

Appendix A

Woodland Area Analysis Values by Watershed

Watershed Name	% Woodland	% Woodland 250 acres or greater	% Interior Woodland	Total Woodland Area Score
Allegheny River	12.42	0.00	0.10	12.52
Allegheny River	17.64	0.00	4.76	22.40
Allegheny River	29.59	0.00	15.65	45.25
Allegheny River (upper)	10.84	0.00	0.69	11.53
Allegheny River (Upper)	39.63	19.46	13.74	72.83
Becketts Run	49.56	0.00	9.77	59.33
Becks Run	29.54	0.00	11.03	40.57
Big Sewickley Creek	50.84	24.95	30.27	106.05
Boston Hollow	61.64	0.00	40.78	102.42
Bulls Run	52.29	19.66	24.94	96.89
Bunola Run	63.10	0.00	26.19	89.29
Chartiers Creek	32.39	3.11	6.11	41.61
Crawford Run	63.05	0.00	37.53	100.58
Crooked Run	40.05	7.15	9.78	56.98
Days Run	67.39	42.90	62.79	173.08
Deer Creek	49.66	9.42	16.16	75.24
Douglass Run	48.30	6.25	12.51	67.06
Fallen Timber Run	36.76	0.00	4.62	41.39
Flaugherty Run	48.85	15.58	36.02	100.45
Girtys Run	25.54	0.00	1.61	27.15
Guyasuta Run	44.70	0.00	2.56	47.26
Indian Creek	32.87	0.00	4.72	37.60
Jacks Run	28.47	0.00	0.83	29.30
Kelly Run	48.13	0.00	6.78	54.91
Kilbuck Run	54.19	0.00	14.96	69.15
Little Sewickley Creek	56.02	28.43	20.90	105.35
Lobbs Run	48.17	0.00	2.63	50.80
Long Run	42.59	0.00	16.03	58.62
Lowries Run	42.85	17.40	16.50	76.74
McCabe Run	24.79	0.00	1.18	25.98
Monongahela River	12.59	0.00	1.84	14.43
Monongahela River	27.41	0.00	4.98	32.38
Monongahela River	40.73	0.00	13.69	54.42
Monongahela River	38.59	24.16	27.81	90.56
Montour Run	31.12	6.55	11.13	48.80
Moon Run	33.25	0.00	2.64	35.88
Narrows Run	32.29	0.00	8.00	40.30
Nine Mile Run	17.29	6.51	2.35	26.15
Ohio River	18.98	0.00	6.68	25.66
Ohio River	23.91	0.00	3.36	27.27

Watershed Name	% Woodland	% Woodland 250 acres or greater	% Interior Woodland	Total Woodland Area Score
Ohio River	58.08	0.00	20.45	78.52
Perry Mill Run	55.27	26.03	43.10	124.40
Peters Creek	29.16	0.00	2.67	31.83
Pine Creek	39.81	3.12	9.36	52.29
Plum Creek	43.24	0.00	4.89	48.12
Powers Run	27.35	0.00	0.03	27.38
Pucketa Creek	66.90	24.68	23.05	114.62
Quigley Creek	29.46	0.00	0.87	30.33
Riddle Run	45.30	0.00	3.12	48.42
Sandy Creek	35.94	0.00	2.29	38.23
Sawmill Run	14.92	0.00	0.12	15.04
Shades Run	42.50	0.00	3.85	46.35
Shouse Run	52.35	0.00	15.94	68.30
Spruce Run	27.05	0.00	3.94	30.99
Squaw Run	35.07	0.00	1.64	36.71
Streets Run	34.09	6.71	17.09	57.89
Sunfish Run	44.60	0.00	7.45	52.05
Tawney Run	44.50	16.35	9.50	70.35
Thompson Run	28.21	0.00	1.15	29.36
Thorn Run	52.09	40.90	69.88	162.86
Toms Run	71.37	17.49	47.41	136.27
Turtle Creek	31.29	6.20	8.39	45.88
West Run	21.91	0.00	0.57	22.48
Whitaker Run	16.84	0.00	0.01	16.85
Wylie Run	50.83	9.88	35.85	96.56
Youghiogheny River	47.26	0.00	11.45	58.70
Youghiogheny River	38.88	7.72	14.41	61.01

