

Farm Acreage Summary

Operator: Tommy Davis

Location: Accomack

Landowner	Site	Latitude	Longitude	Field	Acreage		Environmentally Sensitive Soils
					Total	Usable	
Beverly Fletcher Seala Fletcher Kelly	F-5051 T-76210	N37° 56' 02"	W75° 32' 91"	1, 2	11.3	11.3	YES
Tommy Davis	F-4971 T-76827	N37° 85' 50"	W75° 31' 39"	3, 4	18.5	16	YES
Tommy Davis	F-2876 T-76787	N37° 85' 40"	W75° 31' 45"	2	30.3	26.71	YES
Tommy Davis	F-4971 T-76272	N37° 85' 40"	W75° 31' 64"	1	30.2	27.57	YES
Tommy Davis	F-2876 T-78046	N37° 59' 39"	W75° 31' 45"	4, 7	24.3	22.01	YES
Tommy Davis	F-3 T-7865	N37° 62' 21"	W75° 31' 89"	1	11.5	9.06	YES

Beverly Fletcher	F-5051 T-7872	N37° 55' 29"	W75° 34' 34"	1	12.4	10.51	YES
Beverly Fletcher	F-5051 T-7592	N37° 55' 38"	W75° 34' 34"	1, 2, 3, 4	16.1	9.16	YES
Beverly Fletcher	F-5051 T-7534	N37° 55' 76"	W75° 36' 66"	1	42	34.94	YES
Beverly Fletcher	F-5051 T-7532	N37° 55' 26"	W75° 36' 15"	1	36.2	34.74	YES
Beverly Fletcher	F-5051 T-7531	N37° 56' 11"	W75° 35' 52"	1, 4-5, 9-12, 16, 18-20, 22-32	388.8	313.7	YES
Beverly Fletcher Tommy Davis	F-5051 T-7528	N37° 55' 88"	W75° 36' 18"	3-7	90	59.17	YES
Ruth Fletcher	F-2121 T-7772	N37° 55' 07"	W75° 35' 09"	1, 2	17.6	15.82	NO
Ruth Fletcher	F-1524 T-7476	N37° 54' 95"	W75° 37' 87"	3-6	48.5	42.62	YES
John Sharpley Beth Sharpley	F-1874 T-7307	N37° 59' 29"	W75° 30' 77"	2, 3	51.5	47.81	YES
Total					829.2	681.12	



United States Department of Agriculture
Farm Service Agency

Farm: 5051
Tract: 76210

Accomack County
1:6,000





March 25, 2019

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Legend

-  Occupied Dwellings 200 ft Buffer
-  Occupied Dwellings
-  Parcel Boundary
-  Parcel Boundary
-  Stream
-  Application Area

-  Roads
-  Road 10 ft Buffer
-  Ag Ditch
-  Streams 35 ft Buffer

Farm: 5051
Tract: 76210

Accomack County, Virginia

Total Field Acres:
Field 1: 8.8
Field 2: 2.5
11.3

Total Application Acres:
Field 1: 8.8
Field 2: 2.5
11.3



0 50 100 300 Feet
1 inch = 170 feet

Accomack County, Virginia

Legend

Tax Parcel 26-A-101

Operator: Tommy Davis

Owners: Beverly Fletcher 1/2
and Seala Fletcher Kelly 1/2



Map Printed from AccoMap
<http://accomack.mapsdirect.net/>



Title: Farm 5051 Tract 76210 Field 1 and 2

Date: 9/9/2020

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and Accomack County is not responsible for its accuracy or how current it may be.

VPA PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 10/29/200 between Beverly Fletcher 1/2 and Seal + referred to here as "Landowner", and Nyson Foods referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement. *Fletcher Kelly: 1/2*

Landowner:

The Landowner is the owner of record of the real property located in Accomack County, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A. *See separate FORM*

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>26-A-101</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

Class B biosolids
☐ Yes ☒ No

Water treatment residuals
☐ Yes ☒ No

Food processing waste
☒ Yes ☐ No

Other industrial sludges
☐ Yes ☒ No

Printed name <u>Mr. Beverly Fletcher</u>	Mailing Address <u>27324 Honey Rd. Oak Hill, VA 23416</u>	Landowner Signature <u>B. Beverly Fletcher</u>
By: <u>B. Beverly Fletcher</u>	Phone No. <u>757 224 3930</u>	
Title: <u>Owner</u>		
<input checked="" type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as Executor, Trustee or Power of attorney, etc. <input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

Nyson Foods, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia. The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Kevin Taylor</u>	Mailing Address <u>P.O. Box 8 Temperanceville, VA 23442</u>	Permittee- Authorized Representative Signature <u>Kevin Taylor</u>
Title: <u>Complex Manager</u>	Phone No. <u>757-824-3471</u>	

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Tyson Foods County or City: Accomack County
Landowner: Beverly Fletcher 1/2 and Seala Fletcher Kelly 1/2

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Beverly Fletcher
Landowner's Signature

10/29/20
Date

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A *Land Application Agreement - Biosolids and Industrial Residuals* form with original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Submission of completed Form D VPA Permit Application Workbook, Tabs 14.a and/or 14.b, supersedes the need to complete this Landowner Coordination Form.

