

Project partners

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- Ashley McFarland—University of Idaho Extension
- Tom Black—USFS Rocky Mountain Research Station
- Attila Foinagy—University of Idaho



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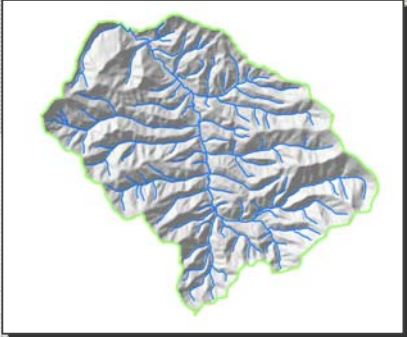
Project support

- Idaho Panhandle National Forest, Resource Advisory Committee
- Shoshone County, Idaho
- North Fork Coeur d'Alene River WAG
- Landowner concerns



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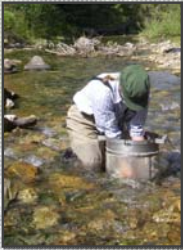
Project area



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Beaver Creek Watershed Assessment


- Degraded watershed
- Need to identify pollution sources
- Prioritize restoration activities
- GRAIP will assist in identifying sediment sources from roads



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GRAIP

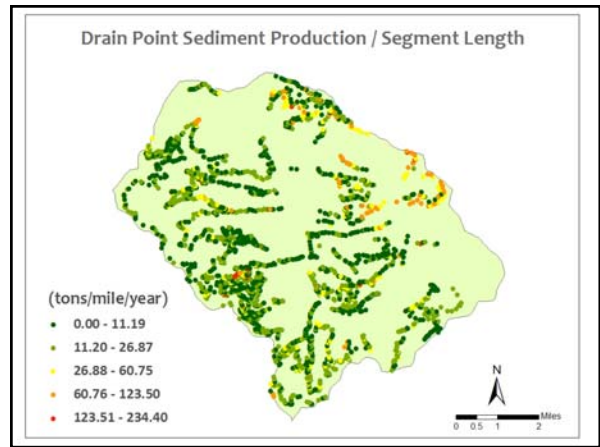
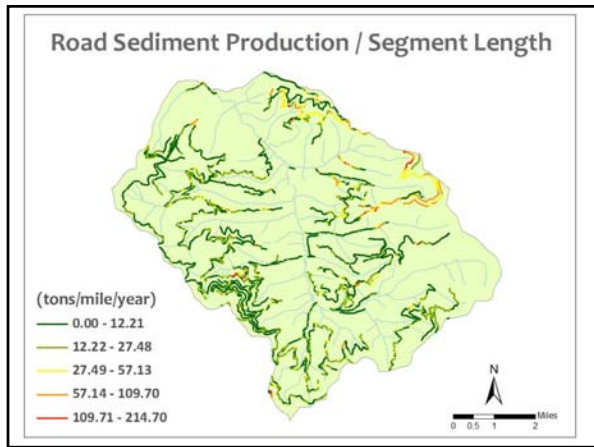
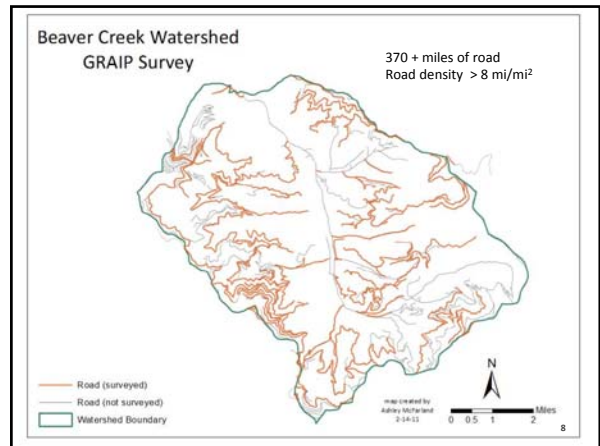
- Geomorphic Road Analysis and Inventory Package
- Developed by the USFS Rocky Mountain Research Station
- GPS inventory of transportation network



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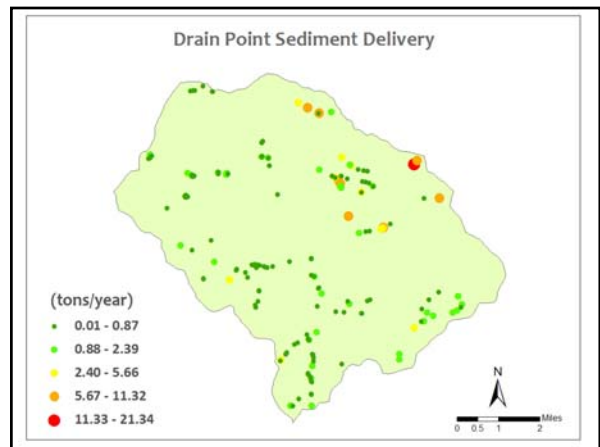
Model parameters