Appendix B
Riparian Analysis Values by Watershed

Watershed Name	% Woodland that Touched the Riparian Buffer of 100 meters	% woodland within the Riparian Buffer of 100 meters
Allegheny River	42.27	14.10
Allegheny River	85.71	28.71
Allegheny River	66.34	21.36
Allegheny River (upper)	38.53	3.13
Allegheny River (Upper)	98.22	43.56
Becketts Run	97.59	56.43
Becks Run	89.06	62.99
Big Sewickley Creek	98.92	55.06
Boston Hollow	94.69	67.27
Bulls Run	94.68	52.82
Bunola Run	94.64	75.02
Chartiers Creek	89.41	39.23
Crawford Run	97.75	57.47
Crooked Run	92.43	44.96
Days Run	95.59	61.59
Deer Creek	95.54	55.69
Douglass Run	97.55	56.57
Fallen Timber Run	89.27	32.80
Flaugherty Run	97.32	64.46
Girtys Run	88.33	31.91
Guyasuta Run	99.82	60.71
Indian Creek	94.02	46.09
Jacks Run	81.74	40.08
Kelly Run	89.05	45.50
Kilbuck Run	92.10	61.39
Little Sewickley Creek	96.88	67.00
Lobbs Run	88.43	51.86
Long Run	91.32	58.88
Lowries Run	94.07	54.38
McCabe Run	83.20	45.80
Monongahela River	87.87	24.82
Monongahela River	82.51	31.86
Monongahela River	83.42	26.81
Monongahela River	38.34	9.56
Montour Run	90.56	41.82
Moon Run	95.84	42.25
Narrows Run	88.94	43.81
Nine Mile Run	64.15	53.49
Ohio River	73.60	10.70
Ohio River	73.60	10.70

Watershed Name	% Woodland that Touched the Riparian Buffer of 100 meters	% woodland within the Riparian Buffer of 100 meters
Ohio River	94.64	23.10
Perry Mill Run	93.16	62.51
Peters Creek	82.43	39.14
Pine Creek	92.29	50.03
Plum Creek	91.47	50.87
Powers Run	83.57	36.11
Pucketa Creek	92.51	61.43
Quigley Creek	91.27	45.30
Riddle Run	95.17	60.90
Sandy Creek	87.26	51.88
Sawmill Run	50.15	25.27
Shades Run	89.18	93.84
Shouse Run	96.56	82.38
Spruce Run	94.76	39.73
Squaw Run	95.88	49.88
Streets Run	93.61	48.45
Sunfish Run	92.29	47.89
Tawney Run	90.86	51.21
Thompson Run	59.82	29.34
Thorn Run	98.85	69.93
Toms Run	95.07	81.14
Turtle Creek	84.50	41.17
West Run	11.27	12.17
Whitaker Run	62.83	30.37
Wylie Run	95.41	52.08
Youghiogheny River	94.63	61.01
Youghiogheny River	94.86	43.18

Appendix C
Landscape Metric Values by Watershed

Watershed Name	Mean Shape Index	Mean Nearest Neighbor (in meters)
Allegheny River	1.61	61.50
Allegheny River	1.78	88.56
Allegheny River	1.98	106.18
Allegheny River (Upper)	1.93	79.63
Allegheny River (upper)	1.71	103.76
Allegheny Total average	1.80	87.93
Becketts Run	1.83	83.97
Beckets Run	2.05	117.07
Becks Run	2.10	93.11
Big Sewickley Creek	1.89	91.51
Boston Hollow	1.74	50.01
Bulls Run	1.76	69.78
Bunola Run	2.10	85.69
Chartiers Creek	2.02	90.85
Crawford Run	1.81	58.48
Crooked Run	1.69	70.15
Days Run	1.61	69.01
Deer Creek	1.89	70.04
Douglass Run	1.78	87.02
Fallen Timber Run	1.85	92.75
Flaugherty Run	1.88	81.52
Girtys Run	2.03	99.85
Guyasuta Run	1.78	113.85
Indian Creek	1.84	49.19
Jacks Run	1.98	101.50
Kelly Run	1.81	56.23
Kilbuck Run	1.85	77.57
Little Sewickley Creek	1.88	68.79
Lobbs Run	1.91	56.65
Long Run	1.77	74.80
Lowries Run	1.86	101.87
McCabe Run	1.68	65.34
Mon Total	1.90	81.17
Monongahela River	1.79	74.97
Monongahela River	1.92	78.79
Monongahela River	1.99	82.26
Monongahela River	1.89	88.66
Montour Run	1.92	90.27
Moon Run	1.98	107.38
Narrows Run	1.86	96.11