Permittee: Tyson Foods
County or City: Accomack County
Please Print

Please Print

(Landowner signatures are not required on this page)

[illegible]

Soil Map—Accomack County, Virginia
(F-5051 T-76210)



Map Scale: 1:7,920 if printed on A portrait (8.5" x 11") sheet.



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



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

9/11/2020
Page 1 of 3

Soil Map—Accomack County, Virginia
(F-5051 T-76210)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)


Soils

 Soil Map Unit Polygons


 Soil Map Unit Lines

 Soil Map Unit Points


Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry


 Miscellaneous Water

 Perennial Water

 Rock Outcrop


 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

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 1:15,800.

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: Accomack County, Virginia

Survey Area Data: Version 16, Jun 3, 2020

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

Date(s) aerial images were photographed: Dec 31, 2009—Sep 24, 2017

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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
NmA	Nimmo sandy loam, 0 to 2 percent slopes	12.4	100.0%
Totals for Area of Interest		12.4	100.0%

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Some minor components, however, have properties and behavior characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description

Accomack County, Virginia

NmA—Nimmo sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 3yw9

Elevation: 10 to 100 feet

Mean annual precipitation: 25 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 200 to 220 days
Farmland classification: Prime farmland if drained

Map Unit Composition

Nimmo and similar soils: 85 percent
Minor components: 2 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Nimmo**Setting**

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 6 inches: sandy loam
H2 - 6 to 32 inches: loam
H3 - 32 to 85 inches: sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: B/D
Hydric soil rating: Yes

Minor Components**Polawana**

Percent of map unit: 2 percent
Landform: Terraces
Down-slope shape: Linear
Across-slope shape: Linear

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Accomack County, Virginia

Survey Area Data: Version 16, Jun 3, 2020



United States Department of Agriculture
Farm Service Agency

Farm: 4971
Tract: 76827

Accomack County
1:6,000

March 25, 2019

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Refer to your original determination (CPA-026 and attached maps) for exact wetland
boundaries and determinations, or contact NRCS.



Legend

- ▬ Parcel Boundary
- ▭ Application Area
- ▭ Occupied Dwellings
- ▨ Occupied Dwellings 200 ft Buffer
- ▬ Stream
- ▭ Ag Ditch 10 ft Buffer
- ▭ Streams 35 ft Buffer
- ▬ Roads
- ▭ Road 10 ft Buffer

Farm: 4971, 2876
Tract: 76272, 76827, 76787

Accomack County, Virginia

0 220 440 660 Feet
 1 inch = 378 feet

Total Field Acres:	Total Application Acres:
Field 1: 30.2	Field 1: 27.57
Field 2: 30.3	Field 2: 26.71
Field 3: 5	Field 3: 3.05
Field 4: 13.5	Field 4: 12.95



