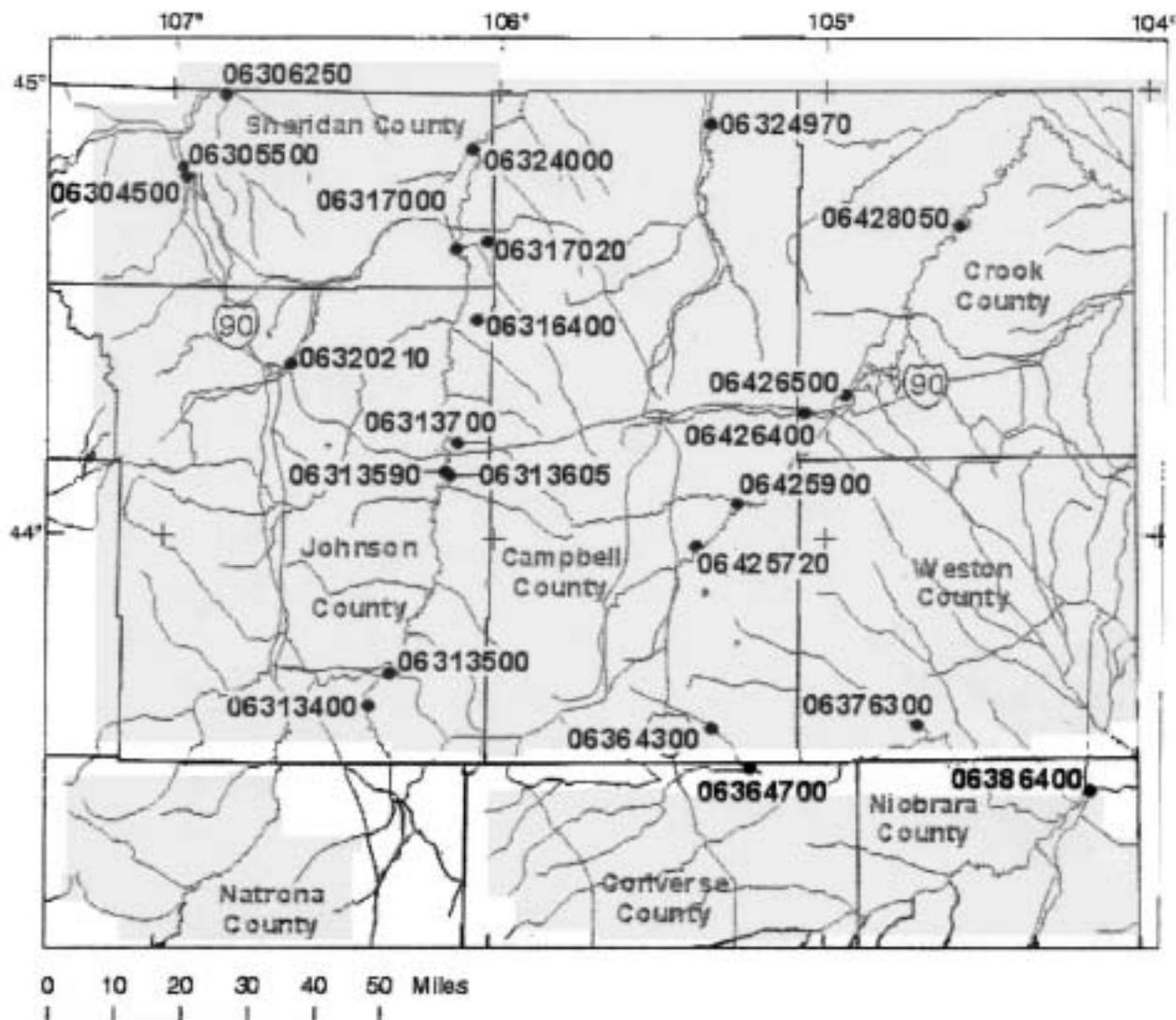




To view a specific data table, click on the station number.



