

## **ATTACHMENT C –SOILS AND FARMLAND**

## **C.1 – FARMLAND CONVERSION FORMS**

**FARMLAND CONVERSION IMPACT RATING  
FOR CORRIDOR TYPE PROJECTS**

<b>PART I (To be completed by Federal Agency)</b>	3. Date of Land Evaluation Request	4. Sheet 1 of _____
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1. Name of Project	5. Federal Agency Involved
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2. Type of Project	6. County and State
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<b>PART II (To be completed by NRCS)</b>	1. Date Request Received by NRCS	2. Person Completing Form
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3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES <input type="checkbox"/> NO <input type="checkbox"/>	4. Acres Irrigated   Average Farm Size
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5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: _____ % _____	7. Amount of Farmland As Defined in FPPA Acres: _____ % _____
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8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS
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<b>PART III (To be completed by Federal Agency)</b>	<b>Alternative Corridor For Segment</b>			
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	<b>Corridor 1</b>	<b>Corridor 2</b>	<b>Corridor 3</b>	<b>Corridor 4</b>
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A. Total Acres To Be Converted Directly				
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B. Total Acres To Be Converted Indirectly, Or To Receive Services				
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C. Total Acres In Corridor				
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<b>PART IV (To be completed by NRCS) Land Evaluation Information</b>				
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A. Total Acres Prime And Unique Farmland				
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B. Total Acres Statewide And Local Important Farmland				
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C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted				
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D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value				
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<b>PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)</b>				
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<b>PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))</b>	<b>Maximum Points</b>			
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1. Area in Nonurban Use	15			
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2. Perimeter in Nonurban Use	10			
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3. Percent Of Corridor Being Farmed	20			
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4. Protection Provided By State And Local Government	20			
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5. Size of Present Farm Unit Compared To Average	10			
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6. Creation Of Nonfarmable Farmland	25			
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7. Availability Of Farm Support Services	5			
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8. On-Farm Investments	20			
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9. Effects Of Conversion On Farm Support Services	25			
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10. Compatibility With Existing Agricultural Use	10			
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TOTAL CORRIDOR ASSESSMENT POINTS	160			
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<b>PART VII (To be completed by Federal Agency)</b>				
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Relative Value Of Farmland (From Part V)	100			
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Total Corridor Assessment (From Part VI above or a local site assessment)	160			
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<b>TOTAL POINTS (Total of above 2 lines)</b>	<b>260</b>			
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1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used?  YES <input type="checkbox"/> NO <input type="checkbox"/>
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5. Reason For Selection:
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Signature of Person Completing this Part:	DATE
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**NOTE: Complete a form for each segment with more than one Alternate Corridor**

**FARMLAND CONVERSION IMPACT RATING  
FOR CORRIDOR TYPE PROJECTS**

<b>PART I (To be completed by Federal Agency)</b>	3. Date of Land Evaluation Request	4. Sheet 1 of _____
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1. Name of Project	5. Federal Agency Involved
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2. Type of Project	6. County and State
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<b>PART II (To be completed by NRCS)</b>	1. Date Request Received by NRCS	2. Person Completing Form
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3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES <input type="checkbox"/> NO <input type="checkbox"/>	4. Acres Irrigated   Average Farm Size
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5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: _____ %	7. Amount of Farmland As Defined in FPPA Acres: _____ %
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8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS
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<b>PART III (To be completed by Federal Agency)</b>	<b>Alternative Corridor For Segment</b>			
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	<b>Corridor 1</b>	<b>Corridor 2</b>	<b>Corridor 3</b>	<b>Corridor 4</b>
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A. Total Acres To Be Converted Directly				
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B. Total Acres To Be Converted Indirectly, Or To Receive Services				
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C. Total Acres In Corridor				
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<b>PART IV (To be completed by NRCS) Land Evaluation Information</b>				
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A. Total Acres Prime And Unique Farmland				
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B. Total Acres Statewide And Local Important Farmland				
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C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted				
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D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value				
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<b>PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)</b>				
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<b>PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))</b>	<b>Maximum Points</b>			
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1. Area in Nonurban Use	15			
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2. Perimeter in Nonurban Use	10			
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3. Percent Of Corridor Being Farmed	20			
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4. Protection Provided By State And Local Government	20			
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5. Size of Present Farm Unit Compared To Average	10			
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6. Creation Of Nonfarmable Farmland	25			
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7. Availability Of Farm Support Services	5			
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8. On-Farm Investments	20			
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9. Effects Of Conversion On Farm Support Services	25			
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10. Compatibility With Existing Agricultural Use	10			
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TOTAL CORRIDOR ASSESSMENT POINTS	160			
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<b>PART VII (To be completed by Federal Agency)</b>				
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Relative Value Of Farmland (From Part V)	100			
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Total Corridor Assessment (From Part VI above or a local site assessment)	160			
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<b>TOTAL POINTS (Total of above 2 lines)</b>	<b>260</b>			
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1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used?  YES <input type="checkbox"/> NO <input type="checkbox"/>
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5. Reason For Selection:
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Signature of Person Completing this Part:	DATE
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**NOTE: Complete a form for each segment with more than one Alternate Corridor**

**FARMLAND CONVERSION IMPACT RATING  
FOR CORRIDOR TYPE PROJECTS**

<b>PART I (To be completed by Federal Agency)</b>	3. Date of Land Evaluation Request	4. Sheet 2 of _____
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1. Name of Project	5. Federal Agency Involved
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2. Type of Project	6. County and State
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<b>PART II (To be completed by NRCS)</b>	1. Date Request Received by NRCS	2. Person Completing Form
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3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES <input type="checkbox"/> NO <input type="checkbox"/>	4. Acres Irrigated   Average Farm Size
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5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: _____ % _____	7. Amount of Farmland As Defined in FPPA Acres: _____ % _____
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8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS
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<b>PART III (To be completed by Federal Agency)</b>	<b>Alternative Corridor For Segment _____</b>		
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	<b>Corridor 5</b>	<b>Corridor 6</b>		
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A. Total Acres To Be Converted Directly				
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B. Total Acres To Be Converted Indirectly, Or To Receive Services				
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C. Total Acres In Corridor				
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<b>PART IV (To be completed by NRCS) Land Evaluation Information</b>				
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A. Total Acres Prime And Unique Farmland				
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B. Total Acres Statewide And Local Important Farmland				
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C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted				
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D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value				
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<b>PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)</b>				
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<b>PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))</b>	<b>Maximum Points</b>			
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1. Area in Nonurban Use	15			
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2. Perimeter in Nonurban Use	10			
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3. Percent Of Corridor Being Farmed	20			
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4. Protection Provided By State And Local Government	20			
--	----	--	--	--

5. Size of Present Farm Unit Compared To Average	10			
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6. Creation Of Nonfarmable Farmland	25			
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7. Availability Of Farm Support Services	5			
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8. On-Farm Investments	20			
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9. Effects Of Conversion On Farm Support Services	25			
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10. Compatibility With Existing Agricultural Use	10			
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TOTAL CORRIDOR ASSESSMENT POINTS	160			
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<b>PART VII (To be completed by Federal Agency)</b>				
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Relative Value Of Farmland (From Part V)	100			
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Total Corridor Assessment (From Part VI above or a local site assessment)	160			
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<b>TOTAL POINTS (Total of above 2 lines)</b>	<b>260</b>			
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1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used?  YES <input type="checkbox"/> NO <input type="checkbox"/>
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5. Reason For Selection:
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Signature of Person Completing this Part:	DATE
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**NOTE: Complete a form for each segment with more than one Alternate Corridor**

**FARMLAND CONVERSION IMPACT RATING  
FOR CORRIDOR TYPE PROJECTS**

<b>PART I (To be completed by Federal Agency)</b>	3. Date of Land Evaluation Request	4. Sheet 2 of _____
---	------------------------------------	---------------------

1. Name of Project	5. Federal Agency Involved
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2. Type of Project	6. County and State
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<b>PART II (To be completed by NRCS)</b>	1. Date Request Received by NRCS	2. Person Completing Form
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3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES <input type="checkbox"/> NO <input type="checkbox"/>	4. Acres Irrigated   Average Farm Size
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5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: _____ % _____	7. Amount of Farmland As Defined in FPPA Acres: _____ % _____
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8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS
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<b>PART III (To be completed by Federal Agency)</b>	<b>Alternative Corridor For Segment _____</b>		
	<b>Corridor 5</b>	<b>Corridor 6</b>	

A. Total Acres To Be Converted Directly			
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B. Total Acres To Be Converted Indirectly, Or To Receive Services			
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C. Total Acres In Corridor			
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<b>PART IV (To be completed by NRCS) Land Evaluation Information</b>			
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A. Total Acres Prime And Unique Farmland			
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B. Total Acres Statewide And Local Important Farmland			
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C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted			
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D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value			
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<b>PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)</b>			
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<b>PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))</b>	<b>Maximum Points</b>		
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1. Area in Nonurban Use	15		
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2. Perimeter in Nonurban Use	10		
------------------------------	----	--	--

3. Percent Of Corridor Being Farmed	20		
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4. Protection Provided By State And Local Government	20		
--	----	--	--

5. Size of Present Farm Unit Compared To Average	10		
--	----	--	--

6. Creation Of Nonfarmable Farmland	25		
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7. Availability Of Farm Support Services	5		
--	---	--	--

8. On-Farm Investments	20		
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9. Effects Of Conversion On Farm Support Services	25		
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10. Compatibility With Existing Agricultural Use	10		
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TOTAL CORRIDOR ASSESSMENT POINTS	160		
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<b>PART VII (To be completed by Federal Agency)</b>			
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Relative Value Of Farmland (From Part V)	100		
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Total Corridor Assessment (From Part VI above or a local site assessment)	160		
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<b>TOTAL POINTS (Total of above 2 lines)</b>	<b>260</b>		
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1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used?  YES <input type="checkbox"/> NO <input type="checkbox"/>
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5. Reason For Selection:
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Signature of Person Completing this Part:	DATE
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**NOTE: Complete a form for each segment with more than one Alternate Corridor**

**FARMLAND CONVERSION IMPACT RATING  
FOR CORRIDOR TYPE PROJECTS**

<b>PART I (To be completed by Federal Agency)</b>	3. Date of Land Evaluation Request	4. Sheet 3 of _____
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1. Name of Project	5. Federal Agency Involved
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2. Type of Project	6. County and State
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<b>PART II (To be completed by NRCS)</b>	1. Date Request Received by NRCS	2. Person Completing Form
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3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES <input type="checkbox"/> NO <input type="checkbox"/>	4. Acres Irrigated   Average Farm Size
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5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: _____ %	7. Amount of Farmland As Defined in FPPA Acres: _____ %
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8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS
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<b>PART III (To be completed by Federal Agency)</b>	<b>Alternative Corridor For Segment</b>			
	<b>Corridor 1</b>	<b>Corridor 2</b>	<b>Corridor 3</b>	<b>Corridor 4</b>

A. Total Acres To Be Converted Directly				
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B. Total Acres To Be Converted Indirectly, Or To Receive Services				
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C. Total Acres In Corridor				
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<b>PART IV (To be completed by NRCS) Land Evaluation Information</b>				
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A. Total Acres Prime And Unique Farmland				
--	--	--	--	--

B. Total Acres Statewide And Local Important Farmland				
---	--	--	--	--

C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted				
---	--	--	--	--

D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value				
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<b>PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)</b>				
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<b>PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))</b>	<b>Maximum Points</b>			
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1. Area in Nonurban Use	15			
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2. Perimeter in Nonurban Use	10			
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3. Percent Of Corridor Being Farmed	20			
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4. Protection Provided By State And Local Government	20			
--	----	--	--	--

5. Size of Present Farm Unit Compared To Average	10			
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6. Creation Of Nonfarmable Farmland	25			
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7. Availability Of Farm Support Services	5			
--	---	--	--	--

8. On-Farm Investments	20			
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9. Effects Of Conversion On Farm Support Services	25			
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10. Compatibility With Existing Agricultural Use	10			
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TOTAL CORRIDOR ASSESSMENT POINTS	160			
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<b>PART VII (To be completed by Federal Agency)</b>				
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Relative Value Of Farmland (From Part V)	100			
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Total Corridor Assessment (From Part VI above or a local site assessment)	160			
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<b>TOTAL POINTS (Total of above 2 lines)</b>	<b>260</b>			
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1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used?  YES <input type="checkbox"/> NO <input type="checkbox"/>
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5. Reason For Selection:
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Signature of Person Completing this Part:	DATE
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**NOTE: Complete a form for each segment with more than one Alternate Corridor**

**FARMLAND CONVERSION IMPACT RATING  
FOR CORRIDOR TYPE PROJECTS**

<b>PART I (To be completed by Federal Agency)</b>	3. Date of Land Evaluation Request	4. Sheet 3 of _____
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1. Name of Project	5. Federal Agency Involved
2. Type of Project	6. County and State

<b>PART II (To be completed by NRCS)</b>		1. Date Request Received by NRCS	2. Person Completing Form
3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES <input type="checkbox"/> NO <input type="checkbox"/>		4. Acres Irrigated	Average Farm Size
5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: _____ %	7. Amount of Farmland As Defined in FPPA Acres: _____ %	
8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS	

<b>PART III (To be completed by Federal Agency)</b>	<b>Alternative Corridor For Segment</b>			
	Corridor 1	Corridor 2	Corridor 3	Corridor 4
A. Total Acres To Be Converted Directly				
B. Total Acres To Be Converted Indirectly, Or To Receive Services				
C. Total Acres In Corridor				

<b>PART IV (To be completed by NRCS) Land Evaluation Information</b>	Corridor 1	Corridor 2	Corridor 3	Corridor 4
A. Total Acres Prime And Unique Farmland				
B. Total Acres Statewide And Local Important Farmland				
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted				
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value				

**PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)**

<b>PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))</b>	Maximum Points	Corridor 1	Corridor 2	Corridor 3	Corridor 4
1. Area in Nonurban Use	15				
2. Perimeter in Nonurban Use	10				
3. Percent Of Corridor Being Farmed	20				
4. Protection Provided By State And Local Government	20				
5. Size of Present Farm Unit Compared To Average	10				
6. Creation Of Nonfarmable Farmland	25				
7. Availability Of Farm Support Services	5				
8. On-Farm Investments	20				
9. Effects Of Conversion On Farm Support Services	25				
10. Compatibility With Existing Agricultural Use	10				
<b>TOTAL CORRIDOR ASSESSMENT POINTS</b>	<b>160</b>				

<b>PART VII (To be completed by Federal Agency)</b>	Maximum Points	Corridor 1	Corridor 2	Corridor 3	Corridor 4
Relative Value Of Farmland (From Part V)	100				
Total Corridor Assessment (From Part VI above or a local site assessment)	160				
<b>TOTAL POINTS (Total of above 2 lines)</b>	<b>260</b>				

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used?  YES <input type="checkbox"/> NO <input type="checkbox"/>
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5. Reason For Selection:

Signature of Person Completing this Part: \_\_\_\_\_ DATE \_\_\_\_\_

**NOTE: Complete a form for each segment with more than one Alternate Corridor**

**FARMLAND CONVERSION IMPACT RATING  
FOR CORRIDOR TYPE PROJECTS**

<b>PART I (To be completed by Federal Agency)</b>	3. Date of Land Evaluation Request	4. Sheet 4 of _____
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1. Name of Project	5. Federal Agency Involved
2. Type of Project	6. County and State

<b>PART II (To be completed by NRCS)</b>		1. Date Request Received by NRCS	2. Person Completing Form
3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES <input type="checkbox"/> NO <input type="checkbox"/>		4. Acres Irrigated	Average Farm Size
5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: _____ %	7. Amount of Farmland As Defined in FPPA Acres: _____ %	
8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS	

<b>PART III (To be completed by Federal Agency)</b>	<b>Alternative Corridor For Segment _____</b>		
	Corridor 5	Corridor 6	
A. Total Acres To Be Converted Directly			
B. Total Acres To Be Converted Indirectly, Or To Receive Services			
C. Total Acres In Corridor			

<b>PART IV (To be completed by NRCS) Land Evaluation Information</b>			
A. Total Acres Prime And Unique Farmland			
B. Total Acres Statewide And Local Important Farmland			
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted			
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value			

<b>PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)</b>			
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<b>PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))</b>	<b>Maximum Points</b>			
1. Area in Nonurban Use	15			
2. Perimeter in Nonurban Use	10			
3. Percent Of Corridor Being Farmed	20			
4. Protection Provided By State And Local Government	20			
5. Size of Present Farm Unit Compared To Average	10			
6. Creation Of Nonfarmable Farmland	25			
7. Availability Of Farm Support Services	5			
8. On-Farm Investments	20			
9. Effects Of Conversion On Farm Support Services	25			
10. Compatibility With Existing Agricultural Use	10			
<b>TOTAL CORRIDOR ASSESSMENT POINTS</b>	<b>160</b>			

<b>PART VII (To be completed by Federal Agency)</b>				
Relative Value Of Farmland (From Part V)	100			
Total Corridor Assessment (From Part VI above or a local site assessment)	160			
<b>TOTAL POINTS (Total of above 2 lines)</b>	<b>260</b>			

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used?  YES <input type="checkbox"/> NO <input type="checkbox"/>
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5. Reason For Selection:

Signature of Person Completing this Part:	DATE
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**NOTE: Complete a form for each segment with more than one Alternate Corridor**

**FARMLAND CONVERSION IMPACT RATING  
FOR CORRIDOR TYPE PROJECTS**

<b>PART I (To be completed by Federal Agency)</b>	3. Date of Land Evaluation Request	4. Sheet 4 of _____
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1. Name of Project	5. Federal Agency Involved
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2. Type of Project	6. County and State
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<b>PART II (To be completed by NRCS)</b>	1. Date Request Received by NRCS	2. Person Completing Form
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3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES <input type="checkbox"/> NO <input type="checkbox"/>	4. Acres Irrigated   Average Farm Size
---	--

5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: _____ %	7. Amount of Farmland As Defined in FPPA Acres: _____ %
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8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS
--	---	---

<b>PART III (To be completed by Federal Agency)</b>	<b>Alternative Corridor For Segment _____</b>		
	<b>Corridor 5</b>	<b>Corridor 6</b>	

A. Total Acres To Be Converted Directly			
---	--	--	--

B. Total Acres To Be Converted Indirectly, Or To Receive Services			
---	--	--	--

C. Total Acres In Corridor			
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<b>PART IV (To be completed by NRCS) Land Evaluation Information</b>			
--	--	--	--

A. Total Acres Prime And Unique Farmland			
--	--	--	--

B. Total Acres Statewide And Local Important Farmland			
---	--	--	--

C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted			
---	--	--	--

D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value			
--	--	--	--

<b>PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)</b>			
--	--	--	--

<b>PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))</b>	<b>Maximum Points</b>		
--	-----------------------	--	--

1. Area in Nonurban Use	15		
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2. Perimeter in Nonurban Use	10		
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3. Percent Of Corridor Being Farmed	20		
-------------------------------------	----	--	--

4. Protection Provided By State And Local Government	20		
--	----	--	--

5. Size of Present Farm Unit Compared To Average	10		
--	----	--	--

6. Creation Of Nonfarmable Farmland	25		
-------------------------------------	----	--	--

7. Availability Of Farm Support Services	5		
--	---	--	--

8. On-Farm Investments	20		
------------------------	----	--	--

9. Effects Of Conversion On Farm Support Services	25		
---	----	--	--

10. Compatibility With Existing Agricultural Use	10		
--	----	--	--

TOTAL CORRIDOR ASSESSMENT POINTS	160		
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<b>PART VII (To be completed by Federal Agency)</b>			
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Relative Value Of Farmland (From Part V)	100		
--	-----	--	--

Total Corridor Assessment (From Part VI above or a local site assessment)	160		
---	-----	--	--

<b>TOTAL POINTS (Total of above 2 lines)</b>	<b>260</b>		
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1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used?  YES <input type="checkbox"/> NO <input type="checkbox"/>
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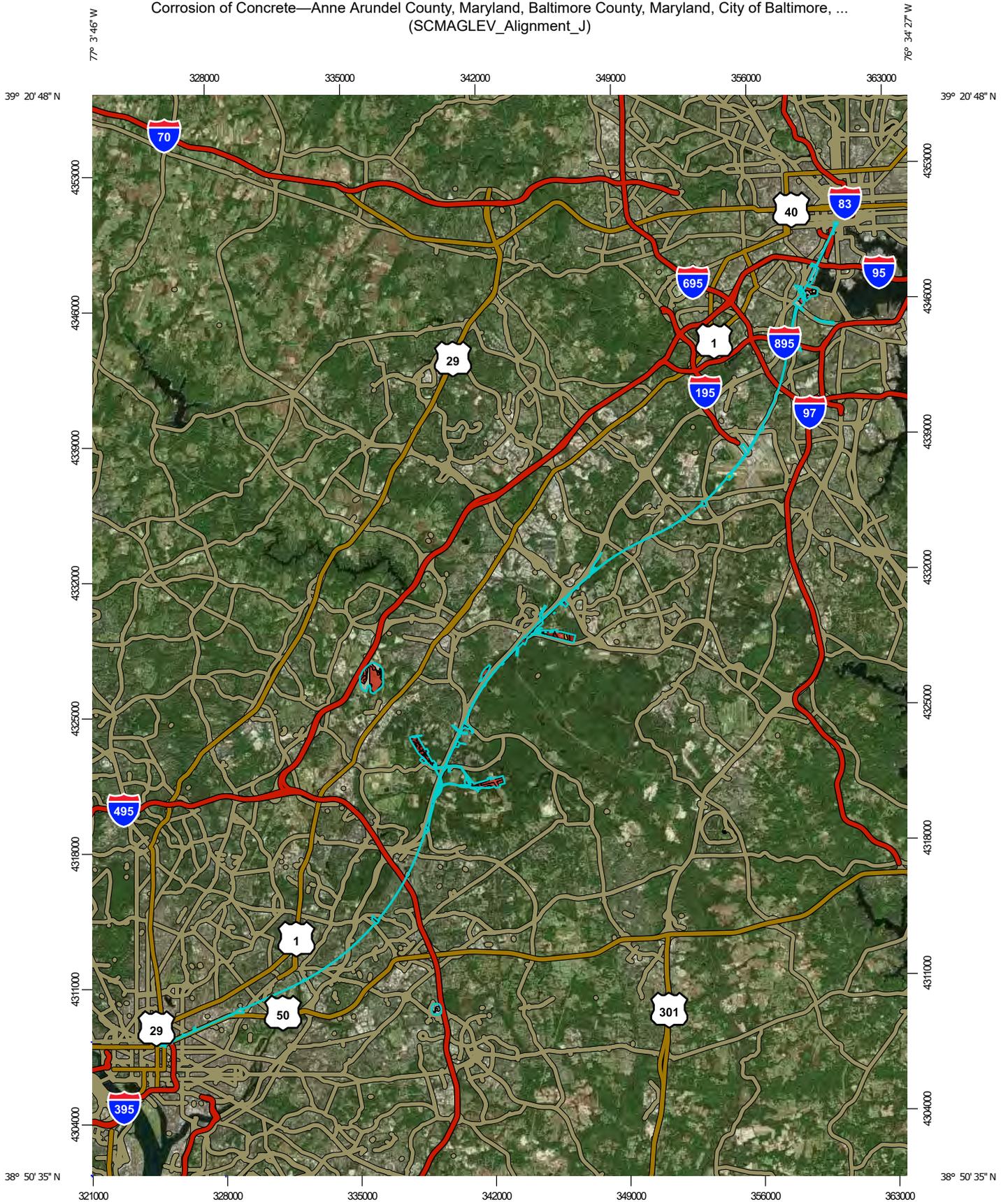
5. Reason For Selection:
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Signature of Person Completing this Part:	DATE
---	------

**NOTE: Complete a form for each segment with more than one Alternate Corridor**

## **C.2 – WEB SOIL SURVEY MAPS & REPORTS**

Corrosion of Concrete—Anne Arundel County, Maryland, Baltimore County, Maryland, City of Baltimore, ...  
(SCMAGLEV\_Alignment\_J)



Map Scale: 1:272,000 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84



## MAP LEGEND

- Area of Interest (AOI)**  
 Area of Interest (AOI)
- Background**  
 Aerial Photography
- Soils**
- Soil Rating Polygons**
-  High
  -  Moderate
  -  Low
  -  Not rated or not available
- Soil Rating Lines**
-  High
  -  Moderate
  -  Low
  -  Not rated or not available
- Soil Rating Points**
-  High
  -  Moderate
  -  Low
  -  Not rated or not available
- Water Features**
-  Streams and Canals
- Transportation**
-  Rails
  -  Interstate Highways
  -  US Routes
  -  Major Roads
  -  Local Roads

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Anne Arundel County, Maryland  
 Survey Area Data: Version 19, Jun 11, 2020

Soil Survey Area: Baltimore County, Maryland  
 Survey Area Data: Version 15, Jun 11, 2020

Soil Survey Area: City of Baltimore, Maryland  
 Survey Area Data: Version 16, Jun 11, 2020

Soil Survey Area: District of Columbia  
 Survey Area Data: Version 14, Jun 11, 2020

Soil Survey Area: Prince George's County, Maryland  
 Survey Area Data: Version 18, Jun 11, 2020

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 1, 1999—Dec 31, 2003

## MAP LEGEND

## MAP INFORMATION

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Corrosion of Concrete

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CaB	Chillum loam, 2 to 5 percent slopes	High	0.1	0.0%
CbB	Chillum-Urban land complex, 0 to 5 percent slopes		0.0	0.0%
CcrB	Christiana-Sassafras complex, 2 to 5 percent slopes	High	64.0	3.2%
CcrC	Christiana-Sassafras complex, 5 to 10 percent slopes	High	46.0	2.3%
CdB	Christiana-Sassafras-Urban land complex, 0 to 5 percent slopes	High	0.3	0.0%
CdD	Christiana-Sassafras-Urban land complex, 5 to 15 percent slopes	High	5.4	0.3%
CHA	Codorus and Hatboro soils, 0 to 2 percent slopes, frequently flooded	Moderate	4.6	0.2%
DvB	Downer-Hammonton complex, 2 to 5 percent slopes	High	24.4	1.2%
DvC	Downer-Hammonton complex, 5 to 10 percent slopes	High	0.6	0.0%
DvD	Downer-Hammonton complex, 10 to 15 percent slopes	High	0.1	0.0%
DwB	Downer-Hammonton-Urban land complex, 0 to 5 percent slopes	High	17.0	0.9%
DxC	Downer-Phalanx complex, 5 to 10 percent slopes	High	3.9	0.2%
DxD	Downer-Phalanx complex, 10 to 15 percent slopes	High	0.6	0.0%
EuD	Evesboro-Galestown-Urban land complex, 5 to 15 percent slopes	High	4.8	0.2%
EuE	Evesboro-Galestown-Urban land complex, 15 to 25 percent slopes	High	1.9	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
EVC	Evesboro and Galestown soils, 5 to 10 percent slopes	High	2.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	High	66.1	3.3%
GaB	Galestown loamy sand, 0 to 5 percent slopes	High	0.9	0.0%
MpB	Matapeake-Urban land complex, 0 to 5 percent slopes	High	0.5	0.0%
MpD	Matapeake-Urban land complex, 5 to 15 percent slopes	High	1.0	0.1%
MZA	Misplion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	High	1.7	0.1%
PeB	Patapsco-Evesboro-Fort Mott complex, 0 to 5 percent slopes	High	1.4	0.1%
PfB	Patapsco-Fort Mott complex, 0 to 5 percent slopes	High	7.2	0.4%
PfD	Patapsco-Fort Mott complex, 10 to 15 percent slopes	High	0.1	0.0%
PgB	Patapsco-Fort Mott-Urban land complex, 0 to 5 percent slopes	High	17.5	0.9%
RhB	Russett-Christiana-Hambrook complex, 0 to 5 percent slopes	High	42.6	2.1%
RhC	Russett-Christiana-Hambrook complex, 5 to 10 percent slopes	High	23.4	1.2%
RhD	Russett-Christiana-Hambrook complex, 10 to 15 percent slopes	High	13.2	0.7%
RkB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	High	4.2	0.2%
SaB	Sassafras fine sandy loam, 2 to 5 percent slopes	Moderate	27.4	1.4%
SfB	Sassafras loam, 2 to 5 percent slopes	High	1.2	0.1%
ShA	Sassafras-Hambrook complex, 0 to 2 percent slopes	Moderate	13.0	0.7%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
SME	Sassafras and Croom soils, 15 to 25 percent slopes	High	7.1	0.4%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	High	0.5	0.0%
SnD	Sassafras-Urban land complex, 5 to 15 percent slopes	High	4.3	0.2%
UoB	Udorthents, loamy, 0 to 5 percent slopes	High	8.0	0.4%
UoD	Udorthents, loamy, 5 to 15 percent slopes	High	9.0	0.5%
UoE	Udorthents, loamy, 15 to 25 percent slopes	High	38.2	1.9%
Uz	Urban land		45.1	2.3%
W	Water		1.5	0.1%
WdaA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Coastal Plain	High	2.1	0.1%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	High	2.2	0.1%
WrB	Woodstown-Urban land complex, 0 to 5 percent slopes	High	0.3	0.0%
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	High	30.6	1.5%
<b>Subtotals for Soil Survey Area</b>			<b>545.8</b>	<b>27.6%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BfB	Beltsville-Urban land complex, 0 to 5 percent slopes	High	1.8	0.1%
CfA	Codorus silt loams, 0 to 3 percent slopes	Moderate	0.2	0.0%
CoD	Croom-Urban land complex, 5 to 15 percent slopes	High	0.5	0.0%
FBA	Fallsington-Urban land complex, 0 to 2 percent slopes	High	0.3	0.0%
KuB	Keyport-Urban land complex, 0 to 5 percent slopes	High	1.2	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
MT	Mispillion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	High	0.2	0.0%
RuB	Russett-Urban land complex, 0 to 5 percent slopes		1.4	0.1%
RuD	Russett-Urban land complex, 5 to 15 percent slopes		5.4	0.3%
SfB	Sassafras-Urban land complex, 0 to 5 percent slopes	High	0.2	0.0%
UaD	Udorthents, 15 to 25 percent slopes	High	0.2	0.0%
UcF	Udorthents, highway, 0 to 65 percent slopes		1.5	0.1%
Ur	Urban land, 0 to 8 percent slopes		26.9	1.4%
W	Water		0.1	0.0%
<b>Subtotals for Soil Survey Area</b>			<b>39.8</b>	<b>2.0%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
7UC	Christiana-Urban land complex, 8 to 15 percent slopes	High	1.5	0.1%
15UB	Keyport-Urban land complex, 0 to 8 percent slopes	High	0.1	0.0%
25B	Mattapex silt loam, 2 to 5 percent slopes, northern coastal plain	High	5.0	0.3%
33UB	Urban land-Sunnyside complex, 0 to 8 percent slopes		22.3	1.1%
34UB	Urban land-Sunnyside-Christiana complex, 0 to 8 percent slopes		4.7	0.2%
34UC	Urban land-Sunnyside-Christiana complex, 8 to 15 percent slopes		2.5	0.1%
35C	Sunnyside fine sandy loam, 8 to 15 percent slopes	High	1.7	0.1%
37	Sulfaquepts, frequently flooded		1.1	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
38C	Udorthents, clayey, very deep, 0 to 15 percent slopes	Moderate	21.7	1.1%
39C	Udorthents, sanitary landfill, 0 to 15 percent slopes		1.1	0.1%
40E	Udorthents, loamy, very deep, 15 to 60 percent slopes	High	11.0	0.6%
42E	Udorthents, smoothed, 0 to 35 percent slopes	High	64.7	3.3%
43U	Urban land-Udorthents complex, occasionally flooded		3.4	0.2%
44UC	Urban land, 0 to 15 percent slopes		118.8	6.0%
W	Water		5.1	0.3%
<b>Subtotals for Soil Survey Area</b>			<b>264.8</b>	<b>13.4%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CeC	Christiana silt loam, 8 to 15 percent slopes	High	0.9	0.0%
CeD	Christiana silt loam, 15 to 40 percent slopes	High	0.5	0.0%
CfC	Christiana-Urban land complex, 8 to 15 percent slopes	High	0.9	0.0%
GeB	Galestown-Urban land complex, 0 to 8 percent slopes	High	0.6	0.0%
MvC	Muirkirk variant complex, 8 to 15 percent slopes	Moderate	0.6	0.0%
SgD	Sassafras-Urban land complex, 15 to 40 percent slopes	High	0.8	0.0%
SpB	Sunnyside-Urban land complex, 0 to 8 percent slopes	High	0.7	0.0%
SpC	Sunnyside-Urban land complex, 8 to 15 percent slopes	High	0.3	0.0%
U1	Udorthents		0.5	0.0%
U10	Udorthents, clayey, smoothed	Moderate	0.8	0.0%
Ub	Urban land		49.3	2.5%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UcB	Urban land-Beltsville complex, 0 to 8 percent slopes		2.0	0.1%
UeB	Urban land-Chillum complex, 0 to 8 percent slopes		1.7	0.1%
<b>Subtotals for Soil Survey Area</b>			<b>59.4</b>	<b>3.0%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AeB	Adelphia-Holmdel-Urban land complex, 0 to 5 percent slopes	High	1.5	0.1%
ApB	Aquasco silt loam, 2 to 5 percent slopes	High	1.1	0.1%
BaA	Beltsville silt loam, 0 to 2 percent slopes	High	3.1	0.2%
BaB	Beltsville silt loam, 2 to 5 percent slopes	High	3.1	0.2%
BaC	Beltsville silt loam, 5 to 10 percent slopes	High	5.3	0.3%
BuB	Beltsville-Urban land complex, 0 to 5 percent slopes	High	4.0	0.2%
BuD	Beltsville-Urban land complex, 5 to 15 percent slopes	High	0.1	0.0%
CcC	Christiana-Downer complex, 5 to 10 percent slopes	High	84.9	4.3%
CcD	Christiana-Downer complex, 10 to 15 percent slopes	High	24.1	1.2%
CcE	Christiana-Downer complex, 15 to 25 percent slopes	High	15.5	0.8%
CcF	Christiana-Downer complex, 25 to 40 percent slopes	High	0.2	0.0%
CdD	Christiana-Downer-Urban land complex, 5 to 15 percent slopes	High	32.4	1.6%
CdE	Christiana-Downer-Urban land complex, 15 to 25 percent slopes	High	0.1	0.0%
CF	Codorus and Hatboro soils, frequently flooded	Moderate	4.3	0.2%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CoD	Collington-Wist-Urban land complex, 5 to 15 percent slopes	High	0.1	0.0%
CrB	Croom gravelly sandy loam, 2 to 5 percent slopes	High	0.4	0.0%
CrE	Croom gravelly sandy loam, 15 to 25 percent slopes	High	0.6	0.0%
DoB	Downer-Hammonton complex, 2 to 5 percent slopes	High	27.6	1.4%
DoC	Downer-Hamonton complex, 5 to 10 percent slopes	High	6.0	0.3%
DoD	Downer-Hammonton complex, 10 to 15 percent slopes	High	21.8	1.1%
EkA	Elkton silt loam, 0 to 2 percent slopes	High	3.7	0.2%
EwB	Evesboro-Downer complex 0 to 5 percent slopes	High	29.8	1.5%
EwC	Evesboro-Downer complex, 5 to 10 percent slopes	High	3.5	0.2%
EwD	Evesboro-Downer complex, 10 to 15 percent slopes	High	1.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	High	2.2	0.1%
GbB	Galestown-Urban land complex, 0 to 5 percent slopes	High	17.6	0.9%
HaA	Hammonton loamy sand, 0 to 2 percent slopes	High	2.1	0.1%
Iu	Issue-Urban land complex, occasionally flooded	High	3.5	0.2%
LY	Longmarsh and Indiantown soils, frequently flooded	High	9.1	0.5%
PT	Pits, gravel		85.1	4.3%
RcA	Russett-Christiana complex, 0 to 2 percent slopes	High	8.8	0.4%
RcB	Russett-Christiana complex, 2 to 5 percent slopes	High	121.9	6.2%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
RuB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	High	77.6	3.9%
SaaB	Sassafras sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	High	1.9	0.1%
SaaC	Sassafras sandy loam, 5 to 10 percent slopes, Northern Coastal Plain	High	4.5	0.2%
ScC	Sassafras-Croom complex, 5 to 10 percent slopes	High	7.3	0.4%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	High	0.0	0.0%
SOF	Sassafras and Croom soils, 25 to 40 percent slopes	High	1.5	0.1%
UdaF	Udorthents, highway, 0 to 65 percent slopes		26.5	1.3%
UdbB	Udorthents, loamy, 0 to 5 percent slopes	High	55.6	2.8%
UdbD	Udorthents, loamy, 5 to 15 percent slopes	High	1.0	0.1%
UdbE	Udorthents, loamy, 15 to 25 percent slopes	High	0.3	0.0%
UdcD	Udorthents, reclaimed clay pits, 5 to 15 percent slopes	High	0.5	0.0%
UdgB	Udorthents, reclaimed gravel pits, 0 to 5 percent slopes	High	175.3	8.8%
UdgD	Udorthents, reclaimed gravel pits, 5 to 15 percent slopes	High	46.5	2.3%
UdgE	Udorthents, reclaimed gravel pits, 15 to 25 percent slopes	High	12.6	0.6%
UduB	Udorthents-Urban land complex, 0 to 5 percent slopes	High	14.1	0.7%
UduD	Udorthents-Urban land complex, 5 to 15 percent slopes	High	10.7	0.5%
Un	Urban land		1.0	0.1%
UraB	Urban land-Adelphia complex, 0 to 5 percent slopes		14.2	0.7%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UrdB	Urban land-Collington-Wist complex, 0 to 5 percent slopes		23.3	1.2%
UreB	Urban land-Elsinboro complex, 0 to 5 percent slopes		4.2	0.2%
UrrB	Urban land-Russett-Christiana complex, 0 to 5 percent slopes		23.0	1.2%
W	Water		0.3	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	High	6.5	0.3%
Zn	Zekiah-Urban land complex, frequently flooded	High	1.0	0.0%
ZS	Zekiah and Issue soils, frequently flooded	High	37.7	1.9%
<b>Subtotals for Soil Survey Area</b>			<b>1,071.4</b>	<b>54.1%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

## Description

"Risk of corrosion" pertains to potential soil-induced electrochemical or chemical action that corrodes or weakens concrete. The rate of corrosion of concrete is based mainly on the sulfate and sodium content, texture, moisture content, and acidity of the soil. Special site examination and design may be needed if the combination of factors results in a severe hazard of corrosion. The concrete in installations that intersect soil boundaries or soil layers is more susceptible to corrosion than the concrete in installations that are entirely within one kind of soil or within one soil layer.

The risk of corrosion is expressed as "low," "moderate," or "high."

