Welcome to the West Virginia Department of Environmental Protection's *Save Our Streams* Volunteer Assessment Database (VAD). To begin entering new survey data, please define a unique Survey Code below that will identify this assessment.

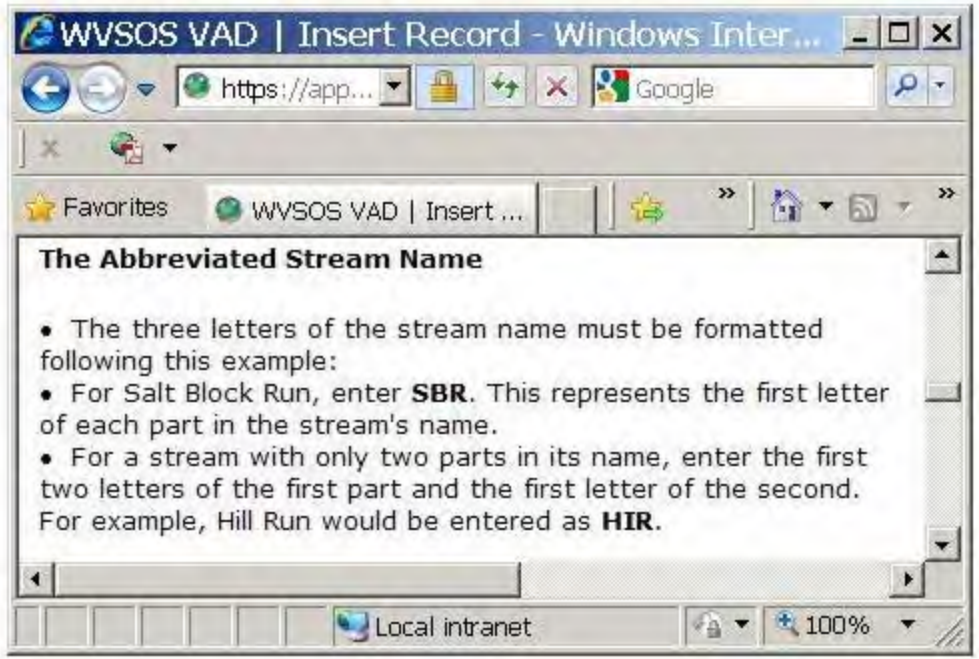
Survey Code

Basin: Cacapon River Help Three letters of the **stream name:** Help

Date of Assessment: January 01 19 0 0 Create

For Multiple Assessments

If more than one stream survey was completed for the same stream on the same day (at different locations, for example), you must append an additional *and* unique character to the Survey Code for all surveys after the first. You may use a **lower case** letter; however, **do not** append additional numbers to the Survey Code.



Create

» Edit

Stream: Bakers Run

Topo Quad: Needmore

County: Hardy

Start Time (HHMM/24-Hour Format): 0900

End Time (HHMM/24-Hour Format): 1200

Monitor(s): East Hardy High School

Level: 1 Help

Latitude (DMS): 39 DD 02 MM 54 SS

Longitude (DMS): 78 DD 45 MM 25.7 SS

RR miles: Help

Station: Help

Directions: From lower parking lot behind high

Update Survey

Location Condition...

River Reach miles - The river reach mile is the distance from your station to the mouth of the stream you're monitoring.

Location Condition...

Station - The station is the name or number that you give your monitoring site. This should remain the same throughout the life of the station.

Summary Data Sheet

Location | Water Quality | Physical Conditions | Habitat Conditions | Biological Conditions
Flow and Weather/Land Use Conditions | Macroinvertebrates | Overall Assessment| Photos | Map

County: Hardy **Topo Quad: Needmore**

Stream: Bakers Run

Monitor(s): East Hardy High School **Level:** 1

Date of Assessment: 2007-11-13

Start Time: 0900 **End Time:** 1200

Directions: From lower parking lot behind high school, follow path from pavillion down to stream

RR miles: **Station:**

Latitude: 39.0483333333 **Longitude:** -78.7571388889

Basin: Cacapon River

Note: In order to view the map of your survey location, you must enter Latitude/Longitude in degrees, minutes, and seconds on the Edit page. After you have entered this information, you must click here to convert DMS to degrees decimal.

