

Culpeper County, Virginia  
Highly Erodible Land Report  
Appended for 2006 Correlation

| 2006 Pub | 1/1/1990 | Mapunit Name                                                               | Component    | Component | HEL Class | Frozen K | Frozen T |
|----------|----------|----------------------------------------------------------------------------|--------------|-----------|-----------|----------|----------|
| MU Sym   | MU Sym   |                                                                            | Name         | Percent   |           | Factor   | Factor   |
|          |          |                                                                            |              |           |           |          |          |
| 1C       |          | Alanthus-Myersville complex, 7 to 15 percent slopes                        | Alanthus     | 50        | PHEL      | 0.43     | 5        |
| 1C       |          | Alanthus-Myersville complex, 7 to 15 percent slopes                        | Myersville   | 35        | PHEL      | 0.43     | 4        |
| 1D       |          | Alanthus-Myersville complex, 15 to 25 percent slopes                       | Alanthus     | 45        | HEL       | 0.43     | 5        |
| 1D       |          | Alanthus-Myersville complex, 15 to 25 percent slopes                       | Myersville   | 40        | HEL       | 0.43     | 4        |
|          | Aa       | Albemarle fine sandy loam, eroded hilly phase                              | Albemarle    |           | HEL       | 0.37     | 3        |
|          | Ab       | Albemarle fine sandy loam, eroded rolling phase                            | Albemarle    |           | HEL       | 0.37     | 3        |
|          | Ac       | Albemarle fine sandy loam, rolling phase                                   | Albemarle    |           | HEL       | 0.37     | 3        |
|          | Ad       | Albemarle fine sandy loam, undulating phase                                | Albemarle    |           | PHEL      | 0.37     | 3        |
|          | Ae       | Aldino silt loam, eroded rolling phase                                     | Aldino       |           | HEL       | 0.43     | 3        |
|          | Af       | Aldino silt loam, undulating phase                                         | Aldino       |           | PHEL      | 0.43     | 3        |
|          | Ag       | Altavista loam, level phase                                                | Altavista    |           | NHEL      | 0.2      | 5        |
|          | Ah       | Altavista loam, undulating phase                                           | Altavista    |           | PHEL      | 0.2      | 5        |
|          | Ak       | Appling fine sandy loam, eroded rolling phase                              | Appling      |           | PHEL      | 0.24     | 4        |
|          | Al       | Appling fine sandy loam, rolling phase                                     | Appling      |           | PHEL      | 0.24     | 4        |
|          | Am       | Appling fine sandy loam, undulating phase                                  | Appling      |           | PHEL      | 0.24     | 4        |
| 2A       |          | Ashburn-Dulles complex, 0 to 2 percent slopes                              | Ashburn      | 40        | PHEL      | 0.43     | 2        |
| 2A       |          | Ashburn-Dulles complex, 0 to 2 percent slopes                              | Dulles       | 40        | NHEL      | 0.43     | 3        |
| 3D       |          | Blocktown-Yellowbottom complex, 15 to 25 percent slopes                    | Blocktown    | 45        | HEL       | 0.55     | 2        |
| 3D       |          | Blocktown-Yellowbottom complex, 15 to 25 percent slopes                    | Yellowbottom | 35        | HEL       | 0.43     | 5        |
| 3E       |          | Blocktown-Yellowbottom complex, 25 to 45 percent slopes                    | Blocktown    | 45        | HEL       | 0.55     | 2        |
| 3E       |          | Blocktown-Yellowbottom complex, 25 to 45 percent slopes                    | Yellowbottom | 25        | HEL       | 0.43     | 5        |
|          | Ba       | Brecknock silt loam                                                        | Brecknock    |           | PHEL      | 0.32     | 4        |
|          | Bb       | Bucks silt loam, eroded rolling phase                                      | Bucks        |           | HEL       | 0.32     | 4        |
|          | Bc       | Bucks silt loam, undulating phase                                          | Bucks        |           | PHEL      | 0.37     | 4        |
|          | Bd       | Buncombe loamy fine sand                                                   | Buncombe     |           | NHEL      | 0.1      | 5        |
| 4C       |          | Cardova-Edgemont complex, 7 to 15 percent slopes                           | Cardova      | 45        | HEL       | 0.37     | 3        |
| 4C       |          | Cardova-Edgemont complex, 7 to 15 percent slopes                           | Edgemont     | 35        | PHEL      | 0.28     | 5        |
| 4D       |          | Cardova-Edgemont complex, 15 to 25 percent slopes                          | Cardova      | 45        | HEL       | 0.37     | 3        |
| 4D       |          | Cardova-Edgemont complex, 15 to 25 percent slopes                          | Edgemont     | 25        | HEL       | 0.28     | 5        |