## Rating Options

*Aggregation Method:* Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

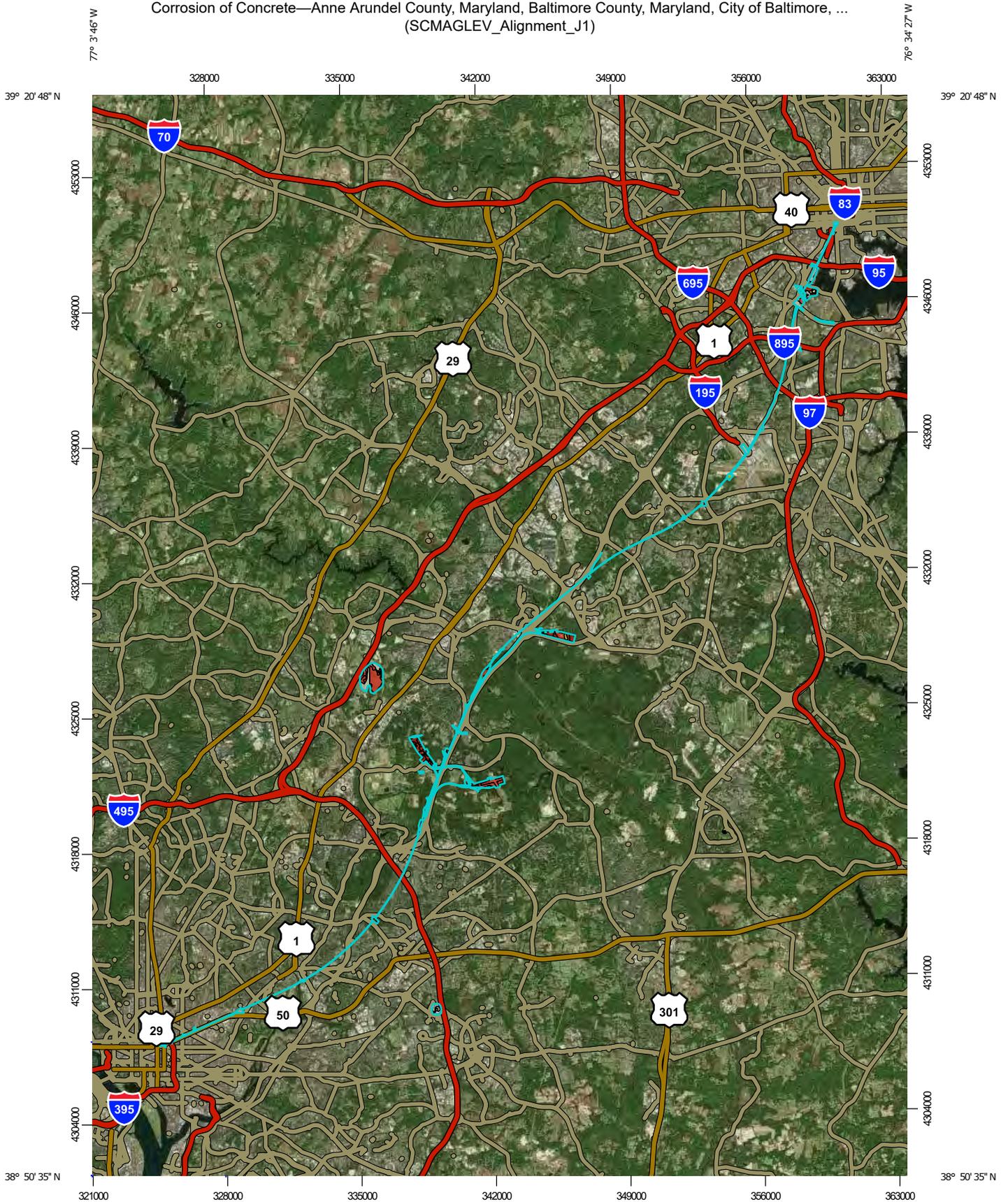
*Component Percent Cutoff: None Specified*

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

*Tie-break Rule: Higher*

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Corrosion of Concrete—Anne Arundel County, Maryland, Baltimore County, Maryland, City of Baltimore, ...  
(SCMAGLEV\_Alignment\_J1)



Map Scale: 1:272,000 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

## MAP LEGEND

- Area of Interest (AOI)**  
 Area of Interest (AOI)
- Background**  
 Aerial Photography
- Soils**
- Soil Rating Polygons**
-  High
  -  Moderate
  -  Low
  -  Not rated or not available
- Soil Rating Lines**
-  High
  -  Moderate
  -  Low
  -  Not rated or not available
- Soil Rating Points**
-  High
  -  Moderate
  -  Low
  -  Not rated or not available
- Water Features**
-  Streams and Canals
- Transportation**
-  Rails
  -  Interstate Highways
  -  US Routes
  -  Major Roads
  -  Local Roads

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

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This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Anne Arundel County, Maryland  
 Survey Area Data: Version 19, Jun 11, 2020

Soil Survey Area: Baltimore County, Maryland  
 Survey Area Data: Version 15, Jun 11, 2020

Soil Survey Area: City of Baltimore, Maryland  
 Survey Area Data: Version 16, Jun 11, 2020

Soil Survey Area: District of Columbia  
 Survey Area Data: Version 14, Jun 11, 2020

Soil Survey Area: Prince George's County, Maryland  
 Survey Area Data: Version 18, Jun 11, 2020

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 1, 1999—Dec 31, 2003

## MAP LEGEND

## MAP INFORMATION

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Corrosion of Concrete

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CbB	Chillum-Urban land complex, 0 to 5 percent slopes		0.0	0.0%
CcrB	Christiana-Sassafras complex, 2 to 5 percent slopes	High	36.4	1.9%
CcrC	Christiana-Sassafras complex, 5 to 10 percent slopes	High	38.1	2.0%
CdB	Christiana-Sassafras-Urban land complex, 0 to 5 percent slopes	High	1.3	0.1%
CdD	Christiana-Sassafras-Urban land complex, 5 to 15 percent slopes	High	2.1	0.1%
CHA	Codorus and Hatboro soils, 0 to 2 percent slopes, frequently flooded	Moderate	2.1	0.1%
CTA	Comus and Codorus soils, 0 to 2 percent slopes, occasionally flooded	High	3.5	0.2%
DvB	Downer-Hammonton complex, 2 to 5 percent slopes	High	12.5	0.7%
DvD	Downer-Hammonton complex, 10 to 15 percent slopes	High	0.0	0.0%
DwB	Downer-Hammonton-Urban land complex, 0 to 5 percent slopes	High	8.7	0.5%
DxC	Downer-Phalanx complex, 5 to 10 percent slopes	High	3.7	0.2%
DxD	Downer-Phalanx complex, 10 to 15 percent slopes	High	0.6	0.0%
EuD	Evesboro-Galestown-Urban land complex, 5 to 15 percent slopes	High	4.9	0.3%
EuE	Evesboro-Galestown-Urban land complex, 15 to 25 percent slopes	High	1.9	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
EVC	Evesboro and Galestown soils, 5 to 10 percent slopes	High	2.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	High	62.0	3.3%
GaB	Galestown loamy sand, 0 to 5 percent slopes	High	0.9	0.0%
MpB	Matapeake-Urban land complex, 0 to 5 percent slopes	High	0.5	0.0%
MpD	Matapeake-Urban land complex, 5 to 15 percent slopes	High	1.0	0.1%
MZA	Misplion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	High	1.7	0.1%
PeB	Patapsco-Evesboro-Fort Mott complex, 0 to 5 percent slopes	High	1.4	0.1%
PfB	Patapsco-Fort Mott complex, 0 to 5 percent slopes	High	9.7	0.5%
PgB	Patapsco-Fort Mott-Urban land complex, 0 to 5 percent slopes	High	24.1	1.3%
RhB	Russett-Christiana-Hambrook complex, 0 to 5 percent slopes	High	36.2	1.9%
RhC	Russett-Christiana-Hambrook complex, 5 to 10 percent slopes	High	20.0	1.1%
RhD	Russett-Christiana-Hambrook complex, 10 to 15 percent slopes	High	7.0	0.4%
RkB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	High	4.3	0.2%
RyB	Russett-Urban land complex, 0 to 5 percent slopes		2.0	0.1%
SaB	Sassafras fine sandy loam, 2 to 5 percent slopes	Moderate	21.0	1.1%
SfB	Sassafras loam, 2 to 5 percent slopes	High	1.4	0.1%
ShA	Sassafras-Hambrook complex, 0 to 2 percent slopes	Moderate	12.2	0.6%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
SME	Sassafras and Croom soils, 15 to 25 percent slopes	High	1.4	0.1%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	High	0.7	0.0%
SnD	Sassafras-Urban land complex, 5 to 15 percent slopes	High	4.3	0.2%
UoB	Udorthents, loamy, 0 to 5 percent slopes	High	6.2	0.3%
UoD	Udorthents, loamy, 5 to 15 percent slopes	High	6.1	0.3%
UoE	Udorthents, loamy, 15 to 25 percent slopes	High	10.8	0.6%
Uz	Urban land		49.4	2.6%
W	Water		1.5	0.1%
WdaA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Coastal Plain	High	0.8	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	High	1.5	0.1%
WrB	Woodstown-Urban land complex, 0 to 5 percent slopes	High	0.3	0.0%
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	High	32.1	1.7%
<b>Subtotals for Soil Survey Area</b>			<b>438.4</b>	<b>23.2%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BfB	Beltsville-Urban land complex, 0 to 5 percent slopes	High	1.8	0.1%
CfA	Codorus silt loams, 0 to 3 percent slopes	Moderate	0.2	0.0%
CoD	Croom-Urban land complex, 5 to 15 percent slopes	High	0.5	0.0%
FBA	Fallsington-Urban land complex, 0 to 2 percent slopes	High	0.3	0.0%
KuB	Keyport-Urban land complex, 0 to 5 percent slopes	High	1.2	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
MT	Mispillion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	High	0.2	0.0%
RuB	Russett-Urban land complex, 0 to 5 percent slopes		1.4	0.1%
RuD	Russett-Urban land complex, 5 to 15 percent slopes		5.4	0.3%
SfB	Sassafras-Urban land complex, 0 to 5 percent slopes	High	0.2	0.0%
UaD	Udorthents, 15 to 25 percent slopes	High	0.2	0.0%
UcF	Udorthents, highway, 0 to 65 percent slopes		1.5	0.1%
Ur	Urban land, 0 to 8 percent slopes		26.9	1.4%
W	Water		0.1	0.0%
<b>Subtotals for Soil Survey Area</b>			<b>39.8</b>	<b>2.1%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
7UC	Christiana-Urban land complex, 8 to 15 percent slopes	High	1.5	0.1%
15UB	Keyport-Urban land complex, 0 to 8 percent slopes	High	0.1	0.0%
25B	Mattapex silt loam, 2 to 5 percent slopes, northern coastal plain	High	5.0	0.3%
33UB	Urban land-Sunnyside complex, 0 to 8 percent slopes		22.3	1.2%
34UB	Urban land-Sunnyside-Christiana complex, 0 to 8 percent slopes		4.7	0.3%
34UC	Urban land-Sunnyside-Christiana complex, 8 to 15 percent slopes		2.5	0.1%
35C	Sunnyside fine sandy loam, 8 to 15 percent slopes	High	1.7	0.1%
37	Sulfaquepts, frequently flooded		1.1	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
38C	Udorthents, clayey, very deep, 0 to 15 percent slopes	Moderate	21.7	1.1%
39C	Udorthents, sanitary landfill, 0 to 15 percent slopes		1.1	0.1%
40E	Udorthents, loamy, very deep, 15 to 60 percent slopes	High	11.0	0.6%
42E	Udorthents, smoothed, 0 to 35 percent slopes	High	64.7	3.4%
43U	Urban land-Udorthents complex, occasionally flooded		3.4	0.2%
44UC	Urban land, 0 to 15 percent slopes		118.8	6.3%
W	Water		5.1	0.3%
<b>Subtotals for Soil Survey Area</b>			<b>264.8</b>	<b>14.0%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CeC	Christiana silt loam, 8 to 15 percent slopes	High	0.9	0.0%
CeD	Christiana silt loam, 15 to 40 percent slopes	High	0.5	0.0%
CfC	Christiana-Urban land complex, 8 to 15 percent slopes	High	0.9	0.0%
GeB	Galestown-Urban land complex, 0 to 8 percent slopes	High	0.6	0.0%
MvC	Muirkirk variant complex, 8 to 15 percent slopes	Moderate	0.6	0.0%
SgD	Sassafras-Urban land complex, 15 to 40 percent slopes	High	0.8	0.0%
SpB	Sunnyside-Urban land complex, 0 to 8 percent slopes	High	0.7	0.0%
SpC	Sunnyside-Urban land complex, 8 to 15 percent slopes	High	0.3	0.0%
U1	Udorthents		0.5	0.0%
U10	Udorthents, clayey, smoothed	Moderate	0.8	0.0%
Ub	Urban land		49.3	2.6%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UcB	Urban land-Beltsville complex, 0 to 8 percent slopes		2.0	0.1%
UeB	Urban land-Chillum complex, 0 to 8 percent slopes		1.7	0.1%
<b>Subtotals for Soil Survey Area</b>			<b>59.4</b>	<b>3.1%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AeB	Adelphia-Holmdel-Urban land complex, 0 to 5 percent slopes	High	1.5	0.1%
ApB	Aquasco silt loam, 2 to 5 percent slopes	High	0.7	0.0%
BaB	Beltsville silt loam, 2 to 5 percent slopes	High	9.5	0.5%
BaC	Beltsville silt loam, 5 to 10 percent slopes	High	11.7	0.6%
CcC	Christiana-Downer complex, 5 to 10 percent slopes	High	85.5	4.5%
CcD	Christiana-Downer complex, 10 to 15 percent slopes	High	24.9	1.3%
CcE	Christiana-Downer complex, 15 to 25 percent slopes	High	15.0	0.8%
CcF	Christiana-Downer complex, 25 to 40 percent slopes	High	0.1	0.0%
CdD	Christiana-Downer-Urban land complex, 5 to 15 percent slopes	High	32.5	1.7%
CdE	Christiana-Downer-Urban land complex, 15 to 25 percent slopes	High	0.1	0.0%
CF	Codorus and Hatboro soils, frequently flooded	Moderate	8.7	0.5%
CoD	Collington-Wist-Urban land complex, 5 to 15 percent slopes	High	0.1	0.0%
CrB	Croom gravelly sandy loam, 2 to 5 percent slopes	High	0.4	0.0%
CrC	Croom gravelly sandy loam, 5 to 10 percent slopes	High	0.6	0.0%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CrD	Croom gravelly sandy loam, 10 to 15 percent slopes	High	2.5	0.1%
CrE	Croom gravelly sandy loam, 15 to 25 percent slopes	High	0.6	0.0%
DoB	Downer-Hammonton complex, 2 to 5 percent slopes	High	26.6	1.4%
DoC	Downer-Hamonton complex, 5 to 10 percent slopes	High	1.2	0.1%
DoD	Downer-Hammonton complex, 10 to 15 percent slopes	High	21.7	1.1%
EkA	Elkton silt loam, 0 to 2 percent slopes	High	5.3	0.3%
EwB	Evesboro-Downer complex 0 to 5 percent slopes	High	24.6	1.3%
EwC	Evesboro-Downer complex, 5 to 10 percent slopes	High	3.3	0.2%
EwD	Evesboro-Downer complex, 10 to 15 percent slopes	High	1.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	High	2.4	0.1%
GbB	Galestown-Urban land complex, 0 to 5 percent slopes	High	17.6	0.9%
HaA	Hammonton loamy sand, 0 to 2 percent slopes	High	2.3	0.1%
Iu	Issue-Urban land complex, occasionally flooded	High	2.2	0.1%
LY	Longmarsh and Indiantown soils, frequently flooded	High	8.5	0.4%
PT	Pits, gravel		85.1	4.5%
RcA	Russett-Christiana complex, 0 to 2 percent slopes	High	8.1	0.4%
RcB	Russett-Christiana complex, 2 to 5 percent slopes	High	109.6	5.8%
RuB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	High	86.2	4.6%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
SaaB	Sassafras sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	High	3.4	0.2%
SaaC	Sassafras sandy loam, 5 to 10 percent slopes, Northern Coastal Plain	High	7.4	0.4%
ScC	Sassafras-Croom complex, 5 to 10 percent slopes	High	4.8	0.3%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	High	0.3	0.0%
SOF	Sassafras and Croom soils, 25 to 40 percent slopes	High	0.0	0.0%
UdaF	Udorthents, highway, 0 to 65 percent slopes		26.6	1.4%
UdbB	Udorthents, loamy, 0 to 5 percent slopes	High	55.7	2.9%
UdbD	Udorthents, loamy, 5 to 15 percent slopes	High	1.0	0.1%
UdbE	Udorthents, loamy, 15 to 25 percent slopes	High	0.2	0.0%
UdgB	Udorthents, reclaimed gravel pits, 0 to 5 percent slopes	High	175.3	9.3%
UdgD	Udorthents, reclaimed gravel pits, 5 to 15 percent slopes	High	46.5	2.5%
UdgE	Udorthents, reclaimed gravel pits, 15 to 25 percent slopes	High	12.6	0.7%
UduB	Udorthents-Urban land complex, 0 to 5 percent slopes	High	15.7	0.8%
UduD	Udorthents-Urban land complex, 5 to 15 percent slopes	High	10.9	0.6%
Un	Urban land		0.6	0.0%
UraB	Urban land-Adelphia complex, 0 to 5 percent slopes		14.2	0.8%
UrdB	Urban land-Collington-Wist complex, 0 to 5 percent slopes		23.3	1.2%
UreB	Urban land-Elsinboro complex, 0 to 5 percent slopes		4.0	0.2%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UrrB	Urban land-Russett-Christiana complex, 0 to 5 percent slopes		23.6	1.2%
UrzA	Urban land-Zekiah complex, 0 to 2 percent slopes, frequently flooded		0.7	0.0%
W	Water		0.3	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	High	7.7	0.4%
WuB	Woodstown-Urban land complex, 0 to 5 percent slopes	High	1.6	0.1%
Zn	Zekiah-Urban land complex, frequently flooded	High	1.0	0.1%
ZS	Zekiah and Issue soils, frequently flooded	High	53.7	2.8%
<b>Subtotals for Soil Survey Area</b>			<b>1,091.2</b>	<b>57.6%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

## Description

"Risk of corrosion" pertains to potential soil-induced electrochemical or chemical action that corrodes or weakens concrete. The rate of corrosion of concrete is based mainly on the sulfate and sodium content, texture, moisture content, and acidity of the soil. Special site examination and design may be needed if the combination of factors results in a severe hazard of corrosion. The concrete in installations that intersect soil boundaries or soil layers is more susceptible to corrosion than the concrete in installations that are entirely within one kind of soil or within one soil layer.

The risk of corrosion is expressed as "low," "moderate," or "high."

## Rating Options

*Aggregation Method:* Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

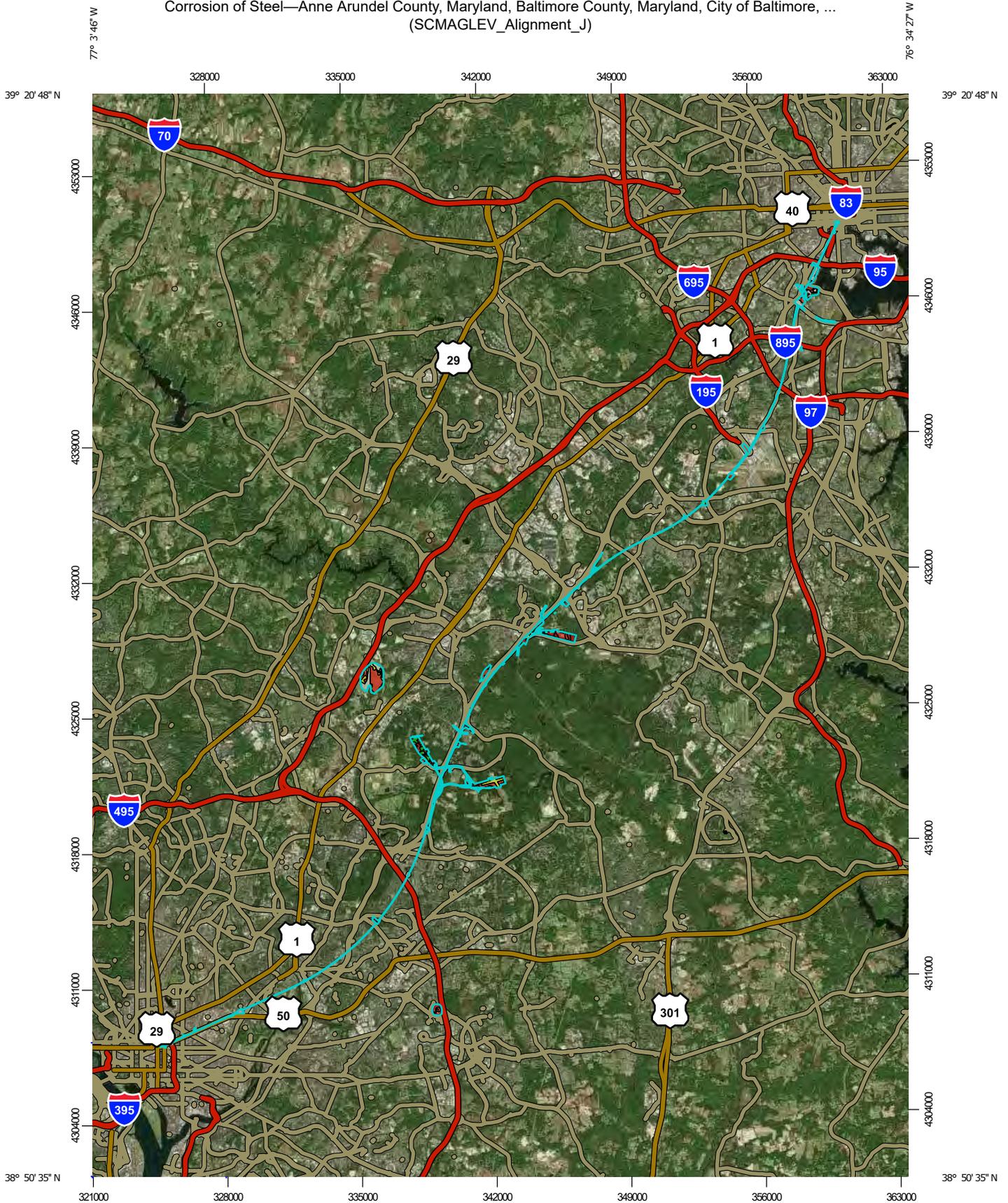
*Component Percent Cutoff: None Specified*

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

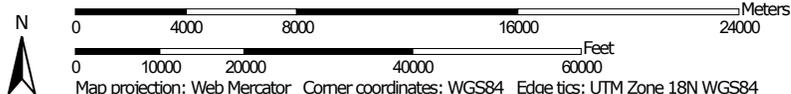
*Tie-break Rule: Higher*

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Corrosion of Steel—Anne Arundel County, Maryland, Baltimore County, Maryland, City of Baltimore, ...  
(SCMAGLEV\_Alignment\_J)



Map Scale: 1:272,000 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84



## MAP LEGEND

<b>Area of Interest (AOI)</b>	<b>Background</b>
 Area of Interest (AOI)	 Aerial Photography
<b>Soils</b>	
<b>Soil Rating Polygons</b>	
 High	
 Moderate	
 Low	
 Not rated or not available	
<b>Soil Rating Lines</b>	
 High	
 Moderate	
 Low	
 Not rated or not available	
<b>Soil Rating Points</b>	
 High	
 Moderate	
 Low	
 Not rated or not available	
<b>Water Features</b>	
 Streams and Canals	
<b>Transportation</b>	
 Rails	
 Interstate Highways	
 US Routes	
 Major Roads	
 Local Roads	

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Anne Arundel County, Maryland  
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Soil Survey Area: Baltimore County, Maryland  
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Date(s) aerial images were photographed: Jan 1, 1999—Dec 31, 2003

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## Corrosion of Steel

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CaB	Chillum loam, 2 to 5 percent slopes	Moderate	0.1	0.0%
CbB	Chillum-Urban land complex, 0 to 5 percent slopes	Moderate	0.0	0.0%
CcrB	Christiana-Sassafras complex, 2 to 5 percent slopes	High	64.0	3.2%
CcrC	Christiana-Sassafras complex, 5 to 10 percent slopes	High	46.0	2.3%
CdB	Christiana-Sassafras-Urban land complex, 0 to 5 percent slopes	High	0.3	0.0%
CdD	Christiana-Sassafras-Urban land complex, 5 to 15 percent slopes	High	5.4	0.3%
CHA	Codorus and Hatboro soils, 0 to 2 percent slopes, frequently flooded	High	4.6	0.2%
DvB	Downer-Hammonton complex, 2 to 5 percent slopes	Low	24.4	1.2%
DvC	Downer-Hammonton complex, 5 to 10 percent slopes	Low	0.6	0.0%
DvD	Downer-Hammonton complex, 10 to 15 percent slopes	Low	0.1	0.0%
DwB	Downer-Hammonton-Urban land complex, 0 to 5 percent slopes	High	17.0	0.9%
DxC	Downer-Phalanx complex, 5 to 10 percent slopes	Low	3.9	0.2%
DxD	Downer-Phalanx complex, 10 to 15 percent slopes	Low	0.6	0.0%
EuD	Evesboro-Galestown-Urban land complex, 5 to 15 percent slopes	Low	4.8	0.2%
EuE	Evesboro-Galestown-Urban land complex, 15 to 25 percent slopes	Low	1.9	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
EVC	Evesboro and Galestown soils, 5 to 10 percent slopes	Low	2.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	High	66.1	3.3%
GaB	Galestown loamy sand, 0 to 5 percent slopes	Low	0.9	0.0%
MpB	Matapeake-Urban land complex, 0 to 5 percent slopes	Moderate	0.5	0.0%
MpD	Matapeake-Urban land complex, 5 to 15 percent slopes	Moderate	1.0	0.1%
MZA	Misplion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	High	1.7	0.1%
PeB	Patapsco-Evesboro-Fort Mott complex, 0 to 5 percent slopes	Low	1.4	0.1%
PfB	Patapsco-Fort Mott complex, 0 to 5 percent slopes	Low	7.2	0.4%
PfD	Patapsco-Fort Mott complex, 10 to 15 percent slopes	Low	0.1	0.0%
PgB	Patapsco-Fort Mott-Urban land complex, 0 to 5 percent slopes	Low	17.5	0.9%
RhB	Russett-Christiana-Hambrook complex, 0 to 5 percent slopes	High	42.6	2.1%
RhC	Russett-Christiana-Hambrook complex, 5 to 10 percent slopes	High	23.4	1.2%
RhD	Russett-Christiana-Hambrook complex, 10 to 15 percent slopes	High	13.2	0.7%
RkB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	High	4.2	0.2%
SaB	Sassafras fine sandy loam, 2 to 5 percent slopes	High	27.4	1.4%
SfB	Sassafras loam, 2 to 5 percent slopes	Moderate	1.2	0.1%
ShA	Sassafras-Hambrook complex, 0 to 2 percent slopes	High	13.0	0.7%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
SME	Sassafras and Croom soils, 15 to 25 percent slopes	Moderate	7.1	0.4%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	Low	0.5	0.0%
SnD	Sassafras-Urban land complex, 5 to 15 percent slopes	High	4.3	0.2%
UoB	Udorthents, loamy, 0 to 5 percent slopes	Moderate	8.0	0.4%
UoD	Udorthents, loamy, 5 to 15 percent slopes	Moderate	9.0	0.5%
UoE	Udorthents, loamy, 15 to 25 percent slopes	Moderate	38.2	1.9%
Uz	Urban land	High	45.1	2.3%
W	Water		1.5	0.1%
WdaA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Coastal Plain	Moderate	2.1	0.1%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	Moderate	2.2	0.1%
WrB	Woodstown-Urban land complex, 0 to 5 percent slopes	Moderate	0.3	0.0%
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	High	30.6	1.5%
<b>Subtotals for Soil Survey Area</b>			<b>545.8</b>	<b>27.6%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BfB	Beltsville-Urban land complex, 0 to 5 percent slopes	High	1.8	0.1%
CfA	Codorus silt loams, 0 to 3 percent slopes	High	0.2	0.0%
CoD	Croom-Urban land complex, 5 to 15 percent slopes	Moderate	0.5	0.0%
FBA	Fallsington-Urban land complex, 0 to 2 percent slopes	High	0.3	0.0%
KuB	Keyport-Urban land complex, 0 to 5 percent slopes	High	1.2	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
MT	Mispillion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	High	0.2	0.0%
RuB	Russett-Urban land complex, 0 to 5 percent slopes	High	1.4	0.1%
RuD	Russett-Urban land complex, 5 to 15 percent slopes	High	5.4	0.3%
SfB	Sassafras-Urban land complex, 0 to 5 percent slopes	Low	0.2	0.0%
UaD	Udorthents, 15 to 25 percent slopes	Low	0.2	0.0%
UcF	Udorthents, highway, 0 to 65 percent slopes		1.5	0.1%
Ur	Urban land, 0 to 8 percent slopes		26.9	1.4%
W	Water		0.1	0.0%
<b>Subtotals for Soil Survey Area</b>			<b>39.8</b>	<b>2.0%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
7UC	Christiana-Urban land complex, 8 to 15 percent slopes	High	1.5	0.1%
15UB	Keyport-Urban land complex, 0 to 8 percent slopes	High	0.1	0.0%
25B	Mattapex silt loam, 2 to 5 percent slopes, northern coastal plain	High	5.0	0.3%
33UB	Urban land-Sunnyside complex, 0 to 8 percent slopes		22.3	1.1%
34UB	Urban land-Sunnyside-Christiana complex, 0 to 8 percent slopes		4.7	0.2%
34UC	Urban land-Sunnyside-Christiana complex, 8 to 15 percent slopes		2.5	0.1%
35C	Sunnyside fine sandy loam, 8 to 15 percent slopes	Low	1.7	0.1%
37	Sulfaquepts, frequently flooded		1.1	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
38C	Udorthents, clayey, very deep, 0 to 15 percent slopes	High	21.7	1.1%
39C	Udorthents, sanitary landfill, 0 to 15 percent slopes		1.1	0.1%
40E	Udorthents, loamy, very deep, 15 to 60 percent slopes	Low	11.0	0.6%
42E	Udorthents, smoothed, 0 to 35 percent slopes	High	64.7	3.3%
43U	Urban land-Udorthents complex, occasionally flooded		3.4	0.2%
44UC	Urban land, 0 to 15 percent slopes		118.8	6.0%
W	Water		5.1	0.3%
<b>Subtotals for Soil Survey Area</b>			<b>264.8</b>	<b>13.4%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CeC	Christiana silt loam, 8 to 15 percent slopes	High	0.9	0.0%
CeD	Christiana silt loam, 15 to 40 percent slopes	High	0.5	0.0%
CfC	Christiana-Urban land complex, 8 to 15 percent slopes	High	0.9	0.0%
GeB	Galestown-Urban land complex, 0 to 8 percent slopes	Low	0.6	0.0%
MvC	Muirkirk variant complex, 8 to 15 percent slopes	Moderate	0.6	0.0%
SgD	Sassafras-Urban land complex, 15 to 40 percent slopes	Low	0.8	0.0%
SpB	Sunnyside-Urban land complex, 0 to 8 percent slopes		0.7	0.0%
SpC	Sunnyside-Urban land complex, 8 to 15 percent slopes	Low	0.3	0.0%
U1	Udorthents		0.5	0.0%
U10	Udorthents, clayey, smoothed	High	0.8	0.0%
Ub	Urban land		49.3	2.5%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UcB	Urban land-Beltsville complex, 0 to 8 percent slopes		2.0	0.1%
UeB	Urban land-Chillum complex, 0 to 8 percent slopes		1.7	0.1%
<b>Subtotals for Soil Survey Area</b>			<b>59.4</b>	<b>3.0%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AeB	Adelphia-Holmdel-Urban land complex, 0 to 5 percent slopes	High	1.5	0.1%
ApB	Aquasco silt loam, 2 to 5 percent slopes	High	1.1	0.1%
BaA	Beltsville silt loam, 0 to 2 percent slopes	Moderate	3.1	0.2%
BaB	Beltsville silt loam, 2 to 5 percent slopes	Moderate	3.1	0.2%
BaC	Beltsville silt loam, 5 to 10 percent slopes	Moderate	5.3	0.3%
BuB	Beltsville-Urban land complex, 0 to 5 percent slopes	High	4.0	0.2%
BuD	Beltsville-Urban land complex, 5 to 15 percent slopes	Moderate	0.1	0.0%
CcC	Christiana-Downer complex, 5 to 10 percent slopes	High	84.9	4.3%
CcD	Christiana-Downer complex, 10 to 15 percent slopes	High	24.1	1.2%
CcE	Christiana-Downer complex, 15 to 25 percent slopes	High	15.5	0.8%
CcF	Christiana-Downer complex, 25 to 40 percent slopes	High	0.2	0.0%
CdD	Christiana-Downer-Urban land complex, 5 to 15 percent slopes	High	32.4	1.6%
CdE	Christiana-Downer-Urban land complex, 15 to 25 percent slopes	High	0.1	0.0%
CF	Codorus and Hatboro soils, frequently flooded	High	4.3	0.2%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CoD	Collington-Wist-Urban land complex, 5 to 15 percent slopes	Moderate	0.1	0.0%
CrB	Croom gravelly sandy loam, 2 to 5 percent slopes	Moderate	0.4	0.0%
CrE	Croom gravelly sandy loam, 15 to 25 percent slopes	Moderate	0.6	0.0%
DoB	Downer-Hammonton complex, 2 to 5 percent slopes	Low	27.6	1.4%
DoC	Downer-Hamonton complex, 5 to 10 percent slopes	Low	6.0	0.3%
DoD	Downer-Hammonton complex, 10 to 15 percent slopes	Low	21.8	1.1%
EkA	Elkton silt loam, 0 to 2 percent slopes	High	3.7	0.2%
EwB	Evesboro-Downer complex 0 to 5 percent slopes	Low	29.8	1.5%
EwC	Evesboro-Downer complex, 5 to 10 percent slopes	Low	3.5	0.2%
EwD	Evesboro-Downer complex, 10 to 15 percent slopes	Low	1.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	High	2.2	0.1%
GbB	Galestown-Urban land complex, 0 to 5 percent slopes	Low	17.6	0.9%
HaA	Hammonton loamy sand, 0 to 2 percent slopes	High	2.1	0.1%
Iu	Issue-Urban land complex, occasionally flooded	High	3.5	0.2%
LY	Longmarsh and Indiantown soils, frequently flooded	High	9.1	0.5%
PT	Pits, gravel		85.1	4.3%
RcA	Russett-Christiana complex, 0 to 2 percent slopes	High	8.8	0.4%
RcB	Russett-Christiana complex, 2 to 5 percent slopes	High	121.9	6.2%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
RuB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	High	77.6	3.9%
SaaB	Sassafras sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	Low	1.9	0.1%
SaaC	Sassafras sandy loam, 5 to 10 percent slopes, Northern Coastal Plain	Low	4.5	0.2%
ScC	Sassafras-Croom complex, 5 to 10 percent slopes	Moderate	7.3	0.4%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	Low	0.0	0.0%
SOF	Sassafras and Croom soils, 25 to 40 percent slopes	Moderate	1.5	0.1%
UdaF	Udorthents, highway, 0 to 65 percent slopes		26.5	1.3%
UdbB	Udorthents, loamy, 0 to 5 percent slopes	Moderate	55.6	2.8%
UdbD	Udorthents, loamy, 5 to 15 percent slopes	Moderate	1.0	0.1%
UdbE	Udorthents, loamy, 15 to 25 percent slopes	Moderate	0.3	0.0%
UdcD	Udorthents, reclaimed clay pits, 5 to 15 percent slopes	High	0.5	0.0%
UdgB	Udorthents, reclaimed gravel pits, 0 to 5 percent slopes	High	175.3	8.8%
UgdD	Udorthents, reclaimed gravel pits, 5 to 15 percent slopes	Moderate	46.5	2.3%
UdgE	Udorthents, reclaimed gravel pits, 15 to 25 percent slopes	Moderate	12.6	0.6%
UduB	Udorthents-Urban land complex, 0 to 5 percent slopes	Moderate	14.1	0.7%
UduD	Udorthents-Urban land complex, 5 to 15 percent slopes	Moderate	10.7	0.5%
Un	Urban land	High	1.0	0.1%
UraB	Urban land-Adelphia complex, 0 to 5 percent slopes	High	14.2	0.7%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UrdB	Urban land-Collington-Wist complex, 0 to 5 percent slopes	High	23.3	1.2%
UreB	Urban land-Elsinboro complex, 0 to 5 percent slopes	High	4.2	0.2%
UrrB	Urban land-Russett-Christiana complex, 0 to 5 percent slopes	High	23.0	1.2%
W	Water		0.3	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	Moderate	6.5	0.3%
Zn	Zekiah-Urban land complex, frequently flooded	High	1.0	0.0%
ZS	Zekiah and Issue soils, frequently flooded	High	37.7	1.9%
<b>Subtotals for Soil Survey Area</b>			<b>1,071.4</b>	<b>54.1%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

## Description

"Risk of corrosion" pertains to potential soil-induced electrochemical or chemical action that corrodes or weakens uncoated steel. The rate of corrosion of uncoated steel is related to such factors as soil moisture, particle-size distribution, acidity, and electrical conductivity of the soil. Special site examination and design may be needed if the combination of factors results in a severe hazard of corrosion. The steel in installations that intersect soil boundaries or soil layers is more susceptible to corrosion than the steel in installations that are entirely within one kind of soil or within one soil layer.

The risk of corrosion is expressed as "low," "moderate," or "high."