» Edit Help

	Value	Units
pH:	7.5	
Conductivity:	250	us
Dissolved Oxygen:	10.0	ppm
Temperature (Celsius):	11	
Iron:		
Aluminum:		
Manganese:		
Nitrite:		
Nitrate:	ND	ppm
Phosphate:	1.0	ppm
Turbidity:	10	JTUs
Fecal Coliform:		
E-coli:		
Total Suspended Solids (TSS):		
Total Hardness:		
Alkalinity:		
Acidity:		
Sulphate:		

Other attributes (describe):

Results an average of 3 surveys by 3 different groups of students

Update Survey

Physical Conditions Help - Windows Interne...

There are a wide variety of water chemistry conditions that influence the stream and at a minimum you should choose 2 to 4 conditions to measure. WV Save Our Streams recommends measuring stream temperature, pH, conductivity, and dissolved oxygen and adding additional conditions if other influences such as nutrients or metals are suspected based upon visual clues. For more information visit the water quality section of EPA's Volunteer Stream Monitoring: A Methods Manual on the Internet.

Summary Data Sheet

Location | Water Quality | Physical Conditions | Habitat Conditions | Biological Conditions
Flow and Weather/Land Use Conditions | Macroinvertebrates | Overall Assessment| Photos | Map

pH: 7.5

Conductivity: 250 us

Dissolved Oxygen: 10.0 ppm

Temperature (Celsius): 11

Iron:

Aluminum:

Manganese:

Nitrite:

Nitrate: ND ppm

Phosphate: 1.0 ppm

Turbidity: 10 JTUs

Fecal Coliform:

E-coli:

Total Suspended Solids (TSS):

Total Hardness:

Alkalinity:

Acidity:

Sulphate:

Other attributes (describe): Results an average of 3 surveys by 3 different groups of students

Water Clarity: Clear

Water Color: None

Water Odor: None

Streambed Color: Brown

Algae Color: Dark Green

Algae Abundance: Everywhere

Algae Texture: Hairy

Surface Foam: Slight

Physical Conditions Help - Windows Internet Explo...

Attributes - The physical conditions are assessed mostly by visual observation; however, certain channel attributes such as width and depth of selected features (riffles, runs or pools) should be measured, and streambed composition should be thoroughly assessed. When recording this information always record the most prevalent condition and make notes about other visual clues if you feel these are important. For more information refer to your WV Save Our Streams Manual or EPA's Wadeable Streams Assessment Manual.

Comments:

Riffle Width:

Riffle Depth:

Pool Width: 6.8

Pool Depth: 0.9

Run Width: 15

Run Depth: 0.7

STREAMBED COMPOSITION: Results are either an estimate of riffle composition or percentages from pebble count data; the index is a calculation based upon the composition.

Download the **Pebble Count** spreadsheet (Excel)

Silt/clay	Sand	Fine gravel	Coarse gravel	Cobble	Boulder	Bedrock
	6	21	20	27	19	3

INDEX 3.43 **D50:**

Comments:

Summary Data Sheet

Water Clarity:	Clear	**Algae Color:**	Dark Green
Water Color:	None	**Algae Abundance:**	Everywhere
Water Odor:	None	**Algae Texture:**	Hairy
Streambed Color:	Brown	**Surface Foam:**	Slight

Comments:

Riffle Width:		**Pool Width:**	6.8	**Run Width:**	15
Riffle Depth:		**Pool Depth:**	0.9	**Run Depth:**	0.7

Streambed Composition

Silt/clay	Sand	Fine gravel	Coarse gravel	Cobble	Boulder	Bedrock
	6	21	20	27	19	3

Index: 3.43 **D50:**

Comments:

» Edit Help

Attachment Sites:	0 Help	
Riffle Frequency:	0 Help	
Velocity/Depth Combinations:	0 Help	
Channel Flow Status:	0 Help	
Channel Alterations:	0 Help	
Sediment Deposition:	17 Help	
Embeddedness:	12 Help	
Bank Protection:	0 (L)	0 (R) Help
Bank Stability:	7 (L)	8 (R) Help
Riparian Buffer Width:	9 (L)	4 (R) Help

Comments:

Update Survey

Habitat Conditions Help - Windows Inte...

Habitat Conditions - Habitat conditions have a great deal of influence on the land and water relationships. Depending upon the level of assessment, anywhere from 4 to 10 of in channel and out of channel habitat features are evaluated based upon descriptions and an integrity scale from 1-20. The habitat index is a score based upon the total score and the number of habitat conditions assessed. For example, if 10 conditions were assessed than the total possible points would be 200 (based upon 20-points for each condition). If your total score were 150, then your habitat index would be 75, which is calculated by dividing 150 by 200 and multiplying by 100. The habitat integrity rating would be suboptimal based upon the scale provided. For more information refer to your WV Save Our Streams Manual or EPA's Wadeable Streams Assessment Manual.

