

WV SAVE OUR STREAMS ADVANCED SURVEY SUMMARY

Stream Monitor(s) Yellow Run Level 3 Date(s) 14 May 2015
Lehman, Dean and Jones
 Direction(s) Intersection Rt 9 and 522 Start time 8:00 AM
 County Morgan
 RR Miles _____ Station Sheetz
 Latitude

39	37	26
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 Longitude

78	13	50
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 Watershed Database code Warm Springs Run

WATER CHEMISTRY

	Result	Units		Result	Units		Result	Units
Temp. (°F or °C)	14		Alkalinity			Fecal coliform/E-coli		
pH	8		Nitrate/Nitrite	1	ppm	Iron	0	
Conductivity			Phosphates			Aluminum		
Dissolved O ₂			Total Dissolved Solids			Manganese		
Acidity			Turbidity			Other (describe below)		

Describe other conditions analyzed: _____

PHYSICAL CONDITIONS

Water clarity Clear Algae color _____
 Water color None Algae abundance None
 Water/Sediment odor Musky musky Algae texture _____
 Streambed color Brown Surface foam none
 Comments _____

Riffle width _____ Run width _____ Pool width _____
 Riffle depth _____ Run depth _____ Pool depth _____
 Feet Meter
 Indicate units

Estimate

x

 Count

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 Silt/clay Sand Fine gravel Coarse gravel Cobble Entire reach

x

 Riffles only

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 Boulder Bedrock Woody debris

Index	3.30	29	50	30	% Riffles	% Runs	% Pools
	good	Woody debris adjustment					

HABITAT CONDITIONS

Attachment sites	18	Channel flow status	14	Embeddedness	14	
Riffle frequency	20	Channel alterations	20	Bank veg. protection	9	5
Velocity/depth	17	Sediment deposition	9	Bank stability	9	9
Total Score	147	Channel shade	>80	Riparian buffer	2	1

Integrity Rating

suboptimal

 width

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Comments _____

BIOLOGICAL CONDITIONS

Richness	Composition	Tolerance			
Total Taxa <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;">12</td></tr></table>	12	% EPT Abundance <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;">26.5</td></tr></table>	26.5	Biotic Index <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;">5.84</td></tr></table>	5.84
12					
26.5					
5.84					
EPT Taxa <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;">6</td></tr></table>	6	% Dominance <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;">38.8</td></tr></table>	38.8	% Tolerant <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;">38.8</td></tr></table>	38.8
6					
38.8					
38.8					
Other aquatic organisms observed or collected (e.g. fish, salamanders etc.), or additional comments: _____		Stream Score <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;">54.8</td></tr></table>	54.8		
54.8					
		Integrity Rating <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="text-align: center;">Marginal</td></tr></table>	Marginal		
Marginal					

Discharge (cfs) _____

	Water level	Low	Normal	High	No flow
			yes		

Current/past weather conditions: Sunny 60 degrees No rain last 48 hours. 60 to 80 degrees temp.2

LAND USE IMPACTS: Indicate the types of land uses that affect your stream reach and their approximate location using the code: **(S)** streamside, **(M)** within ¼ mile, and **(W)** within the watershed. Also estimate the level of impact with the numeric codes **(1)** slight, **(2)** moderate, or **(3)** for high impacts.

	Impact	Location		Impact	Location
Single family residences	2	s	Trash dumps		
Sub-urban developments	2	s	Intensive feedlots		
Urban areas			Pastureland		
Industrial areas			Cropland		
Parking lots, malls etc.	3	s	Oil & gas wells		
Bridges	3	s	Logging		
Paved roads	3	s	Mountaintop mining		
Unpaved roads			Abandoned mining		
Active construction			Deep mining		
Parks, trails etc			Quarries		
Other recreation			Other (describe)		
Landfills					

Comments: _____

Pipes?

yes

 Yes

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 No

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BENTHIC MACROINVERTEBRATES: Record the total number of each macroinvertebrate collected. Note: In the VAD the macroinvertebrates are recorded in three columns based upon their tolerance rating.