## Rating Options

*Aggregation Method:* Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

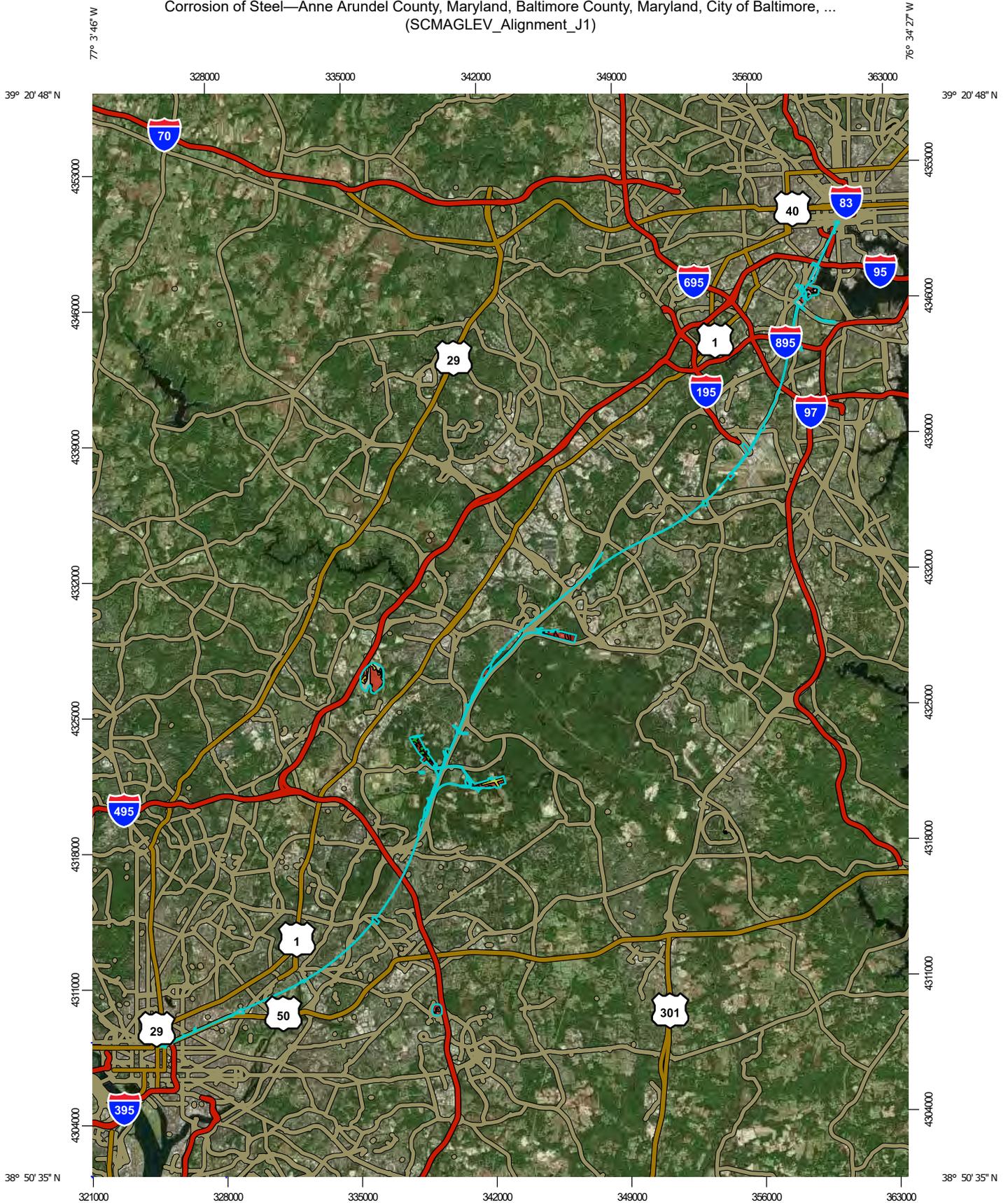
*Component Percent Cutoff: None Specified*

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

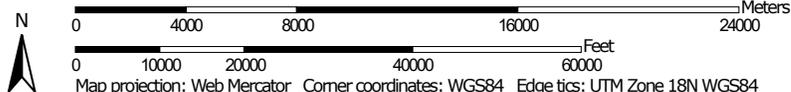
*Tie-break Rule: Higher*

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Corrosion of Steel—Anne Arundel County, Maryland, Baltimore County, Maryland, City of Baltimore, ...  
(SCMAGLEV\_Alignment\_J1)



Map Scale: 1:272,000 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84



## MAP LEGEND

<b>Area of Interest (AOI)</b>	<b>Background</b>
 Area of Interest (AOI)	 Aerial Photography
<b>Soils</b>	
<b>Soil Rating Polygons</b>	
 High	
 Moderate	
 Low	
 Not rated or not available	
<b>Soil Rating Lines</b>	
 High	
 Moderate	
 Low	
 Not rated or not available	
<b>Soil Rating Points</b>	
 High	
 Moderate	
 Low	
 Not rated or not available	
<b>Water Features</b>	
 Streams and Canals	
<b>Transportation</b>	
 Rails	
 Interstate Highways	
 US Routes	
 Major Roads	
 Local Roads	

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Anne Arundel County, Maryland  
Survey Area Data: Version 19, Jun 11, 2020

Soil Survey Area: Baltimore County, Maryland  
Survey Area Data: Version 15, Jun 11, 2020

Soil Survey Area: City of Baltimore, Maryland  
Survey Area Data: Version 16, Jun 11, 2020

Soil Survey Area: District of Columbia  
Survey Area Data: Version 14, Jun 11, 2020

Soil Survey Area: Prince George's County, Maryland  
Survey Area Data: Version 18, Jun 11, 2020

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 1, 1999—Dec 31, 2003

## MAP LEGEND

## MAP INFORMATION

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Corrosion of Steel

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CbB	Chillum-Urban land complex, 0 to 5 percent slopes	Moderate	0.0	0.0%
CcrB	Christiana-Sassafras complex, 2 to 5 percent slopes	High	36.4	1.9%
CcrC	Christiana-Sassafras complex, 5 to 10 percent slopes	High	38.1	2.0%
CdB	Christiana-Sassafras-Urban land complex, 0 to 5 percent slopes	High	1.3	0.1%
CdD	Christiana-Sassafras-Urban land complex, 5 to 15 percent slopes	High	2.1	0.1%
CHA	Codorus and Hatboro soils, 0 to 2 percent slopes, frequently flooded	High	2.1	0.1%
CTA	Comus and Codorus soils, 0 to 2 percent slopes, occasionally flooded	Moderate	3.5	0.2%
DvB	Downer-Hammonton complex, 2 to 5 percent slopes	Low	12.5	0.7%
DvD	Downer-Hammonton complex, 10 to 15 percent slopes	Low	0.0	0.0%
DwB	Downer-Hammonton-Urban land complex, 0 to 5 percent slopes	High	8.7	0.5%
DxC	Downer-Phalanx complex, 5 to 10 percent slopes	Low	3.7	0.2%
DxD	Downer-Phalanx complex, 10 to 15 percent slopes	Low	0.6	0.0%
EuD	Evesboro-Galestown-Urban land complex, 5 to 15 percent slopes	Low	4.9	0.3%
EuE	Evesboro-Galestown-Urban land complex, 15 to 25 percent slopes	Low	1.9	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
EVC	Evesboro and Galestown soils, 5 to 10 percent slopes	Low	2.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	High	62.0	3.3%
GaB	Galestown loamy sand, 0 to 5 percent slopes	Low	0.9	0.0%
MpB	Matapeake-Urban land complex, 0 to 5 percent slopes	Moderate	0.5	0.0%
MpD	Matapeake-Urban land complex, 5 to 15 percent slopes	Moderate	1.0	0.1%
MZA	Misplion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	High	1.7	0.1%
PeB	Patapsco-Evesboro-Fort Mott complex, 0 to 5 percent slopes	Low	1.4	0.1%
PfB	Patapsco-Fort Mott complex, 0 to 5 percent slopes	Low	9.7	0.5%
PgB	Patapsco-Fort Mott-Urban land complex, 0 to 5 percent slopes	Low	24.1	1.3%
RhB	Russett-Christiana-Hambrook complex, 0 to 5 percent slopes	High	36.2	1.9%
RhC	Russett-Christiana-Hambrook complex, 5 to 10 percent slopes	High	20.0	1.1%
RhD	Russett-Christiana-Hambrook complex, 10 to 15 percent slopes	High	7.0	0.4%
RkB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	High	4.3	0.2%
RyB	Russett-Urban land complex, 0 to 5 percent slopes	High	2.0	0.1%
SaB	Sassafras fine sandy loam, 2 to 5 percent slopes	High	21.0	1.1%
SfB	Sassafras loam, 2 to 5 percent slopes	Moderate	1.4	0.1%
ShA	Sassafras-Hambrook complex, 0 to 2 percent slopes	High	12.2	0.6%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
SME	Sassafras and Croom soils, 15 to 25 percent slopes	Moderate	1.4	0.1%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	Low	0.7	0.0%
SnD	Sassafras-Urban land complex, 5 to 15 percent slopes	High	4.3	0.2%
UoB	Udorthents, loamy, 0 to 5 percent slopes	Moderate	6.2	0.3%
UoD	Udorthents, loamy, 5 to 15 percent slopes	Moderate	6.1	0.3%
UoE	Udorthents, loamy, 15 to 25 percent slopes	Moderate	10.8	0.6%
Uz	Urban land	High	49.4	2.6%
W	Water		1.5	0.1%
WdaA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Coastal Plain	Moderate	0.8	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	Moderate	1.5	0.1%
WrB	Woodstown-Urban land complex, 0 to 5 percent slopes	Moderate	0.3	0.0%
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	High	32.1	1.7%
<b>Subtotals for Soil Survey Area</b>			<b>438.4</b>	<b>23.2%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BfB	Beltsville-Urban land complex, 0 to 5 percent slopes	High	1.8	0.1%
CfA	Codorus silt loams, 0 to 3 percent slopes	High	0.2	0.0%
CoD	Croom-Urban land complex, 5 to 15 percent slopes	Moderate	0.5	0.0%
FBA	Fallsington-Urban land complex, 0 to 2 percent slopes	High	0.3	0.0%
KuB	Keyport-Urban land complex, 0 to 5 percent slopes	High	1.2	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
MT	Mispillion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	High	0.2	0.0%
RuB	Russett-Urban land complex, 0 to 5 percent slopes	High	1.4	0.1%
RuD	Russett-Urban land complex, 5 to 15 percent slopes	High	5.4	0.3%
SfB	Sassafras-Urban land complex, 0 to 5 percent slopes	Low	0.2	0.0%
UaD	Udorthents, 15 to 25 percent slopes	Low	0.2	0.0%
UcF	Udorthents, highway, 0 to 65 percent slopes		1.5	0.1%
Ur	Urban land, 0 to 8 percent slopes		26.9	1.4%
W	Water		0.1	0.0%
<b>Subtotals for Soil Survey Area</b>			<b>39.8</b>	<b>2.1%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
7UC	Christiana-Urban land complex, 8 to 15 percent slopes	High	1.5	0.1%
15UB	Keyport-Urban land complex, 0 to 8 percent slopes	High	0.1	0.0%
25B	Mattapex silt loam, 2 to 5 percent slopes, northern coastal plain	High	5.0	0.3%
33UB	Urban land-Sunnyside complex, 0 to 8 percent slopes		22.3	1.2%
34UB	Urban land-Sunnyside-Christiana complex, 0 to 8 percent slopes		4.7	0.3%
34UC	Urban land-Sunnyside-Christiana complex, 8 to 15 percent slopes		2.5	0.1%
35C	Sunnyside fine sandy loam, 8 to 15 percent slopes	Low	1.7	0.1%
37	Sulfaquepts, frequently flooded		1.1	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
38C	Udorthents, clayey, very deep, 0 to 15 percent slopes	High	21.7	1.1%
39C	Udorthents, sanitary landfill, 0 to 15 percent slopes		1.1	0.1%
40E	Udorthents, loamy, very deep, 15 to 60 percent slopes	Low	11.0	0.6%
42E	Udorthents, smoothed, 0 to 35 percent slopes	High	64.7	3.4%
43U	Urban land-Udorthents complex, occasionally flooded		3.4	0.2%
44UC	Urban land, 0 to 15 percent slopes		118.8	6.3%
W	Water		5.1	0.3%
<b>Subtotals for Soil Survey Area</b>			<b>264.8</b>	<b>14.0%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CeC	Christiana silt loam, 8 to 15 percent slopes	High	0.9	0.0%
CeD	Christiana silt loam, 15 to 40 percent slopes	High	0.5	0.0%
CfC	Christiana-Urban land complex, 8 to 15 percent slopes	High	0.9	0.0%
GeB	Galestown-Urban land complex, 0 to 8 percent slopes	Low	0.6	0.0%
MvC	Muirkirk variant complex, 8 to 15 percent slopes	Moderate	0.6	0.0%
SgD	Sassafras-Urban land complex, 15 to 40 percent slopes	Low	0.8	0.0%
SpB	Sunnyside-Urban land complex, 0 to 8 percent slopes		0.7	0.0%
SpC	Sunnyside-Urban land complex, 8 to 15 percent slopes	Low	0.3	0.0%
U1	Udorthents		0.5	0.0%
U10	Udorthents, clayey, smoothed	High	0.8	0.0%
Ub	Urban land		49.3	2.6%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UcB	Urban land-Beltsville complex, 0 to 8 percent slopes		2.0	0.1%
UeB	Urban land-Chillum complex, 0 to 8 percent slopes		1.7	0.1%
<b>Subtotals for Soil Survey Area</b>			<b>59.4</b>	<b>3.1%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AeB	Adelphia-Holmdel-Urban land complex, 0 to 5 percent slopes	High	1.5	0.1%
ApB	Aquasco silt loam, 2 to 5 percent slopes	High	0.7	0.0%
BaB	Beltsville silt loam, 2 to 5 percent slopes	Moderate	9.5	0.5%
BaC	Beltsville silt loam, 5 to 10 percent slopes	Moderate	11.7	0.6%
CcC	Christiana-Downer complex, 5 to 10 percent slopes	High	85.5	4.5%
CcD	Christiana-Downer complex, 10 to 15 percent slopes	High	24.9	1.3%
CcE	Christiana-Downer complex, 15 to 25 percent slopes	High	15.0	0.8%
CcF	Christiana-Downer complex, 25 to 40 percent slopes	High	0.1	0.0%
CdD	Christiana-Downer-Urban land complex, 5 to 15 percent slopes	High	32.5	1.7%
CdE	Christiana-Downer-Urban land complex, 15 to 25 percent slopes	High	0.1	0.0%
CF	Codorus and Hatboro soils, frequently flooded	High	8.7	0.5%
CoD	Collington-Wist-Urban land complex, 5 to 15 percent slopes	Moderate	0.1	0.0%
CrB	Croom gravelly sandy loam, 2 to 5 percent slopes	Moderate	0.4	0.0%
CrC	Croom gravelly sandy loam, 5 to 10 percent slopes	Moderate	0.6	0.0%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CrD	Croom gravelly sandy loam, 10 to 15 percent slopes	Moderate	2.5	0.1%
CrE	Croom gravelly sandy loam, 15 to 25 percent slopes	Moderate	0.6	0.0%
DoB	Downer-Hammonton complex, 2 to 5 percent slopes	Low	26.6	1.4%
DoC	Downer-Hamonton complex, 5 to 10 percent slopes	Low	1.2	0.1%
DoD	Downer-Hammonton complex, 10 to 15 percent slopes	Low	21.7	1.1%
EkA	Elkton silt loam, 0 to 2 percent slopes	High	5.3	0.3%
EwB	Evesboro-Downer complex 0 to 5 percent slopes	Low	24.6	1.3%
EwC	Evesboro-Downer complex, 5 to 10 percent slopes	Low	3.3	0.2%
EwD	Evesboro-Downer complex, 10 to 15 percent slopes	Low	1.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	High	2.4	0.1%
GbB	Galestown-Urban land complex, 0 to 5 percent slopes	Low	17.6	0.9%
HaA	Hammonton loamy sand, 0 to 2 percent slopes	High	2.3	0.1%
Iu	Issue-Urban land complex, occasionally flooded	High	2.2	0.1%
LY	Longmarsh and Indiantown soils, frequently flooded	High	8.5	0.4%
PT	Pits, gravel		85.1	4.5%
RcA	Russett-Christiana complex, 0 to 2 percent slopes	High	8.1	0.4%
RcB	Russett-Christiana complex, 2 to 5 percent slopes	High	109.6	5.8%
RuB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	High	86.2	4.6%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
SaaB	Sassafras sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	Low	3.4	0.2%
SaaC	Sassafras sandy loam, 5 to 10 percent slopes, Northern Coastal Plain	Low	7.4	0.4%
ScC	Sassafras-Croom complex, 5 to 10 percent slopes	Moderate	4.8	0.3%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	Low	0.3	0.0%
SOF	Sassafras and Croom soils, 25 to 40 percent slopes	Moderate	0.0	0.0%
UdaF	Udorthents, highway, 0 to 65 percent slopes		26.6	1.4%
UdbB	Udorthents, loamy, 0 to 5 percent slopes	Moderate	55.7	2.9%
UdbD	Udorthents, loamy, 5 to 15 percent slopes	Moderate	1.0	0.1%
UdbE	Udorthents, loamy, 15 to 25 percent slopes	Moderate	0.2	0.0%
UdgB	Udorthents, reclaimed gravel pits, 0 to 5 percent slopes	High	175.3	9.3%
UdgD	Udorthents, reclaimed gravel pits, 5 to 15 percent slopes	Moderate	46.5	2.5%
UdgE	Udorthents, reclaimed gravel pits, 15 to 25 percent slopes	Moderate	12.6	0.7%
UduB	Udorthents-Urban land complex, 0 to 5 percent slopes	Moderate	15.7	0.8%
UduD	Udorthents-Urban land complex, 5 to 15 percent slopes	Moderate	10.9	0.6%
Un	Urban land	High	0.6	0.0%
UraB	Urban land-Adelphia complex, 0 to 5 percent slopes	High	14.2	0.8%
UrdB	Urban land-Collington-Wist complex, 0 to 5 percent slopes	High	23.3	1.2%
UreB	Urban land-Elsinboro complex, 0 to 5 percent slopes	High	4.0	0.2%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UrrB	Urban land-Russett-Christiana complex, 0 to 5 percent slopes	High	23.6	1.2%
UrzA	Urban land-Zekiah complex, 0 to 2 percent slopes, frequently flooded	High	0.7	0.0%
W	Water		0.3	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	Moderate	7.7	0.4%
WuB	Woodstown-Urban land complex, 0 to 5 percent slopes	Moderate	1.6	0.1%
Zn	Zekiah-Urban land complex, frequently flooded	High	1.0	0.1%
ZS	Zekiah and Issue soils, frequently flooded	High	53.7	2.8%
<b>Subtotals for Soil Survey Area</b>			<b>1,091.2</b>	<b>57.6%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

## Description

"Risk of corrosion" pertains to potential soil-induced electrochemical or chemical action that corrodes or weakens uncoated steel. The rate of corrosion of uncoated steel is related to such factors as soil moisture, particle-size distribution, acidity, and electrical conductivity of the soil. Special site examination and design may be needed if the combination of factors results in a severe hazard of corrosion. The steel in installations that intersect soil boundaries or soil layers is more susceptible to corrosion than the steel in installations that are entirely within one kind of soil or within one soil layer.

The risk of corrosion is expressed as "low," "moderate," or "high."

## Rating Options

*Aggregation Method:* Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

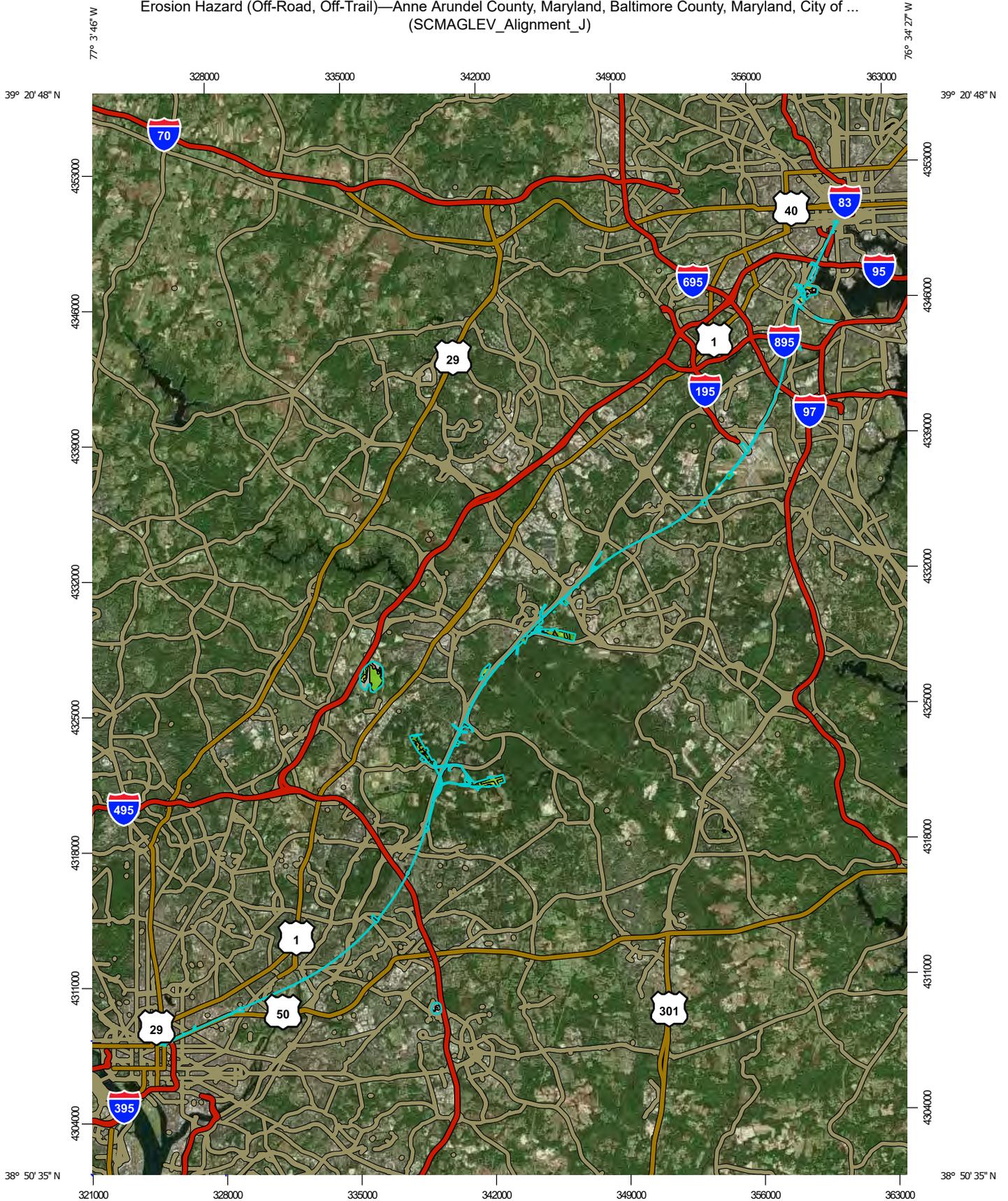
*Component Percent Cutoff: None Specified*

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

*Tie-break Rule: Higher*

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Erosion Hazard (Off-Road, Off-Trail)—Anne Arundel County, Maryland, Baltimore County, Maryland, City of ...  
(SCMAGLEV\_Alignment\_J)



Map Scale: 1:272,000 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

#### Soil Rating Polygons

 Very severe  
 Severe  
 Moderate  
 Slight  
 Not rated or not available

#### Soil Rating Lines

 Very severe  
 Severe  
 Moderate  
 Slight  
 Not rated or not available

#### Soil Rating Points

 Very severe  
 Severe  
 Moderate  
 Slight  
 Not rated or not available

### Water Features

 Streams and Canals

### Transportation

 Rails  
 Interstate Highways

 US Routes  
 Major Roads  
 Local Roads

### Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Anne Arundel County, Maryland  
 Survey Area Data: Version 19, Jun 11, 2020

Soil Survey Area: Baltimore County, Maryland  
 Survey Area Data: Version 15, Jun 11, 2020

Soil Survey Area: City of Baltimore, Maryland  
 Survey Area Data: Version 16, Jun 11, 2020

Soil Survey Area: District of Columbia  
 Survey Area Data: Version 14, Jun 11, 2020

Soil Survey Area: Prince George's County, Maryland  
 Survey Area Data: Version 18, Jun 11, 2020

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 1, 1999—Dec 31, 2003

## MAP LEGEND

## MAP INFORMATION

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Erosion Hazard (Off-Road, Off-Trail)

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
CaB	Chillum loam, 2 to 5 percent slopes	Moderate	Chillum (75%)	Surface kw times slope times R index (0.41)	0.1	0.0%
CbB	Chillum-Urban land complex, 0 to 5 percent slopes	Not rated	Urban land (39%)		0.0	0.0%
			Russett (10%)			
			Beltsville (10%)			
CcrB	Christiana-Sassafras complex, 2 to 5 percent slopes	Moderate	Christiana (55%)	Surface kw times slope times R index (0.74)	64.0	3.2%
CcrC	Christiana-Sassafras complex, 5 to 10 percent slopes	Severe	Christiana (55%)	Surface kw times slope times R index (0.91)	46.0	2.3%
CdB	Christiana-Sassafras-Urban land complex, 0 to 5 percent slopes	Moderate	Christiana (35%)	Surface kw times slope times R index (0.54)	0.3	0.0%
CdD	Christiana-Sassafras-Urban land complex, 5 to 15 percent slopes	Severe	Christiana (35%)	Surface kw times slope times R index (0.95)	5.4	0.3%
CHA	Codorus and Hatboro soils, 0 to 2 percent slopes, frequently flooded	Slight	Codorus (41%)		4.6	0.2%
			Hatboro (39%)			
DvB	Downer-Hammonton complex, 2 to 5 percent slopes	Slight	Downer (55%)		24.4	1.2%
			Hammonton (25%)			
			Phalanx (10%)			
DvC	Downer-Hammonton complex, 5 to 10 percent slopes	Slight	Downer (50%)		0.6	0.0%
			Fort Mott (5%)			
			Patapsco (5%)			

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
DvD	Downer-Hammonton complex, 10 to 15 percent slopes	Moderate	Downer (50%)	Surface kw times slope times R index (0.42)	0.1	0.0%
DwB	Downer-Hammonton-Urban land complex, 0 to 5 percent slopes	Slight	Downer (35%)		17.0	0.9%
			Hammonton (25%)			
DxC	Downer-Phalanx complex, 5 to 10 percent slopes	Slight	Downer (45%)		3.9	0.2%
DxD	Downer-Phalanx complex, 10 to 15 percent slopes	Moderate	Downer (45%)	Surface kw times slope times R index (0.42)	0.6	0.0%
EuD	Evesboro-Galestown-Urban land complex, 5 to 15 percent slopes	Moderate	Evesboro (35%)	Surface kw times slope times R index (0.18)	4.8	0.2%
			Galestown (30%)	Surface kw times slope times R index (0.18)		
EuE	Evesboro-Galestown-Urban land complex, 15 to 25 percent slopes	Moderate	Evesboro (35%)	Surface kw times slope times R index (0.75)	1.9	0.1%
			Galestown (30%)	Surface kw times slope times R index (0.75)		
EVC	Evesboro and Galestown soils, 5 to 10 percent slopes	Slight	Evesboro (45%)		2.1	0.1%
			Galestown (30%)			
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	Slight	Fallsington, undrained (48%)		66.1	3.3%
			Fallsington, drained (27%)			
			Woodstown (9%)			
			Hambrook (8%)			
			Hammonton (8%)			
GaB	Galestown loamy sand, 0 to 5 percent slopes	Slight	Galestown (75%)		0.9	0.0%
MpB	Matapeake-Urban land complex, 0 to	Moderate	Matapeake (50%)	Surface kw times slope times R index (0.41)	0.5	0.0%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
	5 percent slopes		Marr (5%)	Surface kw times slope times R index (0.14)		
MpD	Matapeake-Urban land complex, 5 to 15 percent slopes	Severe	Matapeake (50%)	Surface kw times slope times R index (0.93)	1.0	0.1%
			Marr (5%)	Surface kw times slope times R index (0.86)		
MZA	Mispillion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	Slight	Mispillion (45%)		1.7	0.1%
			Transquaking (40%)			
			Hydraquents (15%)			
PeB	Patapsco-Evesboro-Fort Mott complex, 0 to 5 percent slopes	Slight	Patapsco (35%)		1.4	0.1%
			Evesboro (20%)			
			Fort Mott (20%)			
			Pepperbox (5%)			
PfB	Patapsco-Fort Mott complex, 0 to 5 percent slopes	Slight	Patapsco (45%)		7.2	0.4%
			Fort Mott (30%)			
PfD	Patapsco-Fort Mott complex, 10 to 15 percent slopes	Slight	Patapsco (45%)		0.1	0.0%
PgB	Patapsco-Fort Mott-Urban land complex, 0 to 5 percent slopes	Slight	Patapsco (35%)		17.5	0.9%
			Fort Mott (25%)			
			Pepperbox (5%)			
RhB	Russett-Christiana-Hambrook complex, 0 to 5 percent slopes	Moderate	Russett (30%)	Surface kw times slope times R index (0.04)	42.6	2.1%
			Christiana (25%)	Surface kw times slope times R index (0.54)		
			Hambrook (20%)	Surface kw times slope times R index (0.14)		
RhC	Russett-Christiana-Hambrook complex, 5 to 10 percent slopes	Severe	Russett (30%)	Surface kw times slope times R index (0.78)	23.4	1.2%
			Christiana (25%)	Surface kw times slope times R index (0.91)		
			Hambrook (20%)	Surface kw times slope times R index (0.81)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
RhD	Russett-Christiana-Hambrook complex, 10 to 15 percent slopes	Severe	Russett (30%)	Surface kw times slope times R index (0.89)	13.2	0.7%
			Christiana (25%)	Surface kw times slope times R index (0.98)		
			Hambrook (20%)	Surface kw times slope times R index (0.90)		
RkB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	Moderate	Russett (30%)	Surface kw times slope times R index (0.04)	4.2	0.2%
			Christiana (25%)	Surface kw times slope times R index (0.54)		
SaB	Sassafras fine sandy loam, 2 to 5 percent slopes	Slight	Sassafras (75%)		27.4	1.4%
			Downer (5%)			
			Phalanx (5%)			
			Hambrook (5%)			
			Woodstown (5%)			
SfB	Sassafras loam, 2 to 5 percent slopes	Moderate	Sassafras (80%)	Surface kw times slope times R index (0.41)	1.2	0.1%
			Woodstown (4%)	Surface kw times slope times R index (0.41)		
			Aura (4%)	Surface kw times slope times R index (0.34)		
ShA	Sassafras-Hambrook complex, 0 to 2 percent slopes	Slight	Sassafras (45%)		13.0	0.7%
			Hambrook (40%)			
SME	Sassafras and Croom soils, 15 to 25 percent slopes	Severe	Sassafras (40%)	Surface kw times slope times R index (0.84)	7.1	0.4%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	Slight	Sassafras (45%)		0.5	0.0%
			Woodstown (5%)			
SnD	Sassafras-Urban land complex, 5 to 15 percent slopes	Moderate	Sassafras (55%)	Surface kw times slope times R index (0.56)	4.3	0.2%
			Phalanx (5%)	Surface kw times slope times R index (0.75)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
UoB	Udorthents, loamy, 0 to 5 percent slopes	Slight	Udorthents, loamy (90%)		8.0	0.4%
UoD	Udorthents, loamy, 5 to 15 percent slopes	Moderate	Udorthents (100%)	Surface kw times slope times R index (0.46)	9.0	0.5%
UoE	Udorthents, loamy, 15 to 25 percent slopes	Severe	Udorthents, loamy (100%)	Surface kw times slope times R index (0.87)	38.2	1.9%
Uz	Urban land	Not rated	Urban land (100%)		45.1	2.3%
W	Water	Not rated	Water (100%)		1.5	0.1%
WdaA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Coastal Plain	Slight	Woodstown (81%)		2.1	0.1%
			Fallsington (7%)			
			Hammonton (7%)			
			Hambrook (5%)			
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	Slight	Woodstown (81%)		2.2	0.1%
			Fallsington, occasionally ponded (7%)			
			Hammonton (7%)			
WrB	Woodstown-Urban land complex, 0 to 5 percent slopes	Moderate	Woodstown (50%)	Surface kw times slope times R index (0.04)	0.3	0.0%
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	Slight	Zekiah (41%)		30.6	1.5%
			Issue (39%)			
			Widewater (10%)			
			Longmarsh (5%)			
			Fallsington (5%)			
<b>Subtotals for Soil Survey Area</b>					<b>545.8</b>	<b>27.6%</b>
<b>Totals for Area of Interest</b>					<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
BfB	Beltsville-Urban land complex,	Slight	Beltsville (50%)		1.8	0.1%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
	0 to 5 percent slopes		Lenni, undrained (5%)			
			Aquasco (5%)			
CfA	Codorus silt loams, 0 to 3 percent slopes	Slight	Codorus (85%)		0.2	0.0%
			Hatboro (15%)			
CoD	Croom-Urban land complex, 5 to 15 percent slopes	Severe	Croom (70%)	Surface kw times slope times R index (0.89)	0.5	0.0%
FBA	Fallsington-Urban land complex, 0 to 2 percent slopes	Slight	Fallsington (50%)		0.3	0.0%
			Comus (5%)			
KuB	Keyport-Urban land complex, 0 to 5 percent slopes	Moderate	Keyport (65%)	Surface kw times slope times R index (0.54)	1.2	0.1%
MT	Mispillion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	Slight	Mispillion (41%)		0.2	0.0%
			Transquaking (39%)			
			Sulfaquents (10%)			
RuB	Russett-Urban land complex, 0 to 5 percent slopes	Moderate	Russett (40%)	Surface kw times slope times R index (0.04)	1.4	0.1%
			Christiana (10%)	Surface kw times slope times R index (0.41)		
RuD	Russett-Urban land complex, 5 to 15 percent slopes	Severe	Russett (40%)	Surface kw times slope times R index (0.87)	5.4	0.3%
			Christiana (10%)	Surface kw times slope times R index (0.96)		
SfB	Sassafras-Urban land complex, 0 to 5 percent slopes	Slight	Sassafras (45%)		0.2	0.0%
			Woodstown (5%)			
UaD	Udorthents, 15 to 25 percent slopes	Severe	Udorthents (100%)	Surface kw times slope times R index (0.91)	0.2	0.0%
UcF	Udorthents, highway, 0 to 65 percent slopes	Not rated	Udorthents (100%)		1.5	0.1%
Ur	Urban land, 0 to 8 percent slopes	Not rated	Urban land (85%)		26.9	1.4%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
W	Water	Not rated	Water (100%)		0.1	0.0%
<b>Subtotals for Soil Survey Area</b>					<b>39.8</b>	<b>2.0%</b>
<b>Totals for Area of Interest</b>					<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
7UC	Christiana-Urban land complex, 8 to 15 percent slopes	Severe	Christiana (50%)	Surface kw times slope times R index (0.93)	1.5	0.1%
			SUNNYSIDE (5%)	Surface kw times slope times R index (0.84)		
15UB	Keyport-Urban land complex, 0 to 8 percent slopes	Moderate	Keyport (41%)	Surface kw times slope times R index (0.66)	0.1	0.0%
			ELKTON (5%)	Surface kw times slope times R index (0.41)		
			BELTSVILLE (5%)	Surface kw times slope times R index (0.66)		
			CHRISTIANA (5%)	Surface kw times slope times R index (0.66)		
			SUNNYSIDE (2%)	Surface kw times slope times R index (0.14)		
25B	Mattapex silt loam, 2 to 5 percent slopes, northern coastal plain	Moderate	Mattapex (80%)	Surface kw times slope times R index (0.54)	5.0	0.3%
33UB	Urban land-Sunnyside complex, 0 to 8 percent slopes	Not rated	Urban land (75%)		22.3	1.1%
			Unnamed soils (3%)			
34UB	Urban land-Sunnyside-Christiana complex, 0 to 8 percent slopes	Not rated	Urban land (40%)		4.7	0.2%
			Unnamed soils (15%)			
34UC	Urban land-Sunnyside-Christiana complex, 8 to 15 percent slopes	Not rated	Urban land (40%)		2.5	0.1%
			Unnamed soils (20%)			

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
35C	Sunnyside fine sandy loam, 8 to 15 percent slopes	Severe	Sunnyside (100%)	Surface kw times slope times R index (0.87)	1.7	0.1%
37	Sulfaquepts, frequently flooded	Not rated	Sulfaquepts (100%)		1.1	0.1%
38C	Udorthents, clayey, very deep, 0 to 15 percent slopes	Severe	Udorthents (100%)	Surface kw times slope times R index (0.78)	21.7	1.1%
39C	Udorthents, sanitary landfill, 0 to 15 percent slopes	Not rated	Udorthents (100%)		1.1	0.1%
40E	Udorthents, loamy, very deep, 15 to 60 percent slopes	Very Severe	Udorthents (100%)	Surface kw times slope times R index (1.00)	11.0	0.6%
42E	Udorthents, smoothed, 0 to 35 percent slopes	Moderate	Udorthents (100%)	Surface kw times slope times R index (0.69)	64.7	3.3%
43U	Urban land-Udorthents complex, occasionally flooded	Not rated	Urban land (65%)		3.4	0.2%
			Unnamed soils (3%)			
44UC	Urban land, 0 to 15 percent slopes	Not rated	Urban land (100%)		118.8	6.0%
W	Water	Not rated	Water (100%)		5.1	0.3%
<b>Subtotals for Soil Survey Area</b>					<b>264.8</b>	<b>13.4%</b>
<b>Totals for Area of Interest</b>					<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
CeC	Christiana silt loam, 8 to 15 percent slopes	Severe	Christiana (100%)	Surface kw times slope times R index (0.98)	0.9	0.0%
CeD	Christiana silt loam, 15 to 40 percent slopes	Very Severe	Christiana (100%)	Surface kw times slope times R index (1.00)	0.5	0.0%
CfC	Christiana-Urban land complex, 8 to 15 percent slopes	Severe	Christiana (45%)	Surface kw times slope times R index (0.98)	0.9	0.0%
			Sunnyside (5%)	Surface kw times slope times R index (0.87)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
			Keyport (5%)	Surface kw times slope times R index (0.93)		
GeB	Galestown-Urban land complex, 0 to 8 percent slopes	Not rated	Urban land (39%)		0.6	0.0%
			Unnamed soils (10%)			
MvC	Muirkirk variant complex, 8 to 15 percent slopes	Moderate	Muirkirk variant (100%)	Surface kw times slope times R index (0.69)	0.6	0.0%
SgD	Sassafras-Urban land complex, 15 to 40 percent slopes	Very Severe	Sassafras (41%)	Surface kw times slope times R index (1.00)	0.8	0.0%
			Croom (5%)	Surface kw times slope times R index (1.00)		
			Chillum (5%)	Surface kw times slope times R index (1.00)		
SpB	Sunnyside-Urban land complex, 0 to 8 percent slopes	Moderate	Sunnyside (41%)	Surface kw times slope times R index (0.28)	0.7	0.0%
			Christiana (5%)	Surface kw times slope times R index (0.74)		
			Keyport (5%)	Surface kw times slope times R index (0.54)		
SpC	Sunnyside-Urban land complex, 8 to 15 percent slopes	Severe	Sunnyside (41%)	Surface kw times slope times R index (0.87)	0.3	0.0%
			Keyport (5%)	Surface kw times slope times R index (0.93)		
			Christiana (5%)	Surface kw times slope times R index (0.98)		
			Sunnyside (5%)	Surface kw times slope times R index (0.87)		
U1	Udorthents	Not rated	Udorthents (100%)		0.5	0.0%
U10	Udorthents, clayey, smoothed	Slight	Udorthents (100%)		0.8	0.0%
Ub	Urban land	Not rated	Urban land (100%)		49.3	2.5%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
UcB	Urban land-Beltsville complex, 0 to 8 percent slopes	Not rated	Urban land (70%)		2.0	0.1%
			Unnamed soils (5%)			
UeB	Urban land-Chillum complex, 0 to 8 percent slopes	Not rated	Urban land (70%)		1.7	0.1%
			Unnamed soils (5%)			
<b>Subtotals for Soil Survey Area</b>					<b>59.4</b>	<b>3.0%</b>
<b>Totals for Area of Interest</b>					<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
AeB	Adelphia-Holmdel-Urban land complex, 0 to 5 percent slopes	Not rated	Urban land (29%)		1.5	0.1%
			Wist (5%)			
			Shrewsbury (5%)			
ApB	Aquasco silt loam, 2 to 5 percent slopes	Moderate	Aquasco (75%)	Surface kw times slope times R index (0.54)	1.1	0.1%
BaA	Beltsville silt loam, 0 to 2 percent slopes	Slight	Beltsville (75%)		3.1	0.2%
			Aquasco (15%)			
			Woodstown (5%)			
			Matapeake (5%)			
BaB	Beltsville silt loam, 2 to 5 percent slopes	Moderate	Beltsville (70%)	Surface kw times slope times R index (0.27)	3.1	0.2%
			Reybold (10%)	Surface kw times slope times R index (0.27)		
			Lenni, undrained (5%)	Surface kw times slope times R index (0.27)		
BaC	Beltsville silt loam, 5 to 10 percent slopes	Severe	Beltsville (70%)	Surface kw times slope times R index (0.85)	5.3	0.3%
			Reybold (5%)	Surface kw times slope times R index (0.82)		
BuB	Beltsville-Urban land complex, 0 to 5 percent slopes	Slight	Beltsville (50%)		4.0	0.2%
			Lenni, undrained (5%)			
			Aquasco (5%)			

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
BuD	Beltsville-Urban land complex, 5 to 15 percent slopes	Slight	Beltsville (50%)		0.1	0.0%
CcC	Christiana-Downer complex, 5 to 10 percent slopes	Severe	Christiana (45%)	Surface kw times slope times R index (0.91)	84.9	4.3%
CcD	Christiana-Downer complex, 10 to 15 percent slopes	Severe	Christiana (50%)	Surface kw times slope times R index (0.98)	24.1	1.2%
CcE	Christiana-Downer complex, 15 to 25 percent slopes	Very Severe	Christiana (45%)	Surface kw times slope times R index (1.00)	15.5	0.8%
CcF	Christiana-Downer complex, 25 to 40 percent slopes	Very Severe	Christiana (45%)	Surface kw times slope times R index (1.00)	0.2	0.0%
CdD	Christiana-Downer-Urban land complex, 5 to 15 percent slopes	Not rated	Urban land (20%)		32.4	1.6%
			Croom (5%)			
			Issue (5%)			
			Galestown (5%)			
			Udorthents (5%)			
CdE	Christiana-Downer-Urban land complex, 15 to 25 percent slopes	Very Severe	Christiana (35%)	Surface kw times slope times R index (1.00)	0.1	0.0%
CF	Codorus and Hatboro soils, frequently flooded	Slight	Codorus (41%)		4.3	0.2%
			Hatboro (39%)			
CoD	Collington-Wist-Urban land complex, 5 to 15 percent slopes	Moderate	Collington (31%)	Surface kw times slope times R index (0.66)	0.1	0.0%
			Wist (29%)	Surface kw times slope times R index (0.75)		
			Tinton (5%)	Surface kw times slope times R index (0.75)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
CrB	Croom gravelly sandy loam, 2 to 5 percent slopes	Slight	Croom (80%)		0.4	0.0%
CrE	Croom gravelly sandy loam, 15 to 25 percent slopes	Severe	Croom (75%)	Surface kw times slope times R index (0.84)	0.6	0.0%
DoB	Downer-Hammonton complex, 2 to 5 percent slopes	Slight	Downer (55%)		27.6	1.4%
			Hammonton (25%)			
			Phalanx (10%)			
DoC	Downer-Hamonton complex, 5 to 10 percent slopes	Slight	Downer (50%)		6.0	0.3%
			Fort Mott (5%)			
			Patapsco (5%)			
DoD	Downer-Hammonton complex, 10 to 15 percent slopes	Moderate	Downer (50%)	Surface kw times slope times R index (0.42)	21.8	1.1%
EkA	Elkton silt loam, 0 to 2 percent slopes	Slight	Elkton (85%)		3.7	0.2%
			Piccowaxen (5%)			
			Lenni, undrained (5%)			
			Fallsington (5%)			
EwB	Evesboro-Downer complex 0 to 5 percent slopes	Slight	Evesboro (40%)		29.8	1.5%
			Downer (30%)			
EwC	Evesboro-Downer complex, 5 to 10 percent slopes	Slight	Evesboro (40%)		3.5	0.2%
			Downer (30%)			
EwD	Evesboro-Downer complex, 10 to 15 percent slopes	Moderate	Evesboro (40%)	Surface kw times slope times R index (0.42)	1.1	0.1%
			Downer (30%)	Surface kw times slope times R index (0.42)		
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	Slight	Fallsington, undrained (48%)		2.2	0.1%
			Fallsington, drained (27%)			
			Woodstown (9%)			