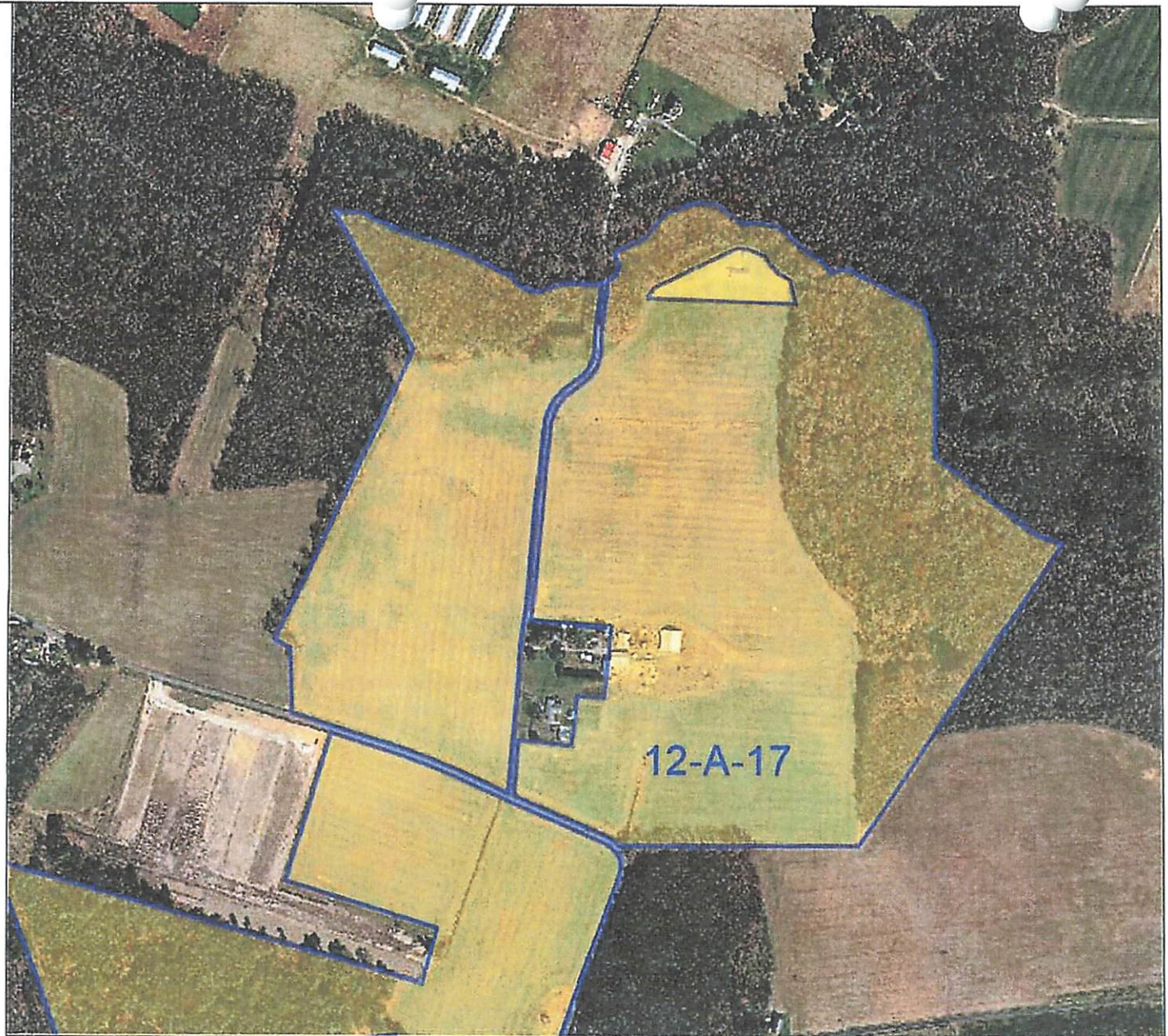
Accomack County, Virginia

Legend

Tax Parcel 12-A-17

Operator: Tommy Davis

Owner: Thomas Davis or
Cherron Davis



Map Printed from AccoMap
<http://accomack.mapsdirect.net/>

Feet

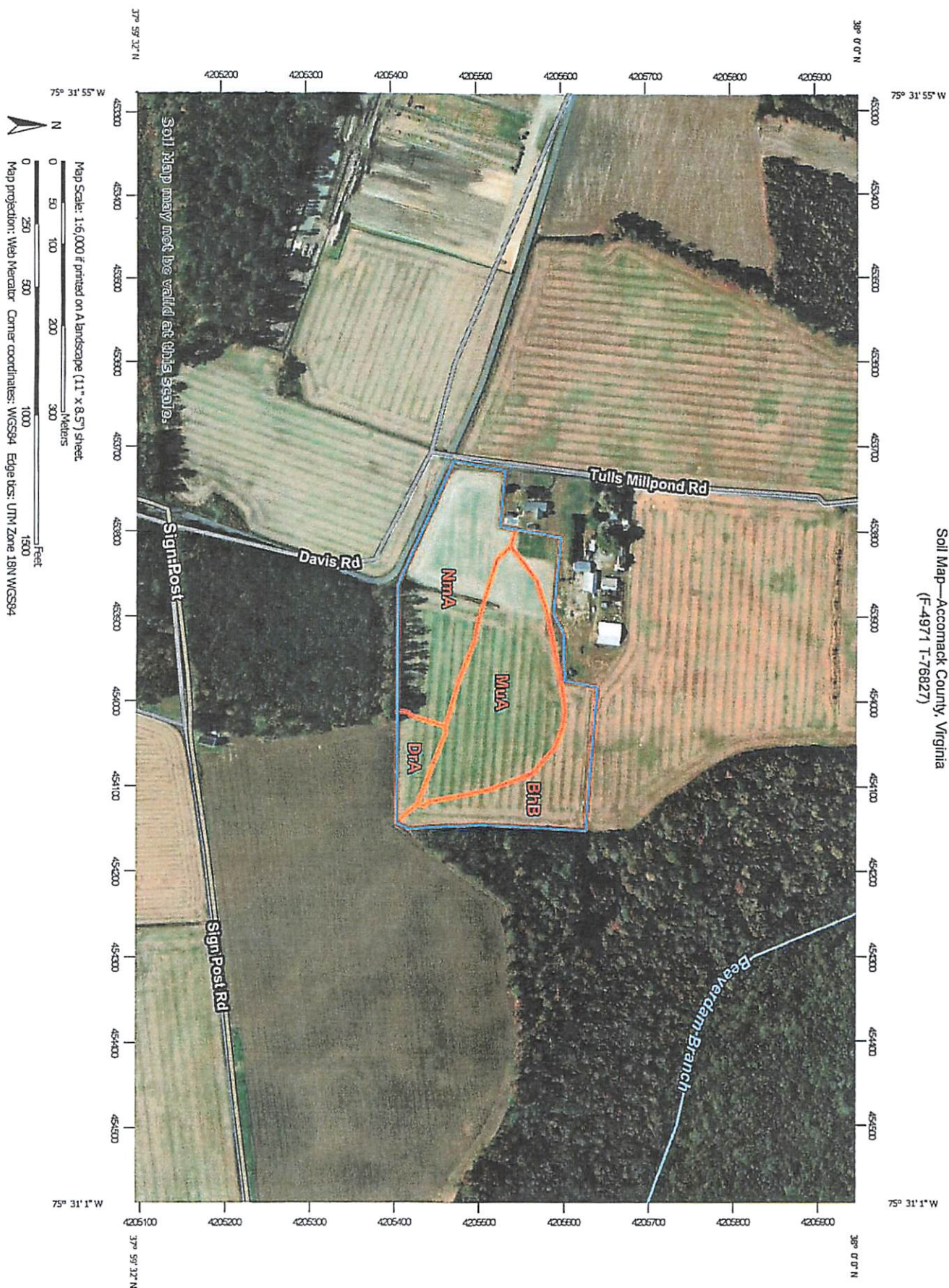
0 200 400 600 800

Title: Farm 4971 Tract 76827 Field 3 and 4

Date: 9/9/2020

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Soil Map—Accomack County, Virginia
(F-4971 T-76827)



