

**Fossil Creek Research and Monitoring Inventory
March 15, 2005**

<i>Monitoring Objective and Short Description</i>	<i>Research Potential</i>	<i>Focus</i>	<i>Driver</i>	<i>Timing & Duration</i>	<i>Interested or Responsible Party(ies)</i>	<i>Partner(s)</i>	<i>Funding</i>	<i>Principal Contact</i>	<i>Secondary Contact (if applicable)</i>
<i>Ongoing</i>									
Ecology / fish / macroinvertebrates / crayfish / food base as trophic positions	yes	riparian/stream corridor	science, regulatory, adaptive management	work continuing, and much of it should continue for at least 10 years	NAU (Jane Marks) & USFWS (Pam Sponholtz/Shaula Hedwall)	USFS	in-place, proposed	Jane Marks, NAU, Box 6024, Flagstaff, AZ 86011 (928) 523-0918	Pam Sponholtz/Shaula Hedwall: USFWS, 323 N. Leroux, Flagstaff, AZ 86001 (928) 226-0614
Travertine formation	yes	riparian/stream corridor	science, regulatory	summer 2004 and into full flow cycle	NAU (Rod Parnell)		in-place, proposed	Rod Parnell, NAU, Box 4099, Flagstaff, AZ 86011 (928) 523-3329	
Recreation use and impacts	yes	riparian/stream corridor	adaptive management	start summer 2004 through return of full flows	NAU (Marty Lee)	USFS	in-place	Marty Lee, NAU, Box 15018, Flagstaff, AZ 86011 (928) 523-6644	
Cultural and Archeological Resource Impacts	yes	Childs-Irving facilites	regulatory	2005-2009	APS/USFS/SHPO		N/A	APS	
Spring Discharge and Characterization	yes	riparian corridor, watershed	science, management	start summer 2004	NAU (Abe Springer)		in-place	Abe Springer, NAU, Box 4099, Flagstaff, AZ 86011 (928) 523-7198	
Channel morphology and sediment distribution	yes	riparian corridor, watershed	regulatory, science, adaptive management	Begin summer/fall 2004 and continue through at least 2010	NAU (Charlie Schlinger)		in-place, proposed	Charlie Schlinger, NAU, Box 15600, Flagstaff, AZ 86011 (928) 523-0652	
Leopard frogs	yes	riparian corridor	science, regulatory, and adaptive management	summer 2004 through 2009	USFWS (Shaula Hedwall) / USFS (Cecelia Overby, Janie Agyagos, Justin Jimenez, Susi MacVean & Mike Sredl at AZ Game & Fish)		unknown	Cecilia Overby, USFS, Coconino National Forest, Flagstaff, AZ (928) 527-3460	Shaula Hedwall, USFWS, 323 N. Leroux, Flagstaff, AZ 86001 (928) 226-0614
Riparian vegetation	yes	riparian corridor	regulatory, adaptive management	2004 and 2007	USFS/ USFWS		unknown	Janie Agyagos: USFS, Red Rock Ranger District, (928) 203-7507	Pam Sponholtz/Shaula Hedwall: USFWS, 323 N. Leroux, Flagstaff, AZ 86001 (928) 226-0614
In-stream habitat (pools, riffles, travertine dams)	yes	stream	science, adaptive management	2004 through return of full flows	USFS/USFWS/AGFD/NAU		???	Janie Agyagos: USFS, Red Rock Ranger District, (928) 203-7507	Pam Sponholtz: USFWS, Flagstaff Suboffice, 323 N. Leroux, Flagstaff, AZ 86001 (928) 226-0614
Watershed headwater areas	yes	watershed	science, management	prior 2004 and 2004	NAU: Jane Marks (water quality and macroinvertebrates)/Dianne Anderson (long-term sediment history along M. Rim		in-place	Jane Marks, NAU, Box 6024, Flagstaff, AZ 86011 (928) 523-0918	
Ecosystem processes (decomposition, primary productivity, travertine formation, nutrient cycling, microbial genetics)	yes	riparian/stream corridor/watershed	research/adaptive management		NAU (Marks, Watwood, Parnell, Hungate)		in-place, proposed	Jane Marks, NAU, Box 6024, Flagstaff, AZ 86011 (928) 523-0918	Rod Parnell, NAU, Box 4099, Flagstaff AZ 96011 (928) 523-3329