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
			Hambrook (8%)			
			Hammonton (8%)			
GbB	Galestown-Urban land complex, 0 to 5 percent slopes	Slight	Galestown (60%)		17.6	0.9%
HaA	Hammonton loamy sand, 0 to 2 percent slopes	Slight	Hammonton (75%)		2.1	0.1%
Iu	Issue-Urban land complex, occasionally flooded	Slight	Issue (60%)		3.5	0.2%
LY	Longmarsh and Indiantown soils, frequently flooded	Slight	Longmarsh (65%)		9.1	0.5%
			Indiantown (25%)			
PT	Pits, gravel	Not rated	Pits, gravel (100%)		85.1	4.3%
RcA	Russett-Christiana complex, 0 to 2 percent slopes	Slight	Russett (45%)		8.8	0.4%
			Christiana (25%)			
			Phalanx (5%)			
RcB	Russett-Christiana complex, 2 to 5 percent slopes	Moderate	Russett (40%)	Surface kw times slope times R index (0.04)	121.9	6.2%
			Christiana (35%)	Surface kw times slope times R index (0.54)		
RuB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	Moderate	Russett (31%)	Surface kw times slope times R index (0.04)	77.6	3.9%
			Christiana (30%)	Surface kw times slope times R index (0.54)		
SaaB	Sassafras sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	Slight	Sassafras (80%)		1.9	0.1%
			Woodstown (4%)			
			Ingleside (4%)			
			Downer (4%)			
			Fallsington, drained (4%)			
SaaC	Sassafras sandy loam, 5 to 10 percent slopes,	Moderate	Sassafras (80%)	Surface kw times slope times R index (0.34)	4.5	0.2%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
	Northern Coastal Plain		Ingleside (4%)	Surface kw times slope times R index (0.09)		
			Aura (4%)	Surface kw times slope times R index (0.34)		
			Downer (4%)	Surface kw times slope times R index (0.19)		
			Woodstown (4%)	Surface kw times slope times R index (0.09)		
ScC	Sassafras-Croom complex, 5 to 10 percent slopes	Moderate	Sassafras (45%)	Surface kw times slope times R index (0.73)	7.3	0.4%
			Croom (35%)	Surface kw times slope times R index (0.34)		
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	Slight	Sassafras (45%)		0.0	0.0%
			Woodstown (5%)			
SOF	Sassafras and Croom soils, 25 to 40 percent slopes	Severe	Sassafras (40%)	Surface kw times slope times R index (0.96)	1.5	0.1%
UdaF	Udorthents, highway, 0 to 65 percent slopes	Not rated	Udorthents, highway (100%)		26.5	1.3%
UdbB	Udorthents, loamy, 0 to 5 percent slopes	Slight	Udorthents, loamy (90%)		55.6	2.8%
UdbD	Udorthents, loamy, 5 to 15 percent slopes	Moderate	Udorthents, loamy (90%)	Surface kw times slope times R index (0.66)	1.0	0.1%
UdbE	Udorthents, loamy, 15 to 25 percent slopes	Severe	Udorthents, loamy (100%)	Surface kw times slope times R index (0.87)	0.3	0.0%
UdcD	Udorthents, reclaimed clay pits, 5 to 15 percent slopes	Severe	Udorthents, reclaimed clay pits (95%)	Surface kw times slope times R index (0.80)	0.5	0.0%
UdgB	Udorthents, reclaimed gravel pits, 0 to 5 percent slopes	Slight	Udorthents, reclaimed gravel pits (100%)		175.3	8.8%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
UdgD	Udorthents, reclaimed gravel pits, 5 to 15 percent slopes	Moderate	Udorthents, reclaimed gravel pits (100%)	Surface kw times slope times R index (0.56)	46.5	2.3%
UdgE	Udorthents, reclaimed gravel pits, 15 to 25 percent slopes	Severe	Udorthents, reclaimed gravel pits (100%)	Surface kw times slope times R index (0.84)	12.6	0.6%
UduB	Udorthents-Urban land complex, 0 to 5 percent slopes	Slight	Udorthents, reclaimed gravel pits (70%)		14.1	0.7%
UduD	Udorthents-Urban land complex, 5 to 15 percent slopes	Moderate	Udorthents, reclaimed gravel pits (55%)	Surface kw times slope times R index (0.56)	10.7	0.5%
Un	Urban land	Not rated	Urban land (100%)		1.0	0.1%
UraB	Urban land-Adelphia complex, 0 to 5 percent slopes	Not rated	Urban land (75%)		14.2	0.7%
			Holmdel (5%)			
			Shrewsbury (5%)			
UrdB	Urban land-Collington-Wist complex, 0 to 5 percent slopes	Not rated	Urban land (75%)		23.3	1.2%
UreB	Urban land-Elsinboro complex, 0 to 5 percent slopes	Not rated	Urban land (80%)		4.2	0.2%
UrrB	Urban land-Russett-Christiana complex, 0 to 5 percent slopes	Not rated	Urban land (80%)		23.0	1.2%
W	Water	Not rated	Water (100%)		0.3	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	Slight	Woodstown (81%)		6.5	0.3%
			Fallsington, occasionally ponded (7%)			
			Hammonton (7%)			

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
Zn	Zekiah-Urban land complex, frequently flooded	Not rated	Zekiah (40%)		1.0	0.0%
			Urban land (30%)			
			Fallsington (15%)			
			Issue (15%)			
ZS	Zekiah and Issue soils, frequently flooded	Slight	Zekiah (41%)		37.7	1.9%
			Issue (39%)			
			Widewater (10%)			
			Longmarsh (5%)			
			Fallsington (5%)			
<b>Subtotals for Soil Survey Area</b>					<b>1,071.4</b>	<b>54.1%</b>
<b>Totals for Area of Interest</b>					<b>1,981.1</b>	<b>100.0%</b>

Rating	Acres in AOI	Percent of AOI
Slight	651.1	32.9%
Moderate	504.4	25.5%
Severe	297.1	15.0%
Very Severe	28.0	1.4%
Null or Not Rated	500.5	25.3%
<b>Totals for Area of Interest</b>	<b>1,981.1</b>	<b>100.0%</b>

## Description

The ratings in this interpretation indicate the hazard of soil loss from off-road and off-trail areas after disturbance activities that expose the soil surface. The ratings are based on slope, soil erosion factor K, and an index of rainfall erosivity (R). The soil loss is caused by sheet or rill erosion in off-road or off-trail areas where 50 to 75 percent of the surface has been exposed by logging, grazing, mining, or other kinds of disturbance.

The ratings are both verbal and numerical. The hazard is described as "slight," "moderate," "severe," or "very severe." A rating of "slight" indicates that erosion is unlikely under ordinary climatic conditions; "moderate" indicates that some erosion is likely and that erosion-control measures may be needed; "severe" indicates that erosion is very likely and that erosion-control measures, including revegetation of bare areas, are advised; and "very severe" indicates that significant erosion is expected, loss of soil productivity and off-site damage are likely, and erosion-control measures are costly and generally impractical.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the specified aspect of forestland management (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

## Rating Options

*Aggregation Method:* Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

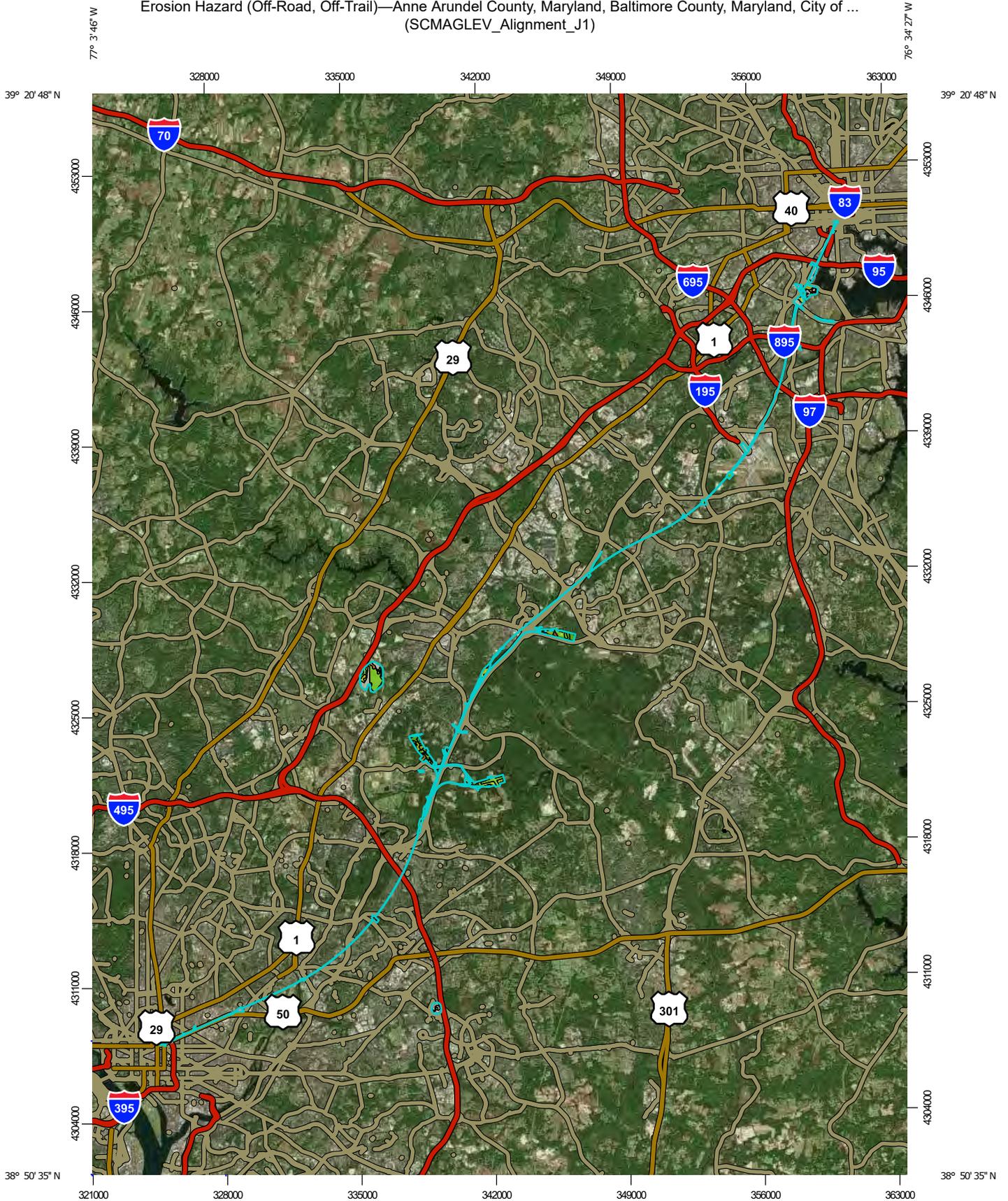
*Component Percent Cutoff: None Specified*

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

*Tie-break Rule: Higher*

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Erosion Hazard (Off-Road, Off-Trail)—Anne Arundel County, Maryland, Baltimore County, Maryland, City of ...  
(SCMAGLEV\_Alignment\_J1)



Map Scale: 1:272,000 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84



## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

#### Soil Rating Polygons

 Very severe  
 Severe  
 Moderate  
 Slight  
 Not rated or not available

#### Soil Rating Lines

 Very severe  
 Severe  
 Moderate  
 Slight  
 Not rated or not available

#### Soil Rating Points

 Very severe  
 Severe  
 Moderate  
 Slight  
 Not rated or not available

### Water Features

 Streams and Canals

### Transportation

 Rails  
 Interstate Highways

 US Routes  
 Major Roads  
 Local Roads

### Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Anne Arundel County, Maryland  
 Survey Area Data: Version 19, Jun 11, 2020

Soil Survey Area: Baltimore County, Maryland  
 Survey Area Data: Version 15, Jun 11, 2020

Soil Survey Area: City of Baltimore, Maryland  
 Survey Area Data: Version 16, Jun 11, 2020

Soil Survey Area: District of Columbia  
 Survey Area Data: Version 14, Jun 11, 2020

Soil Survey Area: Prince George's County, Maryland  
 Survey Area Data: Version 18, Jun 11, 2020

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 1, 1999—Dec 31, 2003

## MAP LEGEND

## MAP INFORMATION

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Erosion Hazard (Off-Road, Off-Trail)

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
CbB	Chillum-Urban land complex, 0 to 5 percent slopes	Not rated	Urban land (39%)		0.0	0.0%
			Russett (10%)			
			Beltsville (10%)			
CcrB	Christiana-Sassafras complex, 2 to 5 percent slopes	Moderate	Christiana (55%)	Surface kw times slope times R index (0.74)	36.4	1.9%
CcrC	Christiana-Sassafras complex, 5 to 10 percent slopes	Severe	Christiana (55%)	Surface kw times slope times R index (0.91)	38.1	2.0%
CdB	Christiana-Sassafras-Urban land complex, 0 to 5 percent slopes	Moderate	Christiana (35%)	Surface kw times slope times R index (0.54)	1.3	0.1%
CdD	Christiana-Sassafras-Urban land complex, 5 to 15 percent slopes	Severe	Christiana (35%)	Surface kw times slope times R index (0.95)	2.1	0.1%
CHA	Codorus and Hatboro soils, 0 to 2 percent slopes, frequently flooded	Slight	Codorus (41%)		2.1	0.1%
			Hatboro (39%)			
CTA	Comus and Codorus soils, 0 to 2 percent slopes, occasionally flooded	Slight	Comus (50%)		3.5	0.2%
			Codorus (35%)			
DvB	Downer-Hammonton complex, 2 to 5 percent slopes	Slight	Downer (55%)		12.5	0.7%
			Hammonton (25%)			
			Phalanx (10%)			

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
DvD	Downer-Hammonton complex, 10 to 15 percent slopes	Moderate	Downer (50%)	Surface kw times slope times R index (0.42)	0.0	0.0%
DwB	Downer-Hammonton-Urban land complex, 0 to 5 percent slopes	Slight	Downer (35%)		8.7	0.5%
			Hammonton (25%)			
DxC	Downer-Phalanx complex, 5 to 10 percent slopes	Slight	Downer (45%)		3.7	0.2%
DxD	Downer-Phalanx complex, 10 to 15 percent slopes	Moderate	Downer (45%)	Surface kw times slope times R index (0.42)	0.6	0.0%
EuD	Evesboro-Galestown-Urban land complex, 5 to 15 percent slopes	Moderate	Evesboro (35%)	Surface kw times slope times R index (0.18)	4.9	0.3%
			Galestown (30%)	Surface kw times slope times R index (0.18)		
EuE	Evesboro-Galestown-Urban land complex, 15 to 25 percent slopes	Moderate	Evesboro (35%)	Surface kw times slope times R index (0.75)	1.9	0.1%
			Galestown (30%)	Surface kw times slope times R index (0.75)		
EVC	Evesboro and Galestown soils, 5 to 10 percent slopes	Slight	Evesboro (45%)		2.1	0.1%
			Galestown (30%)			
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	Slight	Fallsington, undrained (48%)		62.0	3.3%
			Fallsington, drained (27%)			
			Woodstown (9%)			
			Hambrook (8%)			
			Hammonton (8%)			
GaB	Galestown loamy sand, 0 to 5 percent slopes	Slight	Galestown (75%)		0.9	0.0%
MpB	Matapeake-Urban land complex, 0 to	Moderate	Matapeake (50%)	Surface kw times slope times R index (0.41)	0.5	0.0%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
	5 percent slopes		Marr (5%)	Surface kw times slope times R index (0.14)		
MpD	Matapeake-Urban land complex, 5 to 15 percent slopes	Severe	Matapeake (50%)	Surface kw times slope times R index (0.93)	1.0	0.1%
			Marr (5%)	Surface kw times slope times R index (0.86)		
MZA	Mispillion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	Slight	Mispillion (45%)		1.7	0.1%
			Transquaking (40%)			
			Hydraquents (15%)			
PeB	Patapsco-Evesboro-Fort Mott complex, 0 to 5 percent slopes	Slight	Patapsco (35%)		1.4	0.1%
			Evesboro (20%)			
			Fort Mott (20%)			
			Pepperbox (5%)			
PfB	Patapsco-Fort Mott complex, 0 to 5 percent slopes	Slight	Patapsco (45%)		9.7	0.5%
			Fort Mott (30%)			
PgB	Patapsco-Fort Mott-Urban land complex, 0 to 5 percent slopes	Slight	Patapsco (35%)		24.1	1.3%
			Fort Mott (25%)			
			Pepperbox (5%)			
RhB	Russett-Christiana-Hambrook complex, 0 to 5 percent slopes	Moderate	Russett (30%)	Surface kw times slope times R index (0.04)	36.2	1.9%
			Christiana (25%)	Surface kw times slope times R index (0.54)		
			Hambrook (20%)	Surface kw times slope times R index (0.14)		
RhC	Russett-Christiana-Hambrook complex, 5 to 10 percent slopes	Severe	Russett (30%)	Surface kw times slope times R index (0.78)	20.0	1.1%
			Christiana (25%)	Surface kw times slope times R index (0.91)		
			Hambrook (20%)	Surface kw times slope times R index (0.81)		
RhD	Russett-Christiana-Hambrook complex, 10 to	Severe	Russett (30%)	Surface kw times slope times R index (0.89)	7.0	0.4%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
	15 percent slopes		Christiana (25%)	Surface kw times slope times R index (0.98)		
			Hambrook (20%)	Surface kw times slope times R index (0.90)		
RkB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	Moderate	Russett (30%)	Surface kw times slope times R index (0.04)	4.3	0.2%
			Christiana (25%)	Surface kw times slope times R index (0.54)		
RyB	Russett-Urban land complex, 0 to 5 percent slopes	Moderate	Russett (40%)	Surface kw times slope times R index (0.04)	2.0	0.1%
			Christiana (10%)	Surface kw times slope times R index (0.41)		
SaB	Sassafras fine sandy loam, 2 to 5 percent slopes	Slight	Sassafras (75%)		21.0	1.1%
			Downer (5%)			
			Phalanx (5%)			
			Hambrook (5%)			
			Woodstown (5%)			
SfB	Sassafras loam, 2 to 5 percent slopes	Moderate	Sassafras (80%)	Surface kw times slope times R index (0.41)	1.4	0.1%
			Woodstown (4%)	Surface kw times slope times R index (0.41)		
			Aura (4%)	Surface kw times slope times R index (0.34)		
ShA	Sassafras-Hambrook complex, 0 to 2 percent slopes	Slight	Sassafras (45%)		12.2	0.6%
			Hambrook (40%)			
SME	Sassafras and Croom soils, 15 to 25 percent slopes	Severe	Sassafras (40%)	Surface kw times slope times R index (0.84)	1.4	0.1%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	Slight	Sassafras (45%)		0.7	0.0%
			Woodstown (5%)			
SnD	Sassafras-Urban land complex, 5 to 15 percent slopes	Moderate	Sassafras (55%)	Surface kw times slope times R index (0.56)	4.3	0.2%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
			Phalanx (5%)	Surface kw times slope times R index (0.75)		
UoB	Udorthents, loamy, 0 to 5 percent slopes	Slight	Udorthents, loamy (90%)		6.2	0.3%
UoD	Udorthents, loamy, 5 to 15 percent slopes	Moderate	Udorthents (100%)	Surface kw times slope times R index (0.46)	6.1	0.3%
UoE	Udorthents, loamy, 15 to 25 percent slopes	Severe	Udorthents, loamy (100%)	Surface kw times slope times R index (0.87)	10.8	0.6%
Uz	Urban land	Not rated	Urban land (100%)		49.4	2.6%
W	Water	Not rated	Water (100%)		1.5	0.1%
WdaA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Coastal Plain	Slight	Woodstown (81%)		0.8	0.0%
			Fallsington (7%)			
			Hammonton (7%)			
			Hambrook (5%)			
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	Slight	Woodstown (81%)		1.5	0.1%
			Fallsington, occasionally ponded (7%)			
			Hammonton (7%)			
WrB	Woodstown-Urban land complex, 0 to 5 percent slopes	Moderate	Woodstown (50%)	Surface kw times slope times R index (0.04)	0.3	0.0%
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	Slight	Zekiah (41%)		32.1	1.7%
			Issue (39%)			
			Widewater (10%)			
			Longmarsh (5%)			
			Fallsington (5%)			
<b>Subtotals for Soil Survey Area</b>					<b>438.4</b>	<b>23.2%</b>
<b>Totals for Area of Interest</b>					<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
BfB	Beltsville-Urban land complex, 0 to 5 percent slopes	Slight	Beltsville (50%)		1.8	0.1%
			Lenni, undrained (5%)			
			Aquasco (5%)			
CfA	Codorus silt loams, 0 to 3 percent slopes	Slight	Codorus (85%)		0.2	0.0%
			Hatboro (15%)			
CoD	Croom-Urban land complex, 5 to 15 percent slopes	Severe	Croom (70%)	Surface kw times slope times R index (0.89)	0.5	0.0%
FBA	Fallsington-Urban land complex, 0 to 2 percent slopes	Slight	Fallsington (50%)		0.3	0.0%
			Comus (5%)			
KuB	Keyport-Urban land complex, 0 to 5 percent slopes	Moderate	Keyport (65%)	Surface kw times slope times R index (0.54)	1.2	0.1%
MT	Mispillion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	Slight	Mispillion (41%)		0.2	0.0%
			Transquaking (39%)			
			Sulfaquents (10%)			
RuB	Russett-Urban land complex, 0 to 5 percent slopes	Moderate	Russett (40%)	Surface kw times slope times R index (0.04)	1.4	0.1%
			Christiana (10%)	Surface kw times slope times R index (0.41)		
RuD	Russett-Urban land complex, 5 to 15 percent slopes	Severe	Russett (40%)	Surface kw times slope times R index (0.87)	5.4	0.3%
			Christiana (10%)	Surface kw times slope times R index (0.96)		
SfB	Sassafras-Urban land complex, 0 to 5 percent slopes	Slight	Sassafras (45%)		0.2	0.0%
			Woodstown (5%)			
UaD	Udorthents, 15 to 25 percent slopes	Severe	Udorthents (100%)	Surface kw times slope times R index (0.91)	0.2	0.0%
UcF	Udorthents, highway, 0 to 65 percent slopes	Not rated	Udorthents (100%)		1.5	0.1%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
Ur	Urban land, 0 to 8 percent slopes	Not rated	Urban land (85%)		26.9	1.4%
W	Water	Not rated	Water (100%)		0.1	0.0%
<b>Subtotals for Soil Survey Area</b>					<b>39.8</b>	<b>2.1%</b>
<b>Totals for Area of Interest</b>					<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
7UC	Christiana-Urban land complex, 8 to 15 percent slopes	Severe	Christiana (50%)	Surface kw times slope times R index (0.93)	1.5	0.1%
			SUNNYSIDE (5%)	Surface kw times slope times R index (0.84)		
15UB	Keyport-Urban land complex, 0 to 8 percent slopes	Moderate	Keyport (41%)	Surface kw times slope times R index (0.66)	0.1	0.0%
			ELKTON (5%)	Surface kw times slope times R index (0.41)		
			BELTSVILLE (5%)	Surface kw times slope times R index (0.66)		
			CHRISTIANA (5%)	Surface kw times slope times R index (0.66)		
			SUNNYSIDE (2%)	Surface kw times slope times R index (0.14)		
25B	Mattapex silt loam, 2 to 5 percent slopes, northern coastal plain	Moderate	Mattapex (80%)	Surface kw times slope times R index (0.54)	5.0	0.3%
33UB	Urban land-Sunnyside complex, 0 to 8 percent slopes	Not rated	Urban land (75%)		22.3	1.2%
			Unnamed soils (3%)			
34UB	Urban land-Sunnyside-Christiana complex, 0 to 8 percent slopes	Not rated	Urban land (40%)		4.7	0.3%
			Unnamed soils (15%)			
34UC	Urban land-Sunnyside-	Not rated	Urban land (40%)		2.5	0.1%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
	Christiana complex, 8 to 15 percent slopes		Unnamed soils (20%)			
35C	Sunnyside fine sandy loam, 8 to 15 percent slopes	Severe	Sunnyside (100%)	Surface kw times slope times R index (0.87)	1.7	0.1%
37	Sulfaquepts, frequently flooded	Not rated	Sulfaquepts (100%)		1.1	0.1%
38C	Udorthents, clayey, very deep, 0 to 15 percent slopes	Severe	Udorthents (100%)	Surface kw times slope times R index (0.78)	21.7	1.1%
39C	Udorthents, sanitary landfill, 0 to 15 percent slopes	Not rated	Udorthents (100%)		1.1	0.1%
40E	Udorthents, loamy, very deep, 15 to 60 percent slopes	Very Severe	Udorthents (100%)	Surface kw times slope times R index (1.00)	11.0	0.6%
42E	Udorthents, smoothed, 0 to 35 percent slopes	Moderate	Udorthents (100%)	Surface kw times slope times R index (0.69)	64.7	3.4%
43U	Urban land-Udorthents complex, occasionally flooded	Not rated	Urban land (65%) Unnamed soils (3%)		3.4	0.2%
44UC	Urban land, 0 to 15 percent slopes	Not rated	Urban land (100%)		118.8	6.3%
W	Water	Not rated	Water (100%)		5.1	0.3%
<b>Subtotals for Soil Survey Area</b>					<b>264.8</b>	<b>14.0%</b>
<b>Totals for Area of Interest</b>					<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
CeC	Christiana silt loam, 8 to 15 percent slopes	Severe	Christiana (100%)	Surface kw times slope times R index (0.98)	0.9	0.0%
CeD	Christiana silt loam, 15 to 40 percent slopes	Very Severe	Christiana (100%)	Surface kw times slope times R index (1.00)	0.5	0.0%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
CfC	Christiana-Urban land complex, 8 to 15 percent slopes	Severe	Christiana (45%)	Surface kw times slope times R index (0.98)	0.9	0.0%
			Sunnyside (5%)	Surface kw times slope times R index (0.87)		
			Keyport (5%)	Surface kw times slope times R index (0.93)		
GeB	Galestown-Urban land complex, 0 to 8 percent slopes	Not rated	Urban land (39%)		0.6	0.0%
			Unnamed soils (10%)			
MvC	Muirkirk variant complex, 8 to 15 percent slopes	Moderate	Muirkirk variant (100%)	Surface kw times slope times R index (0.69)	0.6	0.0%
SgD	Sassafras-Urban land complex, 15 to 40 percent slopes	Very Severe	Sassafras (41%)	Surface kw times slope times R index (1.00)	0.8	0.0%
			Croom (5%)	Surface kw times slope times R index (1.00)		
			Chillum (5%)	Surface kw times slope times R index (1.00)		
SpB	Sunnyside-Urban land complex, 0 to 8 percent slopes	Moderate	Sunnyside (41%)	Surface kw times slope times R index (0.28)	0.7	0.0%
			Christiana (5%)	Surface kw times slope times R index (0.74)		
			Keyport (5%)	Surface kw times slope times R index (0.54)		
SpC	Sunnyside-Urban land complex, 8 to 15 percent slopes	Severe	Sunnyside (41%)	Surface kw times slope times R index (0.87)	0.3	0.0%
			Keyport (5%)	Surface kw times slope times R index (0.93)		
			Christiana (5%)	Surface kw times slope times R index (0.98)		
			Sunnyside (5%)	Surface kw times slope times R index (0.87)		
U1	Udorthents	Not rated	Udorthents (100%)		0.5	0.0%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
U10	Udorthents, clayey, smoothed	Slight	Udorthents (100%)		0.8	0.0%
Ub	Urban land	Not rated	Urban land (100%)		49.3	2.6%
UcB	Urban land-Beltsville complex, 0 to 8 percent slopes	Not rated	Urban land (70%)		2.0	0.1%
			Unnamed soils (5%)			
UeB	Urban land-Chillum complex, 0 to 8 percent slopes	Not rated	Urban land (70%)		1.7	0.1%
			Unnamed soils (5%)			
<b>Subtotals for Soil Survey Area</b>					<b>59.4</b>	<b>3.1%</b>
<b>Totals for Area of Interest</b>					<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
AeB	Adelphia-Holmdel-Urban land complex, 0 to 5 percent slopes	Not rated	Urban land (29%)		1.5	0.1%
			Wist (5%)			
			Shrewsbury (5%)			
ApB	Aquasco silt loam, 2 to 5 percent slopes	Moderate	Aquasco (75%)	Surface kw times slope times R index (0.54)	0.7	0.0%
BaB	Beltsville silt loam, 2 to 5 percent slopes	Moderate	Beltsville (70%)	Surface kw times slope times R index (0.27)	9.5	0.5%
			Reybold (10%)	Surface kw times slope times R index (0.27)		
			Lenni, undrained (5%)	Surface kw times slope times R index (0.27)		
BaC	Beltsville silt loam, 5 to 10 percent slopes	Severe	Beltsville (70%)	Surface kw times slope times R index (0.85)	11.7	0.6%
			Reybold (5%)	Surface kw times slope times R index (0.82)		
CcC	Christiana-Downer complex, 5 to 10 percent slopes	Severe	Christiana (45%)	Surface kw times slope times R index (0.91)	85.5	4.5%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
CcD	Christiana-Downer complex, 10 to 15 percent slopes	Severe	Christiana (50%)	Surface kw times slope times R index (0.98)	24.9	1.3%
CcE	Christiana-Downer complex, 15 to 25 percent slopes	Very Severe	Christiana (45%)	Surface kw times slope times R index (1.00)	15.0	0.8%
CcF	Christiana-Downer complex, 25 to 40 percent slopes	Very Severe	Christiana (45%)	Surface kw times slope times R index (1.00)	0.1	0.0%
CdD	Christiana-Downer-Urban land complex, 5 to 15 percent slopes	Not rated	Urban land (20%)		32.5	1.7%
			Croom (5%)			
			Issue (5%)			
			Galestown (5%)			
			Udorthents (5%)			
CdE	Christiana-Downer-Urban land complex, 15 to 25 percent slopes	Very Severe	Christiana (35%)	Surface kw times slope times R index (1.00)	0.1	0.0%
CF	Codorus and Hatboro soils, frequently flooded	Slight	Codorus (41%)		8.7	0.5%
			Hatboro (39%)			
CoD	Collington-Wist-Urban land complex, 5 to 15 percent slopes	Moderate	Collington (31%)	Surface kw times slope times R index (0.66)	0.1	0.0%
			Wist (29%)	Surface kw times slope times R index (0.75)		
			Tinton (5%)	Surface kw times slope times R index (0.75)		
CrB	Croom gravelly sandy loam, 2 to 5 percent slopes	Slight	Croom (80%)		0.4	0.0%
CrC	Croom gravelly sandy loam, 5 to 10 percent slopes	Moderate	Croom (75%)	Surface kw times slope times R index (0.34)	0.6	0.0%
CrD	Croom gravelly sandy loam, 10 to 15 percent slopes	Severe	Croom (75%)	Surface kw times slope times R index (0.76)	2.5	0.1%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
CrE	Croom gravelly sandy loam, 15 to 25 percent slopes	Severe	Croom (75%)	Surface kw times slope times R index (0.84)	0.6	0.0%
DoB	Downer-Hammonton complex, 2 to 5 percent slopes	Slight	Downer (55%)		26.6	1.4%
			Hammonton (25%)			
			Phalanx (10%)			
DoC	Downer-Hamonton complex, 5 to 10 percent slopes	Slight	Downer (50%)		1.2	0.1%
			Fort Mott (5%)			
			Patapsco (5%)			
DoD	Downer-Hammonton complex, 10 to 15 percent slopes	Moderate	Downer (50%)	Surface kw times slope times R index (0.42)	21.7	1.1%
EkA	Elkton silt loam, 0 to 2 percent slopes	Slight	Elkton (85%)		5.3	0.3%
			Piccowaxen (5%)			
			Lenni, undrained (5%)			
			Fallsington (5%)			
EwB	Evesboro-Downer complex 0 to 5 percent slopes	Slight	Evesboro (40%)		24.6	1.3%
			Downer (30%)			
EwC	Evesboro-Downer complex, 5 to 10 percent slopes	Slight	Evesboro (40%)		3.3	0.2%
			Downer (30%)			
EwD	Evesboro-Downer complex, 10 to 15 percent slopes	Moderate	Evesboro (40%)	Surface kw times slope times R index (0.42)	1.1	0.1%
			Downer (30%)	Surface kw times slope times R index (0.42)		
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	Slight	Fallsington, undrained (48%)		2.4	0.1%
			Fallsington, drained (27%)			
			Woodstown (9%)			
			Hambrook (8%)			
			Hammonton (8%)			

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
GbB	Galestown-Urban land complex, 0 to 5 percent slopes	Slight	Galestown (60%)		17.6	0.9%
HaA	Hammonton loamy sand, 0 to 2 percent slopes	Slight	Hammonton (75%)		2.3	0.1%
Iu	Issue-Urban land complex, occasionally flooded	Slight	Issue (60%)		2.2	0.1%
LY	Longmarsh and Indiantown soils, frequently flooded	Slight	Longmarsh (65%)		8.5	0.4%
			Indiantown (25%)			
PT	Pits, gravel	Not rated	Pits, gravel (100%)		85.1	4.5%
RcA	Russett-Christiana complex, 0 to 2 percent slopes	Slight	Russett (45%)		8.1	0.4%
			Christiana (25%)			
			Phalanx (5%)			
RcB	Russett-Christiana complex, 2 to 5 percent slopes	Moderate	Russett (40%)	Surface kw times slope times R index (0.04)	109.6	5.8%
			Christiana (35%)	Surface kw times slope times R index (0.54)		
RuB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	Moderate	Russett (31%)	Surface kw times slope times R index (0.04)	86.2	4.6%
			Christiana (30%)	Surface kw times slope times R index (0.54)		
SaaB	Sassafras sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	Slight	Sassafras (80%)		3.4	0.2%
			Woodstown (4%)			
			Ingleside (4%)			
			Downer (4%)			
			Fallsington, drained (4%)			
SaaC	Sassafras sandy loam, 5 to 10 percent slopes, Northern Coastal Plain	Moderate	Sassafras (80%)	Surface kw times slope times R index (0.34)	7.4	0.4%
			Ingleside (4%)	Surface kw times slope times R index (0.09)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
			Aura (4%)	Surface kw times slope times R index (0.34)		
			Downer (4%)	Surface kw times slope times R index (0.19)		
			Woodstown (4%)	Surface kw times slope times R index (0.09)		
ScC	Sassafras-Croom complex, 5 to 10 percent slopes	Moderate	Sassafras (45%)	Surface kw times slope times R index (0.73)	4.8	0.3%
			Croom (35%)	Surface kw times slope times R index (0.34)		
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	Slight	Sassafras (45%)		0.3	0.0%
			Woodstown (5%)			
SOF	Sassafras and Croom soils, 25 to 40 percent slopes	Severe	Sassafras (40%)	Surface kw times slope times R index (0.96)	0.0	0.0%
UdaF	Udortheints, highway, 0 to 65 percent slopes	Not rated	Udortheints, highway (100%)		26.6	1.4%
UdbB	Udortheints, loamy, 0 to 5 percent slopes	Slight	Udortheints, loamy (90%)		55.7	2.9%
UdbD	Udortheints, loamy, 5 to 15 percent slopes	Moderate	Udortheints, loamy (90%)	Surface kw times slope times R index (0.66)	1.0	0.1%
UdbE	Udortheints, loamy, 15 to 25 percent slopes	Severe	Udortheints, loamy (100%)	Surface kw times slope times R index (0.87)	0.2	0.0%
UdgB	Udortheints, reclaimed gravel pits, 0 to 5 percent slopes	Slight	Udortheints, reclaimed gravel pits (100%)		175.3	9.3%
UgdD	Udortheints, reclaimed gravel pits, 5 to 15 percent slopes	Moderate	Udortheints, reclaimed gravel pits (100%)	Surface kw times slope times R index (0.56)	46.5	2.5%
UdgE	Udortheints, reclaimed gravel pits, 15 to 25 percent slopes	Severe	Udortheints, reclaimed gravel pits (100%)	Surface kw times slope times R index (0.84)	12.6	0.7%

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
UduB	Udorthents-Urban land complex, 0 to 5 percent slopes	Slight	Udorthents, reclaimed gravel pits (70%)		15.7	0.8%
UduD	Udorthents-Urban land complex, 5 to 15 percent slopes	Moderate	Udorthents, reclaimed gravel pits (55%)	Surface kw times slope times R index (0.56)	10.9	0.6%
Un	Urban land	Not rated	Urban land (100%)		0.6	0.0%
UraB	Urban land-Adelphia complex, 0 to 5 percent slopes	Not rated	Urban land (75%)		14.2	0.8%
			Holmdel (5%)			
			Shrewsbury (5%)			
UrdB	Urban land-Collington-Wist complex, 0 to 5 percent slopes	Not rated	Urban land (75%)		23.3	1.2%
UreB	Urban land-Elsinboro complex, 0 to 5 percent slopes	Not rated	Urban land (80%)		4.0	0.2%
UrrB	Urban land-Russett-Christiana complex, 0 to 5 percent slopes	Not rated	Urban land (80%)		23.6	1.2%
Urza	Urban land-Zekiah complex, 0 to 2 percent slopes, frequently flooded	Not rated	Urban land (80%)		0.7	0.0%
			Issue (5%)			
W	Water	Not rated	Water (100%)		0.3	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	Slight	Woodstown (81%)		7.7	0.4%
			Fallsington, occasionally ponded (7%)			
			Hammonton (7%)			

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
WuB	Woodstown-Urban land complex, 0 to 5 percent slopes	Moderate	Woodstown (50%)	Surface kw times slope times R index (0.04)	1.6	0.1%
Zn	Zekiah-Urban land complex, frequently flooded	Not rated	Zekiah (40%)		1.0	0.1%
			Urban land (30%)			
			Fallsington (15%)			
			Issue (15%)			
ZS	Zekiah and Issue soils, frequently flooded	Slight	Zekiah (41%)		53.7	2.8%
			Issue (39%)			
			Widewater (10%)			
			Longmarsh (5%)			
			Fallsington (5%)			
<b>Subtotals for Soil Survey Area</b>					<b>1,091.2</b>	<b>57.6%</b>
<b>Totals for Area of Interest</b>					<b>1,893.6</b>	<b>100.0%</b>

Rating	Acres in AOI	Percent of AOI
Slight	633.5	33.5%
Moderate	475.3	25.1%
Severe	251.6	13.3%
Very Severe	27.5	1.5%
Null or Not Rated	505.8	26.7%
<b>Totals for Area of Interest</b>	<b>1,893.6</b>	<b>100.0%</b>

## Description

The ratings in this interpretation indicate the hazard of soil loss from off-road and off-trail areas after disturbance activities that expose the soil surface. The ratings are based on slope, soil erosion factor K, and an index of rainfall erosivity (R). The soil loss is caused by sheet or rill erosion in off-road or off-trail areas where 50 to 75 percent of the surface has been exposed by logging, grazing, mining, or other kinds of disturbance.