|          | Ca       | Catlett silt loam, eroded rolling phase                                    | Catlett      |           | HEL       | 0.24     | 2        |
|          | Cb       | Catlett silt loam, undulating phase                                        | Catlett      |           | PHEL      | 0.24     | 2        |
|          | Cc       | Catoctin silt loam                                                         | Catoctin     |           | PHEL      | 0.32     | 2        |
| 5B       |          | Catoctin-Fletcher complex, 2 to 7 percent slopes                           | Catoctin     | 65        | PHEL      | 0.43     | 2        |
| 5B       |          | Catoctin-Fletcher complex, 2 to 7 percent slopes                           | Fletcher     | 25        | PHEL      | 0.43     | 3        |
| 6C       |          | Catoctin-Alanthus complex, 7 to 15 percent slopes                          | Catoctin     | 41        | HEL       | 0.43     | 2        |
| 6C       |          | Catoctin-Alanthus complex, 7 to 15 percent slopes                          | Alanthus     | 40        | PHEL      | 0.43     | 5        |
| 6D       |          | Catoctin-Alanthus complex, 15 to 25 percent slopes                         | Catoctin     | 45        | HEL       | 0.43     | 2        |
| 6D       |          | Catoctin-Alanthus complex, 15 to 25 percent slopes                         | Alanthus     | 40        | HEL       | 0.43     | 5        |
| 7E       |          | Catoctin-Alanthus-Rock outcrop complex, 25 to 45 percent slopes            | Catoctin     | 40        | HEL       | 0.43     | 2        |
| 7E       |          | Catoctin-Alanthus-Rock outcrop complex, 25 to 45 percent slopes            | Alanthus     | 40        | HEL       | 0.43     | 5        |
| 7E       |          | Catoctin-Alanthus-Rock outcrop complex, 25 to 45 percent slopes            | Rock Outcrop | 10        |           |          |          |
|          | Cd       | Cecil fine sandy loam, eroded hilly phase                                  | Cecil        |           | HEL       | 0.28     | 4        |
|          | Ce       | Cecil fine sandy loam, eroded rolling phase                                | Cecil        |           | PHEL      | 0.28     | 4        |
|          | Cf       | Cecil fine sandy loam, eroded undulating phase                             | Cecil        |           | PHEL      | 0.28     | 4        |
|          | Cg       | Cecil fine sandy loam, rolling phase                                       | Cecil        |           | PHEL      | 0.28     | 4        |
|          | Ch       | Cecil fine sandy loam, undulating phase                                    | Cecil        |           | PHEL      | 0.28     | 4        |
|          | Ck       | Chewacla silt loam                                                         | Chewacla     |           | NHEL      | 0.24     | 5        |
| 8B       |          | Clifford loam, 2 to 7 percent slopes                                       | Clifford     | 85        | PHEL      | 0.32     | 5        |
| 8C       |          | Clifford loam, 7 to 15 percent slopes                                      | Clifford     | 85        | PHEL      | 0.32     | 5        |
| 9A       |          | Clover-Penn complex, 0 to 2 percent slopes                                 | Penn         | 45        | PHEL      | 0.43     | 2        |
| 9A       |          | Clover-Penn complex, 0 to 2 percent slopes                                 | Clover       | 35        | NHEL      | 0.32     | 5        |
| 9B       |          | Clover-Penn complex, 2 to 7 percent slopes                                 | Clover       | 75        | PHEL      | 0.32     | 5        |
| 9B       |          | Clover-Penn complex, 2 to 7 percent slopes                                 | Penn         | 15        | HEL       | 0.43     | 2        |
| 10A      |          | Codorus and Hatboro soils, 0 to 2 percent slopes, frequently flooded       | Codorus      | 60        | NHEL      | 0.37     | 4        |
| 10A      |          | Codorus and Hatboro soils, 0 to 2 percent slopes, frequently flooded       | Hatboro      | 30        | NHEL      | 0.43     | 5        |
| 11B      |          | Codorus and Meadowville soils, 2 to 7 percent slopes, occasionally flooded | Codorus      | 40        | PHEL      | 0.37     | 4        |
| 11B      |          | Codorus and Meadowville soils, 2 to 7 percent slopes, occasionally flooded | Meadowville  | 40        | PHEL      | 0.2      | 5        |
| 12A      |          | Codorus silt loam, 0 to 2 percent slopes, occasionally flooded             | Codorus      | 85        | NHEL      | 0.37     | 4        |
| 13A      |          | Comus silt loam, 0 to 2 percent slopes, frequently flooded                 | Comus        | 85        | NHEL      | 0.37     | 5        |
|          | Cl       | Congaree fine sandy loam                                                   | Congaree     |           | NHEL      | 0.24     | 5        |
|          | Cm       | Congaree silt loam                                                         | Congaree     |           | NHEL      | 0.24     | 5        |
|          | Cn       | Croton silt loam, level phase                                              | Croton       |           | NHEL      | 0.43     | 3        |
