

Table Br-3 Action Item Summary by Subwatershed: Breakneck Creek

HUC 041100020202

12-digit HUC/ Water Body	Sed	Nutrients	GW contam	Flooding	Habitat	Recreation	Contamin. Sites	Category/Practices	Target amount by 2023	Units	Cost	Sed. (tons/ yr)	N (lb/ yr)	P (lb/ yr)
041100020202														
Breakneck Creek								Brownfields						
Breakneck Cr./ Wahoo Ditch, tribs			√				√	Conduct brownfields inventory	1	inventory				
Breakneck Cr./ Wahoo Ditch, tribs			√				√	Determine status of listed sites	11	sites				
Breakneck Cr./ Wahoo Ditch, tribs			√				√	Brownfields plan	1	plan				
								Riparian Restoration						
Breakneck Cr. - Wahoo Ditch/ Brimfield Ditch	√	√						Restore Streambank (Bio-Engineering/ re-contouring/ re-grading)	3,000	Linear Fee	\$25-200/lf	207	300	112
Breakneck Cr./tribs	√	√		√	√			Plant Native plants, trees, or shrubs in Riparian Areas	12	Acres	\$6,000 + labor shrubs	6	93	17
Breakneck Cr. watershed								Remove/treat Invasive Species	50	Acres				
								Stream Restoration						
Breakneck Cr./ Wahoo Ditch/tribs	√	√		√	√			Restore Flood Plain	50	Acre-foot		22	300	41
Breakneck Cr./ Wahoo Ditch/tribs								Restore Channel	5000	Linear Feet	\$100-200/lf			
B Creek/ Collins Pd/ Brimfield D./ Wahoo Ditch				√				Hydrological study in flood-prone area	1	study				
								Feasibility study to remove small low-head dams	1					
								Wetland Restoration						
Breakneck Cr. - Reed/ Hudson Ditch/ Feeder Canal	√	√		√	√			Reconstruct, reconnect, & Restore Wetlands	80	Acres	\$5k-100k/ac.	80	2240	506
								Home Sewage Treatment Systems						

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Breakneck Cr. Wshed		√						Obtain correction of failing HSTS	30	HSTS			933	366
Urban runoff and green infrastructure														
Breakneck Cr. Wshed	√	√		√				Rain gardens	20,000	sq feet	\$500,000		2.00	0.50
Breakneck Cr. Wshed		√		√				Parking lot retrofit - permeable pavement/ biofilt.	10,000	sq feet	\$200,000		2	0.4
Breakneck Cr. Wshed	√	√		√				Storm water inventory	1	inventory				
Breakneck Cr. Wshed	√	√						Storm water retrofits	100	acres treated	\$400-17k/ ac	4.5	70.1	10
Breakneck Cr. Wshed	√	√						Retrofit drainage - No-mow ditch/ grassed swale/ daylighting	2,000	linear feet		0.2	1.6	0.8
Any middle cuyahoga watershed								Neighborhood-scale green infrastructure			\$25-50k design \$20k bumpouts			
Agricultural BMPs														
Breakneck Cr. Wshed	√	√						Survey of practices	1	survey				
Breakneck Cr. Wshed uncontrolled livestock access along Breakneck Cr and tribs	√	√			√			Install Livestock Exclusion Fencing & accompanying watering measures	3,000	Linear Feet	\$11,300 + watering	140	280	140
uncontrolled livestock access along Breakneck Cr and tribs	√	√			√			Install Alternative Water Supplies	1	Supplies				
Breakneck Cr. Ag tribs or ditch	√	√			√			Construct 2-Stage Channel/overwide	1,000	Linear Feet			295	91
Breakneck Cr./ Wahoo Ditch/tribs	√	√						Install Grassed Waterways/ vegetated buffer strips	100	Acres treated		177	466	26
Breakneck Cr. Wshed	√	√						Cover crops	100	acres		101	240	120

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Breakneck Cr. Wshed	√	√						Residue applied to fields	200	acres		202	480	120
uncontrolled livestock access along Breakneck Cr and tribs	√	√			√			Livestock Crossings	1	Crossings				
Breakneck Cr. Wshed	√	√		√	√	√		Conservation Easements Acquire Wetlands/ easements	100	Acres	\$5-25k/ac	prevent 100	prevent 2800	prevent 632
Breakneck Cr. Wshed	√	√	√	√	√	√	√	Education and Outreach Brochures/Fact Sheets	10	Brochure				
								Watershed/tributary Festivals	10	Festivals				
								Websites	1	Website				
								Install Signs	24	Signs	200-500			
								Develop Displays		Displays				
								Tours/canoe floats		Tours				
								Stream Clean-Ups	3	Clean-				
								New lake/stream stewardship groups	1	new group				
								Workshops/Training	5	Workshop				
								Develop Manual(s)	1	Manuals				
Breakneck Cr wshed				√				Rain barrel workshops	250	barrels				
								Develop Newsletters	10	Newslette				
Breakneck Cr wshed	√	√		√	√			Local Policy Riparian setback	1	code		prevent 22	prevent 320	prevent 57
Breakneck Cr wshed	√	√		√	√			Green code audit/update	2	audits/ updates				
BC wshed - Lake Hodgson/feeder Canal		√						Monitoring Chemical Sampling	4	Sites				

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Breakneck Cr., tribs								Macroinv./ Fish/ Habitat Sampling		Sites				
Breakneck Cr., tribs								Fish (IBI) Sampling	3	Sites				
Breakneck Cr., tribs								Habitat (QHEI/HHEI) Sampling	3	Sites				
Breakneck Cr. Wshed								Recreation Construct trail	2	miles				
Breakneck Cr.						√		Construct water trail/access sites	1	site				
Breakneck Cr. Wshed						√		Economic benefit study	1	study				
Breakneck Cr. Wshed						√		Develop quest(s)/ virtual watershed tour	3 quests/ 1 tour					

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