The ratings are both verbal and numerical. The hazard is described as "slight," "moderate," "severe," or "very severe." A rating of "slight" indicates that erosion is unlikely under ordinary climatic conditions; "moderate" indicates that some erosion is likely and that erosion-control measures may be needed; "severe" indicates that erosion is very likely and that erosion-control measures, including revegetation of bare areas, are advised; and "very severe" indicates that significant erosion is expected, loss of soil productivity and off-site damage are likely, and erosion-control measures are costly and generally impractical.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the specified aspect of forestland management (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

## Rating Options

*Aggregation Method:* Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

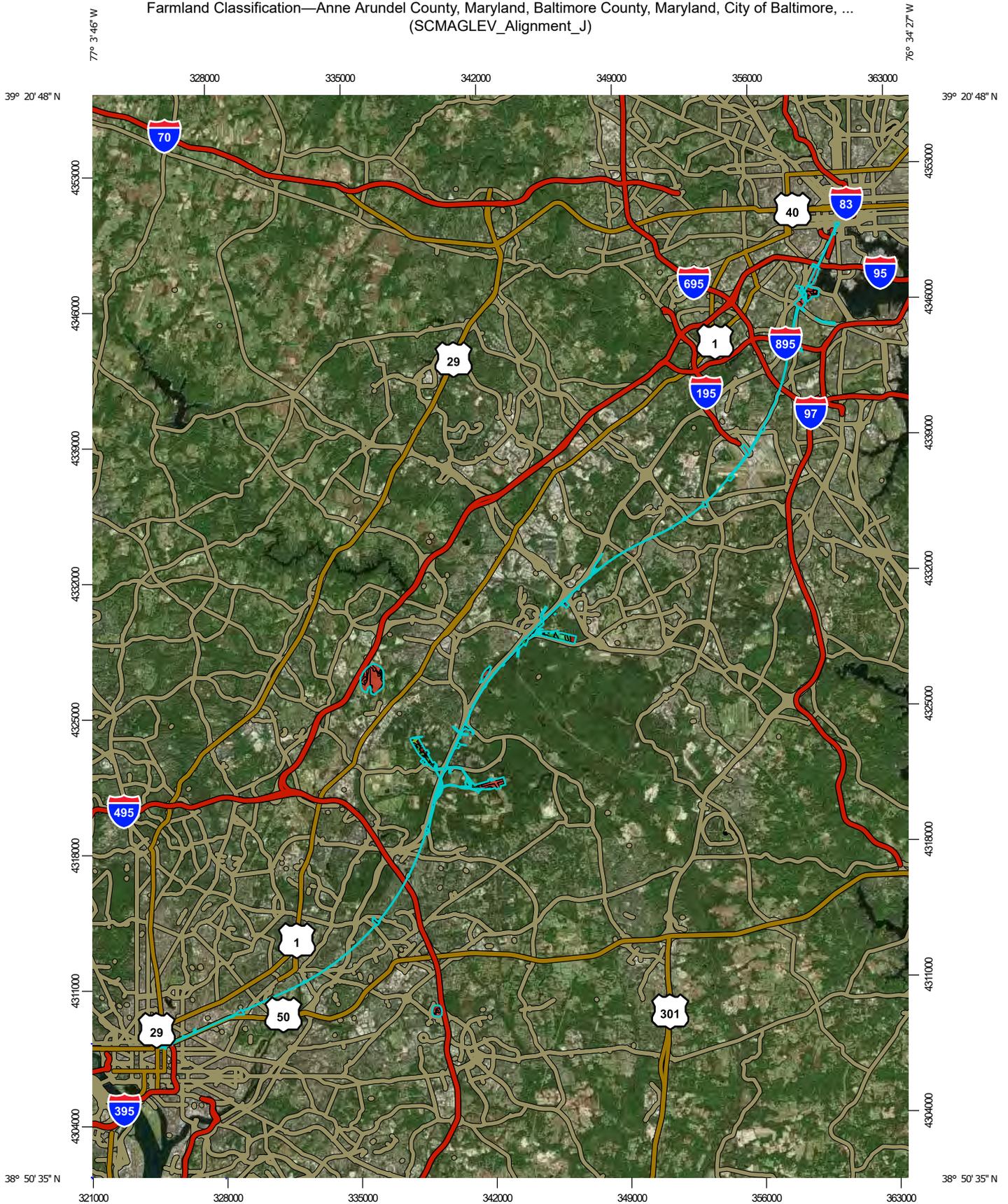
*Component Percent Cutoff: None Specified*

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

*Tie-break Rule: Higher*

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Farmland Classification—Anne Arundel County, Maryland, Baltimore County, Maryland, City of Baltimore, ...  
(SCMAGLEV\_Alignment\_J)

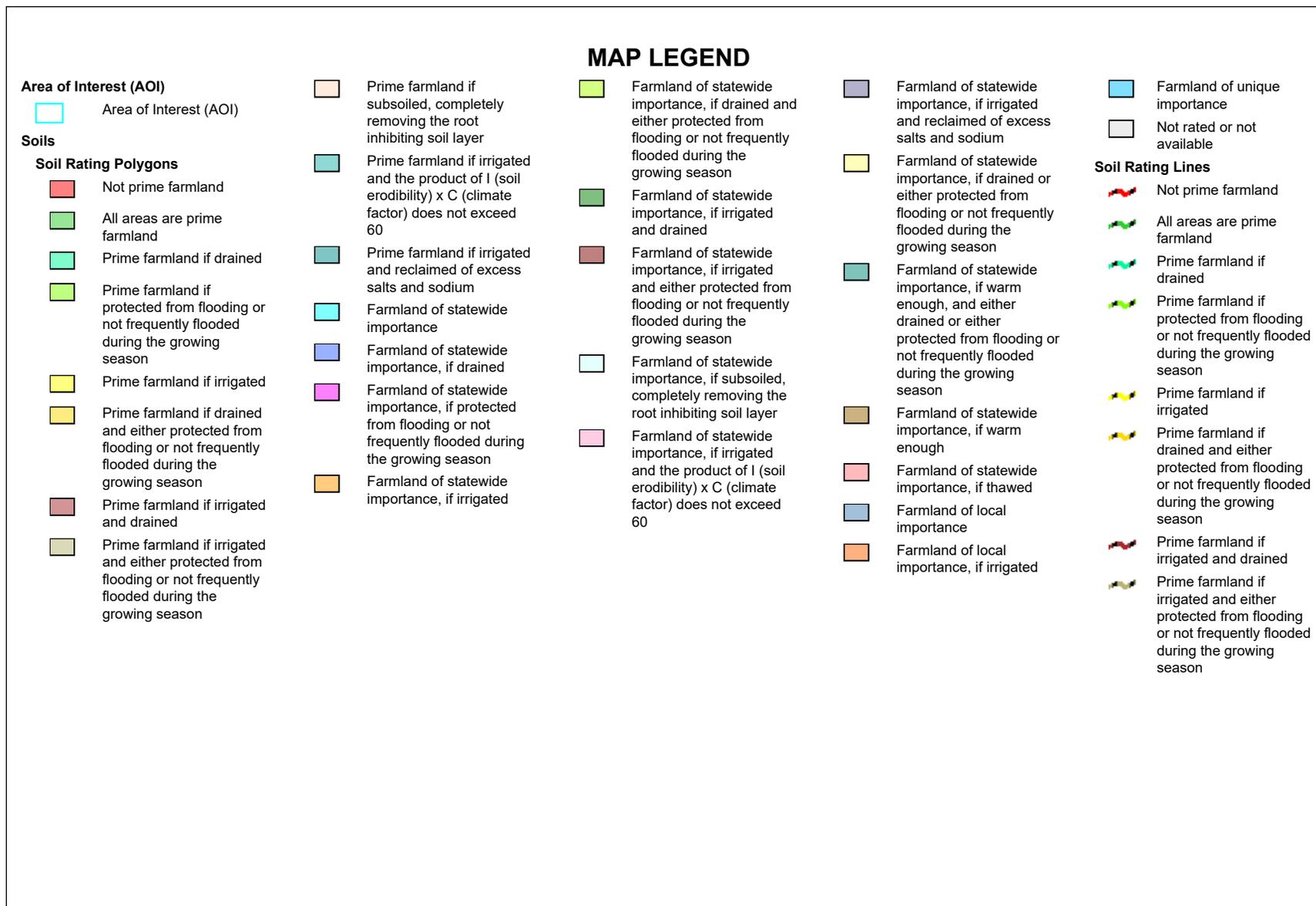


Map Scale: 1:272,000 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84





Farmland Classification—Anne Arundel County, Maryland, Baltimore County, Maryland, City of Baltimore, Maryland, District of Columbia, and Prince George's County, Maryland  
(SCMAGLEV\_Alignment\_J)

	Prime farmland if subsoiled, completely removing the root inhibiting soil layer		Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium		Farmland of unique importance		Prime farmland if subsoiled, completely removing the root inhibiting soil layer
	Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60		Farmland of statewide importance, if irrigated and drained		Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season		<b>Soil Rating Points</b> Not prime farmland		Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
	Prime farmland if irrigated and reclaimed of excess salts and sodium		Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season		Prime farmland if drained		Prime farmland if irrigated and reclaimed of excess salts and sodium
	Farmland of statewide importance		Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer		Farmland of statewide importance, if warm enough		Prime farmland if protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance
	Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60		Farmland of statewide importance, if thawed		Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance, if drained
	Farmland of statewide importance, if irrigated				Farmland of local importance		Prime farmland if irrigated and drained		Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season
					Farmland of local importance, if irrigated		Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance, if irrigated

Farmland Classification—Anne Arundel County, Maryland, Baltimore County, Maryland, City of Baltimore, Maryland, District of Columbia, and Prince George's County, Maryland (SCMAGLEV\_Alignment\_J)

<p> Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season</p> <p> Farmland of statewide importance, if irrigated and drained</p> <p> Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season</p> <p> Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer</p> <p> Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60</p>	<p> Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium</p> <p> Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season</p> <p> Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season</p> <p> Farmland of statewide importance, if warm enough</p> <p> Farmland of statewide importance, if thawed</p> <p> Farmland of local importance</p> <p> Farmland of local importance, if irrigated</p>	<p> Farmland of unique importance</p> <p> Not rated or not available</p> <p><b>Water Features</b></p> <p> Streams and Canals</p> <p><b>Transportation</b></p> <p> Rails</p> <p> Interstate Highways</p> <p> US Routes</p> <p> Major Roads</p> <p> Local Roads</p> <p><b>Background</b></p> <p> Aerial Photography</p>	<p>The soil surveys that comprise your AOI were mapped at 1:12,000.</p> <p>Please rely on the bar scale on each map sheet for map measurements.</p> <p>Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)</p> <p>Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.</p> <p>This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.</p> <p>Soil Survey Area: Anne Arundel County, Maryland Survey Area Data: Version 19, Jun 11, 2020</p> <p>Soil Survey Area: Baltimore County, Maryland Survey Area Data: Version 15, Jun 11, 2020</p> <p>Soil Survey Area: City of Baltimore, Maryland Survey Area Data: Version 16, Jun 11, 2020</p> <p>Soil Survey Area: District of Columbia Survey Area Data: Version 14, Jun 11, 2020</p> <p>Soil Survey Area: Prince George's County, Maryland Survey Area Data: Version 18, Jun 11, 2020</p> <p>Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.</p> <p>Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.</p> <p>Date(s) aerial images were photographed: Jan 1, 1999—Dec 31, 2003</p> <p>The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.</p>
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## Farmland Classification

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CaB	Chillum loam, 2 to 5 percent slopes	All areas are prime farmland	0.1	0.0%
CbB	Chillum-Urban land complex, 0 to 5 percent slopes	Not prime farmland	0.0	0.0%
CcrB	Christiana-Sassafras complex, 2 to 5 percent slopes	All areas are prime farmland	64.0	3.2%
CcrC	Christiana-Sassafras complex, 5 to 10 percent slopes	Farmland of statewide importance	46.0	2.3%
CdB	Christiana-Sassafras-Urban land complex, 0 to 5 percent slopes	Not prime farmland	0.3	0.0%
CdD	Christiana-Sassafras-Urban land complex, 5 to 15 percent slopes	Not prime farmland	5.4	0.3%
CHA	Codorus and Hatboro soils, 0 to 2 percent slopes, frequently flooded	Not prime farmland	4.6	0.2%
DvB	Downer-Hammonton complex, 2 to 5 percent slopes	All areas are prime farmland	24.4	1.2%
DvC	Downer-Hammonton complex, 5 to 10 percent slopes	Farmland of statewide importance	0.6	0.0%
DvD	Downer-Hammonton complex, 10 to 15 percent slopes	Not prime farmland	0.1	0.0%
DwB	Downer-Hammonton-Urban land complex, 0 to 5 percent slopes	Not prime farmland	17.0	0.9%
DxC	Downer-Phalanx complex, 5 to 10 percent slopes	Farmland of statewide importance	3.9	0.2%
DxD	Downer-Phalanx complex, 10 to 15 percent slopes	Not prime farmland	0.6	0.0%
EuD	Evesboro-Galestown-Urban land complex, 5 to 15 percent slopes	Not prime farmland	4.8	0.2%
EuE	Evesboro-Galestown-Urban land complex, 15 to 25 percent slopes	Not prime farmland	1.9	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
EVC	Evesboro and Galestown soils, 5 to 10 percent slopes	Not prime farmland	2.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	Prime farmland if drained	66.1	3.3%
GaB	Galestown loamy sand, 0 to 5 percent slopes	Prime farmland if irrigated	0.9	0.0%
MpB	Matapeake-Urban land complex, 0 to 5 percent slopes	Not prime farmland	0.5	0.0%
MpD	Matapeake-Urban land complex, 5 to 15 percent slopes	Not prime farmland	1.0	0.1%
MZA	Misplion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	Not prime farmland	1.7	0.1%
PeB	Patapsco-Evesboro-Fort Mott complex, 0 to 5 percent slopes	Farmland of statewide importance	1.4	0.1%
PfB	Patapsco-Fort Mott complex, 0 to 5 percent slopes	Farmland of statewide importance	7.2	0.4%
PfD	Patapsco-Fort Mott complex, 10 to 15 percent slopes	Not prime farmland	0.1	0.0%
PgB	Patapsco-Fort Mott-Urban land complex, 0 to 5 percent slopes	Not prime farmland	17.5	0.9%
RhB	Russett-Christiana-Hambrook complex, 0 to 5 percent slopes	Not prime farmland	42.6	2.1%
RhC	Russett-Christiana-Hambrook complex, 5 to 10 percent slopes	Not prime farmland	23.4	1.2%
RhD	Russett-Christiana-Hambrook complex, 10 to 15 percent slopes	Not prime farmland	13.2	0.7%
RkB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	Not prime farmland	4.2	0.2%
SaB	Sassafras fine sandy loam, 2 to 5 percent slopes	All areas are prime farmland	27.4	1.4%
SfB	Sassafras loam, 2 to 5 percent slopes	All areas are prime farmland	1.2	0.1%
ShA	Sassafras-Hambrook complex, 0 to 2 percent slopes	All areas are prime farmland	13.0	0.7%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
SME	Sassafras and Croom soils, 15 to 25 percent slopes	Not prime farmland	7.1	0.4%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	Not prime farmland	0.5	0.0%
SnD	Sassafras-Urban land complex, 5 to 15 percent slopes	Not prime farmland	4.3	0.2%
UoB	Udorthents, loamy, 0 to 5 percent slopes	Not prime farmland	8.0	0.4%
UoD	Udorthents, loamy, 5 to 15 percent slopes	Not prime farmland	9.0	0.5%
UoE	Udorthents, loamy, 15 to 25 percent slopes	Not prime farmland	38.2	1.9%
Uz	Urban land	Not prime farmland	45.1	2.3%
W	Water	Not prime farmland	1.5	0.1%
WdaA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Coastal Plain	All areas are prime farmland	2.1	0.1%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	All areas are prime farmland	2.2	0.1%
WrB	Woodstown-Urban land complex, 0 to 5 percent slopes	Not prime farmland	0.3	0.0%
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	Not prime farmland	30.6	1.5%
<b>Subtotals for Soil Survey Area</b>			<b>545.8</b>	<b>27.6%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BfB	Beltsville-Urban land complex, 0 to 5 percent slopes	Not prime farmland	1.8	0.1%
CfA	Codorus silt loams, 0 to 3 percent slopes	All areas are prime farmland	0.2	0.0%
CoD	Croom-Urban land complex, 5 to 15 percent slopes	Not prime farmland	0.5	0.0%
FBA	Fallsington-Urban land complex, 0 to 2 percent slopes	Not prime farmland	0.3	0.0%
KuB	Keyport-Urban land complex, 0 to 5 percent slopes	Not prime farmland	1.2	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
MT	Mispillion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	Not prime farmland	0.2	0.0%
RuB	Russett-Urban land complex, 0 to 5 percent slopes	Not prime farmland	1.4	0.1%
RuD	Russett-Urban land complex, 5 to 15 percent slopes	Not prime farmland	5.4	0.3%
SfB	Sassafras-Urban land complex, 0 to 5 percent slopes	Not prime farmland	0.2	0.0%
UaD	Udorthents, 15 to 25 percent slopes	Not prime farmland	0.2	0.0%
UcF	Udorthents, highway, 0 to 65 percent slopes	Not prime farmland	1.5	0.1%
Ur	Urban land, 0 to 8 percent slopes	Not prime farmland	26.9	1.4%
W	Water		0.1	0.0%
<b>Subtotals for Soil Survey Area</b>			<b>39.8</b>	<b>2.0%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
7UC	Christiana-Urban land complex, 8 to 15 percent slopes	Not prime farmland	1.5	0.1%
15UB	Keyport-Urban land complex, 0 to 8 percent slopes	Not prime farmland	0.1	0.0%
25B	Mattapex silt loam, 2 to 5 percent slopes, northern coastal plain	Not prime farmland	5.0	0.3%
33UB	Urban land-Sunnyside complex, 0 to 8 percent slopes	Not prime farmland	22.3	1.1%
34UB	Urban land-Sunnyside-Christiana complex, 0 to 8 percent slopes	Not prime farmland	4.7	0.2%
34UC	Urban land-Sunnyside-Christiana complex, 8 to 15 percent slopes	Not prime farmland	2.5	0.1%
35C	Sunnyside fine sandy loam, 8 to 15 percent slopes	Not prime farmland	1.7	0.1%
37	Sulfaquepts, frequently flooded	Not prime farmland	1.1	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
38C	Udorthents, clayey, very deep, 0 to 15 percent slopes	Not prime farmland	21.7	1.1%
39C	Udorthents, sanitary landfill, 0 to 15 percent slopes	Not prime farmland	1.1	0.1%
40E	Udorthents, loamy, very deep, 15 to 60 percent slopes	Not prime farmland	11.0	0.6%
42E	Udorthents, smoothed, 0 to 35 percent slopes	Not prime farmland	64.7	3.3%
43U	Urban land-Udorthents complex, occasionally flooded	Not prime farmland	3.4	0.2%
44UC	Urban land, 0 to 15 percent slopes	Not prime farmland	118.8	6.0%
W	Water	Not prime farmland	5.1	0.3%
<b>Subtotals for Soil Survey Area</b>			<b>264.8</b>	<b>13.4%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CeC	Christiana silt loam, 8 to 15 percent slopes	Not prime farmland	0.9	0.0%
CeD	Christiana silt loam, 15 to 40 percent slopes	Not prime farmland	0.5	0.0%
CfC	Christiana-Urban land complex, 8 to 15 percent slopes	Not prime farmland	0.9	0.0%
GeB	Galestown-Urban land complex, 0 to 8 percent slopes	Not prime farmland	0.6	0.0%
MvC	Muirkirk variant complex, 8 to 15 percent slopes	Not prime farmland	0.6	0.0%
SgD	Sassafras-Urban land complex, 15 to 40 percent slopes	Not prime farmland	0.8	0.0%
SpB	Sunnyside-Urban land complex, 0 to 8 percent slopes	Not prime farmland	0.7	0.0%
SpC	Sunnyside-Urban land complex, 8 to 15 percent slopes	Not prime farmland	0.3	0.0%
U1	Udorthents	Not prime farmland	0.5	0.0%
U10	Udorthents, clayey, smoothed	Not prime farmland	0.8	0.0%
Ub	Urban land	Not prime farmland	49.3	2.5%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UcB	Urban land-Beltsville complex, 0 to 8 percent slopes	Not prime farmland	2.0	0.1%
UeB	Urban land-Chillum complex, 0 to 8 percent slopes	Not prime farmland	1.7	0.1%
<b>Subtotals for Soil Survey Area</b>			<b>59.4</b>	<b>3.0%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AeB	Adelphia-Holmdel-Urban land complex, 0 to 5 percent slopes	Not prime farmland	1.5	0.1%
ApB	Aquasco silt loam, 2 to 5 percent slopes	Farmland of statewide importance	1.1	0.1%
BaA	Beltsville silt loam, 0 to 2 percent slopes	All areas are prime farmland	3.1	0.2%
BaB	Beltsville silt loam, 2 to 5 percent slopes	All areas are prime farmland	3.1	0.2%
BaC	Beltsville silt loam, 5 to 10 percent slopes	Farmland of statewide importance	5.3	0.3%
BuB	Beltsville-Urban land complex, 0 to 5 percent slopes	Not prime farmland	4.0	0.2%
BuD	Beltsville-Urban land complex, 5 to 15 percent slopes	Not prime farmland	0.1	0.0%
CcC	Christiana-Downer complex, 5 to 10 percent slopes	Farmland of statewide importance	84.9	4.3%
CcD	Christiana-Downer complex, 10 to 15 percent slopes	Not prime farmland	24.1	1.2%
CcE	Christiana-Downer complex, 15 to 25 percent slopes	Not prime farmland	15.5	0.8%
CcF	Christiana-Downer complex, 25 to 40 percent slopes	Not prime farmland	0.2	0.0%
CdD	Christiana-Downer-Urban land complex, 5 to 15 percent slopes	Not prime farmland	32.4	1.6%
CdE	Christiana-Downer-Urban land complex, 15 to 25 percent slopes	Not prime farmland	0.1	0.0%
CF	Codorus and Hatboro soils, frequently flooded	Not prime farmland	4.3	0.2%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CoD	Collington-Wist-Urban land complex, 5 to 15 percent slopes	Not prime farmland	0.1	0.0%
CrB	Croom gravelly sandy loam, 2 to 5 percent slopes	Farmland of statewide importance	0.4	0.0%
CrE	Croom gravelly sandy loam, 15 to 25 percent slopes	Not prime farmland	0.6	0.0%
DoB	Downer-Hammonton complex, 2 to 5 percent slopes	All areas are prime farmland	27.6	1.4%
DoC	Downer-Hamonton complex, 5 to 10 percent slopes	Farmland of statewide importance	6.0	0.3%
DoD	Downer-Hammonton complex, 10 to 15 percent slopes	Not prime farmland	21.8	1.1%
EkA	Elkton silt loam, 0 to 2 percent slopes	Not prime farmland	3.7	0.2%
EwB	Evesboro-Downer complex 0 to 5 percent slopes	Prime farmland if irrigated	29.8	1.5%
EwC	Evesboro-Downer complex, 5 to 10 percent slopes	Not prime farmland	3.5	0.2%
EwD	Evesboro-Downer complex, 10 to 15 percent slopes	Not prime farmland	1.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	Prime farmland if drained	2.2	0.1%
GbB	Galestown-Urban land complex, 0 to 5 percent slopes	Not prime farmland	17.6	0.9%
HaA	Hammonton loamy sand, 0 to 2 percent slopes	All areas are prime farmland	2.1	0.1%
Iu	Issue-Urban land complex, occasionally flooded	Not prime farmland	3.5	0.2%
LY	Longmarsh and Indiantown soils, frequently flooded	Not prime farmland	9.1	0.5%
PT	Pits, gravel	Not prime farmland	85.1	4.3%
RcA	Russett-Christiana complex, 0 to 2 percent slopes	All areas are prime farmland	8.8	0.4%
RcB	Russett-Christiana complex, 2 to 5 percent slopes	All areas are prime farmland	121.9	6.2%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
RuB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	Not prime farmland	77.6	3.9%
SaaB	Sassafras sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	All areas are prime farmland	1.9	0.1%
SaaC	Sassafras sandy loam, 5 to 10 percent slopes, Northern Coastal Plain	Farmland of statewide importance	4.5	0.2%
ScC	Sassafras-Croom complex, 5 to 10 percent slopes	Farmland of statewide importance	7.3	0.4%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	Not prime farmland	0.0	0.0%
SOF	Sassafras and Croom soils, 25 to 40 percent slopes	Not prime farmland	1.5	0.1%
UdaF	Udorthents, highway, 0 to 65 percent slopes	Not prime farmland	26.5	1.3%
UdbB	Udorthents, loamy, 0 to 5 percent slopes	Not prime farmland	55.6	2.8%
UdbD	Udorthents, loamy, 5 to 15 percent slopes	Not prime farmland	1.0	0.1%
UdbE	Udorthents, loamy, 15 to 25 percent slopes	Not prime farmland	0.3	0.0%
UdcD	Udorthents, reclaimed clay pits, 5 to 15 percent slopes	Not prime farmland	0.5	0.0%
UdgB	Udorthents, reclaimed gravel pits, 0 to 5 percent slopes	Not prime farmland	175.3	8.8%
UdgD	Udorthents, reclaimed gravel pits, 5 to 15 percent slopes	Not prime farmland	46.5	2.3%
UdgE	Udorthents, reclaimed gravel pits, 15 to 25 percent slopes	Not prime farmland	12.6	0.6%
UduB	Udorthents-Urban land complex, 0 to 5 percent slopes	Not prime farmland	14.1	0.7%
UduD	Udorthents-Urban land complex, 5 to 15 percent slopes	Not prime farmland	10.7	0.5%
Un	Urban land	Not prime farmland	1.0	0.1%
UraB	Urban land-Adelphia complex, 0 to 5 percent slopes	Not prime farmland	14.2	0.7%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UrdB	Urban land-Collington-Wist complex, 0 to 5 percent slopes	Not prime farmland	23.3	1.2%
UreB	Urban land-Elsinboro complex, 0 to 5 percent slopes	Not prime farmland	4.2	0.2%
UrrB	Urban land-Russett-Christiana complex, 0 to 5 percent slopes	Not prime farmland	23.0	1.2%
W	Water	Not prime farmland	0.3	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	All areas are prime farmland	6.5	0.3%
Zn	Zekiah-Urban land complex, frequently flooded	Not prime farmland	1.0	0.0%
ZS	Zekiah and Issue soils, frequently flooded	Not prime farmland	37.7	1.9%
<b>Subtotals for Soil Survey Area</b>			<b>1,071.4</b>	<b>54.1%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

## Description

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

## Rating Options

*Aggregation Method:* No Aggregation Necessary

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

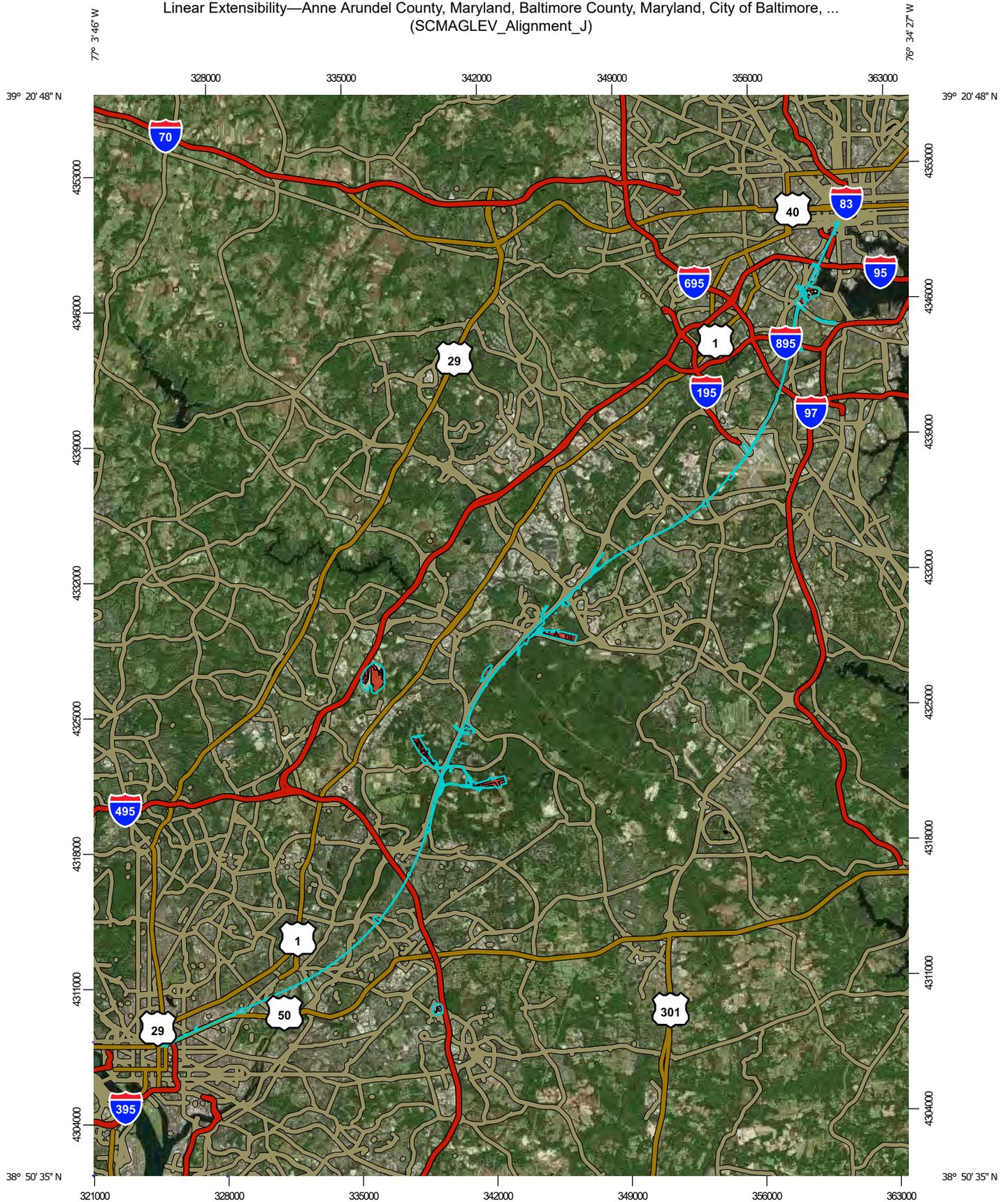
For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The majority of soil attributes are associated with a component of a map unit, and such an attribute has to be aggregated to the map unit level before a thematic map can be rendered. Map units, however, also have their own attributes. An attribute of a map unit does not have to be aggregated in order to render a corresponding thematic map. Therefore, the "aggregation method" for any attribute of a map unit is referred to as "No Aggregation Necessary".

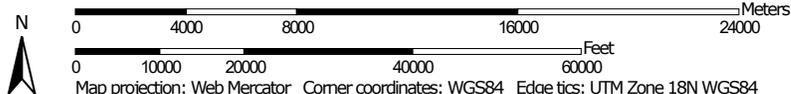
*Tie-break Rule: Lower*

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Linear Extensibility—Anne Arundel County, Maryland, Baltimore County, Maryland, City of Baltimore, ...  
(SCMAGLEV\_Alignment\_J)



Map Scale: 1:272,000 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84



### MAP LEGEND

**Area of Interest (AOI)**

 Area of Interest (AOI)

**Soils**

**Soil Rating Polygons**

-  Not prime farmland
-  All areas are prime farmland
-  Prime farmland if drained
-  Prime farmland if protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated
-  Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated and drained
-  Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season

-  Prime farmland if subsoiled, completely removing the root inhibiting soil layer
-  Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
-  Prime farmland if irrigated and reclaimed of excess salts and sodium
-  Farmland of statewide importance
-  Farmland of statewide importance, if drained
-  Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if irrigated

-  Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if irrigated and drained
-  Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer
-  Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60

-  Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium
-  Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if warm enough
-  Farmland of statewide importance, if thawed
-  Farmland of local importance
-  Farmland of local importance, if irrigated

-  Farmland of unique importance
-  Not rated or not available

**Soil Rating Lines**

-  Not prime farmland
-  All areas are prime farmland
-  Prime farmland if drained
-  Prime farmland if protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated
-  Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated and drained
-  Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season

Farmland Classification—Anne Arundel County, Maryland, Baltimore County, Maryland, City of Baltimore, Maryland, District of Columbia, and Prince George's County, Maryland (SCMAGLEV\_Alignment\_J1)

	Prime farmland if subsoiled, completely removing the root inhibiting soil layer		Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium		Farmland of unique importance		Prime farmland if subsoiled, completely removing the root inhibiting soil layer
	Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60		Farmland of statewide importance, if irrigated and drained		Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season		<b>Soil Rating Points</b> Not prime farmland		Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
	Prime farmland if irrigated and reclaimed of excess salts and sodium		Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season		Prime farmland if drained		Prime farmland if irrigated and reclaimed of excess salts and sodium
	Farmland of statewide importance		Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer		Farmland of statewide importance, if warm enough		Prime farmland if protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance
	Farmland of statewide importance, if drained		Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60		Farmland of statewide importance, if thawed		Prime farmland if irrigated		Farmland of statewide importance, if drained
	Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season				Farmland of local importance		Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season		Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season
	Farmland of statewide importance, if irrigated				Farmland of local importance, if irrigated		Prime farmland if irrigated and drained		Farmland of statewide importance, if irrigated
							Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season		

Farmland Classification—Anne Arundel County, Maryland, Baltimore County, Maryland, City of Baltimore, Maryland, District of Columbia, and Prince George's County, Maryland (SCMAGLEV\_Alignment\_J1)

<p> Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season</p> <p> Farmland of statewide importance, if irrigated and drained</p> <p> Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season</p> <p> Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer</p> <p> Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60</p>	<p> Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium</p> <p> Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season</p> <p> Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season</p> <p> Farmland of statewide importance, if warm enough</p> <p> Farmland of statewide importance, if thawed</p> <p> Farmland of local importance</p> <p> Farmland of local importance, if irrigated</p>	<p> Farmland of unique importance</p> <p> Not rated or not available</p> <p><b>Water Features</b></p> <p> Streams and Canals</p> <p><b>Transportation</b></p> <p> Rails</p> <p> Interstate Highways</p> <p> US Routes</p> <p> Major Roads</p> <p> Local Roads</p> <p><b>Background</b></p> <p> Aerial Photography</p>	<p>The soil surveys that comprise your AOI were mapped at 1:12,000.</p> <p>Please rely on the bar scale on each map sheet for map measurements.</p> <p>Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)</p> <p>Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.</p> <p>This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.</p> <p>Soil Survey Area: Anne Arundel County, Maryland Survey Area Data: Version 19, Jun 11, 2020</p> <p>Soil Survey Area: Baltimore County, Maryland Survey Area Data: Version 15, Jun 11, 2020</p> <p>Soil Survey Area: City of Baltimore, Maryland Survey Area Data: Version 16, Jun 11, 2020</p> <p>Soil Survey Area: District of Columbia Survey Area Data: Version 14, Jun 11, 2020</p> <p>Soil Survey Area: Prince George's County, Maryland Survey Area Data: Version 18, Jun 11, 2020</p> <p>Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.</p> <p>Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.</p> <p>Date(s) aerial images were photographed: Jan 1, 1999—Dec 31, 2003</p> <p>The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.</p>
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## Farmland Classification

