

HUC 1109

Canadian Sub-basin

The Canadian sub-basin (4-digit hydrologic unit 1109) begins in the central west and runs to the east central portion of the state. It originates in the southern portion of Ellis and the northern portion of Roger-Mills Counties, continues eastward through portions of Ellis, Roger Mills, Dewey, Custer, Blaine, Caddo, Canadian, Grady, Cleveland, McClain, Pottawatomie, Pontotoc, Seminole, Hughes, McIntosh, and Muskogee Counties and terminates in Pittsburg, Haskell, and Latimer Counties. Major cities and County seats located within the basin include Arnett, Taloga, Weatherford, Mustang, Moore, Norman, Noble, Oklahoma City, Purcell, Ada, Tecumseh, Holdenville, McAlester, and Stigler. Minor cities of note include Newcastle, Lexington, Konawa, and Hartshorne.

The basin is subdivided into five 8-digit hydrologic units (HUC) within the state. These HUC's are the Rita Blanca (11090103), the Lower Canadian–Deer (11090201), the Lower Canadian–Walnut (11090202), the Little (11090203), and the Lower Canadian (11090204). The major surface water in the basin is the Canadian River. Major tributaries include Little River, Deer Creek, Walnut Creek, Canadian Sandy Creek, Salt Creek, Coal Creek, Gaines Creek, and Brushy Creek. Five major lakes are located in the basin—Lake Stanley Draper formed by East Elm Creek, Lake Thunderbird formed by the Little River, Lake Konawa formed by Jumper Creek, Lake McAlester formed by a tributary of Coal Creek, and the lower half of Lake Eufaula formed by the Canadian River and Coal, Brushy, and Gaines Creeks (among others). Eight permanent water quality-monitoring stations are located in the basin. One inactive water quality-monitoring station (North Canadian River, IND. NAT, TPK, Hanna) is located in the sub-basin. This station was last assessed in the 2000 BUMP report.

The basin is characterized by five ecoregions. The Central Great Plains is one of two primary ecoregions beginning in western Dewey County and continuing to eastern Cleveland and McClain Counties. The other primary ecoregion is the Central Oklahoma/Texas Plains beginning where the Central Great Plains ends and continues through the majority of Pittsburg and McIntosh counties. The Southwestern Tablelands cover an area beginning in the west and ending in the western part of Dewey County. The Arkansas Valley covers the rest of McIntosh, the eastern portions of Pittsburg County, and parts of Haskell and Latimer Counties. The Ouachita Mountains extend over the bottom part of Pittsburg and Latimer Counties. The primary land usage in the sub-basin is rangeland (open grasslands and woody areas). It dominates the western portion of the sub-basin, is prevalent in the central and east central portions, and is further interspersed throughout the remainder of the sub-basin. The secondary land use is pastureland, which is prevalent in the central and eastern portions. The tertiary land uses are cropland and forestland (post oak–blackjack oak and bottomland hardwoods). Cropland is prevalent in the west central portion of the sub-basin and is interspersed throughout the remainder of the sub-basin. Forestland is prevalent in the east central and eastern portions of the sub-basin. Other land uses of note are woodlands, bottom woodlands, farmsteads, major urban areas, and confined animal feeding operations.

STATION NAME	FWP	PBCR	PPWS	AG	AES
BRUSHY CREEK, OFF US 270, HAILEYVILLE	NS (1, 3, 5)	NS (6, 7, 8)	S	NS (12)	NT
CANADIAN RIVER, SH 2, WHITEFIELD	S	S	S	S	NT
CANADIAN RIVER, US 183, TALOGA	S	NS (8)	N/A	NS (10, 11,12)	NS (18)
CANADIAN RIVER, US 270, CALVIN	NS(3,5,16,18)	NS (8)	S	NS (12)	NS(17, 18)
CANADIAN RIVER, US 377, KONAWA	NS (5)	NS (8)	S	S	T (13, 17)
CANADIAN RIVER, US 66, BRIDGEPORT	NS (5)	NS (8)	N/A	S	NT
CANADIAN RIVER, US 77, PURCELL	NS (5)	N/A	N/A	S	NS (13,17,18)
LITTLE RIVER, SH 56, SASAKWA	NS (5)	NS (6, 8)	S	S	NS(13, 18)
ASSIGNED OWQS BENEFICIAL USES					
FWP = FISH & WILDLIFE PROPAGATION			PBCR = PRIMARY BODY CONTACT RECREATION		
PPWS = PUBLIC AND PRIVATE WATER SUPPLY			AG = AGRICULTURE		
AES = AESTHETICS					
SUPPORT CODES					
S—FULLY SUPPORTING		NS—NOT SUPPORTING		T—THREATENED (NUTRIENTS)	
NT—NOT THREATENED (NUTRIENTS)		NEI—NOT ENOUGH INFORMATION		N/A—NOT APPLICABLE	
WATER QUALITY VARIABLES					
1—DISSOLVED OXYGEN		2—METALS (ACUTE)		3—METALS (CHRONIC)	
4—PH		5—TURBIDITY		6—FECAL COLIFORM	
7— <i>ESCHERICHIA COLI</i>		8— ENTEROCOCCI		9—METALS	
10— TOTAL DISSOLVED SOLIDS		11— CHLORIDES		12— SULFATES	
13— TOTAL PHOSPHORUS (TP)		14—TP OK SCENIC RIVER CRITERION		15— NITRITE + NITRATE	
16—BIOCRITERIA		17—SESTONIC CHLOROPHYLLL-A (TSI)		18—SEDIMENTATION	