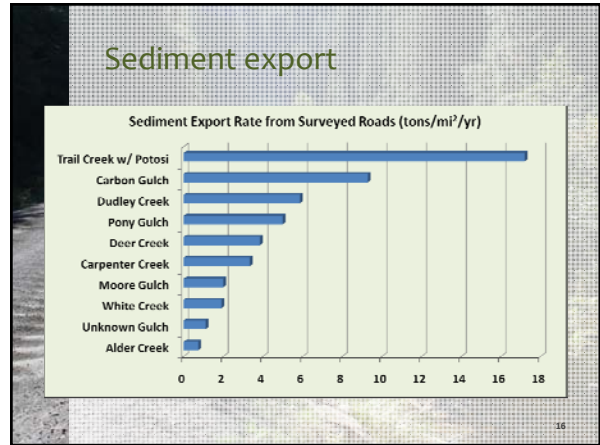
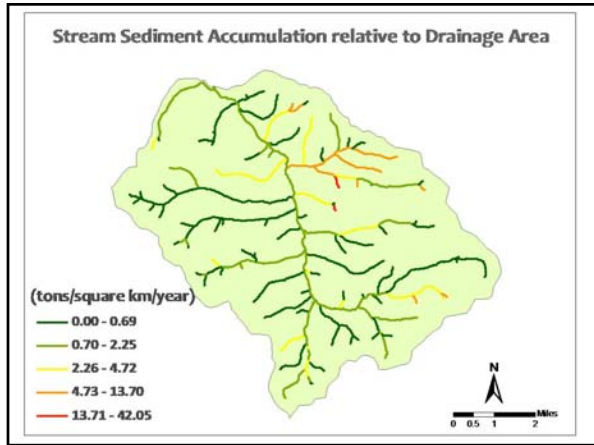
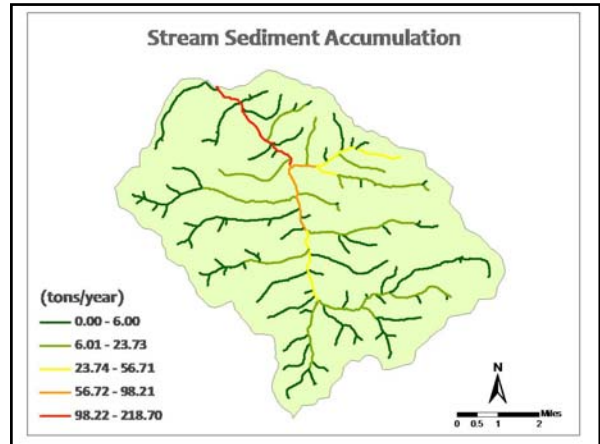
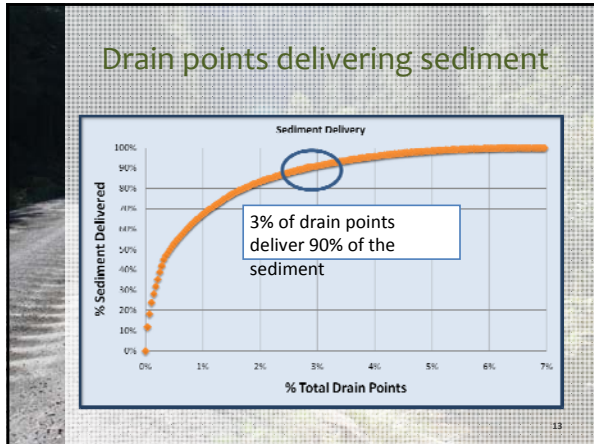
- Document sources of sediment
- How does the sediment interact with the road?
- How does sediment find it's way to the stream?



Evaluating drainage types

Type	Number	Production Tons/Year	Delivered Tons/Year	% Sediment Delivered
Broadbase dip	347	382	16	4.2%
Diffuse	1286	1302	33	2.5%
Ditch relief	64	33	1	3.0%
Lead off ditch	4	0	0	0%
Non-engineered	695	679	118	17.4%
Stream crossing	106	39	39	100%
Sump	3	0	0	0%
Water bar	198	158	7	4.4%
Excavated stream crossing	20	5	5	100%
Totals	2723	2598	219	8.4%





- ### Moving forward
- Plan to use these results along with other assessment data to begin identifying areas of concern in the watershed
 - Start prioritizing restoration work
 - Identify potential projects
 - 319 Funding

Questions?

GRAIP Website:
<http://www.fs.fed.us/GRAIP/index.shtml>