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CbB	Chillum-Urban land complex, 0 to 5 percent slopes	Not prime farmland	0.0	0.0%
CcrB	Christiana-Sassafras complex, 2 to 5 percent slopes	All areas are prime farmland	36.4	1.9%
CcrC	Christiana-Sassafras complex, 5 to 10 percent slopes	Farmland of statewide importance	38.1	2.0%
CdB	Christiana-Sassafras-Urban land complex, 0 to 5 percent slopes	Not prime farmland	1.3	0.1%
CdD	Christiana-Sassafras-Urban land complex, 5 to 15 percent slopes	Not prime farmland	2.1	0.1%
CHA	Codorus and Hatboro soils, 0 to 2 percent slopes, frequently flooded	Not prime farmland	2.1	0.1%
CTA	Comus and Codorus soils, 0 to 2 percent slopes, occasionally flooded	All areas are prime farmland	3.5	0.2%
DvB	Downer-Hammonton complex, 2 to 5 percent slopes	All areas are prime farmland	12.5	0.7%
DvD	Downer-Hammonton complex, 10 to 15 percent slopes	Not prime farmland	0.0	0.0%
DwB	Downer-Hammonton-Urban land complex, 0 to 5 percent slopes	Not prime farmland	8.7	0.5%
DxC	Downer-Phalanx complex, 5 to 10 percent slopes	Farmland of statewide importance	3.7	0.2%
DxD	Downer-Phalanx complex, 10 to 15 percent slopes	Not prime farmland	0.6	0.0%
EuD	Evesboro-Galestown-Urban land complex, 5 to 15 percent slopes	Not prime farmland	4.9	0.3%
EuE	Evesboro-Galestown-Urban land complex, 15 to 25 percent slopes	Not prime farmland	1.9	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
EVC	Evesboro and Galestown soils, 5 to 10 percent slopes	Not prime farmland	2.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	Prime farmland if drained	62.0	3.3%
GaB	Galestown loamy sand, 0 to 5 percent slopes	Prime farmland if irrigated	0.9	0.0%
MpB	Matapeake-Urban land complex, 0 to 5 percent slopes	Not prime farmland	0.5	0.0%
MpD	Matapeake-Urban land complex, 5 to 15 percent slopes	Not prime farmland	1.0	0.1%
MZA	Misplion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	Not prime farmland	1.7	0.1%
PeB	Patapsco-Evesboro-Fort Mott complex, 0 to 5 percent slopes	Farmland of statewide importance	1.4	0.1%
PfB	Patapsco-Fort Mott complex, 0 to 5 percent slopes	Farmland of statewide importance	9.7	0.5%
PgB	Patapsco-Fort Mott-Urban land complex, 0 to 5 percent slopes	Not prime farmland	24.1	1.3%
RhB	Russett-Christiana-Hambrook complex, 0 to 5 percent slopes	Not prime farmland	36.2	1.9%
RhC	Russett-Christiana-Hambrook complex, 5 to 10 percent slopes	Not prime farmland	20.0	1.1%
RhD	Russett-Christiana-Hambrook complex, 10 to 15 percent slopes	Not prime farmland	7.0	0.4%
RkB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	Not prime farmland	4.3	0.2%
RyB	Russett-Urban land complex, 0 to 5 percent slopes	Not prime farmland	2.0	0.1%
SaB	Sassafras fine sandy loam, 2 to 5 percent slopes	All areas are prime farmland	21.0	1.1%
SfB	Sassafras loam, 2 to 5 percent slopes	All areas are prime farmland	1.4	0.1%
ShA	Sassafras-Hambrook complex, 0 to 2 percent slopes	All areas are prime farmland	12.2	0.6%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
SME	Sassafras and Croom soils, 15 to 25 percent slopes	Not prime farmland	1.4	0.1%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	Not prime farmland	0.7	0.0%
SnD	Sassafras-Urban land complex, 5 to 15 percent slopes	Not prime farmland	4.3	0.2%
UoB	Udorthents, loamy, 0 to 5 percent slopes	Not prime farmland	6.2	0.3%
UoD	Udorthents, loamy, 5 to 15 percent slopes	Not prime farmland	6.1	0.3%
UoE	Udorthents, loamy, 15 to 25 percent slopes	Not prime farmland	10.8	0.6%
Uz	Urban land	Not prime farmland	49.4	2.6%
W	Water	Not prime farmland	1.5	0.1%
WdaA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Coastal Plain	All areas are prime farmland	0.8	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	All areas are prime farmland	1.5	0.1%
WrB	Woodstown-Urban land complex, 0 to 5 percent slopes	Not prime farmland	0.3	0.0%
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	Not prime farmland	32.1	1.7%
<b>Subtotals for Soil Survey Area</b>			<b>438.4</b>	<b>23.2%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BfB	Beltsville-Urban land complex, 0 to 5 percent slopes	Not prime farmland	1.8	0.1%
CfA	Codorus silt loams, 0 to 3 percent slopes	All areas are prime farmland	0.2	0.0%
CoD	Croom-Urban land complex, 5 to 15 percent slopes	Not prime farmland	0.5	0.0%
FBA	Fallsington-Urban land complex, 0 to 2 percent slopes	Not prime farmland	0.3	0.0%
KuB	Keyport-Urban land complex, 0 to 5 percent slopes	Not prime farmland	1.2	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
MT	Mispillion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	Not prime farmland	0.2	0.0%
RuB	Russett-Urban land complex, 0 to 5 percent slopes	Not prime farmland	1.4	0.1%
RuD	Russett-Urban land complex, 5 to 15 percent slopes	Not prime farmland	5.4	0.3%
SfB	Sassafras-Urban land complex, 0 to 5 percent slopes	Not prime farmland	0.2	0.0%
UaD	Udorthents, 15 to 25 percent slopes	Not prime farmland	0.2	0.0%
UcF	Udorthents, highway, 0 to 65 percent slopes	Not prime farmland	1.5	0.1%
Ur	Urban land, 0 to 8 percent slopes	Not prime farmland	26.9	1.4%
W	Water		0.1	0.0%
<b>Subtotals for Soil Survey Area</b>			<b>39.8</b>	<b>2.1%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
7UC	Christiana-Urban land complex, 8 to 15 percent slopes	Not prime farmland	1.5	0.1%
15UB	Keyport-Urban land complex, 0 to 8 percent slopes	Not prime farmland	0.1	0.0%
25B	Mattapex silt loam, 2 to 5 percent slopes, northern coastal plain	Not prime farmland	5.0	0.3%
33UB	Urban land-Sunnyside complex, 0 to 8 percent slopes	Not prime farmland	22.3	1.2%
34UB	Urban land-Sunnyside-Christiana complex, 0 to 8 percent slopes	Not prime farmland	4.7	0.3%
34UC	Urban land-Sunnyside-Christiana complex, 8 to 15 percent slopes	Not prime farmland	2.5	0.1%
35C	Sunnyside fine sandy loam, 8 to 15 percent slopes	Not prime farmland	1.7	0.1%
37	Sulfaquepts, frequently flooded	Not prime farmland	1.1	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
38C	Udorthents, clayey, very deep, 0 to 15 percent slopes	Not prime farmland	21.7	1.1%
39C	Udorthents, sanitary landfill, 0 to 15 percent slopes	Not prime farmland	1.1	0.1%
40E	Udorthents, loamy, very deep, 15 to 60 percent slopes	Not prime farmland	11.0	0.6%
42E	Udorthents, smoothed, 0 to 35 percent slopes	Not prime farmland	64.7	3.4%
43U	Urban land-Udorthents complex, occasionally flooded	Not prime farmland	3.4	0.2%
44UC	Urban land, 0 to 15 percent slopes	Not prime farmland	118.8	6.3%
W	Water	Not prime farmland	5.1	0.3%
<b>Subtotals for Soil Survey Area</b>			<b>264.8</b>	<b>14.0%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CeC	Christiana silt loam, 8 to 15 percent slopes	Not prime farmland	0.9	0.0%
CeD	Christiana silt loam, 15 to 40 percent slopes	Not prime farmland	0.5	0.0%
CfC	Christiana-Urban land complex, 8 to 15 percent slopes	Not prime farmland	0.9	0.0%
GeB	Galestown-Urban land complex, 0 to 8 percent slopes	Not prime farmland	0.6	0.0%
MvC	Muirkirk variant complex, 8 to 15 percent slopes	Not prime farmland	0.6	0.0%
SgD	Sassafras-Urban land complex, 15 to 40 percent slopes	Not prime farmland	0.8	0.0%
SpB	Sunnyside-Urban land complex, 0 to 8 percent slopes	Not prime farmland	0.7	0.0%
SpC	Sunnyside-Urban land complex, 8 to 15 percent slopes	Not prime farmland	0.3	0.0%
U1	Udorthents	Not prime farmland	0.5	0.0%
U10	Udorthents, clayey, smoothed	Not prime farmland	0.8	0.0%
Ub	Urban land	Not prime farmland	49.3	2.6%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UcB	Urban land-Beltsville complex, 0 to 8 percent slopes	Not prime farmland	2.0	0.1%
UeB	Urban land-Chillum complex, 0 to 8 percent slopes	Not prime farmland	1.7	0.1%
<b>Subtotals for Soil Survey Area</b>			<b>59.4</b>	<b>3.1%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AeB	Adelphia-Holmdel-Urban land complex, 0 to 5 percent slopes	Not prime farmland	1.5	0.1%
ApB	Aquasco silt loam, 2 to 5 percent slopes	Farmland of statewide importance	0.7	0.0%
BaB	Beltsville silt loam, 2 to 5 percent slopes	All areas are prime farmland	9.5	0.5%
BaC	Beltsville silt loam, 5 to 10 percent slopes	Farmland of statewide importance	11.7	0.6%
CcC	Christiana-Downer complex, 5 to 10 percent slopes	Farmland of statewide importance	85.5	4.5%
CcD	Christiana-Downer complex, 10 to 15 percent slopes	Not prime farmland	24.9	1.3%
CcE	Christiana-Downer complex, 15 to 25 percent slopes	Not prime farmland	15.0	0.8%
CcF	Christiana-Downer complex, 25 to 40 percent slopes	Not prime farmland	0.1	0.0%
CdD	Christiana-Downer-Urban land complex, 5 to 15 percent slopes	Not prime farmland	32.5	1.7%
CdE	Christiana-Downer-Urban land complex, 15 to 25 percent slopes	Not prime farmland	0.1	0.0%
CF	Codorus and Hatboro soils, frequently flooded	Not prime farmland	8.7	0.5%
CoD	Collington-Wist-Urban land complex, 5 to 15 percent slopes	Not prime farmland	0.1	0.0%
CrB	Croom gravelly sandy loam, 2 to 5 percent slopes	Farmland of statewide importance	0.4	0.0%
CrC	Croom gravelly sandy loam, 5 to 10 percent slopes	Not prime farmland	0.6	0.0%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CrD	Croom gravelly sandy loam, 10 to 15 percent slopes	Not prime farmland	2.5	0.1%
CrE	Croom gravelly sandy loam, 15 to 25 percent slopes	Not prime farmland	0.6	0.0%
DoB	Downer-Hammonton complex, 2 to 5 percent slopes	All areas are prime farmland	26.6	1.4%
DoC	Downer-Hamonton complex, 5 to 10 percent slopes	Farmland of statewide importance	1.2	0.1%
DoD	Downer-Hammonton complex, 10 to 15 percent slopes	Not prime farmland	21.7	1.1%
EkA	Elkton silt loam, 0 to 2 percent slopes	Not prime farmland	5.3	0.3%
EwB	Evesboro-Downer complex 0 to 5 percent slopes	Prime farmland if irrigated	24.6	1.3%
EwC	Evesboro-Downer complex, 5 to 10 percent slopes	Not prime farmland	3.3	0.2%
EwD	Evesboro-Downer complex, 10 to 15 percent slopes	Not prime farmland	1.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	Prime farmland if drained	2.4	0.1%
GbB	Galestown-Urban land complex, 0 to 5 percent slopes	Not prime farmland	17.6	0.9%
HaA	Hammonton loamy sand, 0 to 2 percent slopes	All areas are prime farmland	2.3	0.1%
Iu	Issue-Urban land complex, occasionally flooded	Not prime farmland	2.2	0.1%
LY	Longmarsh and Indiantown soils, frequently flooded	Not prime farmland	8.5	0.4%
PT	Pits, gravel	Not prime farmland	85.1	4.5%
RcA	Russett-Christiana complex, 0 to 2 percent slopes	All areas are prime farmland	8.1	0.4%
RcB	Russett-Christiana complex, 2 to 5 percent slopes	All areas are prime farmland	109.6	5.8%
RuB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	Not prime farmland	86.2	4.6%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
SaaB	Sassafras sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	All areas are prime farmland	3.4	0.2%
SaaC	Sassafras sandy loam, 5 to 10 percent slopes, Northern Coastal Plain	Farmland of statewide importance	7.4	0.4%
ScC	Sassafras-Croom complex, 5 to 10 percent slopes	Farmland of statewide importance	4.8	0.3%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	Not prime farmland	0.3	0.0%
SOF	Sassafras and Croom soils, 25 to 40 percent slopes	Not prime farmland	0.0	0.0%
UdaF	Udorthents, highway, 0 to 65 percent slopes	Not prime farmland	26.6	1.4%
UdbB	Udorthents, loamy, 0 to 5 percent slopes	Not prime farmland	55.7	2.9%
UdbD	Udorthents, loamy, 5 to 15 percent slopes	Not prime farmland	1.0	0.1%
UdbE	Udorthents, loamy, 15 to 25 percent slopes	Not prime farmland	0.2	0.0%
UdgB	Udorthents, reclaimed gravel pits, 0 to 5 percent slopes	Not prime farmland	175.3	9.3%
UdgD	Udorthents, reclaimed gravel pits, 5 to 15 percent slopes	Not prime farmland	46.5	2.5%
UdgE	Udorthents, reclaimed gravel pits, 15 to 25 percent slopes	Not prime farmland	12.6	0.7%
UduB	Udorthents-Urban land complex, 0 to 5 percent slopes	Not prime farmland	15.7	0.8%
UduD	Udorthents-Urban land complex, 5 to 15 percent slopes	Not prime farmland	10.9	0.6%
Un	Urban land	Not prime farmland	0.6	0.0%
UraB	Urban land-Adelphia complex, 0 to 5 percent slopes	Not prime farmland	14.2	0.8%
UrdB	Urban land-Collington-Wist complex, 0 to 5 percent slopes	Not prime farmland	23.3	1.2%
UreB	Urban land-Elsinboro complex, 0 to 5 percent slopes	Not prime farmland	4.0	0.2%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UrrB	Urban land-Russett-Christiana complex, 0 to 5 percent slopes	Not prime farmland	23.6	1.2%
UrzA	Urban land-Zekiah complex, 0 to 2 percent slopes, frequently flooded	Not prime farmland	0.7	0.0%
W	Water	Not prime farmland	0.3	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	All areas are prime farmland	7.7	0.4%
WuB	Woodstown-Urban land complex, 0 to 5 percent slopes	Not prime farmland	1.6	0.1%
Zn	Zekiah-Urban land complex, frequently flooded	Not prime farmland	1.0	0.1%
ZS	Zekiah and Issue soils, frequently flooded	Not prime farmland	53.7	2.8%
<b>Subtotals for Soil Survey Area</b>			<b>1,091.2</b>	<b>57.6%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

## Description

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

## Rating Options

*Aggregation Method:* No Aggregation Necessary

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

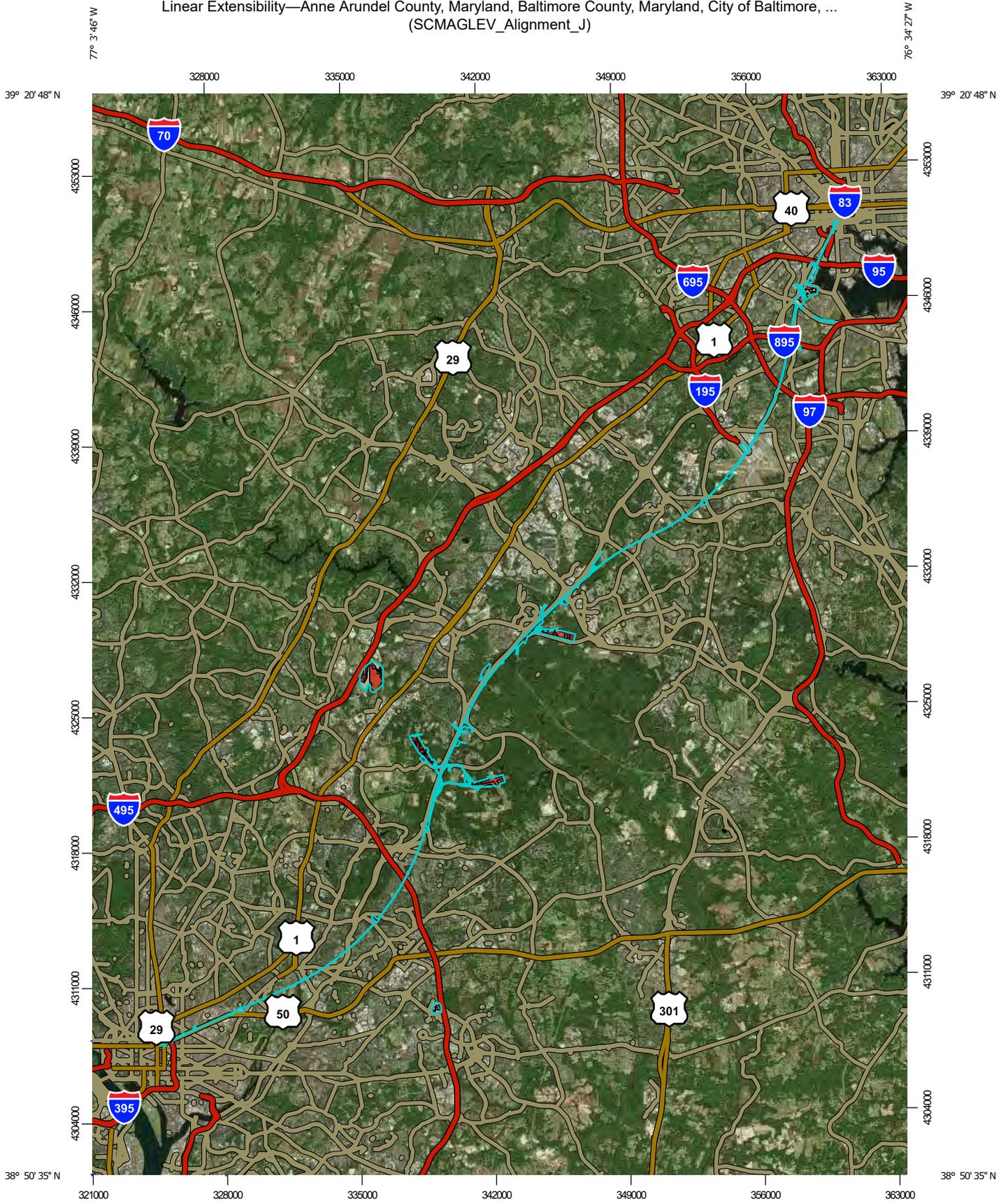
For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The majority of soil attributes are associated with a component of a map unit, and such an attribute has to be aggregated to the map unit level before a thematic map can be rendered. Map units, however, also have their own attributes. An attribute of a map unit does not have to be aggregated in order to render a corresponding thematic map. Therefore, the "aggregation method" for any attribute of a map unit is referred to as "No Aggregation Necessary".

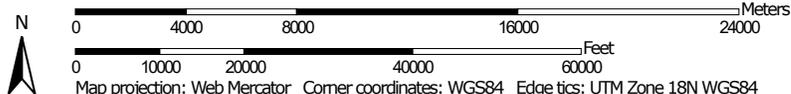
*Tie-break Rule: Lower*

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Linear Extensibility—Anne Arundel County, Maryland, Baltimore County, Maryland, City of Baltimore, ...  
(SCMAGLEV\_Alignment\_J)



Map Scale: 1:272,000 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84



## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

#### Soil Rating Polygons

-  Low (0 - 3)
-  Moderate (3 - 6)
-  High (6 - 9)
-  Very High (9 - 30)
-  Not rated or not available

#### Soil Rating Lines

-  Low (0 - 3)
-  Moderate (3 - 6)
-  High (6 - 9)
-  Very High (9 - 30)
-  Not rated or not available

#### Soil Rating Points

-  Low (0 - 3)
-  Moderate (3 - 6)
-  High (6 - 9)
-  Very High (9 - 30)
-  Not rated or not available

### Water Features

 Streams and Canals

### Transportation

-  Rails
-  Interstate Highways

-  US Routes
-  Major Roads
-  Local Roads

### Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Anne Arundel County, Maryland  
 Survey Area Data: Version 19, Jun 11, 2020

Soil Survey Area: Baltimore County, Maryland  
 Survey Area Data: Version 15, Jun 11, 2020

Soil Survey Area: City of Baltimore, Maryland  
 Survey Area Data: Version 16, Jun 11, 2020

Soil Survey Area: District of Columbia  
 Survey Area Data: Version 14, Jun 11, 2020

Soil Survey Area: Prince George's County, Maryland  
 Survey Area Data: Version 18, Jun 11, 2020

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 1, 1999—Dec 31, 2003

## MAP LEGEND

## MAP INFORMATION

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Linear Extensibility

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
CaB	Chillum loam, 2 to 5 percent slopes	2.0	0.1	0.0%
CbB	Chillum-Urban land complex, 0 to 5 percent slopes	2.0	0.0	0.0%
CcrB	Christiana-Sassafras complex, 2 to 5 percent slopes	1.4	64.0	3.2%
CcrC	Christiana-Sassafras complex, 5 to 10 percent slopes	1.4	46.0	2.3%
CdB	Christiana-Sassafras-Urban land complex, 0 to 5 percent slopes	1.4	0.3	0.0%
CdD	Christiana-Sassafras-Urban land complex, 5 to 15 percent slopes	1.4	5.4	0.3%
CHA	Codorus and Hatboro soils, 0 to 2 percent slopes, frequently flooded	1.5	4.6	0.2%
DvB	Downer-Hammonton complex, 2 to 5 percent slopes	1.5	24.4	1.2%
DvC	Downer-Hammonton complex, 5 to 10 percent slopes	1.5	0.6	0.0%
DvD	Downer-Hammonton complex, 10 to 15 percent slopes	1.5	0.1	0.0%
DwB	Downer-Hammonton-Urban land complex, 0 to 5 percent slopes	1.5	17.0	0.9%
DxC	Downer-Phalanx complex, 5 to 10 percent slopes	1.3	3.9	0.2%
DxD	Downer-Phalanx complex, 10 to 15 percent slopes	1.3	0.6	0.0%
EuD	Evesboro-Galestown-Urban land complex, 5 to 15 percent slopes	1.5	4.8	0.2%
EuE	Evesboro-Galestown-Urban land complex, 15 to 25 percent slopes	1.5	1.9	0.1%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
EVC	Evesboro and Galestown soils, 5 to 10 percent slopes	1.5	2.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	0.8	66.1	3.3%
GaB	Galestown loamy sand, 0 to 5 percent slopes	1.0	0.9	0.0%
MpB	Matapeake-Urban land complex, 0 to 5 percent slopes	1.2	0.5	0.0%
MpD	Matapeake-Urban land complex, 5 to 15 percent slopes	1.2	1.0	0.1%
MZA	Misplion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	1.5	1.7	0.1%
PeB	Patapsco-Evesboro-Fort Mott complex, 0 to 5 percent slopes	1.2	1.4	0.1%
PfB	Patapsco-Fort Mott complex, 0 to 5 percent slopes	1.2	7.2	0.4%
PfD	Patapsco-Fort Mott complex, 10 to 15 percent slopes	1.2	0.1	0.0%
PgB	Patapsco-Fort Mott-Urban land complex, 0 to 5 percent slopes	1.2	17.5	0.9%
RhB	Russett-Christiana-Hambrook complex, 0 to 5 percent slopes	1.2	42.6	2.1%
RhC	Russett-Christiana-Hambrook complex, 5 to 10 percent slopes	1.2	23.4	1.2%
RhD	Russett-Christiana-Hambrook complex, 10 to 15 percent slopes	1.2	13.2	0.7%
RkB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	1.2	4.2	0.2%
SaB	Sassafras fine sandy loam, 2 to 5 percent slopes	1.9	27.4	1.4%
SfB	Sassafras loam, 2 to 5 percent slopes	0.6	1.2	0.1%
ShA	Sassafras-Hambrook complex, 0 to 2 percent slopes	1.9	13.0	0.7%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
SME	Sassafras and Croom soils, 15 to 25 percent slopes	1.7	7.1	0.4%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	1.5	0.5	0.0%
SnD	Sassafras-Urban land complex, 5 to 15 percent slopes	1.7	4.3	0.2%
UoB	Udorthents, loamy, 0 to 5 percent slopes	1.0	8.0	0.4%
UoD	Udorthents, loamy, 5 to 15 percent slopes	1.0	9.0	0.5%
UoE	Udorthents, loamy, 15 to 25 percent slopes	1.0	38.2	1.9%
Uz	Urban land		45.1	2.3%
W	Water		1.5	0.1%
WdaA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Coastal Plain	0.6	2.1	0.1%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	0.6	2.2	0.1%
WrB	Woodstown-Urban land complex, 0 to 5 percent slopes	2.2	0.3	0.0%
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	1.5	30.6	1.5%
<b>Subtotals for Soil Survey Area</b>			<b>545.8</b>	<b>27.6%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
BfB	Beltsville-Urban land complex, 0 to 5 percent slopes	1.5	1.8	0.1%
CfA	Codorus silt loams, 0 to 3 percent slopes	1.5	0.2	0.0%
CoD	Croom-Urban land complex, 5 to 15 percent slopes	1.5	0.5	0.0%
FBA	Fallsington-Urban land complex, 0 to 2 percent slopes	1.0	0.3	0.0%
KuB	Keyport-Urban land complex, 0 to 5 percent slopes	1.8	1.2	0.1%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
MT	Mispillion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	1.5	0.2	0.0%
RuB	Russett-Urban land complex, 0 to 5 percent slopes	1.2	1.4	0.1%
RuD	Russett-Urban land complex, 5 to 15 percent slopes	1.2	5.4	0.3%
SfB	Sassafras-Urban land complex, 0 to 5 percent slopes	1.5	0.2	0.0%
UaD	Udorthents, 15 to 25 percent slopes	4.4	0.2	0.0%
UcF	Udorthents, highway, 0 to 65 percent slopes		1.5	0.1%
Ur	Urban land, 0 to 8 percent slopes		26.9	1.4%
W	Water		0.1	0.0%
<b>Subtotals for Soil Survey Area</b>			<b>39.8</b>	<b>2.0%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
7UC	Christiana-Urban land complex, 8 to 15 percent slopes	4.0	1.5	0.1%
15UB	Keyport-Urban land complex, 0 to 8 percent slopes	2.8	0.1	0.0%
25B	Mattapex silt loam, 2 to 5 percent slopes, northern coastal plain	0.7	5.0	0.3%
33UB	Urban land-Sunnyside complex, 0 to 8 percent slopes		22.3	1.1%
34UB	Urban land-Sunnyside-Christiana complex, 0 to 8 percent slopes		4.7	0.2%
34UC	Urban land-Sunnyside-Christiana complex, 8 to 15 percent slopes		2.5	0.1%
35C	Sunnyside fine sandy loam, 8 to 15 percent slopes	1.5	1.7	0.1%
37	Sulfaquepts, frequently flooded		1.1	0.1%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
38C	Udorthents, clayey, very deep, 0 to 15 percent slopes	4.5	21.7	1.1%
39C	Udorthents, sanitary landfill, 0 to 15 percent slopes		1.1	0.1%
40E	Udorthents, loamy, very deep, 15 to 60 percent slopes	4.4	11.0	0.6%
42E	Udorthents, smoothed, 0 to 35 percent slopes	1.0	64.7	3.3%
43U	Urban land-Udorthents complex, occasionally flooded		3.4	0.2%
44UC	Urban land, 0 to 15 percent slopes		118.8	6.0%
W	Water		5.1	0.3%
<b>Subtotals for Soil Survey Area</b>			<b>264.8</b>	<b>13.4%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
CeC	Christiana silt loam, 8 to 15 percent slopes	4.1	0.9	0.0%
CeD	Christiana silt loam, 15 to 40 percent slopes	4.1	0.5	0.0%
CfC	Christiana-Urban land complex, 8 to 15 percent slopes	4.1	0.9	0.0%
GeB	Galestown-Urban land complex, 0 to 8 percent slopes	0.2	0.6	0.0%
MvC	Muirkirk variant complex, 8 to 15 percent slopes	2.9	0.6	0.0%
SgD	Sassafras-Urban land complex, 15 to 40 percent slopes	0.7	0.8	0.0%
SpB	Sunnyside-Urban land complex, 0 to 8 percent slopes	1.5	0.7	0.0%
SpC	Sunnyside-Urban land complex, 8 to 15 percent slopes	1.5	0.3	0.0%
U1	Udorthents		0.5	0.0%
U10	Udorthents, clayey, smoothed	4.5	0.8	0.0%
Ub	Urban land		49.3	2.5%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
UcB	Urban land-Beltsville complex, 0 to 8 percent slopes		2.0	0.1%
UeB	Urban land-Chillum complex, 0 to 8 percent slopes		1.7	0.1%
<b>Subtotals for Soil Survey Area</b>			<b>59.4</b>	<b>3.0%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
AeB	Adelphia-Holmdel-Urban land complex, 0 to 5 percent slopes	1.5	1.5	0.1%
ApB	Aquasco silt loam, 2 to 5 percent slopes	1.5	1.1	0.1%
BaA	Beltsville silt loam, 0 to 2 percent slopes	1.5	3.1	0.2%
BaB	Beltsville silt loam, 2 to 5 percent slopes	1.5	3.1	0.2%
BaC	Beltsville silt loam, 5 to 10 percent slopes	1.5	5.3	0.3%
BuB	Beltsville-Urban land complex, 0 to 5 percent slopes	1.5	4.0	0.2%
BuD	Beltsville-Urban land complex, 5 to 15 percent slopes	1.5	0.1	0.0%
CcC	Christiana-Downer complex, 5 to 10 percent slopes	1.5	84.9	4.3%
CcD	Christiana-Downer complex, 10 to 15 percent slopes	1.5	24.1	1.2%
CcE	Christiana-Downer complex, 15 to 25 percent slopes	1.5	15.5	0.8%
CcF	Christiana-Downer complex, 25 to 40 percent slopes	1.5	0.2	0.0%
CdD	Christiana-Downer-Urban land complex, 5 to 15 percent slopes	1.5	32.4	1.6%
CdE	Christiana-Downer-Urban land complex, 15 to 25 percent slopes	1.5	0.1	0.0%
CF	Codorus and Hatboro soils, frequently flooded	1.5	4.3	0.2%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
CoD	Collington-Wist-Urban land complex, 5 to 15 percent slopes	1.5	0.1	0.0%
CrB	Croom gravelly sandy loam, 2 to 5 percent slopes	1.5	0.4	0.0%
CrE	Croom gravelly sandy loam, 15 to 25 percent slopes	1.5	0.6	0.0%
DoB	Downer-Hammonton complex, 2 to 5 percent slopes	1.5	27.6	1.4%
DoC	Downer-Hamonton complex, 5 to 10 percent slopes	1.5	6.0	0.3%
DoD	Downer-Hammonton complex, 10 to 15 percent slopes	1.5	21.8	1.1%
EkA	Elkton silt loam, 0 to 2 percent slopes	1.5	3.7	0.2%
EwB	Evesboro-Downer complex 0 to 5 percent slopes	1.6	29.8	1.5%
EwC	Evesboro-Downer complex, 5 to 10 percent slopes	1.6	3.5	0.2%
EwD	Evesboro-Downer complex, 10 to 15 percent slopes	1.6	1.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	0.8	2.2	0.1%
GbB	Galestown-Urban land complex, 0 to 5 percent slopes	1.5	17.6	0.9%
HaA	Hammonton loamy sand, 0 to 2 percent slopes	0.6	2.1	0.1%
Iu	Issue-Urban land complex, occasionally flooded	0.7	3.5	0.2%
LY	Longmarsh and Indiantown soils, frequently flooded	0.3	9.1	0.5%
PT	Pits, gravel		85.1	4.3%
RcA	Russett-Christiana complex, 0 to 2 percent slopes	1.5	8.8	0.4%
RcB	Russett-Christiana complex, 2 to 5 percent slopes	1.5	121.9	6.2%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
RuB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	1.5	77.6	3.9%
SaaB	Sassafras sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	0.5	1.9	0.1%
SaaC	Sassafras sandy loam, 5 to 10 percent slopes, Northern Coastal Plain	0.5	4.5	0.2%
ScC	Sassafras-Croom complex, 5 to 10 percent slopes	1.5	7.3	0.4%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	1.5	0.0	0.0%
SOF	Sassafras and Croom soils, 25 to 40 percent slopes	1.7	1.5	0.1%
UdaF	Udorthents, highway, 0 to 65 percent slopes		26.5	1.3%
UdbB	Udorthents, loamy, 0 to 5 percent slopes	1.0	55.6	2.8%
UdbD	Udorthents, loamy, 5 to 15 percent slopes	1.0	1.0	0.1%
UdbE	Udorthents, loamy, 15 to 25 percent slopes	1.0	0.3	0.0%
UdcD	Udorthents, reclaimed clay pits, 5 to 15 percent slopes	5.8	0.5	0.0%
UdgB	Udorthents, reclaimed gravel pits, 0 to 5 percent slopes	2.0	175.3	8.8%
UdgD	Udorthents, reclaimed gravel pits, 5 to 15 percent slopes	2.0	46.5	2.3%
UdgE	Udorthents, reclaimed gravel pits, 15 to 25 percent slopes	2.0	12.6	0.6%
UduB	Udorthents-Urban land complex, 0 to 5 percent slopes	2.0	14.1	0.7%
UduD	Udorthents-Urban land complex, 5 to 15 percent slopes	2.0	10.7	0.5%
Un	Urban land		1.0	0.1%
UraB	Urban land-Adelphia complex, 0 to 5 percent slopes		14.2	0.7%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
UrdB	Urban land-Collington-Wist complex, 0 to 5 percent slopes		23.3	1.2%
UreB	Urban land-Elsinboro complex, 0 to 5 percent slopes		4.2	0.2%
UrrB	Urban land-Russett-Christiana complex, 0 to 5 percent slopes		23.0	1.2%
W	Water		0.3	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	0.6	6.5	0.3%
Zn	Zekiah-Urban land complex, frequently flooded		1.0	0.0%
ZS	Zekiah and Issue soils, frequently flooded	1.5	37.7	1.9%
<b>Subtotals for Soil Survey Area</b>			<b>1,071.4</b>	<b>54.1%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

## Description

Linear extensibility refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at 1/3- or 1/10-bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported as percent change for the whole soil. The amount and type of clay minerals in the soil influence volume change.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

## Rating Options

*Units of Measure:* percent

*Aggregation Method:* Dominant Component

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Component" returns the attribute value associated with the component with the highest percent composition in the map unit. If more than one component shares the highest percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher attribute value should be returned in the case of a percent composition tie. The result returned by this aggregation method may or may not represent the dominant condition throughout the map unit.

*Component Percent Cutoff: None Specified*

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

*Tie-break Rule: Higher*

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

*Interpret Nulls as Zero: No*

This option indicates if a null value for a component should be converted to zero before aggregation occurs. This will be done only if a map unit has at least one component where this value is not null.

*Layer Options (Horizon Aggregation Method): All Layers (Weighted Average)*

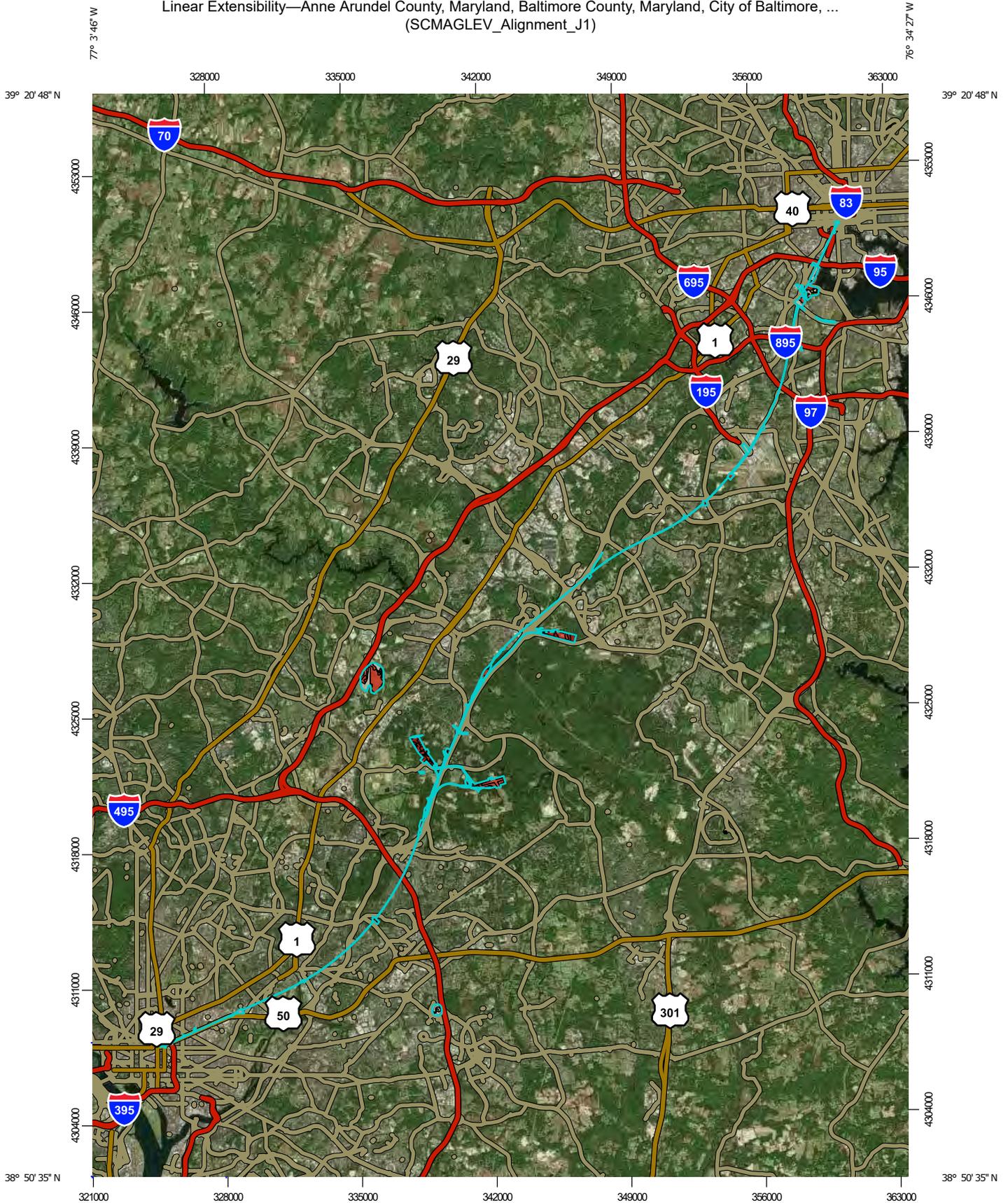
For an attribute of a soil horizon, a depth qualification must be specified. In most cases it is probably most appropriate to specify a fixed depth range, either in centimeters or inches. The Bottom Depth must be greater than the Top Depth, and the Top Depth can be greater than zero. The choice of "inches" or "centimeters" only applies to the depth of soil to be evaluated. It has no influence on the units of measure the data are presented in.

When "Surface Layer" is specified as the depth qualifier, only the surface layer or horizon is considered when deriving a value for a component, but keep in mind that the thickness of the surface layer varies from component to component.

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Whenever more than one layer or horizon is considered when deriving a value for a component, and the attribute being aggregated is a numeric attribute, a weighted average value is returned, where the weighting factor is the layer or horizon thickness.

Linear Extensibility—Anne Arundel County, Maryland, Baltimore County, Maryland, City of Baltimore, ...  
(SCMAGLEV\_Alignment\_J1)



Map Scale: 1:272,000 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84



## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

#### Soil Rating Polygons

-  Low (0 - 3)
-  Moderate (3 - 6)
-  High (6 - 9)
-  Very High (9 - 30)
-  Not rated or not available

#### Soil Rating Lines

-  Low (0 - 3)
-  Moderate (3 - 6)
-  High (6 - 9)
-  Very High (9 - 30)
-  Not rated or not available

#### Soil Rating Points

-  Low (0 - 3)
-  Moderate (3 - 6)
-  High (6 - 9)
-  Very High (9 - 30)
-  Not rated or not available

### Water Features

 Streams and Canals

### Transportation

-  Rails
-  Interstate Highways

-  US Routes
-  Major Roads
-  Local Roads

### Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Anne Arundel County, Maryland  
Survey Area Data: Version 19, Jun 11, 2020

Soil Survey Area: Baltimore County, Maryland  
Survey Area Data: Version 15, Jun 11, 2020

Soil Survey Area: City of Baltimore, Maryland  
Survey Area Data: Version 16, Jun 11, 2020

Soil Survey Area: District of Columbia  
Survey Area Data: Version 14, Jun 11, 2020

Soil Survey Area: Prince George's County, Maryland  
Survey Area Data: Version 18, Jun 11, 2020