|          | Co       | Croton silt loam, undulating phase                                         | Croton       |           | PHEL      | 0.43     | 3        |
| 14B      |          | Culpeper sandy loam, 2 to 7 percent slopes                                 | Culpeper     | 80        | PHEL      | 0.28     | 5        |
|          | Cp       | Culpeper clay loam, eroded hilly phase                                     | Culpeper     |           | HEL       | 0.37     | 3        |
|          | Cr       | Culpeper clay loam, eroded rolling phase                                   | Culpeper     |           | HEL       | 0.37     | 3        |
|          | Cs       | Culpeper clay loam, eroded undulating phase                                | Culpeper     |           | PHEL      | 0.37     | 3        |
|          | Ct       | Culpeper loam, eroded hilly phase                                          | Culpeper     |           | HEL       | 0.37     | 4        |
|          | Cu       | Culpeper loam, eroded rolling phase                                        | Culpeper     |           | HEL       | 0.37     | 4        |
|          | Cv       | Culpeper loam, eroded undulating phase                                     | Culpeper     |           | PHEL      | 0.37     | 4        |
|          | Cw       | Culpeper loam, rolling phase                                               | Culpeper     |           | HEL       | 0.37     | 4        |

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| MU Sym   | MU Sym   |                                                                    | Name           | Percent   |           | Factor   | Factor   |
|          |          |                                                                    |                |           |           |          |          |
|          | Cx       | Culpeper loam, undulating phase                                    | Culpeper       |           | PHEL      | 0.37     | 4        |
|          | Da       | Davidson clay, eroded hilly phase                                  | Davidson       |           | HEL       | 0.28     | 5        |
|          | Db       | Davidson clay, eroded rolling phase                                | Davidson       |           | PHEL      | 0.28     | 5        |
|          | Dc       | Davidson clay loam, eroded hilly phase                             | Davidson       |           | HEL       | 0.28     | 5        |
|          | Dd       | Davidson clay loam, hilly shallow phase                            | Davidson       |           | HEL       | 0.28     | 5        |
|          | De       | Davidson clay loam, rolling phase                                  | Davidson       |           | PHEL      | 0.28     | 5        |
|          | Df       | Davidson clay loam, undulating phase                               | Davidson       |           | PHEL      | 0.28     | 5        |
| 15A      |          | Delanco-Kinkora complex, 0 to 2 percent slopes, rarely flooded     | Delanco        | 75        | NHEL      | 0.37     | 5        |
| 15A      |          | Delanco-Kinkora complex, 0 to 2 percent slopes, rarely flooded     | Kinkora        | 20        | NHEL      | 0.37     | 5        |
| 16A      |          | Dulles-Nestoria complex, 0 to 2 percent slopes                     | Dulles         | 45        | NHEL      | 0.43     | 3        |
| 16A      |          | Dulles-Nestoria complex, 0 to 2 percent slopes                     | Nestoria       | 35        | PHEL      | 0.43     | 2        |
| 16B      |          | Dulles-Nestoria complex, 2 to 7 percent slopes                     | Dulles         | 55        | PHEL      | 0.43     | 3        |
| 16B      |          | Dulles-Nestoria complex, 2 to 7 percent slopes                     | Nestoria       | 25        | PHEL      | 0.43     | 2        |
| 17B      |          | Edgemont sandy loam, 2 to 7 percent slopes                         | Edgemont       | 85        | PHEL      | 0.28     | 5        |
| 18C      |          | Edgemont-Culpeper complex, 7 to 15 percent slopes                  | Edgemont       | 45        | PHEL      | 0.28     | 5        |
| 18C      |          | Edgemont-Culpeper complex, 7 to 15 percent slopes                  | Culpeper       | 40        | PHEL      | 0.28     | 5        |
| 18D      |          | Edgemont-Culpeper complex, 15 to 25 percent slopes                 | Edgemont       | 60        | HEL       | 0.28     | 5        |
| 18D      |          | Edgemont-Culpeper complex, 15 to 25 percent slopes                 | Culpeper       | 30        | HEL       | 0.28     | 5        |
| 19D      |          | Edgemont-Rixeyville complex, 15 to 25 percent slopes, very rocky   | Edgemont       | 45        | HEL       | 0.28     | 5        |
| 19D      |          | Edgemont-Rixeyville complex, 15 to 25 percent slopes, very rocky   | Rixeyville     | 35        | HEL       | 0.24     | 3        |
| 19E      |          | Edgemont-Rixeyville complex, 25 to 45 percent slopes, very rocky   | Edgemont       | 65        | HEL       | 0.28     | 5        |
| 19E      |          | Edgemont-Rixeyville complex, 25 to 45 percent slopes, very rocky   | Rixeyville     | 30        | HEL       | 0.24     | 3        |
|          | Ea       | Elbert silt loam                                                   | Elbert         |           | NHEL      | 0.49     | 3        |