Watershed Name	Mean Shape Index	Mean Nearest Neighbor (in meters)
Nine Mile Run	1.94	113.95
Ohio River	1.93	97.15
Ohio River	1.93	97.15
Ohio River	1.70	97.85
Ohio total	1.85	97.38
Perry Mill Run	1.84	66.83
Peters Creek	1.85	92.04
Pine Creek	1.97	82.85
Plum Creek	1.79	62.01
Powers Run	1.77	69.42
Pucketa Creek	1.79	68.32
Quigley Creek	1.77	53.86
Riddle Run	1.63	75.89
Sandy Creek	2.18	95.89
Sawmill Run	2.07	113.41
Shades Run	1.98	76.70
Shouse Run	1.69	135.60
Spruce Run	1.89	99.80
Squaw Run	2.19	95.81
Streets Run	2.10	115.53
Sunfish Run	1.85	65.68
Tawney Run	1.66	67.93
Thompson Run	1.90	68.99
Thorn Run	2.04	131.89
Toms Run	1.85	54.60
Turtle Creek	1.86	76.12
West Run	2.23	125.52
Whitaker Run	2.01	65.10
Wylie Run	1.91	45.40
Yough Total	1.72	57.37
Youghioghenny River	1.61	45.96
Youghioghenny River	1.83	68.78

Appendix D

Woodland Area Analysis Values by Watershed

Watershed Name	Woodland Area Value	Riparian Analysis Value	Landscape Metrics	Total Woodland Watershed Value
Allegheny River	22.48	23.44	9.04	54.96
Allegheny River	11.53	41.66	23.94	77.13
Allegheny River	14.43	47.90	26.80	89.13
Allegheny River (upper)	12.52	56.36	23.69	92.57
Allegheny River (Upper)	15.04	75.42	10.01	100.47
Becketts Run	16.85	93.19	17.43	127.48
Becks Run	25.66	84.31	24.68	134.64
Big Sewickley Creek	22.40	87.70	25.82	135.92
Boston Hollow	29.36	89.15	29.45	147.96
Bulls Run	27.15	120.24	11.37	158.76
Bunola Run	26.15	117.64	22.96	166.75
Chartiers Creek	27.27	117.74	24.60	169.62
Crawford Run	32.38	114.38	28.14	174.90
Crooked Run	29.30	121.82	24.18	175.30
Days Run	27.38	119.67	29.35	176.41
Deer Creek	31.83	121.56	25.33	178.73
Douglass Run	41.61	128.63	12.49	182.73
Fallen Timber Run	25.98	129.00	30.37	185.35
Flaugherty Run	78.52	84.31	24.68	187.51
Girtys Run	41.39	122.06	25.24	188.69
Guyasuta Run	38.23	139.14	11.84	189.21
Indian Creek	30.99	134.49	24.37	189.85
Jacks Run	45.25	114.42	31.46	191.13
Kelly Run	36.71	145.77	11.85	194.32
Kilbuck Run	54.42	112.70	27.41	194.52
Little Sewickley Creek	35.88	138.09	23.57	197.54
Lobbs Run	40.30	132.75	24.81	197.86
Long Run	45.88	125.67	27.91	199.46
Lowries Run	30.33	136.57	34.07	200.97
McCabe Run	40.57	152.06	12.19	204.82
Monongahela River	48.80	132.38	25.57	206.75
Monongahela River	57.89	142.06	9.82	209.78
Monongahela River	37.60	140.11	36.07	213.78
Monongahela River	52.29	142.32	26.70	221.31
Montour Run	48.12	142.34	31.30	221.76
Moon Run	52.05	140.17	30.28	222.51
Narrows Run	54.91	134.55	33.18	222.65
Nine Mile Run	59.33	154.02	9.70	223.04
Ohio River	56.98	137.40	29.18	223.56
Ohio River	50.80	140.29	33.04	224.13