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 1, 1999—Dec 31, 2003

## MAP LEGEND

## MAP INFORMATION

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Linear Extensibility

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
CbB	Chillum-Urban land complex, 0 to 5 percent slopes	2.0	0.0	0.0%
CcrB	Christiana-Sassafras complex, 2 to 5 percent slopes	1.4	36.4	1.9%
CcrC	Christiana-Sassafras complex, 5 to 10 percent slopes	1.4	38.1	2.0%
CdB	Christiana-Sassafras-Urban land complex, 0 to 5 percent slopes	1.4	1.3	0.1%
CdD	Christiana-Sassafras-Urban land complex, 5 to 15 percent slopes	1.4	2.1	0.1%
CHA	Codorus and Hatboro soils, 0 to 2 percent slopes, frequently flooded	1.5	2.1	0.1%
CTA	Comus and Codorus soils, 0 to 2 percent slopes, occasionally flooded	1.5	3.5	0.2%
DvB	Downer-Hammonton complex, 2 to 5 percent slopes	1.5	12.5	0.7%
DvD	Downer-Hammonton complex, 10 to 15 percent slopes	1.5	0.0	0.0%
DwB	Downer-Hammonton-Urban land complex, 0 to 5 percent slopes	1.5	8.7	0.5%
DxC	Downer-Phalanx complex, 5 to 10 percent slopes	1.3	3.7	0.2%
DxD	Downer-Phalanx complex, 10 to 15 percent slopes	1.3	0.6	0.0%
EuD	Evesboro-Galestown-Urban land complex, 5 to 15 percent slopes	1.5	4.9	0.3%
EuE	Evesboro-Galestown-Urban land complex, 15 to 25 percent slopes	1.5	1.9	0.1%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
EVC	Evesboro and Galestown soils, 5 to 10 percent slopes	1.5	2.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	0.8	62.0	3.3%
GaB	Galestown loamy sand, 0 to 5 percent slopes	1.0	0.9	0.0%
MpB	Matapeake-Urban land complex, 0 to 5 percent slopes	1.2	0.5	0.0%
MpD	Matapeake-Urban land complex, 5 to 15 percent slopes	1.2	1.0	0.1%
MZA	Misplion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	1.5	1.7	0.1%
PeB	Patapsco-Evesboro-Fort Mott complex, 0 to 5 percent slopes	1.2	1.4	0.1%
PfB	Patapsco-Fort Mott complex, 0 to 5 percent slopes	1.2	9.7	0.5%
PgB	Patapsco-Fort Mott-Urban land complex, 0 to 5 percent slopes	1.2	24.1	1.3%
RhB	Russett-Christiana-Hambrook complex, 0 to 5 percent slopes	1.2	36.2	1.9%
RhC	Russett-Christiana-Hambrook complex, 5 to 10 percent slopes	1.2	20.0	1.1%
RhD	Russett-Christiana-Hambrook complex, 10 to 15 percent slopes	1.2	7.0	0.4%
RkB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	1.2	4.3	0.2%
RyB	Russett-Urban land complex, 0 to 5 percent slopes	1.2	2.0	0.1%
SaB	Sassafras fine sandy loam, 2 to 5 percent slopes	1.9	21.0	1.1%
SfB	Sassafras loam, 2 to 5 percent slopes	0.6	1.4	0.1%
ShA	Sassafras-Hambrook complex, 0 to 2 percent slopes	1.9	12.2	0.6%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
SME	Sassafras and Croom soils, 15 to 25 percent slopes	1.7	1.4	0.1%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	1.5	0.7	0.0%
SnD	Sassafras-Urban land complex, 5 to 15 percent slopes	1.7	4.3	0.2%
UoB	Udorthents, loamy, 0 to 5 percent slopes	1.0	6.2	0.3%
UoD	Udorthents, loamy, 5 to 15 percent slopes	1.0	6.1	0.3%
UoE	Udorthents, loamy, 15 to 25 percent slopes	1.0	10.8	0.6%
Uz	Urban land		49.4	2.6%
W	Water		1.5	0.1%
WdaA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Coastal Plain	0.6	0.8	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	0.6	1.5	0.1%
WrB	Woodstown-Urban land complex, 0 to 5 percent slopes	2.2	0.3	0.0%
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded	1.5	32.1	1.7%
<b>Subtotals for Soil Survey Area</b>			<b>438.4</b>	<b>23.2%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
BfB	Beltsville-Urban land complex, 0 to 5 percent slopes	1.5	1.8	0.1%
CfA	Codorus silt loams, 0 to 3 percent slopes	1.5	0.2	0.0%
CoD	Croom-Urban land complex, 5 to 15 percent slopes	1.5	0.5	0.0%
FBA	Fallsington-Urban land complex, 0 to 2 percent slopes	1.0	0.3	0.0%
KuB	Keyport-Urban land complex, 0 to 5 percent slopes	1.8	1.2	0.1%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
MT	Mispillion and Transquaking soils, 0 to 1 percent slopes, tidally flooded	1.5	0.2	0.0%
RuB	Russett-Urban land complex, 0 to 5 percent slopes	1.2	1.4	0.1%
RuD	Russett-Urban land complex, 5 to 15 percent slopes	1.2	5.4	0.3%
SfB	Sassafras-Urban land complex, 0 to 5 percent slopes	1.5	0.2	0.0%
UaD	Udorthents, 15 to 25 percent slopes	4.4	0.2	0.0%
UcF	Udorthents, highway, 0 to 65 percent slopes		1.5	0.1%
Ur	Urban land, 0 to 8 percent slopes		26.9	1.4%
W	Water		0.1	0.0%
<b>Subtotals for Soil Survey Area</b>			<b>39.8</b>	<b>2.1%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
7UC	Christiana-Urban land complex, 8 to 15 percent slopes	4.0	1.5	0.1%
15UB	Keyport-Urban land complex, 0 to 8 percent slopes	2.8	0.1	0.0%
25B	Mattapex silt loam, 2 to 5 percent slopes, northern coastal plain	0.7	5.0	0.3%
33UB	Urban land-Sunnyside complex, 0 to 8 percent slopes		22.3	1.2%
34UB	Urban land-Sunnyside-Christiana complex, 0 to 8 percent slopes		4.7	0.3%
34UC	Urban land-Sunnyside-Christiana complex, 8 to 15 percent slopes		2.5	0.1%
35C	Sunnyside fine sandy loam, 8 to 15 percent slopes	1.5	1.7	0.1%
37	Sulfaquepts, frequently flooded		1.1	0.1%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
38C	Udorthents, clayey, very deep, 0 to 15 percent slopes	4.5	21.7	1.1%
39C	Udorthents, sanitary landfill, 0 to 15 percent slopes		1.1	0.1%
40E	Udorthents, loamy, very deep, 15 to 60 percent slopes	4.4	11.0	0.6%
42E	Udorthents, smoothed, 0 to 35 percent slopes	1.0	64.7	3.4%
43U	Urban land-Udorthents complex, occasionally flooded		3.4	0.2%
44UC	Urban land, 0 to 15 percent slopes		118.8	6.3%
W	Water		5.1	0.3%
<b>Subtotals for Soil Survey Area</b>			<b>264.8</b>	<b>14.0%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
CeC	Christiana silt loam, 8 to 15 percent slopes	4.1	0.9	0.0%
CeD	Christiana silt loam, 15 to 40 percent slopes	4.1	0.5	0.0%
CfC	Christiana-Urban land complex, 8 to 15 percent slopes	4.1	0.9	0.0%
GeB	Galestown-Urban land complex, 0 to 8 percent slopes	0.2	0.6	0.0%
MvC	Muirkirk variant complex, 8 to 15 percent slopes	2.9	0.6	0.0%
SgD	Sassafras-Urban land complex, 15 to 40 percent slopes	0.7	0.8	0.0%
SpB	Sunnyside-Urban land complex, 0 to 8 percent slopes	1.5	0.7	0.0%
SpC	Sunnyside-Urban land complex, 8 to 15 percent slopes	1.5	0.3	0.0%
U1	Udorthents		0.5	0.0%
U10	Udorthents, clayey, smoothed	4.5	0.8	0.0%
Ub	Urban land		49.3	2.6%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
UcB	Urban land-Beltsville complex, 0 to 8 percent slopes		2.0	0.1%
UeB	Urban land-Chillum complex, 0 to 8 percent slopes		1.7	0.1%
<b>Subtotals for Soil Survey Area</b>			<b>59.4</b>	<b>3.1%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
AeB	Adelphia-Holmdel-Urban land complex, 0 to 5 percent slopes	1.5	1.5	0.1%
ApB	Aquasco silt loam, 2 to 5 percent slopes	1.5	0.7	0.0%
BaB	Beltsville silt loam, 2 to 5 percent slopes	1.5	9.5	0.5%
BaC	Beltsville silt loam, 5 to 10 percent slopes	1.5	11.7	0.6%
CcC	Christiana-Downer complex, 5 to 10 percent slopes	1.5	85.5	4.5%
CcD	Christiana-Downer complex, 10 to 15 percent slopes	1.5	24.9	1.3%
CcE	Christiana-Downer complex, 15 to 25 percent slopes	1.5	15.0	0.8%
CcF	Christiana-Downer complex, 25 to 40 percent slopes	1.5	0.1	0.0%
CdD	Christiana-Downer-Urban land complex, 5 to 15 percent slopes	1.5	32.5	1.7%
CdE	Christiana-Downer-Urban land complex, 15 to 25 percent slopes	1.5	0.1	0.0%
CF	Codorus and Hatboro soils, frequently flooded	1.5	8.7	0.5%
CoD	Collington-Wist-Urban land complex, 5 to 15 percent slopes	1.5	0.1	0.0%
CrB	Croom gravelly sandy loam, 2 to 5 percent slopes	1.5	0.4	0.0%
CrC	Croom gravelly sandy loam, 5 to 10 percent slopes	1.5	0.6	0.0%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
CrD	Croom gravelly sandy loam, 10 to 15 percent slopes	1.5	2.5	0.1%
CrE	Croom gravelly sandy loam, 15 to 25 percent slopes	1.5	0.6	0.0%
DoB	Downer-Hammonton complex, 2 to 5 percent slopes	1.5	26.6	1.4%
DoC	Downer-Hamonton complex, 5 to 10 percent slopes	1.5	1.2	0.1%
DoD	Downer-Hammonton complex, 10 to 15 percent slopes	1.5	21.7	1.1%
EkA	Elkton silt loam, 0 to 2 percent slopes	1.5	5.3	0.3%
EwB	Evesboro-Downer complex 0 to 5 percent slopes	1.6	24.6	1.3%
EwC	Evesboro-Downer complex, 5 to 10 percent slopes	1.6	3.3	0.2%
EwD	Evesboro-Downer complex, 10 to 15 percent slopes	1.6	1.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain	0.8	2.4	0.1%
GbB	Galestown-Urban land complex, 0 to 5 percent slopes	1.5	17.6	0.9%
HaA	Hammonton loamy sand, 0 to 2 percent slopes	0.6	2.3	0.1%
Iu	Issue-Urban land complex, occasionally flooded	0.7	2.2	0.1%
LY	Longmarsh and Indiantown soils, frequently flooded	0.3	8.5	0.4%
PT	Pits, gravel		85.1	4.5%
RcA	Russett-Christiana complex, 0 to 2 percent slopes	1.5	8.1	0.4%
RcB	Russett-Christiana complex, 2 to 5 percent slopes	1.5	109.6	5.8%
RuB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes	1.5	86.2	4.6%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
SaaB	Sassafras sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	0.5	3.4	0.2%
SaaC	Sassafras sandy loam, 5 to 10 percent slopes, Northern Coastal Plain	0.5	7.4	0.4%
ScC	Sassafras-Croom complex, 5 to 10 percent slopes	1.5	4.8	0.3%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes	1.5	0.3	0.0%
SOF	Sassafras and Croom soils, 25 to 40 percent slopes	1.7	0.0	0.0%
UdaF	Udorthents, highway, 0 to 65 percent slopes		26.6	1.4%
UdbB	Udorthents, loamy, 0 to 5 percent slopes	1.0	55.7	2.9%
UdbD	Udorthents, loamy, 5 to 15 percent slopes	1.0	1.0	0.1%
UdbE	Udorthents, loamy, 15 to 25 percent slopes	1.0	0.2	0.0%
UdgB	Udorthents, reclaimed gravel pits, 0 to 5 percent slopes	2.0	175.3	9.3%
UdgD	Udorthents, reclaimed gravel pits, 5 to 15 percent slopes	2.0	46.5	2.5%
UdgE	Udorthents, reclaimed gravel pits, 15 to 25 percent slopes	2.0	12.6	0.7%
UduB	Udorthents-Urban land complex, 0 to 5 percent slopes	2.0	15.7	0.8%
UduD	Udorthents-Urban land complex, 5 to 15 percent slopes	2.0	10.9	0.6%
Un	Urban land		0.6	0.0%
UraB	Urban land-Adelphia complex, 0 to 5 percent slopes		14.2	0.8%
UrdB	Urban land-Collington-Wist complex, 0 to 5 percent slopes		23.3	1.2%
UreB	Urban land-Elsinboro complex, 0 to 5 percent slopes		4.0	0.2%

Map unit symbol	Map unit name	Rating (percent)	Acres in AOI	Percent of AOI
UrrB	Urban land-Russett-Christiana complex, 0 to 5 percent slopes		23.6	1.2%
UrzA	Urban land-Zekiah complex, 0 to 2 percent slopes, frequently flooded		0.7	0.0%
W	Water		0.3	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain	0.6	7.7	0.4%
WuB	Woodstown-Urban land complex, 0 to 5 percent slopes	2.2	1.6	0.1%
Zn	Zekiah-Urban land complex, frequently flooded		1.0	0.1%
ZS	Zekiah and Issue soils, frequently flooded	1.5	53.7	2.8%
<b>Subtotals for Soil Survey Area</b>			<b>1,091.2</b>	<b>57.6%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

## Description

Linear extensibility refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at 1/3- or 1/10-bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported as percent change for the whole soil. The amount and type of clay minerals in the soil influence volume change.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

## Rating Options

*Units of Measure:* percent

*Aggregation Method:* Dominant Component

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Component" returns the attribute value associated with the component with the highest percent composition in the map unit. If more than one component shares the highest percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher attribute value should be returned in the case of a percent composition tie. The result returned by this aggregation method may or may not represent the dominant condition throughout the map unit.

*Component Percent Cutoff: None Specified*

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

*Tie-break Rule: Higher*

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

*Interpret Nulls as Zero: No*

This option indicates if a null value for a component should be converted to zero before aggregation occurs. This will be done only if a map unit has at least one component where this value is not null.

*Layer Options (Horizon Aggregation Method): All Layers (Weighted Average)*

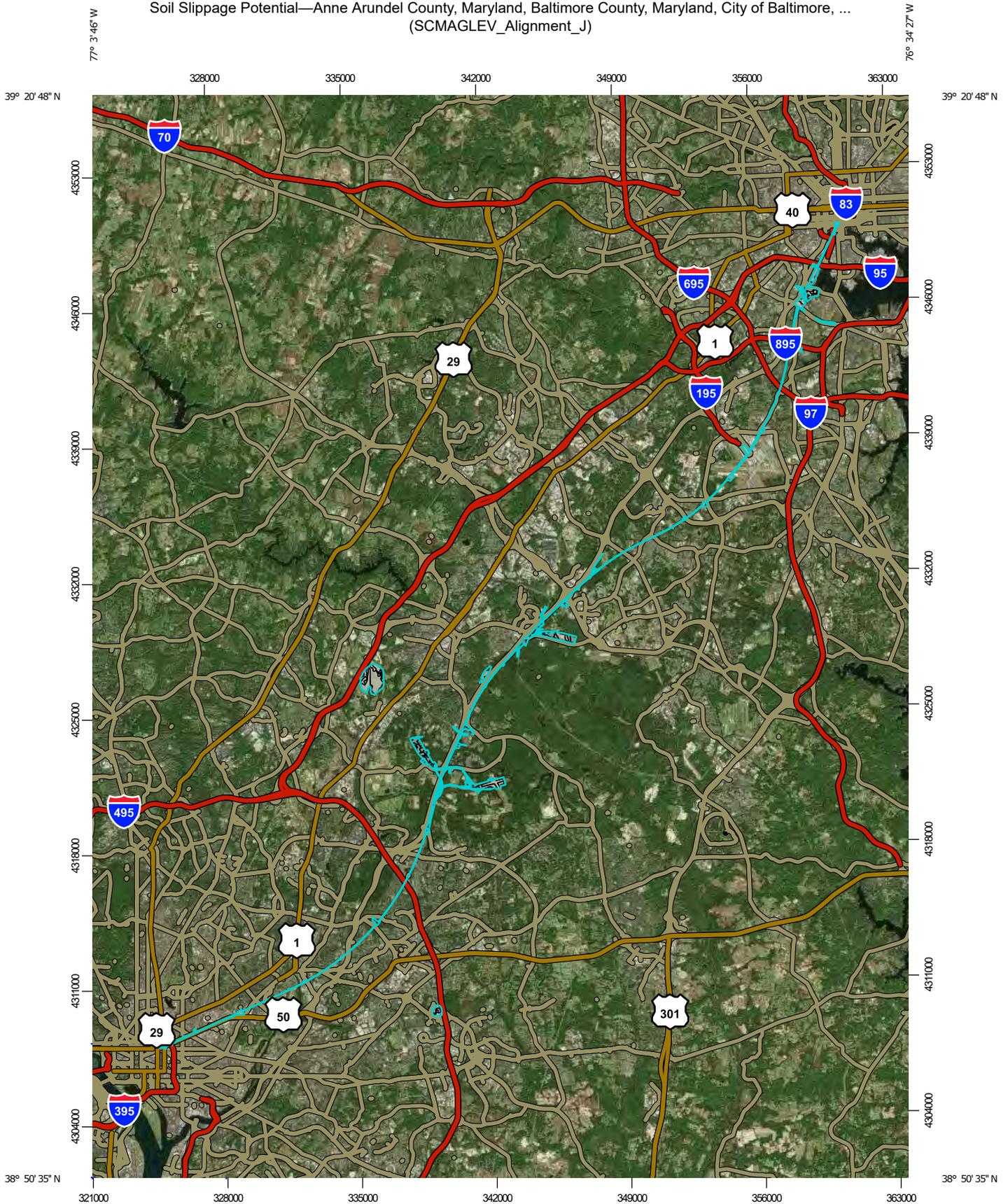
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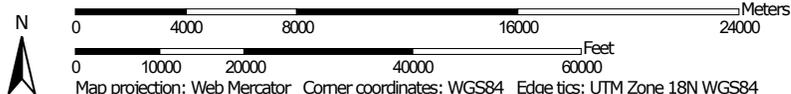
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Soil Slippage Potential—Anne Arundel County, Maryland, Baltimore County, Maryland, City of Baltimore, ...  
(SCMAGLEV\_Alignment\_J)



Map Scale: 1:272,000 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84



## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

#### Soil Rating Polygons

 Low  
 Moderately low  
 Medium  
 Moderately high  
 High  
 Not rated or not available

#### Soil Rating Lines

 Low  
 Moderately low  
 Medium  
 Moderately high  
 High  
 Not rated or not available

#### Soil Rating Points

 Low  
 Moderately low  
 Medium  
 Moderately high  
 High  
 Not rated or not available

### Water Features

 Streams and Canals

### Transportation

 Rails  
 Interstate Highways  
 US Routes  
 Major Roads  
 Local Roads

### Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

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Soil Survey Area: Anne Arundel County, Maryland  
 Survey Area Data: Version 19, Jun 11, 2020

Soil Survey Area: Baltimore County, Maryland  
 Survey Area Data: Version 15, Jun 11, 2020

Soil Survey Area: City of Baltimore, Maryland  
 Survey Area Data: Version 16, Jun 11, 2020

Soil Survey Area: District of Columbia  
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Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 1, 1999—Dec 31, 2003

## MAP LEGEND

## MAP INFORMATION

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Soil Slippage Potential

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CaB	Chillum loam, 2 to 5 percent slopes		0.1	0.0%
CbB	Chillum-Urban land complex, 0 to 5 percent slopes		0.0	0.0%
CcrB	Christiana-Sassafras complex, 2 to 5 percent slopes		64.0	3.2%
CcrC	Christiana-Sassafras complex, 5 to 10 percent slopes		46.0	2.3%
CdB	Christiana-Sassafras-Urban land complex, 0 to 5 percent slopes		0.3	0.0%
CdD	Christiana-Sassafras-Urban land complex, 5 to 15 percent slopes		5.4	0.3%
CHA	Codorus and Hatboro soils, 0 to 2 percent slopes, frequently flooded		4.6	0.2%
DvB	Downer-Hammonton complex, 2 to 5 percent slopes		24.4	1.2%
DvC	Downer-Hammonton complex, 5 to 10 percent slopes		0.6	0.0%
DvD	Downer-Hammonton complex, 10 to 15 percent slopes		0.1	0.0%
DwB	Downer-Hammonton-Urban land complex, 0 to 5 percent slopes		17.0	0.9%
DxC	Downer-Phalanx complex, 5 to 10 percent slopes		3.9	0.2%
DxD	Downer-Phalanx complex, 10 to 15 percent slopes		0.6	0.0%
EuD	Evesboro-Galestown-Urban land complex, 5 to 15 percent slopes		4.8	0.2%
EuE	Evesboro-Galestown-Urban land complex, 15 to 25 percent slopes		1.9	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
EVC	Evesboro and Galestown soils, 5 to 10 percent slopes		2.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain		66.1	3.3%
GaB	Galestown loamy sand, 0 to 5 percent slopes		0.9	0.0%
MpB	Matapeake-Urban land complex, 0 to 5 percent slopes		0.5	0.0%
MpD	Matapeake-Urban land complex, 5 to 15 percent slopes		1.0	0.1%
MZA	Misplion and Transquaking soils, 0 to 1 percent slopes, tidally flooded		1.7	0.1%
PeB	Patapsco-Evesboro-Fort Mott complex, 0 to 5 percent slopes		1.4	0.1%
PfB	Patapsco-Fort Mott complex, 0 to 5 percent slopes		7.2	0.4%
PfD	Patapsco-Fort Mott complex, 10 to 15 percent slopes		0.1	0.0%
PgB	Patapsco-Fort Mott-Urban land complex, 0 to 5 percent slopes		17.5	0.9%
RhB	Russett-Christiana-Hambrook complex, 0 to 5 percent slopes		42.6	2.1%
RhC	Russett-Christiana-Hambrook complex, 5 to 10 percent slopes		23.4	1.2%
RhD	Russett-Christiana-Hambrook complex, 10 to 15 percent slopes		13.2	0.7%
RkB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes		4.2	0.2%
SaB	Sassafras fine sandy loam, 2 to 5 percent slopes		27.4	1.4%
SfB	Sassafras loam, 2 to 5 percent slopes		1.2	0.1%
ShA	Sassafras-Hambrook complex, 0 to 2 percent slopes		13.0	0.7%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
SME	Sassafras and Croom soils, 15 to 25 percent slopes		7.1	0.4%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes		0.5	0.0%
SnD	Sassafras-Urban land complex, 5 to 15 percent slopes		4.3	0.2%
UoB	Udorthents, loamy, 0 to 5 percent slopes		8.0	0.4%
UoD	Udorthents, loamy, 5 to 15 percent slopes		9.0	0.5%
UoE	Udorthents, loamy, 15 to 25 percent slopes		38.2	1.9%
Uz	Urban land		45.1	2.3%
W	Water		1.5	0.1%
WdaA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Coastal Plain		2.1	0.1%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain		2.2	0.1%
WrB	Woodstown-Urban land complex, 0 to 5 percent slopes		0.3	0.0%
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded		30.6	1.5%
<b>Subtotals for Soil Survey Area</b>			<b>545.8</b>	<b>27.6%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BfB	Beltsville-Urban land complex, 0 to 5 percent slopes		1.8	0.1%
CfA	Codorus silt loams, 0 to 3 percent slopes		0.2	0.0%
CoD	Croom-Urban land complex, 5 to 15 percent slopes		0.5	0.0%
FBA	Fallsington-Urban land complex, 0 to 2 percent slopes		0.3	0.0%
KuB	Keyport-Urban land complex, 0 to 5 percent slopes		1.2	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
MT	Mispillion and Transquaking soils, 0 to 1 percent slopes, tidally flooded		0.2	0.0%
RuB	Russett-Urban land complex, 0 to 5 percent slopes		1.4	0.1%
RuD	Russett-Urban land complex, 5 to 15 percent slopes		5.4	0.3%
SfB	Sassafras-Urban land complex, 0 to 5 percent slopes		0.2	0.0%
UaD	Udorthents, 15 to 25 percent slopes		0.2	0.0%
UcF	Udorthents, highway, 0 to 65 percent slopes		1.5	0.1%
Ur	Urban land, 0 to 8 percent slopes		26.9	1.4%
W	Water		0.1	0.0%
<b>Subtotals for Soil Survey Area</b>			<b>39.8</b>	<b>2.0%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
7UC	Christiana-Urban land complex, 8 to 15 percent slopes		1.5	0.1%
15UB	Keyport-Urban land complex, 0 to 8 percent slopes		0.1	0.0%
25B	Mattapex silt loam, 2 to 5 percent slopes, northern coastal plain	Low	5.0	0.3%
33UB	Urban land-Sunnyside complex, 0 to 8 percent slopes		22.3	1.1%
34UB	Urban land-Sunnyside-Christiana complex, 0 to 8 percent slopes		4.7	0.2%
34UC	Urban land-Sunnyside-Christiana complex, 8 to 15 percent slopes		2.5	0.1%
35C	Sunnyside fine sandy loam, 8 to 15 percent slopes		1.7	0.1%
37	Sulfaquepts, frequently flooded		1.1	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
38C	Udorthents, clayey, very deep, 0 to 15 percent slopes		21.7	1.1%
39C	Udorthents, sanitary landfill, 0 to 15 percent slopes		1.1	0.1%
40E	Udorthents, loamy, very deep, 15 to 60 percent slopes		11.0	0.6%
42E	Udorthents, smoothed, 0 to 35 percent slopes		64.7	3.3%
43U	Urban land-Udorthents complex, occasionally flooded		3.4	0.2%
44UC	Urban land, 0 to 15 percent slopes		118.8	6.0%
W	Water		5.1	0.3%
<b>Subtotals for Soil Survey Area</b>			<b>264.8</b>	<b>13.4%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CeC	Christiana silt loam, 8 to 15 percent slopes		0.9	0.0%
CeD	Christiana silt loam, 15 to 40 percent slopes		0.5	0.0%
CfC	Christiana-Urban land complex, 8 to 15 percent slopes		0.9	0.0%
GeB	Galestown-Urban land complex, 0 to 8 percent slopes		0.6	0.0%
MvC	Muirkirk variant complex, 8 to 15 percent slopes		0.6	0.0%
SgD	Sassafras-Urban land complex, 15 to 40 percent slopes		0.8	0.0%
SpB	Sunnyside-Urban land complex, 0 to 8 percent slopes		0.7	0.0%
SpC	Sunnyside-Urban land complex, 8 to 15 percent slopes		0.3	0.0%
U1	Udorthents		0.5	0.0%
U10	Udorthents, clayey, smoothed		0.8	0.0%
Ub	Urban land		49.3	2.5%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UcB	Urban land-Beltsville complex, 0 to 8 percent slopes		2.0	0.1%
UeB	Urban land-Chillum complex, 0 to 8 percent slopes		1.7	0.1%
<b>Subtotals for Soil Survey Area</b>			<b>59.4</b>	<b>3.0%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AeB	Adelphia-Holmdel-Urban land complex, 0 to 5 percent slopes		1.5	0.1%
ApB	Aquasco silt loam, 2 to 5 percent slopes		1.1	0.1%
BaA	Beltsville silt loam, 0 to 2 percent slopes		3.1	0.2%
BaB	Beltsville silt loam, 2 to 5 percent slopes		3.1	0.2%
BaC	Beltsville silt loam, 5 to 10 percent slopes		5.3	0.3%
BuB	Beltsville-Urban land complex, 0 to 5 percent slopes		4.0	0.2%
BuD	Beltsville-Urban land complex, 5 to 15 percent slopes		0.1	0.0%
CcC	Christiana-Downer complex, 5 to 10 percent slopes		84.9	4.3%
CcD	Christiana-Downer complex, 10 to 15 percent slopes	High	24.1	1.2%
CcE	Christiana-Downer complex, 15 to 25 percent slopes		15.5	0.8%
CcF	Christiana-Downer complex, 25 to 40 percent slopes		0.2	0.0%
CdD	Christiana-Downer-Urban land complex, 5 to 15 percent slopes		32.4	1.6%
CdE	Christiana-Downer-Urban land complex, 15 to 25 percent slopes		0.1	0.0%
CF	Codorus and Hatboro soils, frequently flooded		4.3	0.2%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CoD	Collington-Wist-Urban land complex, 5 to 15 percent slopes		0.1	0.0%
CrB	Croom gravelly sandy loam, 2 to 5 percent slopes		0.4	0.0%
CrE	Croom gravelly sandy loam, 15 to 25 percent slopes		0.6	0.0%
DoB	Downer-Hammonton complex, 2 to 5 percent slopes		27.6	1.4%
DoC	Downer-Hamonton complex, 5 to 10 percent slopes		6.0	0.3%
DoD	Downer-Hammonton complex, 10 to 15 percent slopes		21.8	1.1%
EkA	Elkton silt loam, 0 to 2 percent slopes		3.7	0.2%
EwB	Evesboro-Downer complex 0 to 5 percent slopes		29.8	1.5%
EwC	Evesboro-Downer complex, 5 to 10 percent slopes		3.5	0.2%
EwD	Evesboro-Downer complex, 10 to 15 percent slopes		1.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain		2.2	0.1%
GbB	Galestown-Urban land complex, 0 to 5 percent slopes		17.6	0.9%
HaA	Hammonton loamy sand, 0 to 2 percent slopes		2.1	0.1%
Iu	Issue-Urban land complex, occasionally flooded		3.5	0.2%
LY	Longmarsh and Indiantown soils, frequently flooded		9.1	0.5%
PT	Pits, gravel		85.1	4.3%
RcA	Russett-Christiana complex, 0 to 2 percent slopes		8.8	0.4%
RcB	Russett-Christiana complex, 2 to 5 percent slopes		121.9	6.2%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
RuB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes		77.6	3.9%
SaaB	Sassafras sandy loam, 2 to 5 percent slopes, Northern Coastal Plain		1.9	0.1%
SaaC	Sassafras sandy loam, 5 to 10 percent slopes, Northern Coastal Plain		4.5	0.2%
ScC	Sassafras-Croom complex, 5 to 10 percent slopes		7.3	0.4%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes		0.0	0.0%
SOF	Sassafras and Croom soils, 25 to 40 percent slopes		1.5	0.1%
UdaF	Udorthents, highway, 0 to 65 percent slopes		26.5	1.3%
UdbB	Udorthents, loamy, 0 to 5 percent slopes		55.6	2.8%
UdbD	Udorthents, loamy, 5 to 15 percent slopes	Medium	1.0	0.1%
UdbE	Udorthents, loamy, 15 to 25 percent slopes		0.3	0.0%
UdcD	Udorthents, reclaimed clay pits, 5 to 15 percent slopes		0.5	0.0%
UdgB	Udorthents, reclaimed gravel pits, 0 to 5 percent slopes		175.3	8.8%
UgdD	Udorthents, reclaimed gravel pits, 5 to 15 percent slopes		46.5	2.3%
UdgE	Udorthents, reclaimed gravel pits, 15 to 25 percent slopes		12.6	0.6%
UduB	Udorthents-Urban land complex, 0 to 5 percent slopes		14.1	0.7%
UduD	Udorthents-Urban land complex, 5 to 15 percent slopes		10.7	0.5%
Un	Urban land		1.0	0.1%
UraB	Urban land-Adelphia complex, 0 to 5 percent slopes		14.2	0.7%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UrdB	Urban land-Collington-Wist complex, 0 to 5 percent slopes		23.3	1.2%
UreB	Urban land-Elsinboro complex, 0 to 5 percent slopes		4.2	0.2%
UrrB	Urban land-Russett-Christiana complex, 0 to 5 percent slopes		23.0	1.2%
W	Water		0.3	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain		6.5	0.3%
Zn	Zekiah-Urban land complex, frequently flooded		1.0	0.0%
ZS	Zekiah and Issue soils, frequently flooded		37.7	1.9%
<b>Subtotals for Soil Survey Area</b>			<b>1,071.4</b>	<b>54.1%</b>
<b>Totals for Area of Interest</b>			<b>1,981.1</b>	<b>100.0%</b>

## Description

Soil slippage potential is the hazard that a mass of soil will slip when vegetation is removed, soil water is at or near saturation, and other normal practices are applied. Conditions that increase the hazard of slippage but are not considered in this rating are undercutting lower portions or loading the upper parts of a slope or altering the drainage or offsite water contribution to the site, such as through irrigation.

Slippage is an important consideration for engineering practices, such as constructing roads and buildings, and for forestry practices.

Soil slippage potential classes are estimated by observing slope; lithology, including contrasting lithologies; strike and dip; surface drainage patterns; and occurrences of such features as slip scars and slumps.

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

## Rating Options

*Aggregation Method:* Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

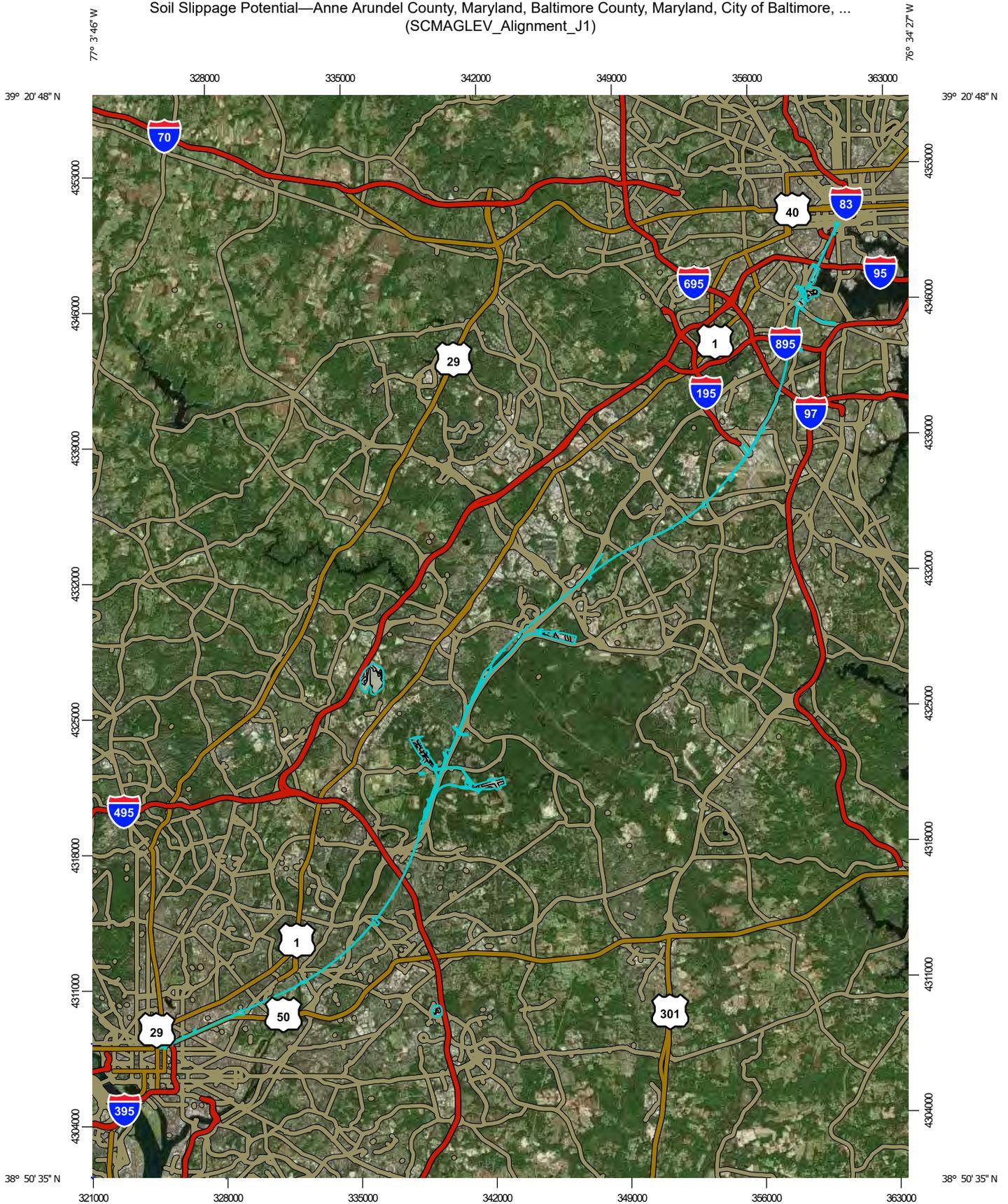
*Component Percent Cutoff: None Specified*

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

*Tie-break Rule: Higher*

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Soil Slippage Potential—Anne Arundel County, Maryland, Baltimore County, Maryland, City of Baltimore, ...  
(SCMAGLEV\_Alignment\_J1)



Map Scale: 1:272,000 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84



## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

#### Soil Rating Polygons

 Low  
 Moderately low  
 Medium  
 Moderately high  
 High  
 Not rated or not available

#### Soil Rating Lines

 Low  
 Moderately low  
 Medium  
 Moderately high  
 High  
 Not rated or not available

#### Soil Rating Points

 Low  
 Moderately low  
 Medium  
 Moderately high  
 High  
 Not rated or not available

### Water Features

 Streams and Canals

### Transportation

 Rails  
 Interstate Highways  
 US Routes  
 Major Roads  
 Local Roads

### Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Anne Arundel County, Maryland  
 Survey Area Data: Version 19, Jun 11, 2020

Soil Survey Area: Baltimore County, Maryland  
 Survey Area Data: Version 15, Jun 11, 2020

Soil Survey Area: City of Baltimore, Maryland  
 Survey Area Data: Version 16, Jun 11, 2020

Soil Survey Area: District of Columbia  
 Survey Area Data: Version 14, Jun 11, 2020

Soil Survey Area: Prince George's County, Maryland  
 Survey Area Data: Version 18, Jun 11, 2020

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 1, 1999—Dec 31, 2003

## MAP LEGEND

## MAP INFORMATION

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Soil Slippage Potential

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CbB	Chillum-Urban land complex, 0 to 5 percent slopes		0.0	0.0%
CcrB	Christiana-Sassafras complex, 2 to 5 percent slopes		36.4	1.9%
CcrC	Christiana-Sassafras complex, 5 to 10 percent slopes		38.1	2.0%
CdB	Christiana-Sassafras-Urban land complex, 0 to 5 percent slopes		1.3	0.1%
CdD	Christiana-Sassafras-Urban land complex, 5 to 15 percent slopes		2.1	0.1%
CHA	Codorus and Hatboro soils, 0 to 2 percent slopes, frequently flooded		2.1	0.1%
CTA	Comus and Codorus soils, 0 to 2 percent slopes, occasionally flooded		3.5	0.2%
DvB	Downer-Hammonton complex, 2 to 5 percent slopes		12.5	0.7%
DvD	Downer-Hammonton complex, 10 to 15 percent slopes		0.0	0.0%
DwB	Downer-Hammonton-Urban land complex, 0 to 5 percent slopes		8.7	0.5%
DxC	Downer-Phalanx complex, 5 to 10 percent slopes		3.7	0.2%
DxD	Downer-Phalanx complex, 10 to 15 percent slopes		0.6	0.0%
EuD	Evesboro-Galestown-Urban land complex, 5 to 15 percent slopes		4.9	0.3%
EuE	Evesboro-Galestown-Urban land complex, 15 to 25 percent slopes		1.9	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
EVC	Evesboro and Galestown soils, 5 to 10 percent slopes		2.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain		62.0	3.3%
GaB	Galestown loamy sand, 0 to 5 percent slopes		0.9	0.0%
MpB	Matapeake-Urban land complex, 0 to 5 percent slopes		0.5	0.0%
MpD	Matapeake-Urban land complex, 5 to 15 percent slopes		1.0	0.1%
MZA	Misplion and Transquaking soils, 0 to 1 percent slopes, tidally flooded		1.7	0.1%
PeB	Patapsco-Evesboro-Fort Mott complex, 0 to 5 percent slopes		1.4	0.1%
PfB	Patapsco-Fort Mott complex, 0 to 5 percent slopes		9.7	0.5%
PgB	Patapsco-Fort Mott-Urban land complex, 0 to 5 percent slopes		24.1	1.3%
RhB	Russett-Christiana-Hambrook complex, 0 to 5 percent slopes		36.2	1.9%
RhC	Russett-Christiana-Hambrook complex, 5 to 10 percent slopes		20.0	1.1%
RhD	Russett-Christiana-Hambrook complex, 10 to 15 percent slopes		7.0	0.4%
RkB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes		4.3	0.2%
RyB	Russett-Urban land complex, 0 to 5 percent slopes		2.0	0.1%
SaB	Sassafras fine sandy loam, 2 to 5 percent slopes		21.0	1.1%
SfB	Sassafras loam, 2 to 5 percent slopes		1.4	0.1%
ShA	Sassafras-Hambrook complex, 0 to 2 percent slopes		12.2	0.6%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
SME	Sassafras and Croom soils, 15 to 25 percent slopes		1.4	0.1%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes		0.7	0.0%
SnD	Sassafras-Urban land complex, 5 to 15 percent slopes		4.3	0.2%
UoB	Udorthents, loamy, 0 to 5 percent slopes		6.2	0.3%
UoD	Udorthents, loamy, 5 to 15 percent slopes		6.1	0.3%
UoE	Udorthents, loamy, 15 to 25 percent slopes		10.8	0.6%
Uz	Urban land		49.4	2.6%
W	Water		1.5	0.1%
WdaA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Coastal Plain		0.8	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain		1.5	0.1%
WrB	Woodstown-Urban land complex, 0 to 5 percent slopes		0.3	0.0%
ZBA	Zekiah and Issue soils, 0 to 2 percent slopes, frequently flooded		32.1	1.7%
<b>Subtotals for Soil Survey Area</b>			<b>438.4</b>	<b>23.2%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
BfB	Beltsville-Urban land complex, 0 to 5 percent slopes		1.8	0.1%
CfA	Codorus silt loams, 0 to 3 percent slopes		0.2	0.0%
CoD	Croom-Urban land complex, 5 to 15 percent slopes		0.5	0.0%
FBA	Fallsington-Urban land complex, 0 to 2 percent slopes		0.3	0.0%
KuB	Keyport-Urban land complex, 0 to 5 percent slopes		1.2	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
MT	Mispillion and Transquaking soils, 0 to 1 percent slopes, tidally flooded		0.2	0.0%
RuB	Russett-Urban land complex, 0 to 5 percent slopes		1.4	0.1%
RuD	Russett-Urban land complex, 5 to 15 percent slopes		5.4	0.3%
SfB	Sassafras-Urban land complex, 0 to 5 percent slopes		0.2	0.0%
UaD	Udorthents, 15 to 25 percent slopes		0.2	0.0%
UcF	Udorthents, highway, 0 to 65 percent slopes		1.5	0.1%
Ur	Urban land, 0 to 8 percent slopes		26.9	1.4%
W	Water		0.1	0.0%
<b>Subtotals for Soil Survey Area</b>			<b>39.8</b>	<b>2.1%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
7UC	Christiana-Urban land complex, 8 to 15 percent slopes		1.5	0.1%
15UB	Keyport-Urban land complex, 0 to 8 percent slopes		0.1	0.0%
25B	Mattapex silt loam, 2 to 5 percent slopes, northern coastal plain	Low	5.0	0.3%
33UB	Urban land-Sunnyside complex, 0 to 8 percent slopes		22.3	1.2%
34UB	Urban land-Sunnyside-Christiana complex, 0 to 8 percent slopes		4.7	0.3%
34UC	Urban land-Sunnyside-Christiana complex, 8 to 15 percent slopes		2.5	0.1%
35C	Sunnyside fine sandy loam, 8 to 15 percent slopes		1.7	0.1%
37	Sulfaquepts, frequently flooded		1.1	0.1%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
38C	Udorthents, clayey, very deep, 0 to 15 percent slopes		21.7	1.1%
39C	Udorthents, sanitary landfill, 0 to 15 percent slopes		1.1	0.1%
40E	Udorthents, loamy, very deep, 15 to 60 percent slopes		11.0	0.6%
42E	Udorthents, smoothed, 0 to 35 percent slopes		64.7	3.4%
43U	Urban land-Udorthents complex, occasionally flooded		3.4	0.2%
44UC	Urban land, 0 to 15 percent slopes		118.8	6.3%
W	Water		5.1	0.3%
<b>Subtotals for Soil Survey Area</b>			<b>264.8</b>	<b>14.0%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CeC	Christiana silt loam, 8 to 15 percent slopes		0.9	0.0%
CeD	Christiana silt loam, 15 to 40 percent slopes		0.5	0.0%
CfC	Christiana-Urban land complex, 8 to 15 percent slopes		0.9	0.0%
GeB	Galestown-Urban land complex, 0 to 8 percent slopes		0.6	0.0%
MvC	Muirkirk variant complex, 8 to 15 percent slopes		0.6	0.0%
SgD	Sassafras-Urban land complex, 15 to 40 percent slopes		0.8	0.0%
SpB	Sunnyside-Urban land complex, 0 to 8 percent slopes		0.7	0.0%
SpC	Sunnyside-Urban land complex, 8 to 15 percent slopes		0.3	0.0%
U1	Udorthents		0.5	0.0%
U10	Udorthents, clayey, smoothed		0.8	0.0%
Ub	Urban land		49.3	2.6%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UcB	Urban land-Beltsville complex, 0 to 8 percent slopes		2.0	0.1%
UeB	Urban land-Chillum complex, 0 to 8 percent slopes		1.7	0.1%
<b>Subtotals for Soil Survey Area</b>			<b>59.4</b>	<b>3.1%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AeB	Adelphia-Holmdel-Urban land complex, 0 to 5 percent slopes		1.5	0.1%
ApB	Aquasco silt loam, 2 to 5 percent slopes		0.7	0.0%
BaB	Beltsville silt loam, 2 to 5 percent slopes		9.5	0.5%
BaC	Beltsville silt loam, 5 to 10 percent slopes		11.7	0.6%
CcC	Christiana-Downer complex, 5 to 10 percent slopes		85.5	4.5%
CcD	Christiana-Downer complex, 10 to 15 percent slopes	High	24.9	1.3%
CcE	Christiana-Downer complex, 15 to 25 percent slopes		15.0	0.8%
CcF	Christiana-Downer complex, 25 to 40 percent slopes		0.1	0.0%
CdD	Christiana-Downer-Urban land complex, 5 to 15 percent slopes		32.5	1.7%
CdE	Christiana-Downer-Urban land complex, 15 to 25 percent slopes		0.1	0.0%
CF	Codorus and Hatboro soils, frequently flooded		8.7	0.5%
CoD	Collington-Wist-Urban land complex, 5 to 15 percent slopes		0.1	0.0%
CrB	Croom gravelly sandy loam, 2 to 5 percent slopes		0.4	0.0%
CrC	Croom gravelly sandy loam, 5 to 10 percent slopes		0.6	0.0%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CrD	Croom gravelly sandy loam, 10 to 15 percent slopes		2.5	0.1%
CrE	Croom gravelly sandy loam, 15 to 25 percent slopes		0.6	0.0%
DoB	Downer-Hammonton complex, 2 to 5 percent slopes		26.6	1.4%
DoC	Downer-Hamonton complex, 5 to 10 percent slopes		1.2	0.1%
DoD	Downer-Hammonton complex, 10 to 15 percent slopes		21.7	1.1%
EkA	Elkton silt loam, 0 to 2 percent slopes		5.3	0.3%
EwB	Evesboro-Downer complex 0 to 5 percent slopes		24.6	1.3%
EwC	Evesboro-Downer complex, 5 to 10 percent slopes		3.3	0.2%
EwD	Evesboro-Downer complex, 10 to 15 percent slopes		1.1	0.1%
FaaA	Fallsington sandy loams, 0 to 2 percent slopes, northern coastal plain		2.4	0.1%
GbB	Galestown-Urban land complex, 0 to 5 percent slopes		17.6	0.9%
HaA	Hammonton loamy sand, 0 to 2 percent slopes		2.3	0.1%
Iu	Issue-Urban land complex, occasionally flooded		2.2	0.1%
LY	Longmarsh and Indiantown soils, frequently flooded		8.5	0.4%
PT	Pits, gravel		85.1	4.5%
RcA	Russett-Christiana complex, 0 to 2 percent slopes		8.1	0.4%
RcB	Russett-Christiana complex, 2 to 5 percent slopes		109.6	5.8%
RuB	Russett-Christiana-Urban land complex, 0 to 5 percent slopes		86.2	4.6%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
SaaB	Sassafras sandy loam, 2 to 5 percent slopes, Northern Coastal Plain		3.4	0.2%
SaaC	Sassafras sandy loam, 5 to 10 percent slopes, Northern Coastal Plain		7.4	0.4%
ScC	Sassafras-Croom complex, 5 to 10 percent slopes		4.8	0.3%
SnB	Sassafras-Urban land complex, 0 to 5 percent slopes		0.3	0.0%
SOF	Sassafras and Croom soils, 25 to 40 percent slopes		0.0	0.0%
UdaF	Udorthents, highway, 0 to 65 percent slopes		26.6	1.4%
UdbB	Udorthents, loamy, 0 to 5 percent slopes		55.7	2.9%
UdbD	Udorthents, loamy, 5 to 15 percent slopes	Medium	1.0	0.1%
UdbE	Udorthents, loamy, 15 to 25 percent slopes		0.2	0.0%
UdgB	Udorthents, reclaimed gravel pits, 0 to 5 percent slopes		175.3	9.3%
UdgD	Udorthents, reclaimed gravel pits, 5 to 15 percent slopes		46.5	2.5%
UdgE	Udorthents, reclaimed gravel pits, 15 to 25 percent slopes		12.6	0.7%
UduB	Udorthents-Urban land complex, 0 to 5 percent slopes		15.7	0.8%
UduD	Udorthents-Urban land complex, 5 to 15 percent slopes		10.9	0.6%
Un	Urban land		0.6	0.0%
UraB	Urban land-Adelphia complex, 0 to 5 percent slopes		14.2	0.8%
UrdB	Urban land-Collington-Wist complex, 0 to 5 percent slopes		23.3	1.2%
UreB	Urban land-Elsinboro complex, 0 to 5 percent slopes		4.0	0.2%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
UrrB	Urban land-Russett-Christiana complex, 0 to 5 percent slopes		23.6	1.2%
UrzA	Urban land-Zekiah complex, 0 to 2 percent slopes, frequently flooded		0.7	0.0%
W	Water		0.3	0.0%
WdaB	Woodstown sandy loam, 2 to 5 percent slopes, Northern Coastal Plain		7.7	0.4%
WuB	Woodstown-Urban land complex, 0 to 5 percent slopes		1.6	0.1%
Zn	Zekiah-Urban land complex, frequently flooded		1.0	0.1%
ZS	Zekiah and Issue soils, frequently flooded		53.7	2.8%
<b>Subtotals for Soil Survey Area</b>			<b>1,091.2</b>	<b>57.6%</b>
<b>Totals for Area of Interest</b>			<b>1,893.6</b>	<b>100.0%</b>