Soil Map—Accomack County, Virginia
(F-4971 T-76827)


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

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 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BhB	Bojac loamy sand, 2 to 6 percent slopes	4.6	24.0%
DrA	Dragston fine sandy loam, 0 to 2 percent slopes	1.1	5.9%
MuA	Munden sandy loam, 0 to 2 percent slopes	7.1	36.6%
NmA	Nimmo sandy loam, 0 to 2 percent slopes	6.5	33.5%
Totals for Area of Interest		19.3	100.0%

Map Unit Description

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An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description

Accomack County, Virginia

BhB—Bojac loamy sand, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: 3yvv

Elevation: 10 to 250 feet

Mean annual precipitation: 25 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 200 to 220 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Bojac and similar soils: 90 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bojac**Setting**

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 7 inches: loamy sand
H2 - 7 to 40 inches: loam
H3 - 40 to 85 inches: sand

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High
(1.98 to 5.95 in/hr)
Depth to water table: About 48 to 72 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: A
Hydric soil rating: No

DrA—Dragston fine sandy loam, 0 to 2 percent slopes**Map Unit Setting**

National map unit symbol: 3yw0
Elevation: 0 to 20 feet
Mean annual precipitation: 25 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 200 to 220 days
Farmland classification: Prime farmland if drained

Map Unit Composition

Dragston and similar soils: 90 percent

Minor components: 3 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dragston

Setting

Landform: Terraces

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Marine sediments

Typical profile

H1 - 0 to 6 inches: fine sandy loam

H2 - 6 to 40 inches: loam

H3 - 40 to 85 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat poorly drained

Runoff class: Negligible

*Capacity of the most limiting layer to transmit water (Ksat): High
(1.98 to 5.95 in/hr)*

Depth to water table: About 12 to 30 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Moderate (about 6.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: A/D

Hydric soil rating: No

Minor Components

Arapahoe

Percent of map unit: 3 percent

Landform: Depressions

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: Yes

MoD—Molena loamy sand, 6 to 35 percent slopes

Map Unit Setting

National map unit symbol: 3yw7

Elevation: 20 to 70 feet

Mean annual precipitation: 25 to 60 inches

Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Molena and similar soils: 90 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Molena**Setting**

Landform: Terraces

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Marine sediments

Typical profile

H1 - 0 to 8 inches: loamy sand

H2 - 8 to 45 inches: loamy sand

H3 - 45 to 85 inches: sand

Properties and qualities

Slope: 6 to 35 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat excessively drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): High to very high (1.98 to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A

Hydric soil rating: No

MuA—Munden sandy loam, 0 to 2 percent slopes**Map Unit Setting**

National map unit symbol: 3yw8

Elevation: 0 to 150 feet

Mean annual precipitation: 25 to 60 inches

Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Munden and similar soils: 90 percent

Minor components: 6 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Munden

Setting

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 8 inches: sandy loam
H2 - 8 to 40 inches: sandy loam
H3 - 40 to 85 inches: loamy sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)
Depth to water table: About 18 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 6.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: B
Hydric soil rating: No

Minor Components

Nimmo

Percent of map unit: 6 percent
Landform: Depressions
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: Yes

NmA—Nimmo sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 3yw9
Elevation: 10 to 100 feet
Mean annual precipitation: 25 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 200 to 220 days
Farmland classification: Prime farmland if drained

Map Unit Composition

Nimmo and similar soils: 85 percent

Minor components: 2 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Nimmo

Setting

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 6 inches: sandy loam
H2 - 6 to 32 inches: loam
H3 - 32 to 85 inches: sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: B/D
Hydric soil rating: Yes

Minor Components

Polawana

Percent of map unit: 2 percent
Landform: Terraces
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Accomack County, Virginia
Survey Area Data: Version 16, Jun 3, 2020



United States Department of Agriculture
Farm Service Agency

Farm: 2876
Tract: 76787

Accomack County
1:4,800

April 30, 2019

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area.
Refer to your original determination (CPA-020 and attached maps) for exact wetland
boundaries and determinations, or contact NRCS.