| 20A      |          | Elbert silt loam, 0 to 2 percent slopes, occasionally ponded       | Elbert         | 85        | NHEL      | 0.37     | 4        |
|          | Eb       | Elioak loam                                                        | Elioak         |           | HEL       | 0.32     | 4        |
|          | Ec       | Elioak loam, eroded phase                                          | Elioak         |           | PHEL      | 0.32     | 4        |
| 21B      |          | Elsinboro-Delanco complex, 2 to 7 percent slopes, rarely flooded   | Elsinboro      | 50        | PHEL      | 0.32     | 5        |
| 21B      |          | Elsinboro-Delanco complex, 2 to 7 percent slopes, rarely flooded   | Delanco        | 47        | PHEL      | 0.37     | 5        |
|          | Fa       | Fauquier silt loam, eroded hilly phase                             | Fauquier       |           | HEL       | 0.32     | 3        |
|          | Fb       | Fauquier silt loam, rolling phase                                  | Fauquier       |           | HEL       | 0.32     | 3        |
|          | Fc       | Fauquier silt loam, undulating phase                               | Fauquier       |           | PHEL      | 0.32     | 3        |
|          | Fd       | Fauquier silty clay loam, eroded hilly phase                       | Fauquier       |           | HEL       | 0.32     | 3        |
|          | Fe       | Fauquier silty clay loam, rolling phase                            | Fauquier       |           | HEL       | 0.32     | 3        |
| 22B      |          | Fauquier silt loam, 2 to 7 percent slopes                          | Fauquier       | 75        | PHEL      | 0.32     | 5        |
| 22C      |          | Fauquier silt loam, 7 to 15 percent slopes                         | Fauquier       | 70        | PHEL      | 0.32     | 5        |
| 23B      |          | Fletcher ville-Myersville complex, 2 to 7 percent slopes           | Fletcher ville | 70        | PHEL      | 0.43     | 3        |
| 23B      |          | Fletcher ville-Myersville complex, 2 to 7 percent slopes           | Myersville     | 20        | PHEL      | 0.43     | 4        |
| 23C      |          | Fletcher ville-Myersville complex, 7 to 15 percent slopes          | Fletcher ville | 60        | HEL       | 0.43     | 3        |
| 23C      |          | Fletcher ville-Myersville complex, 7 to 15 percent slopes          | Myersville     | 30        | PHEL      | 0.43     | 4        |
| 24B      |          | Flume loam, 2 to 7 percent slopes                                  | Flume          | 85        | PHEL      | 0.37     | 5        |
| 25C      |          | Flume-Goldvein complex, 7 to 15 percent slopes                     | Flume          | 75        | PHEL      | 0.37     | 5        |
| 25C      |          | Flume-Goldvein complex, 7 to 15 percent slopes                     | Goldvein       | 15        | HEL       | 0.49     | 3        |
| 26B      |          | Germanna silt loam, 2 to 7 percent slopes                          | Germanna       | 95        | PHEL      | 0.55     | 5        |
| 26C      |          | Germanna silt loam, 7 to 15 percent slopes                         | Germanna       | 80        | HEL       | 0.55     | 5        |
| 26D      |          | Germanna silt loam, 15 to 25 percent slopes                        | Germanna       | 87        | HEL       | 0.55     | 5        |
| 27B      |          | Glenelg silt loam, 2 to 7 percent slopes                           | Glenelg        | 70        | PHEL      | 0.37     | 5        |
| 27C      |          | Glenelg silt loam, 7 to 15 percent slopes                          | Glenelg        | 80        | PHEL      | 0.37     | 5        |
| 28D      |          | Glenelg-Rixeyville complex, 15 to 25 percent slopes                | Glenelg        | 65        | HEL       | 0.37     | 5        |
| 28D      |          | Glenelg-Rixeyville complex, 15 to 25 percent slopes                | Rixeyville     | 25        | HEL       | 0.24     | 3        |
| 29E      |          | Glenelg-Griffinsburg complex, 25 to 45 percent slopes              | Glenelg        | 45        | HEL       | 0.37     | 5        |
| 29E      |          | Glenelg-Griffinsburg complex, 25 to 45 percent slopes              | Griffinsburg   | 35        | HEL       | 0.17     | 3        |
| 30C      |          | Griffinsburg-Edgemont complex, 7 to 15 percent slopes              | Griffinsburg   | 41        | PHEL      | 0.17     | 3        |
| 30C      |          | Griffinsburg-Edgemont complex, 7 to 15 percent slopes              | Edgemont       | 40        | PHEL      | 0.28     | 5        |
| 31D      |          | Griffinsburg-Edgemont complex, 15 to 25 percent slopes, very rocky | Griffinsburg   | 50        | HEL       | 0.17     | 3        |
| 31D      |          | Griffinsburg-Edgemont complex, 15 to 25 percent slopes, very rocky | Edgemont       | 40        | HEL       | 0.28     | 5        |
| 31E      |          | Griffinsburg-Edgemont complex, 25 to 45 percent slopes, very rocky | Griffinsburg   | 45        | HEL       | 0.17     | 3        |
| 31E      |          | Griffinsburg-Edgemont complex, 25 to 45 percent slopes, very rocky | Edgemont       | 35        | HEL       | 0.28     | 5        |