Watershed Name	Woodland Area Value	Riparian Analysis Value	Landscape Metrics	Total Woodland Watershed Value
Ohio River	90.56	110.23	25.80	226.59
Perry Mill Run	61.01	138.05	29.50	228.56
Peters Creek	47.26	160.53	22.97	230.76
Pine Creek	48.42	156.07	27.96	232.45
Plum Creek	58.62	150.20	28.17	236.99
Powers Run	72.83	141.77	27.25	241.86
Pucketa Creek	70.35	142.07	29.71	242.12
Quigley Creek	67.06	154.12	26.04	247.21
Riddle Run	76.74	148.46	24.14	249.34
Sandy Creek	69.15	153.49	27.63	250.27
Sawmill Run	58.70	155.63	37.70	252.03
Shades Run	75.24	151.23	29.21	255.68
Shouse Run	46.35	183.02	27.80	257.17
Spruce Run	68.30	178.94	21.37	268.61
Squaw Run	89.29	169.66	13.25	272.19
Streets Run	96.89	147.50	29.27	273.66
Sunfish Run	96.56	147.49	38.00	282.05
Tawney Run	106.05	153.97	25.40	285.42
Thompson Run	100.58	155.23	32.41	288.21
Thorn Run	100.45	161.77	26.92	289.15
Toms Run	114.62	153.94	29.61	298.18
Turtle Creek	105.35	163.88	29.50	298.73
West Run	102.42	161.97	35.70	300.08
Whitaker Run	124.40	155.66	29.98	310.04
Wylie Run	162.86	168.78	8.61	340.25
Youghiogheny River	136.27	176.21	33.79	346.27
Youghiogheny River	173.08	157.18	29.45	359.71

Appendix E

Regulatory Strategies for Riverside Preservation and Conservation

REGULATORY OPTIONS			
Land Use Controls			
Federal	State	Home Rule County	Local
		Subdivision	Subdivision
		Zoning <ul style="list-style-type: none"> • Use Limitations • Density Limitations • Open Space Requirements • Land Clearance Restrictions • Transferable Development Rights 	Zoning <ul style="list-style-type: none"> • Use Limitations • Density Limitations • Open Space Requirements • Land Clearance Restrictions • Transferable Development Rights
		Other Police Power	Other Police Power <ul style="list-style-type: none"> • Tree Removal on Steep Slopes • Other Hazardous Lands Protection Ordinances
Flood Plains (National Flood Insurance Act)	Flood Plain Management Act	Flood Plain Zoning - MPC	Flood Plain Zoning - MPC
		Flood Plain Management Act, Flood Plain Regulations (not MPC)	Flood Plain Management Act, Flood Plain Regulations (not MPC)
	Storm Water Management Act	Storm Water Management Act	Storm Water Management Act

REGULATORY OPTIONS			
Other Regulatory Mechanisms			
Federal	State	County	Local
Endangered Species Act [USFWS]	Endangered Species		
National Historic Preservation Act [DOI]	History Code [Pa Museum Commission]	Historic Preservation Ordinance	Historic Preservation Ordinance
	Storm Water Management Act – Erosion and Sedimentation Controls [PaDEP]	Storm Water Management Act – Erosion and Sedimentation Controls	Storm Water Management Act – Erosion and Sedimentation Controls
Water Pollution (CWA) [EPA]	Water Pollution (Clean Streams Law) [PaDEP]		
Wetlands Protection (CWA §404) [EPA USACOE]	Wetlands Protection Dam Safety & Encroachments Act [PaDEP]		

Appendix F
Ownership Strategies for Riverside Preservation and Conservation

OWNERSHIP OPTIONS	
Public Ownership	Private Ownership
Fee Ownership	
Parks <ul style="list-style-type: none"> • Local • County • State 	Fee Ownership by Conservation Organization <ul style="list-style-type: none"> • For Preservation or Conservation Purpose with No Public Use • For Preservation or Conservation Purpose with Public Use • Limited Public Uses • Unlimited Public Uses
Forests <ul style="list-style-type: none"> • Local • County • State 	
Preserves <ul style="list-style-type: none"> • Natural Areas • Other 	
Open Space Reserve <ul style="list-style-type: none"> • County Environmental Covenants – 16 P.S. § 11941 to 11947 	
Natural Areas	
Boat and Fishing Access	
Tax Delinquent Properties Acquired by Municipality or School District	
Unrestricted Public Lands	
Less Than Fee Ownership	
Conservation Easements <ul style="list-style-type: none"> • Held by Governmental Agency on Private Lands • Held by Private Agency on Public Lands • County Open Space Covenants – 16 P.S. § 11941 to 11947 	Conservation Easement <ul style="list-style-type: none"> • On Privately Owned Lands • On Government Owned Lands
	Restricted Development (Real Covenants)
Acquisition Options	
Purchase	Purchase
	“Bargain Purchase”
Dedication by Private Owner (Donation)	Donation
Land Exchange	Land Exchange
Eminent Domain	