Summary Data Sheet

Location | Water Quality | Physical Conditions | Habitat Conditions | Biological Conditions
Flow and Weather/Land Use Conditions | Macroinvertebrates | Overall Assessment | Photos | Map

Attachment Sites:	0	
Riffle Frequency:	0	
Velocity/Depth Combinations:	0	
Channel Flow Status:	0	
Channel Alterations:	0	
Sediment Deposition:	17	
Embeddedness:	12	
Bank Protection:	0 (L)	0 (R)
Bank Stability:	7 (L)	8 (R)
Riparian Buffer Width:	9 (L)	4 (R)
Total Score: 57		

Habitat Index: 71.25 **Integrity:** Sub-optimal

Comments:

» Edit Help

Discharge (cfs): 19.1 Help

Water Level: Normal

Current Weather Conditions: Cloudy, intermittent showers, cool

Past 48-hours: Rainy, low 50s

Land Use Impacts:	Impact	Location
Single Family Residences:		Streamside
Suburban Developments:		
Urban Areas:		
Industrial Areas:		Within the Watershed
Parking Lots, Malls, Etc.:		
Bridges:		Streamside
Paved Roads:		Within 1/4 Mile
Unpaved Roads:		Within the Watershed
Active Construction:		Within 1/4 Mile
Parks, Trails, Etc.:		Streamside
Other Recreation:		
Intensive Feedlots:		
Pastureland:		
Cropland:		
Oil & Gas Wells:		
Logging:		
Mountaintop Mining:		
Abandoned Mining:		

Flow and Weather Help - Windows Internet Explorer

Land Use Assessment - If you feel that there is a disturbance to your stream station from land uses in your watershed then use the rating scale provided as your method of assessing these impacts. The rating scale is as follows: slight (**1**), moderate (**2**), and high (**3**); the proximity of the activity is also noted as streamside (**S**), within ¼ mile (**M**) or somewhere within the watershed (**W**). If there is no impact from a land use, do not give it a rating; however you can note its presence in the watershed by assigning a location. You are also provided with an option to give an **overall impact rating**, which is the same rating scale as the above, except that you should keep in mind this is a cumulative impact. For example, if there were five disturbances relatively close to the station all rated as slight, your overall impact should probably be rated as moderate or even high due simply to the number of impacts and their location (use your best judgment). To rate the disturbance from each activity use the drop-down boxes. Take care when using this category; the only way the ratings can be changed is by deleting the entire survey and starting over.

Summary Data Sheet

Location | Water Quality | Physical Conditions | Habitat Conditions | Biological Conditions
Flow and Weather/Land Use Conditions | Macroinvertebrates | Overall Assessment | Photos | Map

Discharge (cfs):	19.1
Water Level:	Normal
Current Weather Conditions:	Cloudy, intermittent showers, cool
Past 48-hours:	Rainy, low 50s

Land Use Impacts	Impact	Location
Single Family Residences:		Streamside
Suburban Developments:		
Urban Areas:		
Industrial Areas:		Within the Watershed
Parking Lots, Malls, Etc.:		
Bridges:		Streamside
Paved Roads:		Within 1/4 Mile
Unpaved Roads:		Within the Watershed
Active Construction:		Within 1/4 Mile
Parks, Trails, Etc.:		Streamside
Other Recreation:		
Intensive Feedlots:		
Pastureland:		Within 1/4 Mile
Cropland:		Within the Watershed
Oil & Gas Wells:		
Logging:		Within the Watershed
Mountaintop Mining:		
Abandoned Mining:		
Deep Mining:		
Quarries:		
Trash Dumps:		
Other (describe below):		
Description:		
Overall Impact:	Moderate	

» Edit Help

Total Taxa: 17
Help

EPT Taxa: 6
Help

Biotic Index: 4.04
Help

Percent EPT Abundance: 59.7
Help

Percent Dominant: 31.3
Help

Percent Chironomidae:
Help

Percent Sensitive:

Percent Tolerant: 5.2
Help

Stream Index: 76.2
Help

Integrity: Sub-optimal

Other organisms observed or collected (comments):

Update Survey

Biological Conditions Help - Windows Int...