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USGS NORTHEAST WYOMING C 3M SURFACEWATER MONITORING PROGRAM

Station Number	Station Name	FY 2004 Constituents	Frequency	Basis	Coop Agency	Streamflow Comp
06304:30	Little Goose Creek at Sheridan	Field, Bact, Nutrients	4	Quarterly	DEQ	
		Common ions, Trace metals	12	Monthly	DEQ	N
06305:30	Goose Creek below Sheridan	Field, Bact, Nutrients	4	Quarterly	DEQ	
		Common ions, Trace metals	12	Monthly	DEQ	N
06306:30	Prairie Dog Creek near Sheridan	Field, Common ions, Trace metals	12	Monthly	DEQ	N
06308:30	Prairie Dog Creek, near Acme	Field, Common ions, Trace metals	12	Monthly-BLM	DEQ/BLM	Y
06313:30	Salt Creek near Sussex	Field, Common ions, Trace metals	12	Monthly	DEQ	N
06313:30	Powder River at Sussex	Field, Common ions, Cont. Sp. Cond.	24	Twice per month	DEQ	Y
06313:30	Powder River above Burger Draw	Field, Common ions, Trace metals	*	Up to 10-when flow is present	BLM	Y
06313:35	Powder River below Burger Draw	Field, Common ions, Trace metals	12	Monthly	DEQ	N
06318:30	Crazy Woman Creek at Upper Station	Field, Sed, Nutrients, Cont. Sp. Cond.	24+3	Twice per month - Hydrograph-Apr-June	DEQ	Y
		Common ions, Trace metals	12	Monthly	DEQ	Y
06317:30	Powder River at Arvada	Field, Common ions, Trace metals	24	Twice per month	DEQ	Y
06317:30	Wild Horse Creek near Arvada	Field, Common ions, Trace metals	*	Up to 10-when flow is present	BLM	Y
06320:30	Clear Creek above Kumer Draw, near Buffalo	Field, Bact, Nutrients	4	Quarterly	DEQ	
		Common ions, Trace metals	12	Monthly	DEQ	N
06324:30	Clear Creek near Arvada	Field, Common ions, Trace metals	24	Twice per month	DEQ	
		Continuous specific conductance			DEQ	Y
06324:30	Little Powder River above Dry Creek, near Weston	Field, Common ions, Trace metals	12	Monthly	DEQ/MT DEQ/NAWQA	Y
06313:30	Dead Horse Creek near Buffalo	Field, Common ions, Trace metals	*	Up to 10-when flow is present	BLM	N
06364:30	Porcupine Creek near Teckla	Field, Common ions, Trace metals	*	Up to 10-when flow is present	BLM	Y
06364:30	Antelope Creek near Teckla	Field, Common ions, Trace metals	12	Monthly	DEQ	N
06376:30	Black Throated Creek near Hampshire	Field, Common ions, Trace metals	12	Monthly	DEQ	N
06386:30	Cheyenne River at Riverview	Field, Common ions, Trace metals	12	Monthly	DEQ	N
06425:30	Belle Fourche River below Rattlesnake Creek, near Piney	Field, Common ions, Trace metals	*	Up to 10-when flow is present	BLM	Y
06425:30	Caballo Creek at Mouth, near Piney	Field, Common ions, Trace metals	12	Monthly	DEQ	N
06426:30	Donkey Creek near Moorcroft	Field, Common ions, Trace metals	12	Monthly	DEQ	N
06428:30	Belle Fourche River near Moorcroft	Field, Bact, Nutrients	4	Quarterly	DEQ	
		Common ions, Trace metals	12	Monthly	DEQ	Y
06428:30	Belle Fourche River below Hulet	Field, Bact, Nutrients	4	Quarterly	DEQ	
		Common ions, Trace metals	12	Monthly	DEQ	N

Additional USGS Activities associated with CBM development in Wyoming PRB

CBM Resource Assessment: Project began in 1999, funded by BLM and USGS. Desorption measurements made on cores have been used to estimate CBM gas content of PRB coals. Ancillary collection of water quality data from CBM wells has provided what is probably the most extensive understanding of CBM water chemistry in PRB to date.

Burger Draw: USGS work at site has been going on for 3 years. Work primarily funded by USGS Initiative Funds targeted at increasing interdisciplinary activities within the agency. BLM has provided supplemental funding. Site is instrumented to measure recharge rates and examine chemistry of CBM discharge water as it moves into the subsurface from an ephemeral channel. Techniques employed include water level measurements in shallow wells, temperature profiling with depth, residual chloride of subsurface material, hydraulic conductivity measurements, tritium and stable isotope analyses, and water geochemistry. Inventory of invasive species has been done in drainage also. USGS funding ends September 30, a report will be prepared in late '03/early '04.

Estimates of Water Volumes in PRB Formations (Wasatch and Ft. Union): Project begun in FY'02, funded by BLM and USGS. Objective is to assemble all available information on porosities and extent and volume of various lithologies that comprise the Wasatch and Ft. Union formations in the PRB, and using that information calculate volumes of water contained in each unit. Report will be published in FY'04

Skewed Reservoir: Infiltration pond site jointly chosen for study by BLM and USGS. USGS funding from CR Director, BLM provided supplemental funding; FY'03 is first year of effort. Work to date has focused on installation of monitor wells and lysimeters as well as collection of water samples and cores for analysis in the vicinity of newly constructed (June '03) infiltration reservoir. Techniques employed will be similar to those used in the Burger Draw study as well as batch leaching experiments with soils and sediments obtained from the site. USGS effort will continue in '04 with main goal to elucidate fate and transport of water and associated solutes that enter the shallow subsurface system below and down gradient of the pond.

Surface Water Model Development: Project begun late in FY'03, funded entirely by BLM. In consultation with BLM select a watershed (8-digit HUC or smaller) for construction of a SW quality and quantity model. Objectives are to identify, compile, reduce and document, all data available for the project watershed that can be used to construct a watershed model (BASINS), construct and calibrate the model, deliver model to BLM with documentation and recommendations for additional steps needed.

Compilation of PRB Water Resources Work: Project begun late in FY'03, funded entirely by BLM. Objective is to identify, compile and produce an annotated bibliography of past, present and proposed hydrologic studies of the Wasatch and Ft. Union formations in the PRB. Work will conclude in FY'04.

ALSO FUNDED BY BLM