Spring water chemistry (minor, trace, and gases)	yes	riparian/stream corridor/watershed	science, management	Summer and Fall 2004	NAU (Abe Springer)/UNM		in-place, proposed	Abe Springer, NAU, Box 4099, Flagstaff, AZ 86011 (928) 523-7198	
Yellow-billed cuckoo, wouthwestern willow flycatcher, black hawk surveys	yes	riparian corridor/watershed	science, management	summer 2004 through 2009	USFS and FERC (flycatcher)/USFS (Janie Agyagos) (cuckoo and hawk)		separate Heritage Grant (USGS) for 2004/funding beyond this year not secured yet	Janie Agyagos: USFS, Red Rock Ranger District, Sedona, AZ (928) 203-7507	
Northern Gila County regional geologic mapping and water testing monitoring	possibly	watershed	science, adaptive management	ongoing; anticipated completion by mid-2005	USBR (Leslie Meyers)		in-place	Leslie Meyers, U.S. Bureau of Reclamation, (602) 216-3835	
Native fish renovation and monitoring (fish and macroinvertebrates)	yes	stream corridor/watershed	science, adaptive management	October-December 2004	AGFD (Dave Weedman) - lead / USFWS (Pam Sponholtz/Shaula Hedwall) / USBR (Rob Clarkson) / USFS (Cecilia Overby); USFS Rocky Mountain Research Station (Steve Overby); NAU (Jane Marks)	AGFD, USFWS, USBR, NAU	in-place	Dave Weedman, AGFD, Mesa office, 480-324-3545	Pam Sponholtz/Shaula Hedwall: USFWS, Flagstaff Suboffice, 323 N. Leroux, (928) 226-0614
Aerial Photography Mission/Remote Sensing	yes	riparian corridor/watershed	science	summer 2004, November 2004	NAU (Charlie Schlinger)	Cooper Aerial	summer 2004 by Cooper; USFS may fly in 2005	Charlie Schlinger: NAU, Box 15600, Flagstaff, AZ 86011 ((28) 523-0652	
Cultural/Archeological Resources	possibly	riparian/stream corridor/watershed	management	Historic Properties Mgmt. Plan completed and accepted by SHPO	APS	Coconino National Forest, Red Rock Ranger District; SHPO	in-place	Phil Smithers, APS	Ken Anderson, Red Rock District Ranger, Sedona (928) 203-7501
Cultural/Archeological Resources	possibly	riparian/stream corridor/watershed	management	2005-2010	Yavapai-Apache Nation		in-place	Chris Coder, Yavapai Apache Nation, ccoder@yan-tribe.org, 928-567-7026	
Landscape-Scale Assessment of Fire Risk	yes	watershed	regulatory, adaptive management	Ask Haydee Hampton	NAU (Haydee Hampton)	USFS	in place (part of larger project)	Haydee Hampton, NAU, P.O. Box 5694, Flagstaff, AZ 86011 (928) 523-0872	
Stehr Lake sediment coring	yes	watershed	science	summer 2004	NAU (Paul Gremillion)		in-place (NAU funded)	Paul Gremillion, NAU, Box 15600, Flagstaff, AZ 86011 (928) 523-5382	
Streamflow Gaging	yes	stream, watershed	science, management, adaptive management	on-going	USFS		Tonto N.F. is funding quarterly gaging	Grant Loomis: Tonto N.F., Phoenix, AZ	
Streamflow Gaging Station	yes	stream, watershed, region	science, management, adaptive management	2005-2006	NAU, SRP, USFS, USBR		NAU proposal for gaging station site selection and design has received approval from SRP	Charlie Schlinger: NAU, Box 15600, Flagstaff, AZ 86011 ((28) 523-0652; Greg Korumrump, P.O. Box 52025, SRP, Phoenix, Arizona 85072-2025, 602-236-3264	Leslie Meyers, U.S. Bureau of Reclamation, (602) 216-3835; Grant Loomis: Tonto N.F., Phoenix, AZ