St. Joseph River Watershed
319 Project

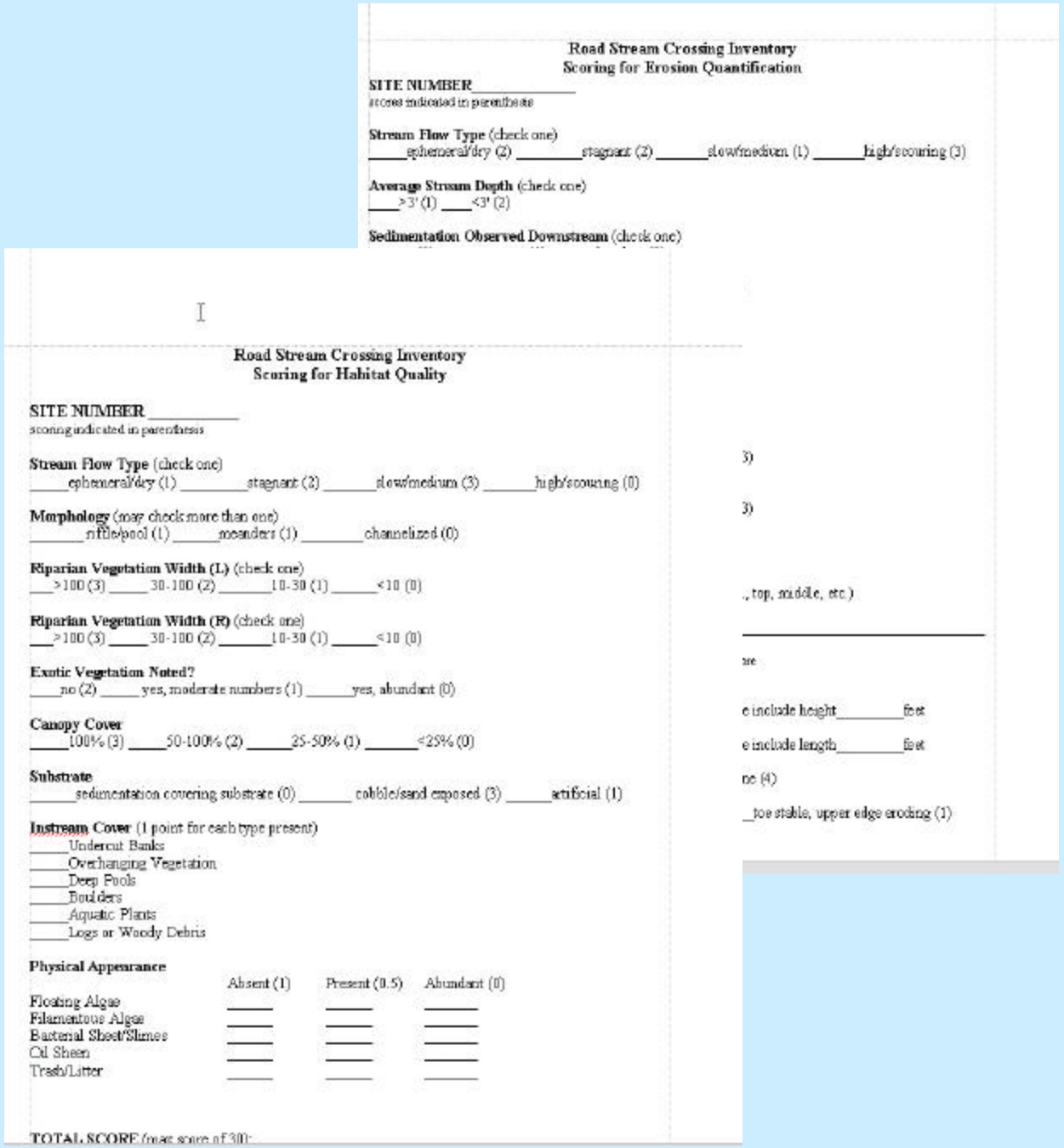
Road-Stream Crossing Subcommittee

August 19, 2003 Meeting

What is available?

What is required?

What would be useful and efficient?