Farm: 4971, 2876

Tract: 76272, 76827, 76787

Accomack County, Virginia

0 120 240 360 480 600 Feet 1 inch = 378 feet

Accomack County, Virginia

Legend

Tax Parcel 12-A-17

Operator: Tommy Davis

Owner: Thomas Davis or
Cherron Davis



Map Printed from AccoMap
<http://accomack.mapsdirect.net/>

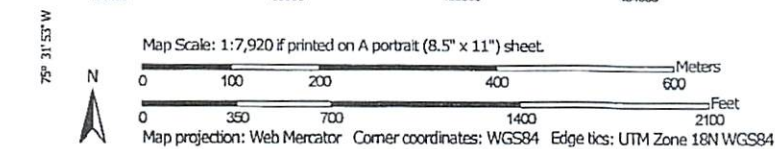
Feet
0 200 400 600 800

Title: Farm 2876 Tract 76787 Field 2

Date: 9/9/2020

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and Accomack County is not responsible for its accuracy or how current it may be.


Soil Map—Accomack County, Virginia
(F-2876 T-76787)



Soil Map—Accomack County, Virginia
(F-2876 T-76787)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

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 1:15,800.

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: Accomack County, Virginia

Survey Area Data: Version 16, Jun 3, 2020

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

Date(s) aerial images were photographed: Dec 31, 2009—Sep 24, 2017

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.



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BhB	Bojac loamy sand, 2 to 6 percent slopes	27.3	86.3%
DrA	Dragston fine sandy loam, 0 to 2 percent slopes	3.0	9.4%
MoD	Molena loamy sand, 6 to 35 percent slopes	1.3	4.3%
Totals for Area of Interest		31.7	100.0%

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Some minor components, however, have properties and behavior characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description

Accomack County, Virginia

BhB—Bojac loamy sand, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: 3yvv

Elevation: 10 to 250 feet

Mean annual precipitation: 25 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 200 to 220 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Bojac and similar soils: 90 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bojac**Setting**

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 7 inches: loamy sand
H2 - 7 to 40 inches: loam
H3 - 40 to 85 inches: sand

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High
(1.98 to 5.95 in/hr)
Depth to water table: About 48 to 72 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: A
Hydric soil rating: No

DrA—Dragston fine sandy loam, 0 to 2 percent slopes**Map Unit Setting**

National map unit symbol: 3yw0
Elevation: 0 to 20 feet
Mean annual precipitation: 25 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 200 to 220 days
Farmland classification: Prime farmland if drained

Map Unit Composition

Dragston and similar soils: 90 percent

Minor components: 3 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dragston

Setting

Landform: Terraces

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Marine sediments

Typical profile

H1 - 0 to 6 inches: fine sandy loam

H2 - 6 to 40 inches: loam

H3 - 40 to 85 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat poorly drained

Runoff class: Negligible

*Capacity of the most limiting layer to transmit water (Ksat): High
(1.98 to 5.95 in/hr)*

Depth to water table: About 12 to 30 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Moderate (about 6.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: A/D

Hydric soil rating: No

Minor Components

Arapahoe

Percent of map unit: 3 percent

Landform: Depressions

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: Yes

MoD—Molena loamy sand, 6 to 35 percent slopes

Map Unit Setting

National map unit symbol: 3yw7

Elevation: 20 to 70 feet

Mean annual precipitation: 25 to 60 inches

Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Molena and similar soils: 90 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Molena**Setting**

Landform: Terraces

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Marine sediments

Typical profile

H1 - 0 to 8 inches: loamy sand

H2 - 8 to 45 inches: loamy sand

H3 - 45 to 85 inches: sand

Properties and qualities

Slope: 6 to 35 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat excessively drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): High to very high (1.98 to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A

Hydric soil rating: No

Data Source Information

Soil Survey Area: Accomack County, Virginia

Survey Area Data: Version 16, Jun 3, 2020



United States Department of Agriculture
Farm Service Agency

Farm: 4971
Tract: 76272

Accomack County
1:6,000

March 25, 2019

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area.
Refer to your original determination (CPA-026 and attached maps) for exact wetland
boundaries and determinations, or contact NRCS.



Legend

- Parcel Boundary
- Application Area
- Occupied Dwellings
- Occupied Dwellings 200 ft Buffer
- Stream

- Ag Ditch 10 ft Buffer
- Streams 35 ft Buffer
- Roads
- Road 10 ft Buffer

Farm: 4971, 2876
Tract: 76272, 76827, 76787

Accomack County, Virginia

0 220 440 660 Feet
 1 inch = 378 feet

Total Field Acres:
 Field 1: 30.2
 Field 2: 30.3
 Field 3: 5
 Field 4: 13.5

Total Application Acres:
 Field 1: 27.57
 Field 2: 26.71
 Field 3: 3.05
 Field 4: 12.95