|          | Ha       | Halewood loam, eroded hilly phase                                  | Halewood       |           | HEL       | 0.32     | 4        |
|          | Hb       | Halewood loam, hilly phase                                         | Halewood       |           | HEL       | 0.32     | 4        |
|          | Hc       | Halewood loam, rolling phase                                       | Halewood       |           | HEL       | 0.32     | 4        |
| 32B      |          | Halifax gravelly fine sandy loam, 2 to 7 percent slopes            | Halifax        | 80        | PHEL      | 0.28     | 5        |
| 33D      |          | Happyland-Flume complex, 15 to 25 percent slopes                   | Happyland      | 55        | HEL       | 0.43     | 5        |
| 33D      |          | Happyland-Flume complex, 15 to 25 percent slopes                   | Flume          | 35        | HEL       | 0.37     | 5        |
| 34E      |          | Happyland-Mine Run complex, 25 to 45 percent slopes                | Happyland      | 45        | HEL       | 0.43     | 5        |
| 34E      |          | Happyland-Mine Run complex, 25 to 45 percent slopes                | Mine Run       | 40        | HEL       | 0.15     | 2        |
|          | Hd       | Hayesville loam, eroded hilly phase                                | Hayesville     |           | HEL       | 0.2      | 5        |
|          | He       | Hayesville loam, rolling phase                                     | Hayesville     |           | PHEL      | 0.2      | 5        |
|          | Hf       | Hayesville loam, undulating phase                                  | Hayesville     |           | PHEL      | 0.2      | 5        |
| 35C      |          | Haymarket-Jackland complex, 7 to 15 percent slopes, bouldery       | Haymarket      | 50        | PHEL      | 0.37     | 5        |
| 35C      |          | Haymarket-Jackland complex, 7 to 15 percent slopes, bouldery       | Jackland       | 30        | PHEL      | 0.49     | 5        |
| 36D      |          | Haymarket silt loam, 15 to 25 percent slopes, very bouldery        | Haymarket      | 80        | HEL       | 0.37     | 5        |

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| MU Sym   | MU Sym   |                                                                    | Name            | Percent   |           | Factor   | Factor   |
|          |          |                                                                    |                 |           |           |          |          |
| 37E      |          | Haymarket silt loam, 25 to 45 percent slopes, extremely bouldery   | Haymarket       | 85        | HEL       | 0.37     | 5        |
|          | Hg       | Hazel loam, hilly phase                                            | Hazel           |           | HEL       | 0.32     | 2        |
|          | Hh       | Hazel loam, steep phase                                            | Hazel           |           | HEL       | 0.32     | 2        |
|          | Hk       | Helena fine sandy loam                                             | Helena          |           | PHEL      | 0.15     | 3        |
|          | HI       | Hiwassee loam, eroded hilly light-colored phase                    | Hiwassee        |           | HEL       | 0.28     | 4        |
|          | Hm       | Hiwassee loam, eroded rolling light-colored phase                  | Hiwassee        |           | PHEL      | 0.28     | 4        |
|          | Hn       | Hiwassee loam, eroded rolling phase                                | Hiwassee        |           | PHEL      | 0.28     | 4        |
|          | Ho       | Hiwassee loam, undulating light-colored phase                      | Hiwassee        |           | PHEL      | 0.28     | 4        |
|          | Hp       | Hiwassee loam, undulating phase                                    | Hiwassee        |           | PHEL      | 0.28     | 4        |
|          | Ia       | Iredell silt loam, eroded undulating phase                         | Iredell         |           | PHEL      | 0.28     | 3        |
|          | Ib       | Iredell silt loam, level phase                                     | Iredell         |           | NHEL      | 0.28     | 3        |
|          | Ic       | Iredell silt loam, undulating phase                                | Iredell         |           | PHEL      | 0.28     | 3        |
|          | Id       | Iredell stony silt loam                                            | Iredell         |           | PHEL      | 0.24     | 3        |
|          | Ie       | Iredell stony silt loam, eroded phase                              | Iredell         |           | PHEL      | 0.24     | 3        |
| 38A      |          | Jackland and Haymarket soils, 0 to 2 percent slopes                | Jackland        | 55        | NHEL      | 0.49     | 5        |
| 38A      |          | Jackland and Haymarket soils, 0 to 2 percent slopes                | Haymarket       | 35        | NHEL      | 0.37     | 5        |
| 38B      |          | Jackland and Haymarket soils, 2 to 7 percent slopes                | Jackland        | 55        | PHEL      | 0.49     | 5        |
| 38B      |          | Jackland and Haymarket soils, 2 to 7 percent slopes                | Haymarket       | 30        | PHEL      | 0.37     | 5        |
| 39A      |          | Jackland and Haymarket soils, 0 to 2 percent slopes, very bouldery | Jackland        | 55        | NHEL      | 0.49     | 5        |