Road Stream Crossing Inventory
Scoring for Habitat Quality

SITE NUMBER _____
scoring indicated in parenthesis

Stream Flow Type (check one)
_____ephemeral/dry (1) _____stagnant (2) _____slow/medium (3) _____high/scouring (0)

Morphology (*may* check more than one)
_____riffle/pool (1) _____meanders (1) _____channelized (0)

Riparian Vegetation Width (L) (check one)
___>100 (3) _____30-100 (2) _____10-30 (1) _____<10 (0)

Riparian Vegetation Width (R) (check one)
___>100 (3) _____30-100 (2) _____10-30 (1) _____<10 (0)

Exotic Vegetation Noted?
____no (2) _____yes, moderate numbers (1) _____yes, abundant (0)

Canopy Cover
_____100% (3) _____50-100% (2) _____25-50% (1) _____<25% (0)

Substrate
_____sedimentation covering substrate (0) _____ cobble/sand exposed (3) _____artificial (1)

Instream Cover (1 point for each type present)
_____Undercut Banks
_____Overhanging Vegetation
_____Deep Pools
_____Boulders
_____Aquatic Plants
_____Logs or Woody Debris

Physical Appearance

	Absent (1)	Present (0.5)	Abundant (0)
Floating Algae	_____	_____	_____
Filamentous Algae	_____	_____	_____
Bacterial Sheet/Slimes	_____	_____	_____
Oil Sheen	_____	_____	_____
Trash/Litter	_____	_____	_____

TOTAL SCORE (max score of 30):

What are the limitations?

How can we integrate new data into original survey needs?

Should one universal form be used?

Or can we add certain additional parameters to all forms?

- **Length**
- **Height**
- **Erosion severity**
- **Soil type**

Erosion Severity allows you to estimate lateral recession rate.

Volume of sediment loss/year = length * height * lateral recession rate.

Alternatively lateral recession rate can be estimated from aerial photographs or location of bank in relation to stationary object over time.

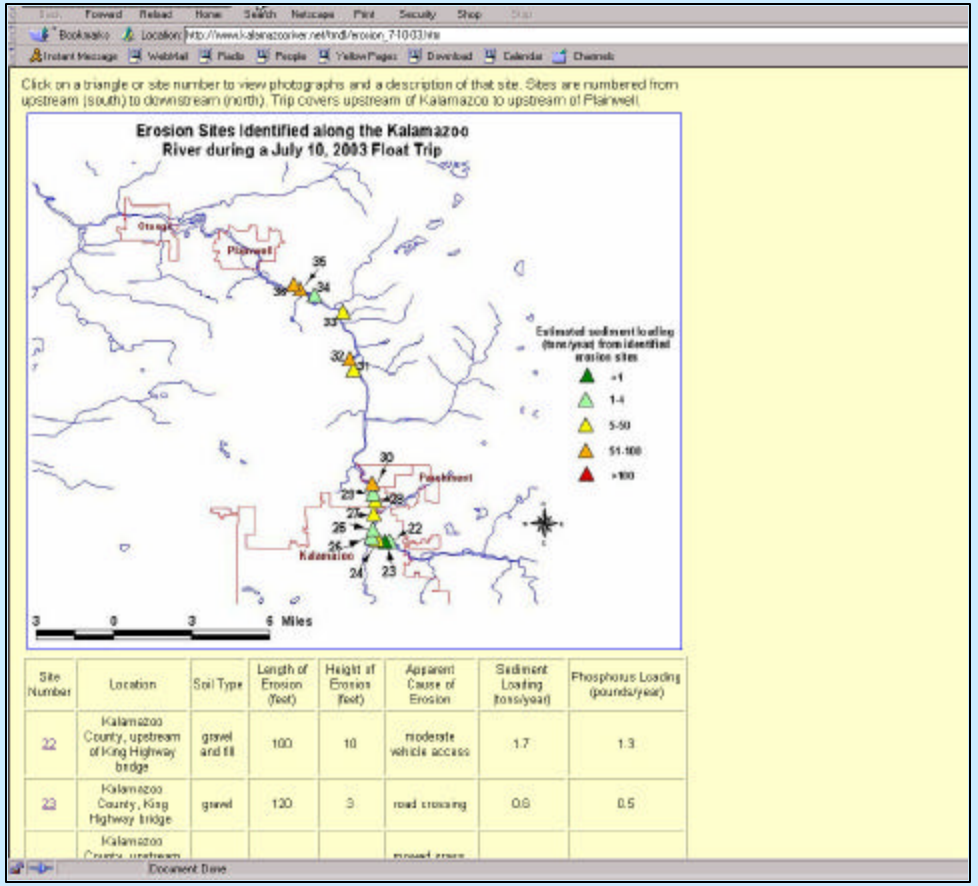
Estimate soil type to convert volume of sediment loss to tons of sediment loss, using the density.

Volume (cubic feet) * Density (tons/ cubic foot) = Weight of soil loss (tons)

How do we report data?

How do we share data?

- Individual organizations mail hard copies to one repository.
- Individual organizations have spreadsheets for calculations and send updates to Friends, DEQ, etc.
- On-line data entry at one location accessible to public.



How do we use the data to set priorities?

- 319 Implementation projects
- Road/Drain Commission maintenance/projects
- Subwatershed group projects