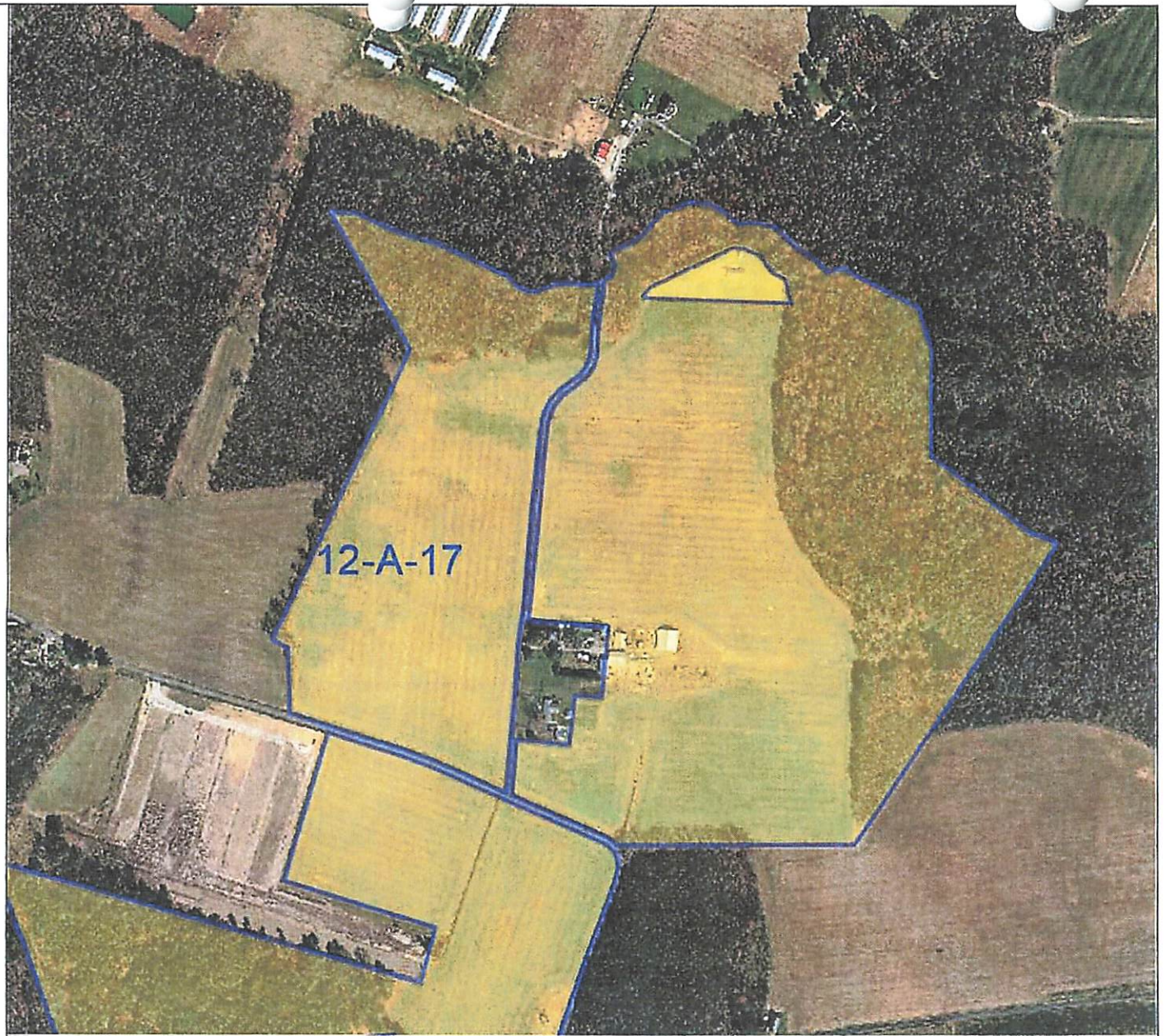
Accomack County, Virginia

Legend

Tax Parcel 12-A-17

Operator: Tommy Davis

Owner: Thomas Davis or
Cherron Davis



Map Printed from AccoMap
<http://accomack.mapsdirect.net/>

Feet
0 200 400 600 800

Title: Farm 4971 Tract 76272 Field 1

Date: 9/9/2020

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and Accomack County is not responsible for its accuracy or how current it may be.

Soil Map—Accomack County, Virginia
(F-4971 T-76272)



Map Scale: 1:6,000 if printed on A portrait (8.5" x 11") sheet.
 0 50 100 200 300 Meters
 0 250 500 1000 1500 Feet
 Map projection: Web Mercator Corner coordinates: WGS84 Edge ticks: UTM Zone 18N WGS84



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

9/11/2020
Page 1 of 3

Soil Map—Accomack County, Virginia
(F-4971 T-76272)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)


Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features

 Blowout


 Borrow Pit


 Clay Spot


 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

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 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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: Accomack County, Virginia

Survey Area Data: Version 16, Jun 3, 2020

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

Date(s) aerial images were photographed: Dec 31, 2009—Sep 24, 2017

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.



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BhB	Bojac loamy sand, 2 to 6 percent slopes	21.7	72.4%
DrA	Dragston fine sandy loam, 0 to 2 percent slopes	3.1	10.4%
MoD	Molena loamy sand, 6 to 35 percent slopes	0.3	1.0%
MuA	Munden sandy loam, 0 to 2 percent slopes	0.2	0.6%
NmA	Nimmo sandy loam, 0 to 2 percent slopes	4.7	15.7%
Totals for Area of Interest		29.9	100.0%

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Some minor components, however, have properties and behavior characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description

Accomack County, Virginia

BhB—Bojac loamy sand, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: 3yvv

Elevation: 10 to 250 feet

Mean annual precipitation: 25 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 200 to 220 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Bojac and similar soils: 90 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bojac**Setting**

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 7 inches: loamy sand
H2 - 7 to 40 inches: loam
H3 - 40 to 85 inches: sand

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High
(1.98 to 5.95 in/hr)
Depth to water table: About 48 to 72 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: A
Hydric soil rating: No