| 39A      |          | Jackland and Haymarket soils, 0 to 2 percent slopes, very bouldery | Haymarket       | 30        | NHEL      | 0.37     | 5        |
| 39B      |          | Jackland and Haymarket soils, 2 to 7 percent slopes, very bouldery | Jackland        | 60        | PHEL      | 0.49     | 5        |
| 39B      |          | Jackland and Haymarket soils, 2 to 7 percent slopes, very bouldery | Haymarket       | 25        | PHEL      | 0.37     | 5        |
|          | Ka       | Kelly silt loam                                                    | Kelly           |           | PHEL      | 0.37     | 3        |
|          | La       | Lansdale silt loam, level phase                                    | Lansdale        |           | NHEL      | 0.28     | 4        |
|          | Lb       | Lansdale silt loam, undulating phase                               | Lansdale        |           | PHEL      | 0.28     | 4        |
|          | Lc       | Lignum silt loam                                                   | Lignum          |           | PHEL      | 0.43     | 3        |
|          | Ld       | Lloyd clay loam, eroded hilly phase                                | Lloyd           |           | HEL       | 0.37     | 3        |
|          | Le       | Lloyd clay loam, rolling phase                                     | Lloyd           |           | HEL       | 0.37     | 3        |
|          | Lf       | Lloyd clay loam, eroded rolling phase                              | Lloyd           |           | HEL       | 0.37     | 4        |
|          | Lg       | Lloyd clay loam, undulating phase                                  | Lloyd           |           | PHEL      | 0.37     | 4        |
|          | Lh       | Louisburg fine sandy loam, eroded hilly phase                      | Louisburg       |           | HEL       | 0.24     | 2        |
|          | Lk       | Louisburg fine sandy loam, rolling phase                           | Louisburg       |           | HEL       | 0.24     | 2        |
|          | Ma       | Manor silt loam, eroded hilly phase                                | Manor           |           | HEL       | 0.43     | 3        |
|          | Mb       | Manor silt loam, eroded rolling phase                              | Manor           |           | HEL       | 0.43     | 3        |
|          | Mc       | Manor silt loam, rolling phase                                     | Manor           |           | HEL       | 0.43     | 3        |
|          | Md       | Manteo shaly silt loam, hilly phase                                | Manteo          |           | HEL       | 0.28     | 1        |
|          | Me       | Manteo shaly silt loam, rolling phase                              | Manteo          |           | HEL       | 0.28     | 1        |
|          | Mf       | Masada loam, rolling phase                                         | Masada          |           | HEL       | 0.32     | 4        |
|          | Mg       | Masada loam, undulating phase                                      | Masada          |           | PHEL      | 0.32     | 4        |
| 40C      |          | Meadowville loam, 7 to 15 percent slopes                           | Meadowville     | 85        | PHEL      | 0.2      | 5        |
|          | Mh       | Mecklenburg silt loam                                              | Mecklenburg     |           | PHEL      | 0.24     | 4        |
| 41B      |          | Minnieville loam, 2 to 7 percent slopes                            | Minnieville     | 80        | PHEL      | 0.37     | 5        |
| 42B      |          | Montalto silty clay loam, 2 to 7 percent slopes                    | Montalto        | 95        | PHEL      | 0.28     | 5        |
| 42C      |          | Montalto silty clay loam, 7 to 15 percent slopes                   | Montalto        | 80        | PHEL      | 0.28     | 5        |
| 42D      |          | Montalto silty clay loam, 15 to 25 percent slopes                  | Montalto        | 80        | HEL       | 0.28     | 5        |
|          | Na       | Nason silt loam, hilly phase                                       | Nason           |           | HEL       | 0.37     | 4        |
|          | Nb       | Nason silt loam, rolling phase                                     | Nason           |           | HEL       | 0.37     | 4        |
|          | Nc       | Nason silt loam, undulating phase                                  | Nason           |           | PHEL      | 0.37     | 4        |
| 43B      |          | Ott-Kelly complex, 2 to 7 percent slopes                           | Ott             | 45        | PHEL      | 0.37     | 2        |
| 43B      |          | Ott-Kelly complex, 2 to 7 percent slopes                           | Kelly           | 35        | PHEL      | 0.49     | 3        |
| 43C      |          | Ott-Kelly complex, 7 to 15 percent slopes                          | Ott             | 45        | HEL       | 0.37     | 2        |
| 43C      |          | Ott-Kelly complex, 7 to 15 percent slopes                          | Kelly           | 35        | HEL       | 0.49     | 3        |
| 44B      |          | Penhook silt loam, 2 to 7 percent slopes                           | Penhook         | 75        | PHEL      | 0.32     | 5        |
