Current WCF Data Collection

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WCF

• **System** for
  – assessing watershed condition
  – monitoring and tracking conditions over time
Six-Step Process

Step A: Classify
Watershed Condition

Step B: Prioritize
Watersheds for Restoration

Step C: Develop
Watershed Restoration Action Plans

Step D: Implement
Integrated Projects

Step E: Track
Restoration Accomplishments

Step F: Monitor and Verify
Some Notions

• Assessment & Monitoring are distinctly different.
  
  – ‘Assess’
    evaluate *existing information* to make a *judgement* about something
  
  – ‘Monitor’
    *collect information* to *evaluate effects* of actions or *changes* in conditions
Some Notions

• Assessment & Monitoring
  – Need not (often cannot) use same
    ▪ indicators, data, evaluation methods
  – Difficult to link explicitly.
    ▪ scale, resolution
  – Can be (must be) linked conceptually.
  – New technologies are creating new opportunities.
To assess WC, probabilities matter.

↑ roads = ↑ risk of ↑
• surface erosion
• mass wasting
• etc.

Road Density, based on:
• existing digital road maps
To treat roads, **realities** matter.

**Fine sediment delivery, mass wasting risk, etc.** based on:
- field inventories
- models
12% of roads deliver 90% of fine sediment.
Six-Step Process

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Fine Sediment Delivery
(kg/yr/km)
Improved Watershed Condition?

**Six-Step Process**

- **Step A:** Classify Watershed Condition
- **Step B:** Prioritize Watersheds for Restoration
- **Step C:** Develop Watershed Restoration Action Plans
- **Step D:** Implement Integrated Projects
- **Step E:** Track Restoration Accomplishments
- **Step F:** Monitor and Verify
Conclusions

• WCF needs all 6 steps.
• Assessment and Monitoring often need different
  - indicators, data, evaluation methods
• Linkages
  - more conceptual than explicit
Conclusions

• Data-driven, DSM approach has some potential to improve linkages.

• Need
  ▪ sensitive indicators
  ▪ common meaning
  ▪ consistent data

• New technologies may help.