROJECTION, ZONE 16 Contour interval 20 meters

AKGWA No. 0088 0118 0217 0215 0302 0306 0527 0548 0549 0581 0896 0582 1201 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1219 1232 1250

Cove James Baker Boggs Votah Big Eureka Railroad Faulconer Burgin Distillery Shawnee Run Hart Shawnee-Copperhead Little Caesars Zeis Shallow Ford

Mount Pleasant McChesney

KEY

Spring Name

I-75

Buffalo

Garretts

Polley Humane Mathews

Drive-In

1	
3	
6	
6	
6	
6	
2, 9	
6	
6	
2, 9	
10	
2, 9	
1	
2	
2, 8	
2	
2	
2	
2	
0	

Data Source

Geological Survey.

- Consultants, Inc.

- Division of Water.
- Kentucky.
- Division of Water.

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Base map compiled from U.S. Geological Survey digital line graphs. ACKNOWLEDGMENTS:

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Locations of the 1:100,000-scale quadrangle maps covering Kentucky. This map, the Harrodsburg quadrangle, is highlighted in green.

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Cartography by Terry Hounshell

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