| 44C      |          | Penhook silt loam, 7 to 15 percent slopes                          | Penhook         | 70        | PHEL      | 0.32     | 5        |
|          | Pa       | Penn silt loam, eroded hilly phase                                 | Penn            |           | HEL       | 0.32     | 3        |
|          | Pb       | Penn silt loam, eroded rolling phase                               | Penn            |           | HEL       | 0.32     | 3        |
|          | Pc       | Penn silt loam, undulating phase                                   | Penn            |           | PHEL      | 0.32     | 3        |
| 45A      |          | Penn-Nestoria complex, 0 to 2 percent slopes                       | Penn            | 55        | PHEL      | 0.43     | 2        |
| 45A      |          | Penn-Nestoria complex, 0 to 2 percent slopes                       | Nestoria        | 25        | PHEL      | 0.43     | 2        |
| 45B      |          | Penn-Nestoria complex, 2 to 7 percent slopes                       | Penn            | 45        | PHEL      | 0.43     | 2        |
| 45B      |          | Penn-Nestoria complex, 2 to 7 percent slopes                       | Nestoria        | 35        | PHEL      | 0.43     | 2        |
| 45C      |          | Penn-Nestoria complex, 7 to 15 percent slopes                      | Penn            | 55        | HEL       | 0.43     | 2        |
| 45C      |          | Penn-Nestoria complex, 7 to 15 percent slopes                      | Nestoria        | 35        | HEL       | 0.43     | 2        |
| 45D      |          | Penn-Nestoria complex, 15 to 25 percent slopes                     | Penn            | 45        | HEL       | 0.43     | 2        |
| 45D      |          | Penn-Nestoria complex, 15 to 25 percent slopes                     | Nestoria        | 35        | HEL       | 0.43     | 2        |
| 46       |          | Pits, quarry                                                       | Pits and quarry | 100       |           |          |          |
|          | Ra       | Rapidan silty clay loam, eroded hilly phase                        | Rapidan         |           | HEL       | 0.37     | 3        |
|          | Rb       | Rapidan silty clay loam, eroded rolling phase                      | Rapidan         |           | HEL       | 0.37     | 3        |
|          | Rc       | Rapidan silty clay loam, undulating phase                          | Rapidan         |           | PHEL      | 0.37     | 3        |
| 47B      |          | Rapidan silty clay loam, 2 to 7 percent slopes                     | Rapidan         | 85        | PHEL      | 0.43     | 5        |
| 48C      |          | Rapidan-Penn complex, 7 to 15 percent slopes, rocky                | Rapidan         | 45        | PHEL      | 0.43     | 5        |

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Appended for 2006 Correlation

| 2006 Pub | 1/1/1990 | Mapunit Name                                                                 | Component    | Component | HEL Class | Frozen K | Frozen T |
|----------|----------|------------------------------------------------------------------------------|--------------|-----------|-----------|----------|----------|
| MU Sym   | MU Sym   |                                                                              | Name         | Percent   |           | Factor   | Factor   |
|          |          |                                                                              |              |           |           |          |          |
| 48C      |          | Rapidan-Penn complex, 7 to 15 percent slopes, rocky                          | Penn         | 40        | HEL       | 0.43     | 2        |
| 48D      |          | Rapidan-Penn complex, 15 to 25 percent slopes, rocky                         | Rapidan      | 60        | HEL       | 0.43     | 5        |
| 48D      |          | Rapidan-Penn complex, 15 to 25 percent slopes, rocky                         | Penn         | 25        | HEL       | 0.43     | 2        |
| 49E      |          | Rapidan-Rock outcrop complex, 25 to 45 percent slopes                        | Rapidan      | 55        | HEL       | 0.43     | 5        |
| 49E      |          | Rapidan-Rock outcrop complex, 25 to 45 percent slopes                        | Rock Outcrop | 30        |           |          |          |
| 50C      |          | Rhodhiss-Mine Run complex, 7 to 15 percent slopes                            | Rhodhiss     | 60        | PHEL      | 0.24     | 5        |
| 50C      |          | Rhodhiss-Mine Run complex, 7 to 15 percent slopes                            | Mine Run     | 20        | PHEL      | 0.15     | 2        |
| 50D      |          | Rhodhiss-Mine Run complex, 15 to 25 percent slopes                           | Rhodhiss     | 60        | HEL       | 0.24     | 5        |
| 50D      |          | Rhodhiss-Mine Run complex, 15 to 25 percent slopes                           | Mine Run     | 20        | HEL       | 0.15     | 2        |
| 50E      |          | Rhodhiss-Mine Run complex, 25 to 45 percent slopes                           | Rhodhiss     | 50        | HEL       | 0.24     | 5        |
| 50E      |          | Rhodhiss-Mine Run complex, 25 to 45 percent slopes                           | Mine Run     | 40        | HEL       | 0.15     | 2        |
