



Field	Description	Weight
FID	Unique ID assigned to each conservation opportunity area	
Shape	Type of GIS feature	
Gap_Area	Area of each conservation opportunity area (in acres)	
Drng_Area	Area of drainage basin for each conservation opportunity area (in acres)	
Area_Ag	Area of agriculture within each drainage basin (in acres)	
Area_Turf	Area of turf grass within each drainage basin (in acres)	
Area_Imp	Area of impervious surface within each drainage basin (in acres)	
Perc_Ag	Percentage of cropland and pasture within each drainage basin	
Perc_Turf	Percentage of turf grass within each drainage basin	
Perc_Imp	Percentage of impervious surface within each drainage basin	
Ratio	Ratio of total land use within each drainage basin to conservation opportunity area area	
Rank_Ratio	Percentile rank of ratio of total agriculture, turf grass, and impervious surfaces within each drainage basin to conservation opportunity area area	3
Meander	Amount of sinuosity in each stream reach adjacent to conservation opportunity area	
Rank_Meand	Percentile rank of stream reach sinuosity values	2
Trt_Water	Indicates conservation opportunity area adjacency to stream reach that is a classified trout water	
Rank_Trtr	Rank indicating conservation opportunity area adjacency to stream reach that is a classified trout water	3
Impaired	Indicates conservation opportunity area adjacency to stream reach that is impaired, as derived from the TMDL and Integrated List Non Attaining	
Rank_Imprd	Rank indicating conservation opportunity area adjacency to stream reach that is non-metal impaired, as derived from the TMDL and Integrated List Non Attaining	2
EV_HQ	Indicates conservation opportunity area adjacency to stream reach that is classified "Exceptional Value" or "High Quality"	
Rank_EVHQ	Rank indicating conservation opportunity area adjacency to stream reach that is classified "Exceptional Value" or "High Quality"	3
Connect	Majority habitat connectivity value that falls within each conservation opportunity area	
Rank_Conn	Rank of majority habitat connectivity value that falls within each conservation opportunity area	3
Brk_Trtr	Within Brook Trout highly suitable habitat	
Rank_Brk	Rank of conservation opportunity area adjacency to Brook Trout highly suitable habitat	3
Ameri_Wood	Within American Woodcock species capable landscape	
Ceru_Warb	Within Cerulean Warbler species capable landscape	
Loui_Wtrth	Within Louisiana Waterthrush species capable landscape	
BT_BWarb	Within Black-throated Blue Warbler species distribution range	
Hellbender	Within Eastern Hellbender species habitat	
GW_Warb	Within Golden-winged Warbler species habitat	

Rank_Hab	Rank of conservation opportunity area adjacency to total species distributions	1
K_factor	Majority of erodibility value within each conservation opportunity area	
Rank_Kfact	Rank of erodibility value within each conservation opportunity area	3
No_Karst	Further than 50 feet from a karst feature	
Rank_Karst	Rank of conservation opportunity areas further than 50 feet from a karst feature	3
Area_Low	Area of low slope within each conservation opportunity area	
Area_Med	Area of medium slope within each conservation opportunity area	
Area_High	Area of high slope within each conservation opportunity area	
Perc_Low	Percentage of low slope within each conservation opportunity area	
Rank_Low	Percentile rank of percentage low slope within each conservation opportunity area	1
Perc_Med	Percentage of medium slope within each conservation opportunity area	
Perc_High	Percentage of high slope within each conservation opportunity area	
Total_Rank	The added total of all weighted values	
Final_Rank	The final prioritized list of conservation opportunity area restoration sites	

GIS Feature	Layer Name	Source	Download Site
Conservation opportunity areas	High Resolution Land Cover	Chesapeake Conservancy	<i>Contact Chesapeake Conservancy</i>
	Riparian Forest Conservation opportunity areas		
Drainage Area	Drainage Area		
Slope	Conservation opportunity area Slope		
Streams	High Resolution Stream Network		
	High Resolution Stream Centerlines		
Sinuosity	Meander of Stream Segment		
Erodibility	USA Soils Erodibility Factor	USDA	https://chescon.maps.arcgis.com/home/item.html?id=93be1788338d492e8d9079abb65d5722
	Karst	PA DCNR	http://www.pasda.psu.edu/uci/DataSummary.aspx?dataset=3073
Impaired streams	Total Maximum Daily Load	PA DEP	http://www.pasda.psu.edu/uci/DataSummary.aspx?dataset=1130
	Integrated List Non Attaining	PA DEP	http://www.pasda.psu.edu/uci/DataSummary.aspx?dataset=888
Trout streams	Class A Wild Trout Streams	PA Fish and Boat Commission	http://www.pasda.psu.edu/uci/DataSummary.aspx?dataset=986

	Wilderness Trout Streams	PA Fish and Boat Commission	http://www.pasda.psu.edu/uci/DataSummary.aspx?dataset=983
	Trout Natural Reproduction Streams	PA Fish and Boat Commission	http://www.pasda.psu.edu/uci/DataSummary.aspx?dataset=980
EV/HQ streams	Streams Chapter 93 Designated Use	PA DEP	http://www.pasda.psu.edu/uci/DataSummary.aspx?dataset=1098
Parcels	Centre County Parcels	Centre County GIS Dept.	<i>Contact Chesapeake Conservancy</i>
	Clinton County Parcels	Clinton County	
Agricultural land use	Cropland, Pasture	USGS	https://chesapeake.usgs.gov/phase6/map/#map=7/-8582732.74/4851421.17/0.0/0,4
	Turf Grass	USGS	https://chesapeake.usgs.gov/phase6/map/#map=7/-8582732.74/4851421.17/0.0/0,4
	Impervious Surfaces	USGS	https://chesapeake.usgs.gov/phase6/map/#map=7/-8582732.74/4851421.17/0.0/0,4
Habitat Connectivity	Local Connectedness	NALCC	https://nalcc.databasin.org/maps/new#datasets=b88549d5fa614b2faa111099d2e6fb37
Species Distribution	Landscape Capability for American Woodcock	NALCC	https://databasin.org/datasets/6069fa92767a45e985748bc4b6e6ad43
	Landscape Capability for Cerulean Warbler	NALCC	https://databasin.org/datasets/68ab243420874ef193951563e4676743
	Landscape Capability for Louisiana Waterthrush	NALCC	https://databasin.org/datasets/88e0ccb04f0e48b4b836f75478c4a2d5
	Species Distribution for Black-throated Blue Warbler	USGS	https://gapanalysis.usgs.gov/species/data/download
	Suitable Habitat for Golden-winged Warbler	Appalachian LCC	https://nalcc.databasin.org/datasets/04275ea2e72948df8623f8287c9959bb
	Suitable Habitat for Eastern Hellbender	Appalachian LCC	https://nalcc.databasin.org/datasets/74d931dc49ba4f12b3f89b9d2f5b4e74
	Brook Trout	Highly Suitable Habitat for Brook Trout	Appalachian LCC