Low	Total	Moderate	Total	High	Total
Ameletidae (Ameletid minnow mayfly)		Baetidae (Small minnow mayfly)		Coenagrionidae (Narrow-wing damselfly)	
Ephemerelellidae (Spiny-crawler mayfly)	1	Beatiscidae (Armored mayfly)		Lestidae (Spread-wing damselfly)	
Heptageniidae (Flatheaded mayfly)	2	Caenidae (Square-gilled mayfly)		Libellulidae (Skimmer dragonfly)	
Isonychiidae (Brush-legged mayfly)	1	Ephemeridae (Burrowing mayfly)		Chrysomelidae (Reed beetle)	
Leptophlebiidae (Prong-gilled mayfly)	1	Potamanthidae (Hackle-gilled mayfly)		Dytiscidae (Predacious diving beetle)	
Siphonuridae (Primitive minnow mayfly)		Tricorythidae (Stout-crawler mayfly)		Haliplidae (Crawling water beetle)	
Capniidae (Small winter stonefly)		Hydropsychidae (Common netspinner)		Hydrophilidae (Water scavenger beetle)	
Chloroperlidae (Green stonefly)		Hydroptilidae (Purse-case caddisfly)		Belostomatidae (Giant water bug)	
Leuctridae (Rolled-wing stonefly)		Molannidae (Hooded-case caddisfly)		Corixidae (Water boatman)	
Nemouridae (Little brown stonefly)		Phryganeidae (Giant-case caddisfly)		Gerridae/Veliidae (Water striders)	
Perlidae (Common stonefly)	2	Polycentropodidae (Tube-net caddisfly)		Hydrometridae (Water measurer)	
Perlodidae (Patterned stonefly)		Psychomiidae (Trumpet-net caddisfly)		Nepidae (Water scorpion)	

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Peltoperlidae (Roach-like stonefly)		Pyrilidae (Aquatic moth)		Notonectidae (Backswimmer)	
Pteronarcyidae (Giant stonefly)		Calopterygidae (Broad-wing damselfly)		Ceratopogonidae (Biting midge)	
Taeniopterygidae (Large winter stonefly)		Gomphidae (Clubtail dragonfly)		Chironomidae (Non-biting midge)	19
Brachycentridae (Humpless-case caddisfly)		Dryopidae (Long-toed beetle)		Culicidae (Mosquito)	
Glossosomatidae (Saddle-case caddisfly)		Elmidae (Riffle beetle)	6	Muscidae (Muscid fly)	
Goeridae (Goerid-case caddisfly)		Gyrinidae (Whirligig beetle)		Psychodidae (Moth fly)	
Helicopsychidae (Snail-case caddisfly)		Sialidae (Alderfly)		Ptychopteridae (Phantom cranefly)	
Lepidostomatidae (Case-maker caddisfly)		Entomobryidae (Springtail)		Stratiomyidae (Soldier fly)	
Leptoceridae (Longhorn-case caddisfly)		Dixidae (Dixid midge)		Syrphidae (Rat-tailed maggot)	
Limnephilidae (Northern-case caddisfly)		Empididae (Dance fly)		Tabanidae (Horse fly)	
Philopotamidae (Finger-net caddisfly)	6	Simuliidae (Black fly)	2	Asellidae (Aquatic sowbug)	
Rhyacophilidae (Free-living caddisfly)		Tipulidae (Crane fly)	4	Ancylidae (Limpet snail)	
Uenoidae (Uenoid-case caddisfly)		Hydrachnidae (Water mites)		Physidae (Left-handed snail)	
Aeshnidae (Damner dragonfly)		Cambaridae (Crayfish)		Planorbidae (Orb snail)	
Cordulegastridae (Spiketail dragonfly)		Gammaridae (Sideswimmer)	1	Hirudinea (Leech)	
Psephenidae (Water penny)	4	Palaemonidae (Freshwater shrimp)		Nematoda (Round worm)	
Corydalidae (Hellgrammite/Fishfly)		Bithyniidae (Bithynid snail)		Nematomorpha (Horsehair worm)	
Athericidae (Watersnipe fly)		Pleuroceridae (Rock snail)		Oligochaeta (Aquatic worm)	
Blephariceridae (Net-wing midge)		Viviparidae (Viviparid snail)		Turbellaria (Flatworms)	
Hydrobiidae (Pebble snail)		Corbiculidae (Asian clam)		Tolerance unknown	
Unionidae (Mussel)		Sphaeriidae (Pea clam)		Hydrozoa (Freshwater jellyfish)	
				Neuroptera (Spongilliflies)	
				Spongilla (Freshwater sponge)	