|          | Rd       | Roanoke silt loam                                                            | Roanoke      |           | NHEL      | 0.37     | 4        |
|          | Sa       | Seneca silt loam                                                             | Seneca       |           | PHEL      | 0.28     | 4        |
|          | Sb       | Stanton silt loam                                                            | Stanton      |           | NHEL      | 0.28     | 2        |
|          | Sc       | Starr silt loam                                                              | Starr        |           | NHEL      | 0.24     | 5        |
|          | Sd       | State loam                                                                   | State        |           | PHEL      | 0.37     | 5        |
| 51A      |          | Sycoline-Kelly complex, 0 to 2 percent slopes                                | Sycoline     | 45        | NHEL      | 0.32     | 2        |
| 51A      |          | Sycoline-Kelly complex, 0 to 2 percent slopes                                | Kelly        | 40        | PHEL      | 0.49     | 3        |
|          | Ta       | Tatum silt loam, hilly phase                                                 | Tatum        |           | HEL       | 0.37     | 4        |
|          | Tb       | Tatum silt loam, rolling phase                                               | Tatum        |           | HEL       | 0.37     | 4        |
|          | Tc       | Tatum silt loam, undulating phase                                            | Tatum        |           | PHEL      | 0.37     | 4        |
|          | Td       | Tatum silty clay loam, hilly phase                                           | Tatum        |           | HEL       | 0.37     | 3        |
|          | Te       | Tatum silty clay loam, rolling phase                                         | Tatum        |           | HEL       | 0.37     | 3        |
| 52       |          | Udorthents, smoothed-Urban land, 0 to 7 percent slopes                       | Udorthents   | 50        |           |          |          |
| 52       |          | Udorthents, smoothed-Urban land, 0 to 7 percent slopes                       | Urban land   | 50        |           |          |          |
|          | Wa       | Wadesboro silt loam, eroded rolling phase                                    | Wadesboro    |           | PHEL      | 0.24     | 4        |
|          | Wb       | Wadesboro silt loam, undulating phase                                        | Wadesboro    |           | PHEL      | 0.24     | 4        |
|          | Wc       | Watt silt loam, eroded hilly phase                                           | Watt         |           | HEL       | 0.32     | 2        |
|          | Wd       | Watt silt loam, rolling phase                                                | Watt         |           | HEL       | 0.32     | 2        |
| 53A      |          | Waxpool silt loam, 0 to 2 percent slopes, occasionally ponded                | Waxpool      | 95        | NHEL      | 0.49     | 5        |
| 54A      |          | Waxpool silt loam, 0 to 2 percent slopes, very bouldery, occasionally ponded | Waxpool      | 95        | NHEL      | 0.49     | 5        |
|          | We       | Wehadkee silt loam                                                           | Wehadkee     |           | NHEL      | 0.32     | 5        |
|          | Wf       | Wilkes soils, undifferentiated                                               | Wilkes       |           | HEL       | 0.28     | 2        |
|          | Wg       | Worsham silt loam                                                            | Worsham      |           | NHEL      | 0.28     | 4        |
|          | Ya       | Yadkin loam                                                                  | Yadkin       |           | PHEL      | 0.37     | 4        |
| 55B      |          | Yellowbottom loam, 2 to 7 percent slopes                                     | Yellowbottom | 85        | PHEL      | 0.43     | 5        |
| 55C      |          | Yellowbottom loam, 7 to 15 percent slopes                                    | Yellowbottom | 70        | PHEL      | 0.43     | 5        |
| 56B      |          | Yellowbottom-Goldvein complex, 2 to 7 percent slopes                         | Yellowbottom | 70        | PHEL      | 0.43     | 5        |
| 56B      |          | Yellowbottom-Goldvein complex, 2 to 7 percent slopes                         | Goldvein     | 15        | HEL       | 0.49     | 3        |
| 57D      |          | Yellowbottom-Milldraper complex, 15 to 25 percent slopes                     | Yellowbottom | 65        | HEL       | 0.43     | 5        |
| 57D      |          | Yellowbottom-Milldraper complex, 15 to 25 percent slopes                     | Milldraper   | 20        | HEL       | 0.37     | 3        |
| W        |          | Water                                                                        | Water        | 100       |           |          |          |
|          | Za       | Zion silt loam                                                               | Zion         |           | PHEL      | 0.37     | 2        |
|          | Zb       | Zion silt loam, eroded phase                                                 | Zion         |           | PHEL      | 0.37     | 2        |