Biological Condition -Metrics are used to analyze and interpret biological data by condensing lists of organisms into relevant biological information. In order to be useful, metrics must be proven to respond in predictable ways to various types and intensities of stream impacts. WV Save Our Streams recommends using a multimetric approach that combines several metrics into a total Stream Index score. The program provides an Excel spreadsheet to help calculate the necessary metrics based upon the level of assessment.

Summary Data Sheet

Location | Water Quality | Physical Conditions | Habitat Conditions | Biological Conditions
Flow and Weather/Land Use Conditions | Macroinvertebrates | Overall Assessment| Photos | Map

Total Taxa:	17
EPT Taxa:	6
Biotic Index:	4.04
Percent EPT Abundance:	59.7
Percent Dominant:	31.3
Percent Chironomidae:	
Percent Sensitive:	
Percent Tolerant:	5.2
Stream Index:	76.2
Integrity:	Sub-optimal
Comments:	

Click here to download the Stream Index Calculation spreadsheet (Excel).

SENSITIVE	Total Number Help	Taxa Help	LESS SENSITIVE	Total Number Help	Taxa Help	TOLERANT	Total Number Help	Taxa Help
Heptageniidae	20	1	Hydropsychidae	42	1	Coenagrionidae	1	1
Perlodidae	3	1	Gomphidae	4	1	Oligochaeta	4	1
Philopotamidae	7	1	Elmidae	1	1	Select an Item	0	0
Psephenidae	14	1	Tipulidae	1	1	Select an Item	0	0
Corydalidae	13	1	Simuliidae	1	1	Select an Item	0	0
Athericidae	11	1	Coleoptera	2	1	Select an Item	0	0
Capniidae	5	1	Hydrachnidae	2	1	Select an Item	0	0
Select an Item	0	0	Baetidae	3	1	Select an Item	0	0
Select an Item	0	0	Select an Item	0	0	Select an Item	0	0
Select an Item	0	0	Select an Item	0	0	Select an Item	0	0
Select an Item	0	0	Select an Item	0	0	Select an Item	0	0
Select an Item	0	0	Select an Item	0	0	Select an Item	0	0
Select an Item	0	0	Select an Item	0	0	Select an Item	0	0
Select an Item	0	0	Select an Item	0	0	Select an Item	0	0
Select an Item	0	0	Select an Item	0	0	Select an Item	0	0
Select an Item	0	0	Select an Item	0	0	Select an Item	0	0
Select an Item	0	0	Select an Item	0	0	Select an Item	0	0
Select an Item	0	0	Select an Item	0	0	Select an Item	0	0
Select an Item	0	0	Select an Item	0	0	Select an Item	0	0
Select an Item	0	0	Select an Item	0	0	Select an Item	0	0

Update Survey

Summary Data Sheet

Location | Water Quality | Physical Conditions | Habitat Conditions | Biological Conditions
Flow and Weather/Land Use Conditions | Macroinvertebrates | Overall Assessment | Photos | Map

SENSITIVE	Total Number	Taxa	LESS SENSITIVE	Total Number	Taxa	TOLERANT	Total Number	Taxa
Heptageniidae	20	1	Hydropsychidae	42	1	Coenagrionidae	1	1
Perlodidae	3	1	Gomphidae	4	1	Oligochaeta	4	1
Philopotamidae	7	1	Elmidae	1	1		0	0
Psephenidae	14	1	Tipulidae	1	1		0	0
Corydalidae	13	1	Simuliidae	1	1		0	0
Athericidae	11	1	Coleoptera	2	1		0	0
Capniidae	5	1	Hydrachnidae	2	1		0	0
	0	0	Baetidae	3	1		0	0
	0	0		0	0		0	0
	0	0		0	0		0	0
	0	0		0	0		0	0
	0	0		0	0		0	0
	0	0		0	0		0	0
	0	0		0	0		0	0
	0	0		0	0		0	0
	0	0		0	0		0	0
	0	0		0	0		0	0
	0	0		0	0		0	0
	0	0		0	0		0	0
	0	0		0	0		0	0
TOTALS								
Sensitive:	73	7	**Less Sensitive:**	56	8	**Tolerant:**	5	2
Total Collected:	134							

Summary Data Sheet

No photos have been uploaded for this survey.

Browse...

Upload Photo

NOTE: All files must be in .JPG format.