DrA—Dragston fine sandy loam, 0 to 2 percent slopes**Map Unit Setting**

National map unit symbol: 3yw0
Elevation: 0 to 20 feet
Mean annual precipitation: 25 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 200 to 220 days
Farmland classification: Prime farmland if drained

Map Unit Composition

Dragston and similar soils: 90 percent

Minor components: 3 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dragston

Setting

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 6 inches: fine sandy loam
H2 - 6 to 40 inches: loam
H3 - 40 to 85 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High
(1.98 to 5.95 in/hr)
Depth to water table: About 12 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 6.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: A/D
Hydric soil rating: No

Minor Components

Arapahoe

Percent of map unit: 3 percent
Landform: Depressions
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: Yes

MoD—Molena loamy sand, 6 to 35 percent slopes

Map Unit Setting

National map unit symbol: 3yw7
Elevation: 20 to 70 feet
Mean annual precipitation: 25 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 200 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Molena and similar soils: 90 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Molena**Setting**

Landform: Terraces

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Marine sediments

Typical profile

H1 - 0 to 8 inches: loamy sand

H2 - 8 to 45 inches: loamy sand

H3 - 45 to 85 inches: sand

Properties and qualities

Slope: 6 to 35 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat excessively drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): High to very high (1.98 to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A

Hydric soil rating: No

MuA—Munden sandy loam, 0 to 2 percent slopes**Map Unit Setting**

National map unit symbol: 3yw8

Elevation: 0 to 150 feet

Mean annual precipitation: 25 to 60 inches

Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Munden and similar soils: 90 percent

Minor components: 6 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Munden**Setting**

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 8 inches: sandy loam
H2 - 8 to 40 inches: sandy loam
H3 - 40 to 85 inches: loamy sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)
Depth to water table: About 18 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 6.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: B
Hydric soil rating: No

Minor Components**Nimmo**

Percent of map unit: 6 percent
Landform: Depressions
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: Yes

NmA—Nimmo sandy loam, 0 to 2 percent slopes**Map Unit Setting**

National map unit symbol: 3yw9
Elevation: 10 to 100 feet
Mean annual precipitation: 25 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 200 to 220 days
Farmland classification: Prime farmland if drained

Map Unit Composition

Nimmo and similar soils: 85 percent

Minor components: 2 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Nimmo

Setting

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 6 inches: sandy loam
H2 - 6 to 32 inches: loam
H3 - 32 to 85 inches: sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: B/D
Hydric soil rating: Yes

Minor Components

Polawana

Percent of map unit: 2 percent
Landform: Terraces
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Accomack County, Virginia
Survey Area Data: Version 16, Jun 3, 2020



United States Department of Agriculture
Farm Service Agency

October 03, 2019

Farm: 2876
Tract: 78046

Accomack County
1:4,800

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area.
Refer to your original determination (CPA-028 and attached maps) for exact wetland
boundaries and determinations, or contact NRCS.



Legend

- Occupied Dwellings 200 ft Buffer
- Occupied Dwellings
- Parcel Boundary
- Stream
- Application Area

