

Cause/Effect	Land or Resource Use											
	Agriculture	Urban	Rural Subdivision	Wildlife	Fisheries	Issues	Mitigation Opportunities	Timber Harvest	Wilderness	Recreation	Park management	Mineral Extraction
Natural Background-chemical physical and biological, sediment (Beginning State)				h					h			
Goals- Educational efforts to inform on data availability	h	h	h	h				h	h	h	h	h
ID data sources – portal												
Cooperate in opportunities utilize, analyze data												
Improved Sampling and Analysis												h
State of water quality sampling (inventory), and classification etc.												
Loss of contact recreation, the effects of the loss		h	h							h	h	
Fish consumption safety	h	h	h		h/h	Heavy metals accumulation, mining and natural	Understand sources and extent Run off retention ponds Public health warning/education			h/h		h
Fish consumption safety						Pesticide	Understand sources and extent . USGS data is available, Pesticide training					
Fish consumption safety						Petroleum by-products	Garland oil field, old Husky refinery, monitoring wells - Wyo DEQ has information, Understand sources and extent - Cumulative effect?					
Soil erosion	h/h	h/m	h/m	l/l	l/h	riparian health		h/l		m/m	l/l	h/h
						widening of stream channel	address over grazing, urban run-off, reservoir flow regime, timber harvesting, vegetation management. Invasive vegetation species management, rowcropping too close to stream bank. Improve flood irrigation water management practices where erosion problems are noted					

						water temperature increase	address over grazing, reservoir flow regime, timber harvesting, vegetation management. Invasive vegetation species management, rowcropping too close to stream bank. Improve flood irrigation water management practices where erosion problems are noted					
						stream canopy loss	address over grazing, reservoir flow regime, timber harvesting, vegetation management. Invasive vegetation species management, rowcropping too close to stream bank. Improve flood irrigation water management practices where erosion problems are noted					
						down cutting stream bank	address over grazing, reservoir flow regime, timber harvesting, vegetation management. Invasive vegetation species management, rowcropping too close to stream bank. Improve flood irrigation water management practices where erosion problems are noted					
							urban run off - storm water drain management - Cody use old sewage lagoon facility Improve sediment management from subdivisions					
							construction project sediment control					
Ground water quality	h/h	h/h	h/h	l/h	na/h			l/na		l/m		h/?
Point source inputs (permitted discharge)	m/l	h/h	l/l									h/h
Sedimentation – aquatic habitat loss, geomorphic process natural stream function) effects,	h/h	m/m	m/m	l/l	l/h	loss of habitat (winter and spawning)	buffer zones, wetland development, improved irrigation practices, management irrig run off, veg management, invasive species, improve surface mining practices,	h/l		m/m	l/l	h/l
						Prolonged sedimentation will kill fish	urban run off - storm water drain management - Cody use old sewage lagoon facility Improve sediment management from subdivisions construction project sediment control					

						decreasing invertebrate production						
						decrease instream vegetation						
						reduction in plankton-turbidity related						
Water quantity and water banking – wetlands, flood irrigation recharge,												
Upland Grazing management	h		h	na/m	na/h	vegetation loss, depletion	upland water developments, rest rotation, grazing management practices, improved education, fencing, livestock management practices,	m/m	m/l	l/m		
						invasive species	inventoring, treatment, monitoring, education,					
Riparian management	h/h	m/m	h/h	m/h	na/h	stream bank vegetation loss, depletion		h/l	l/l	l/h	l/l	h/na
Roads types and effects												
Forest management	na/h		wui fire management	h/h	na/h			na/h		na/h		na/h
BLM management	na/h		management	h/h	na/h			na/h		na/h		na/h
Pesticide management							see agriculture, rural and urban land use					
Small acreages							See rural subdivision land use					
Growth patterns (urban sprawl)							see urban and rural subdivision land use					
Waste management, rural septic	h/h	h/h	h/h							h/h	h/h	
AFOs CAFOs	h/h		h/h									
Unmanaged ORV	l/l	m/m	m/m	na/m	na/m				l/h	h/h		
Invasive species (terrestrial and aquatic)	h/h	h/h	h/h	transport/h	na/h				na/h	h/h	na/h	h/na
Education and outreach							solution action					
Connectivity of systems												
Irrigation, infrastructure, efficiencies, fish loss												
Reservoir management							look at addressing as a land use			na/h		