## Description

Soil slippage potential is the hazard that a mass of soil will slip when vegetation is removed, soil water is at or near saturation, and other normal practices are applied. Conditions that increase the hazard of slippage but are not considered in this rating are undercutting lower portions or loading the upper parts of a slope or altering the drainage or offsite water contribution to the site, such as through irrigation.

Slippage is an important consideration for engineering practices, such as constructing roads and buildings, and for forestry practices.

Soil slippage potential classes are estimated by observing slope; lithology, including contrasting lithologies; strike and dip; surface drainage patterns; and occurrences of such features as slip scars and slumps.

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

## Rating Options

*Aggregation Method:* Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

*Component Percent Cutoff: None Specified*

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

*Tie-break Rule: Higher*

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

### **C.3 – SOILS TABLES**

#### **Table C-1: Soil Presence**

#### **Table C-2: Total Farmland Impacts by Build Alternative**

**Table C-1: Soil Presence**

Soil	Map Unit Symbol	Soil Description	Presence in Alignment		Presence in Stations				Presence in TMF			Shrink-Swell Potential	Erosion Hazard	Corrosion Risk		
			BWP East	BWP West	Mount Vernon Square East	BWI Marshall Airport	Cherry Hill	Camden Yards	BARC Airstrip	BARC West	MD 198			Steel	Concrete	
Adelphia	AeB	These soils are very deep, and moderately well drained. Parent material consists of glauconite bearing eolian and/or fluviomarine deposits. These soils are found on the Northern Atlantic Coastal Plain. Slopes range from 0 to 10 percent.	X	X	-	-	-	-	-	-	-	Low	Not Rated	High	High	
Aquasco	ApB	These soils are very deep, and somewhat poorly drained. Parent material consists of silty eolian overlain by loamy fluviomarine deposits. These soils are found on uplands of the Coastal Plain. Slopes range from 0 to 5 percent.	X	X	-	-	-	-	-	-	-	Low	Moderate	High	High	
Beltsville	BfB	These soils are very deep and moderately well drained. Parent material consists of silty eolian over loamy fluviomarine deposits. These soils are found on the uplands of the Coastal Plain. Slopes range from 0 to 40 percent.	X	X	-	-	-	-	-	-	-	Low	Slight	High	High	
	BuB		X	-	-	-	-	-	-	-	X	Low	Slight	High	High	
	BaB		X	X	-	-	-	-	-	-	X	X	Low	Slight	Moderate	High
	BaC		X	X	-	-	-	-	-	-	-	X	Low	Slight	Moderate	High
	BaA		X	-	-	-	-	-	-	-	X	X	Low	Slight	Moderate	High
	BuD		X	-	-	-	-	-	-	-	-	-	Low	Slight	Moderate	High
Chillum	CaB	These soils are very deep and well drained. Parent material consists of silty eolian material underlain by loamy marine sediments. These soils are found on uplands of the Coastal Plain. Slopes range from 0 to 40 percent.	X	-	-	-	-	-	-	-	-	Low	Slight	Moderate	High	
	CbB		X	X	-	-	-	-	-	-	-	Low	Not Rated	Moderate	Not Rated	

Soil	Map Unit Symbol	Soil Description	Presence in Alignment		Presence in Stations				Presence in TMF			Shrink-Swell Potential	Erosion Hazard	Corrosion Risk	
			BWP East	BWP West	Mount Vernon Square East	BWI Marshall Airport	Cherry Hill	Camden Yards	BARC Airstrip	BARC West	MD 198			Steel	Concrete
Christiana	CcrB, CcrC	These soils are very deep and moderatley well drained. Parent material consists of clayey fluviomarine deposits. These soils are found on uplands of the Coastal Plain. Slope ranges from 0 to 40 percent.	X	X	-	-	-	-	-	-	-	Low	Slight	High	High
	CcC		X	X	-	-	-	-	X	X	X	Low	Slight	High	High
	CdB		X	X	-	-	-	-	-	-	-	Low	Slight	High	High
	7UC		-	-	-	-	-	-	-	-	-	Moderate	Moderate	High	High
	CeC, CfC		X	X	-	-	-	-	-	-	-	Moderate	Slight	High	High
	CcD, CcE		X	X	-	-	-	-	X	X	-	Low	Moderate	High	High
	CdE		X	X	-	-	-	-	-	-	-	Low	Moderate	High	High
	CcF		X	X	-	-	-	-	-	-	-	Low	Severe	High	High
	CeD		X	X	-	-	-	-	-	-	-	Moderate	Severe	High	High
	CdD		X	X	-	-	-	-	X	X	X	Low	Not Rated	High	High
Codorus	CfA	These soils are very deep, moderately well drained and somewhat poorly drained soils. These soils formed in recently deposited alluvial materials derived from upland soils materials weathered from mostly metamorphic and crystalline rocks. They are on floodplains with smooth, nearly level slopes of 0 to 3 percent.	X	X	-	-	-	-	-	-	-	Low	Slight	High	Moderate
	CHA		X	X	-	-	-	-	-	-	-	Low	Slight	High	Moderate
	CF		X	X	-	-	-	-	-	-	X	Low	Slight	High	Moderate
Collington-Wist-Urban land	CoD	These soils are very deep and well drained. Parent material consists of glauconite bearing eolian and/or fluviomarine deposits. They are found on the Northern Atlantic Coastal Plain.	X	X	-	-	-	-	-	-	-	Low	Moderate	Moderate	High

Soil	Map Unit Symbol	Soil Description	Presence in Alignment		Presence in Stations				Presence in TMF			Shrink-Swell Potential	Erosion Hazard	Corrosion Risk		
			BWP East	BWP West	Mount Vernon Square East	BWI Marshall Airport	Cherry Hill	Camden Yards	BARC Airstrip	BARC West	MD 198			Steel	Concrete	
Comus	CTA	The Comus series consists of very deep, well drained soils on floodplains. They formed in alluvium high in mica. Slopes range from 0 to 8 percent.	-	X	-	-	-	-	-	-	X	Low	Slight	Moderate	High	
Croom	CrB	These soils are very deep and well drained. Parent material consists of gravelly fluvial deposits. They are found on the Northern Atlantic Coastal Plain. Slopes range from 0 to 60 percent.	X	X	-	-	-	-	-	-	-	Low	Slight	Moderate	High	
	CrC		-	-	-	-	-	-	-	-	X	Low	Moderate	Moderate	High	
	CrD		-	X	-	-	-	-	-	-	-	-	Low	Severe	Moderate	High
	CrE		X	X	-	-	-	-	-	-	-	-	Low	Severe	Moderate	High
	CoD		X	X	-	-	-	-	-	-	-	-	Low	Moderate	Moderate	High
Downer	DxC, DxD, DvB, DvD	These soils are very deep and well drained. Parent material is loamy fluviomarine deposits on the Northern Atlantic Coastal Plain. Slopes range from 0 to 30 percent.	X	X	-	-	-	-	-	-	-	Low	Slight	Low	High	
	DoC		X	X	-	-	-	-	X	X	X	Low	Slight	Low	High	
	DvC		X	-	-	-	-	-	-	-	-	Low	Slight	Low	High	
	DoB		X	-	-	-	-	-	X	X	-	Low	Slight	Low	High	
	DwB		X	X	-	-	-	-	-	-	X	Low	Slight	High	High	
	DoD		-	X	-	-	-	-	-	X	X	-	Low	Moderate	Low	High
Elkton	EkA	These soils are very deep and poorly drained. Parent material consists of silty eolian material underlain by loamy alluvial or marine sediments. They are found on low-lying uplands, lowlands, and ancient floodplains of the Coastal Plain. Slopes range from 0 to 2 percent.	-	X	-	-	-	-	-	X	-	Low	Slight	High	High	
Evesboro	EuD, EVC	These soils are very deep and excessively drained. Parent	X	X	-	-	-	-	-	-	-	Low	Slight	Low	High	

Soil	Map Unit Symbol	Soil Description	Presence in Alignment		Presence in Stations				Presence in TMF			Shrink-Swell Potential	Erosion Hazard	Corrosion Risk	
			BWP East	BWP West	Mount Vernon Square East	BWI Marshall Airport	Cherry Hill	Camden Yards	BARC Airstrip	BARC West	MD 198			Steel	Concrete
	EwB	material consists of sandy marine and eolian deposits. They are found on flats, knolls, and ancient dunes on uplands of the Coastal Plain. Slopes range from 0 to 40 percent but commonly 0 to 5 percent.	X	-	-	-	-	-	X	X	X	Low	Slight	Low	High
	EuE		X	X	-	-	-	-	-	-	-	Low	Moderate	Low	High
	EwC		-	-	-	-	-	-	-	X	-	Low	Slight	Low	High
	EwD		-	-	-	-	-	-	X	-	-	Low	Moderate	Low	High
Fallsington	FaaA	These soils are very deep and poorly drained. Parent material consists of loamy fluviomarine sediments. They are found on flats, swales, drainageways, and depressions on uplands of the Coastal Plain. Slopes range from 0 to 5 percent.	X	X	-	-	-	-	-	X	X	Low	Slight	High	High
	FBA		X	X	-	-	-	-	-	-	-	Low	Slight	High	High
Galestown	GaB, GeB	These soils are very deep and somewhat excessively drained. Parent material consists of sandy eolian and/or fluviomarine sediments. They are found on flats, knolls, fluviomarine terraces, and ancient dunes on uplands of the Coastal Plains. Slopes range from 0 to 60 percent.	X	X	-	-	-	-	-	-	-	Low	Slight	Low	High
	GbB		-	X	-	-	-	-	X	-	-	Low	Slight	Low	High

Soil	Map Unit Symbol	Soil Description	Presence in Alignment		Presence in Stations				Presence in TMF			Shrink-Swell Potential	Erosion Hazard	Corrosion Risk	
			BWP East	BWP West	Mount Vernon Square East	BWI Marshall Airport	Cherry Hill	Camden Yards	BARC Airstrip	BARC West	MD 198			Steel	Concrete
Hammonton	HaA	These soils are very deep and moderately well drained. Parent material consists of loamy fluviomarine sediments. They are found on flats, depressions, and drainageways on uplands of the Coastal Plain. Slopes range from 0 to 15 percent.	-	-	-	-	-	-	-	X	-	Low	Slight	High	High
Issue	Iu	These soils are very deep and somewhat poorly drained. Parent material is loamy and sandy alluvium. They are found on floodplains of the Coastal Plain. Slopes range from 0 to 5 percent.	X	X	-	-	-	-	-	-	X	Low	Slight	High	High
Keyport	KuB	These soils are very deep and moderately well drained. Parent material consists of moderatley fine textured fluviomarine sediments. They are found on broad interstream divides and slight depressions on the Coastal Plain. Slopes range from 0 to 25 percent.	X	X	-	-	X	-	-	-	-	Low	Slight	High	High
	15UB		-	-	-	-	X	-	-	-	-	Low	Moderate	High	High
Longmarsh and Indiantown	LY	These soils are very deep, very poorly drained soils that formed in loamy alluvium over sandy and gravelly sediments. The Longmarsh soils are on floodplains on the Mid-Atlantic Coastal Plain. Slopes range from 0 to 2 percent.	X	X	-	-	-	-	X	-	-	Low	Slight	High	High
Matapeake	MpB	These soils are very deep and well drained. Parent material consists of silty eolian	X	X	-	-	-	-	-	-	-	Low	Slight	Moderate	High

Soil	Map Unit Symbol	Soil Description	Presence in Alignment		Presence in Stations				Presence in TMF			Shrink-Swell Potential	Erosion Hazard	Corrosion Risk	
			BWP East	BWP West	Mount Vernon Square East	BWI Marshall Airport	Cherry Hill	Camden Yards	BARC Airstrip	BARC West	MD 198			Steel	Concrete
	MpD	sediments underlain by coarser fluvial or marine sediments. They are found on upland interfluves and side slopes of the Coastal Plain. Slopes range from 0 to 30 percent.	X	X	-	-	-	-	-	-	-	Low	Moderate	Moderate	High
Mattapex	25B	These soils are very deep and moderately well drained. Parent material consists of silty eolian deposits over fluviomarine sediments. They are found on flats, depressions, swales, marine terraces and uplands on lowlands and uplands of the Coastal Plain. Slopes range from 0 to 30 percent.	X	X	-	-	-	-	-	-	-	Low	Slight	High	High
Mispillion	MZA	These soils are very deep and very poorly drained. Parent material consists of organic deposits from dominantly herbaceous plants, underlain by loamy fluvial or marine mineral sediments. They are found on salt marshes in estuaries and along tidally influenced rivers on marshes on the Coastal Plain. Slopes range from 0 to 1 percent.	X	X	-	-	-	-	-	-	-	Low	Slight	High	High
	MT		X	X	-	-	-	-	-	-	-	Moderate	Slight	High	High

Soil	Map Unit Symbol	Soil Description	Presence in Alignment		Presence in Stations				Presence in TMF			Shrink-Swell Potential	Erosion Hazard	Corrosion Risk	
			BWP East	BWP West	Mount Vernon Square East	BWI Marshall Airport	Cherry Hill	Camden Yards	BARC Airstrip	BARC West	MD 198			Steel	Concrete
Muirkirk	MvC	These soils are very deep, well drained to somewhat excessively drained, moderately slow to slowly permeable soils on uplands. They formed in a coarse textured mantle and the underlying older clayey sediments. Slopes range from 0 to 40 percent.	X	X	-	-	-	-	-	-	-	Low	Slight	Moderate	Moderate
Patapsco	PeB, PgB	These soils are very deep and somewhat excessively drained. Parent material consists of sandy eolian deposits over fluviomarine deposits. They are found on interfluves on uplands of the Coastal Plain. Slopes range from 0 to 15 percent.	X	X	-	-	-	-	-	-	-	Low	Slight	Low	High
	PfB		X	X	-	-	-	-	-	-	X	Low	Slight	Low	High
	PfD		X	-	-	-	-	-	-	-	-	Low	Slight	Low	High
Pits	PT	-	X	X	-	-	-	-	-	-	-	Not Rated	Not Rated	Not Rated	Not Rated
Russett	RhB, RhC, RhD, RkB	These soils are very deep and moderately well drained. Parent material is mixed sandy and loamy fluviomarine deposits. They are found on complex linear to concave uplands and side slopes of the Northern Mid-Atlantic Coastal Plain. Slopes range from 0 to 50 percent.	X	X	-	-	-	-	-	-	X	Low	Slight	High	High
	RcA, RcB		X	X	-	-	-	-	X	X	X	Low	Slight	High	High
	RuB		X	X	-	-	-	-	X	X	-	Low	Slight	High	High
	RyB		-	X	-	-	-	-	-	-	X	Low	Slight	High	Not Rated
	RuD		X	X	-	-	X	-	-	-	-	Low	Not Rated	High	Not Rated
Sassafras	SnB	These soils are very deep and well drained. Parent material is loamy fluviomarine sediments. They are found of fluviomarine terraces and flats of the	X	X	-	-	-	-	-	-	-	Low	Slight	Low	High
	SfB		X	X	-	-	-	-	-	-	X	Low	Slight	Low	High
	ScC		X	-	-	-	-	-	X	X	X	Low	Slight	Moderate	High
	SaB		X	X	-	-	-	-	-	-	-	Low	Slight	High	Moderate

Soil	Map Unit Symbol	Soil Description	Presence in Alignment		Presence in Stations				Presence in TMF			Shrink-Swell Potential	Erosion Hazard	Corrosion Risk	
			BWP East	BWP West	Mount Vernon Square East	BWI Marshall Airport	Cherry Hill	Camden Yards	BARC Airstrip	BARC West	MD 198			Steel	Concrete
	ShA	uplands on the Coastal Plain. Slopes range from 0 to 45 percent.	X	X	-	-	-	-	-	-	X	Low	Slight	High	Moderate
	SnD		X	X	-	-	-	-	-	-	-	Low	Slight	High	High
	SME		X	X	-	-	-	-	-	-	-	Low	Moderate	Moderate	High
	SOF		X	-	-	-	-	-	X	X	X	Low	Moderate	Moderate	High
	SgD		X	X	-	-	-	-	-	-	-	Low	Severe	Low	High
	SaaB		-	X	-	-	-	-	X	-	-	Low	Slight	Low	High
	SaaC		-	X	-	-	-	-	X	-	-	Low	Moderate	Low	High
Sunnyside	SpC	These soils are very deep, well drained moderately permeable soils on uplands of the inner portion of the northern Atlantic Coastal Plain. They formed in unconsolidated sandy fluvial sediments. Slope ranges from 0 to 50 percent.	X	X	-	-	X	-	-	-	-	Low	Slight	Low	High
	35C		-	-	-	-	X	-	-	-	-	Low	Slight	Low	High
	SpB		X	X	-	-	-	-	-	-	-	Low	Moderate	Not Rated	High

Soil	Map Unit Symbol	Soil Description	Presence in Alignment		Presence in Stations				Presence in TMF			Shrink-Swell Potential	Erosion Hazard	Corrosion Risk		
			BWP East	BWP West	Mount Vernon Square East	BWI Marshall Airport	Cherry Hill	Camden Yards	BARC Airstrip	BARC West	MD 198			Steel	Concrete	
Sulfaquepts	37	Sulfaquepts consist of nearly level, very deep, very poorly drained soils developed from sulfur-rich, dredged harbor sediments. The sediments were deposited along dikes on the shore and in tidal marshes and floodplains of the Coastal Plain. They were used to make sites for buildings, roads, railroads, recreation areas, and other uses. Most areas are inundated by the Patapsco River and the Chesapeake Bay for part of the year. Slopes range from nearly level to gently sloping but are dominantly nearly level. The thickness of the fill varies, but is more than 2 feet.	-	-	-	-	X	X	-	-	-	Not Rated	Not Rated	Not Rated	Not Rated	
Udorthents	UoB, UoD	Udorthents are made up of very heterogeneous, earthy fill material that has been placed on poorly drained to somewhat excessively drained soils on uplands, terraces, and floodplains of the Coastal Plain and Piedmont to provide sites for buildings, roads, railroads, recreation areas, and other uses. Slopes are very complex and irregular; they range from nearly level to steep but are dominantly nearly level to moderately sloping. Some areas are hummocky. The	X	X	-	-	-	-	-	-	X	Low	Slight	Moderate	High	
	UdbB		X	X	-	-	-	-	X	-	-	Low	Slight	Moderate	High	
	UdbD		X	X	-	-	-	-	-	-	-	Low	Slight	Moderate	High	
	38C		X	X	-	-	X	-	-	-	-	Moderate	Slight	High	Moderate	
	U10		X	X	-	-	-	-	-	-	-	Moderate	Slight	High	Moderate	
	40E		-	-	-	-	X	-	-	-	-	Low	Severe	High	High	
	UdcD		X	-	-	-	-	-	-	-	-	Moderate	Slight	High	High	
	39C		X	X	-	-	X	X	-	-	-	Not Rated	Not Rated	Not Rated	Not Rated	
	UcF		X	X	-	-	-	-	-	-	-	Not Rated	Not Rated	Not Rated	Not Rated	
	UdaF		X	X	-	-	-	-	-	X	X	X	Not Rated	Not Rated	Not Rated	Not Rated
	U1		X	X	X	-	-	-	-	-	-	-	Not Rated	Not Rated	Not Rated	Not Rated
42E	X	X	-	-	X	X	-	-	-	-	Low	Moderate	High	High		

Soil	Map Unit Symbol	Soil Description	Presence in Alignment		Presence in Stations				Presence in TMF			Shrink-Swell Potential	Erosion Hazard	Corrosion Risk	
			BWP East	BWP West	Mount Vernon Square East	BWI Marshall Airport	Cherry Hill	Camden Yards	BARC Airstrip	BARC West	MD 198			Steel	Concrete
	UaD	thickness of the fill is quite variable, but it is more than 20 inches. The fill is a mixture of organic and inorganic waste from human activity and sandy, gravelly, clayey, silty, and micaceous soil material. Most areas of this map unit are subject to subsidence and, therefore, have poor potential for use as building sites. A detailed onsite investigation is needed to determine the potentials and limitations of these areas for any proposed use.	X	X	-	-	-	-	-	-	-	Moderate	Moderate	Low	High
	UdbE, UdgD		X	X	-	-	-	-	-	-	-	Low	Moderate	Moderate	High
	UoE		X		-	-	-	-	-	-	X	Low	Moderate	Moderate	High
	UduB, UduD		X	X	-	-	-	-	-	-	-	Low	Slight	Moderate	High
	UdgB		X	X	-	-	-	-	-	-	-	Low	Slight	High	High
	UdgE		X	X	-	-	-	-	-	-	-	Low	Severe	Moderate	High
Urban land	33UB, 34UC	Urban Land consists of nearly level to moderately sloping areas that are more than 80 percent covered by asphalt, concrete, buildings, or other impervious surfaces. Included in mapping are large areas that are mostly miscellaneous artificial fill. In many areas, several feet of this fill have been placed over streams, swamps, floodplains, and tidal marshes. Careful onsite investigation is needed to determine the potentials and limitations for any proposed use.	-	-	-	-	X	-	-	-	-	Not Rated	Not Rated	Not Rated	Not Rated
	34UB, Ur		X	X	-	-	X	-	-	-	-	Not Rated	Not Rated	Not Rated	Not Rated
	43U, 44UC		X	X	-	-	X	X	-	-	-	Not Rated	Not Rated	Not Rated	Not Rated
	Uz		X	X	-	X	-	-	-	-	-	Not Rated	Not Rated	Not Rated	Not Rated
	UcB, UreB		X	X	-	-	-	-	-	-	-	Not Rated	Not Rated	Not Rated	Not Rated
	UeB		-	-	X	-	-	-	-	-	-	Not Rated	Not Rated	Not Rated	Not Rated
	Ub		X	X	X	-	-	-	-	-	-	Not Rated	Not Rated	Not Rated	Not Rated
	Un, UrrB		X	X	-	-	-	-	-	-	-	Not Rated	Not Rated	Not Rated	Not Rated
	UrzA		-	X	-	-	-	-	-	-	X	Not Rated	Not Rated	Not Rated	Not Rated
UraB, UrdB	X	X	-	-	-	-	-	-	-	Not Rated	Not Rated	High	Not Rated		
Water	W	-	X	X	-	-	X	X	-	-	X	Not Rated	Not Rated	Not Rated	Not Rated

Soil	Map Unit Symbol	Soil Description	Presence in Alignment		Presence in Stations				Presence in TMF			Shrink-Swell Potential	Erosion Hazard	Corrosion Risk	
			BWP East	BWP West	Mount Vernon Square East	BWI Marshall Airport	Cherry Hill	Camden Yards	BARC Airstrip	BARC West	MD 198			Steel	Concrete
Woodstown	WdaB	These soils are very deep and moderately well drained. Parent material consists of sandy marine and old alluvial sediments. They are found on upland marine terraces and old stream terraces on the Coastal Plain. Slopes range from 0 to 30 percent.	X	X	-	-	-	-	X	-	-	Low	Slight	Moderate	High
	WuB		-	X	-	-	-	-	-	-	-	Low	Slight	Moderate	High
	WdaA, WrB		X	X	-	-	-	-	-	-	-	Low	Slight	Moderate	High
Zekiah	ZBA	These soils are very deep and poorly drained. They formed in loamy alluvium. They are found on floodplains of the Coastal Plain. Slopes range from 0 to 2 percent.	X	X	-	-	-	-	-	-	X	Low	Slight	High	High
	ZS		X	X	-	-	-	-	X	X	X	Low	Slight	High	High
	Zn		-	-	-	-	-	-	X	-	-	Low	Not Rated	High	High

**Table C-2: Acres of Direct Conversion of Prime Farmland Soils and Farmland Soils of Statewide Importance**

Build Alternative	Alignment	Stations				TMF			Total Acres of Direct Farmland Conversion
		Mount Vernon Square East	BWI Marshall Airport	Cherry Hill	Camden Yards	BARC Airstrip	BARC West	MD 198	
J-01	81	0	0	0	-	-	-	129	210
J-02	82	0	0	0	-	75	-	-	158
J-03	83	0	0	0	-	-	142	-	226
J-04	81	0	0	-	0	-	-	129	210
J-05	82	0	0	-	0	75	-	-	158
J-06	83	0	0	-	0	-	142	-	226
J1-01	50	0	0	0	-	-	-	140	191
J1-02	57	0	0	0	-	73	-	-	130
J1-03	52	0	0	0	-	-	147	-	199
J1-04	50	0	0	-	0	-	-	140	191
J1-05	57	0	0	-	0	73	-	-	130
J1-06	52	0	0	-	0	-	147	-	199

All values rounded to nearest whole number

## **ATTACHMENT D – WATER RESOURCES**

**Table D-1: Permanent Impacts to Watersheds**

**Table D-2: Water Quality Summary**

**Table D-3: Acres of Floodplain Impact by Build Alternative**

**Table D-3A: Acres of Floodplain Impact on NPS Property**

**D-4: Groundwater Supply Well Owner(s) within WHPAs**

**Table D-1: Permanent Impacts to Watersheds (acres)**

Watershed	Major Waterway Crossings*	Location	J-01	J-02	J-03	J-04	J-05	J-06	J1-01	J1-02	J1-03	J1-04	J1-05	J1-06
Anacostia River	Anacostia River & tributaries; Beaverdam Creek & tributaries; Beck Branch; Brier Ditch & tributaries; Indian Creek tributaries	Washington, DC Prince George's Co.	530	699	703	530	700	703	546	710	717	546	710	717
Western Branch	None	Prince George's Co.	3	3	3	3	3	3	3	3	3	3	3	3
Patuxent River Upper	Patuxent River & tributaries	Prince George's Co. Anne Arundel Co.	78	88	78	78	88	78	99	89	80	99	89	80
Little Patuxent River	Little Patuxent & tributaries; Dorsey Run & tributaries	Anne Arundel Co.	222	52	52	222	52	52	175	5	5	175	5	5
Patapsco River Lower North Branch	Patapsco River & tributaries; Stony Run & tributaries	Anne Arundel Co. Baltimore Co. Baltimore City	163	163	163	80	80	80	163	163	163	80	80	80
Baltimore Harbor	Middle Branch Patapsco River	Anne Arundel Co. Baltimore City	74	74	74	23	23	23	74	74	74	23	23	23
Gwynns Falls	None	Baltimore City	37	37	37	7	7	7	37	37	37	7	7	7
<b>Totals</b>			<b>1,107</b>	<b>1,115</b>	<b>1,110</b>	<b>942</b>	<b>952</b>	<b>946</b>	<b>1,096</b>	<b>1,081</b>	<b>1,078</b>	<b>932</b>	<b>918</b>	<b>914</b>

Permanent impacts have been calculated for all areas of proposed surface disturbance within the LOD. These numbers do not include acreage of deep tunnel or underground stations. Impacts have been rounded to the nearest acre.

**Table D-2: Water Quality Summary**

Watershed Name 8-digit	12-Digit Watershed Code	Designated <sup>1</sup> Use Class	Tier II Watershed	Stronghold Watershed	Watershed Code 8-digit	303(d) Listed Waters			Current TMDL Plans
						Cause	Priority Ranking for TMDL Development	Targeted for TMDL within 2 Years	
Anacostia River	021402050807	UNK (DC)	UNK (DC)	UNK (DC)	02140205	Dissolved Oxygen	Medium	No	Bacteria; Organics and Metals; Oil and Grease; PCBs; Sediment; Nutrients; Trash
	021402050808	I & II	No	No		Sulfates	Low	No	
	021402050822	I	No	No		Chlorides	Low	No	
	021402050823	I	Yes	No		Heptachlor Epoxide	Low	No	
Patuxent River Upper	021311040938	I	Yes	No	02131104	Sulfates	Low	No	Bacteria; Sediments
	021311040940	I	Yes	No		Chlorides	Low	No	
Little Patuxent River	021311050948	I-P	No	Yes	02131105	Chlorides	High	Yes	Sediments
	021311050949	I	No	No		Unknown	Low	No	
	021311050952	I-P	No	Yes		Sulfates	Low	No	
Severn River	021310021002	IV	No	No	02131002	Chlorides	High	Yes	Bacteria
Patapsco River Lower North Branch	021309061011	I	No	No	02130906	Sulfates	Low	No	Phosphorus; Sediments
	021309061012	I & II	No	No		Total Suspended Solids	High	Yes	
	021309061013	I	No	No		Chlorides	Low	No	
Baltimore Harbor	021309031008	I	No	No	02130903	Chlorides	High	Yes	Nutrients; Chlordane; PCBs; Trash/Debris
	021309031010	I & II	No	No		PCB in Fish Tissue	Low	Low	
Gwynns Falls	021309051043	II	No	No	02130905	Sulfates	Low	Low	Nontidal Bacteria; Sediments
Jones Falls	021309041032	I & II	No	No	02130904	Chlorides	High	Yes	Nontidal Bacteria; Sediments

Although designated Use Classes show Use IV within the watersheds, these are not present within the Affected Environment.

**Table D-3: Acres of Floodplain Impact by Build Alternative**

Build Alternative	Alignment		Stations				TMF						Total Acres of Permanent Impact
			Cherry Hill		Camden Yards		BARC Airstrip		BARC West		MD 198		
	P	T	P	T	P	T	P	T	P	T	P	T	
J-01	15	7	28	0	-	-	-	-	-	-	31	0	74
J-02	15	6	28	0	-	-	16	2	-	-	-	-	59
J-03	15	6	28	0	-	-	-	-	3	1	-	-	46
J-04	15	9	-	-	7	18	-	-	-	-	31	0	53
J-05	15	9	-	-	7	18	16	2	-	-	-	-	38
J-06	15	9	-	-	7	18	-	-	3	1	-	-	26
J1-01	9	2	28	0	-	-	-	-	-	-	39	2	76
J1-02	10	5	28	0	-	-	14	1	-	-	-	-	52
J1-03	10	5	28	0	-	-	-	-	2	1	-	-	40
J1-04	9	4	-	-	7	18	-	-	-	-	39	2	56
J1-05	10	8	-	-	7	18	14	1	-	-	-	-	32
J1-06	10	7	-	-	7	18	-	-	2	1	-	-	20

Impacts have been calculated for all areas of proposed surface disturbance within the LOD and have been rounded to the nearest whole number. These numbers do not include acreage of deep tunnel or underground stations. No floodplain impacts are anticipated with either the Mount Vernon Square East or the BWI Marshall Airport Stations.

**Table D-3a: Acres of Floodplain Impact on NPS Property**

Build Alternative	Alignment		Stations				TMF						Total Acres of Permanent Impact
			Cherry Hill		Camden Yards		BARC Airstrip		BARC West		MD 198		
	P	T	P	T	P	T	P	T	P	T	P	T	
J-01	7	1	0	0	-	-	-	-	-	-	1	0	9
J-02	7	1	0	0	-	-	1	0	-	-	-	-	9
J-03	7	1	0	0	-	-	-	-	1	0	-	-	9
J-04	7	1	-	-	0	0	-	-	-	-	1	0	9
J-05	7	1	-	-	0	0	1	0	-	-	-	-	9
J-06	7	1	-	-	0	0	-	-	1	0	-	-	9
J1-01	3	<1	0	0	-	-	-	-	-	-	5	2	10
J1-02	3	<1	0	0	-	-	0	<1	-	-	-	-	5
J1-03	3	<1	0	0	-	-	-	-	1	<1	-	-	5
J1-04	3	<1	-	-	0	0	-	-	-	-	5	2	10
J1-05	3	<1	-	-	0	0	1	<1	-	-	-	-	5
J1-06	3	<1	-	-	0	0	-	-	1	<1	-	-	5

Floodplain impacted within National Park Service (NPS) property will require a Statement of Findings per Directors Order (DO) 77-1 and DO-77-2, therefore Table D.3A provides the total impact of floodplain estimated within NPS property following the same criteria for Table D.3.

**Table D-4: Groundwater Supply Well Owner(s) within WHPAs**

Group	Label	Name	Aquifer
A	16	Ourisman Honda/VW of Laurel	Upper Patapsco
A	23	Produce Basket	Patuxent
A	24	Remingtons of Laurel	Patuxent
A	37	Produce Basket	Patuxent
A	38	Remingtons of Laurel	Patuxent
B	10	Welsh's Trailer Park	Patapsco
B	21	B&B Southern Barb-B-Que	Patuxent
B	22	Utopia	Patuxent
B	35	B&B Southern Barb-B-Que	Patuxent
B	36	Utopia	Patuxent
C	17	Colony 7 Shell	Patuxent
C	18	N.S.A. Colony 7 Well #1	Patuxent
C	26	N.S.A. Colony 7 Well #2	Patuxent
C	32	Colony 7 Shell	Patuxent
C	40	N.S.A. Colony 7	Patuxent
C	47	N.S.A. Colony 7	Patuxent
D	2	Province's Park	Patapsco
D	6	Denny's Restaurant	Lower Patapsco
D	7	Severn Square Shopping Center	Patapsco
D	12	Provinces Park	Lower Patapsco
D	14	Denny's Restaurant	Lower Patapsco
D	15	Severn Square Shopping Center	Lower Patapsco
D	25	Kindercare Learning Center #10	Patuxent
D	27	Ridgeview Plaza	Patuxent
D	31	The Provinces	Patuxent
D	39	Kindercare Learning Center #10	Patuxent
Glen Burnie WHPA	9	Glen Burnie Public Water System	Patapsco
Glen Burnie WHPA	28	Glen Burnie Public Water System	Patuxent
Glen Burnie WHPA	41	Glen Burnie Public Water System	Patuxent
Glen Burnie WHPA	48	Glen Burnie Public Water System	Patapsco
Severn Water Co. WHPA	29	Lake Village	Patuxent
USDA WHPA	43	n/a	Patuxent
Fort Meade WHPA	46	n/a	Patuxent
n/a	1	Andover Park	Patapsco
n/a	3	Jessup Shell Food Market	Patapsco
n/a	4	Blobs Park	Patapsco
n/a	5	Severn Sub Shop	Upper Patapsco
n/a	8	Ourisman Honda/VW Of Laurel	Patapsco
n/a	11	Andover Recreation Center	Upper Patapsco
n/a	13	Severn Sub Shop	Upper Patapsco
n/a	19	Red Carpet Inn	Patuxent
n/a	20	Maryland City Park	Patuxent
n/a	30	Holiday Mobile Estates	Patuxent
n/a	33	Red Carpet Inn	Patuxent
n/a	34	Maryland City Park	Patuxent
n/a	42	Jessup Shell Food Market	Lower Patapsco
n/a	44	n/a	Patapsco
n/a	45	n/a	Patapsco