- Roads
- Road 10 ft Buffer
- Ag Ditch
- Streams 35 ft Buffer

Farm: 2876
Tract: 78046

Accomack County, Virginia

Total Field Acres:
Field 4: 11.50
Field 7: 12.80
24.3

Total Application Acres:
Field 4: 11.34
Field 7: 10.67
22.01

0 125 250 500 Feet
1 inch = 222 feet



Accomack County, Virginia

Legend

Tax Parcel 12-A-17

Operator: Tommy Davis

Owner: Thomas Davis or
Cherron Davis



Map Printed from AccoMap
<http://accomack.mapsdirect.net/>

Feet

0 200 400 600 800

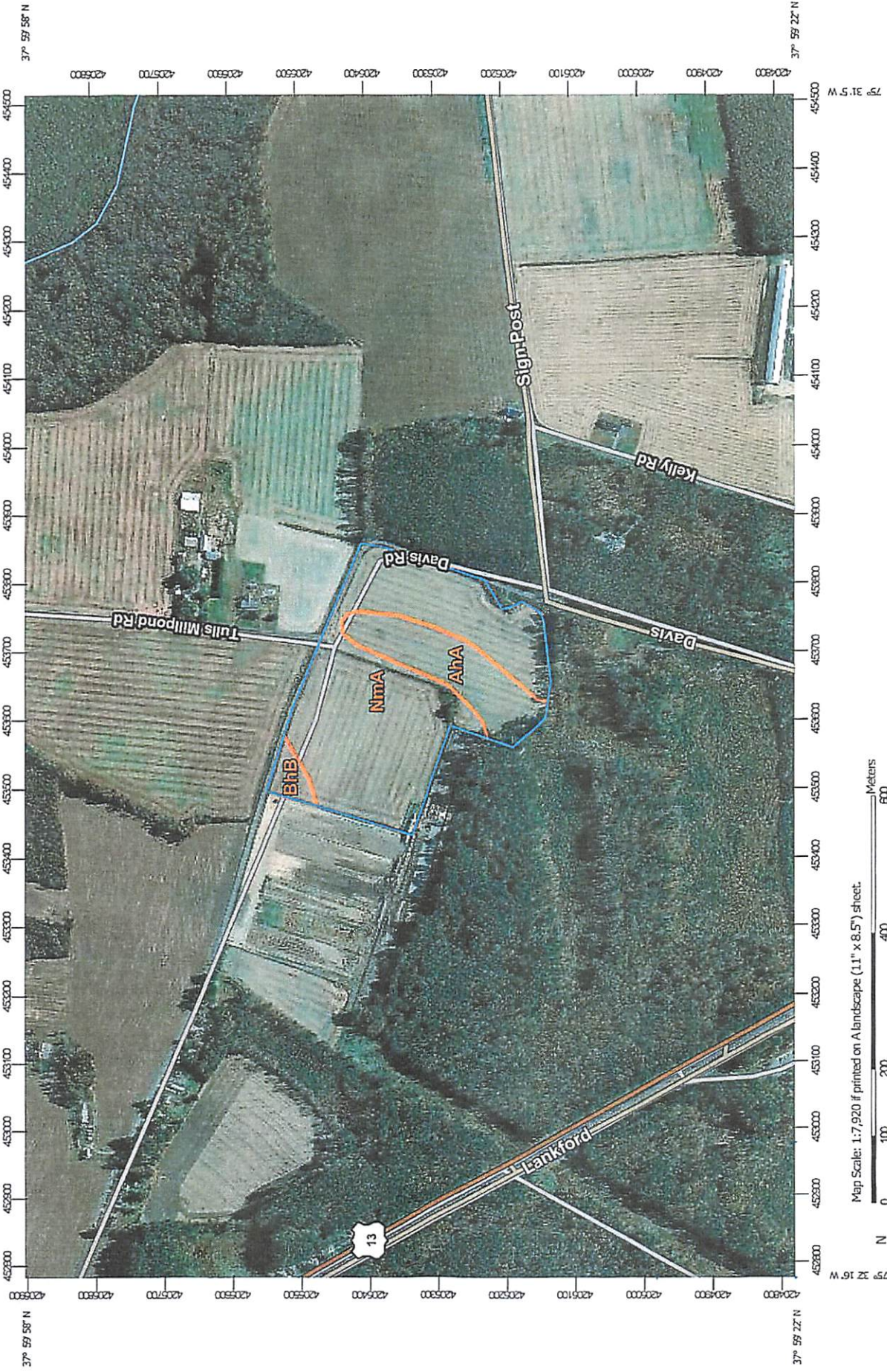
Title: Farm 2876 Tract ~~76787~~ Field 4 and 7 fields outlined in red

Date: 9/9/2020

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and Accomack County is not responsible for its accuracy or how current it may be.

T 78046

Soil Map—Acco., Lank County, Virginia
(F-2876 T-78046)




Map Scale: 1:7,920 if printed on A landscape (11" x 8.5") 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 Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

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 1:15,800.

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: Accomack County, Virginia

Survey Area Data: Version 16, Jun 3, 2020

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

Date(s) aerial images were photographed: Dec 31, 2009—Sep 24, 2017

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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AhA	Arapahoe mucky loam, 0 to 2 percent slopes, rarely flooded	5.5	20.5%
BhB	Bojac loamy sand, 2 to 6 percent slopes	0.9	3.4%
NmA	Nimmo sandy loam, 0 to 2 percent slopes	20.2	76.1%
Totals for Area of Interest		26.6	100.0%

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Some minor components, however, have properties and behavior characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description

Accomack County, Virginia

BhB—Bojac loamy sand, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: 3yvv

Elevation: 10 to 250 feet



Mean annual precipitation: 25 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 200 to 220 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Bojac and similar soils: 90 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bojac**Setting**

Landform: Terraces
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Marine sediments

Typical profile

H1 - 0 to 7 inches: loamy sand
H2 - 7 to 40 inches: loam
H3 - 40 to 85 inches: sand

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High
(1.98 to 5.95 in/hr)
Depth to water table: About 48 to 72 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: A
Hydric soil rating: No

DrA—Dragston fine sandy loam, 0 to 2 percent slopes**Map Unit Setting**

National map unit symbol: 3yw0
Elevation: 0 to 20 feet
Mean annual precipitation: 25 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 200 to 220 days
Farmland classification: Prime farmland if drained

Map Unit Composition

Dragston and similar soils: 90 percent

Minor components: 3 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dragston

Setting

Landform: Terraces

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Marine sediments

Typical profile

H1 - 0 to 6 inches: fine sandy loam

H2 - 6 to 40 inches: loam

H3 - 40 to 85 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat poorly drained

Runoff class: Negligible

*Capacity of the most limiting layer to transmit water (Ksat): High
(1.98 to 5.95 in/hr)*

Depth to water table: About 12 to 30 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Moderate (about 6.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: A/D

Hydric soil rating: No

Minor Components

Arapahoe

Percent of map unit: 3 percent

Landform: Depressions

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: Yes

MoD—Molena loamy sand, 6 to 35 percent slopes

Map Unit Setting

National map unit symbol: 3yw7

Elevation: 20 to 70 feet

Mean annual precipitation: 25 to 60 inches

Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Molena and similar soils: 90 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Molena**Setting**

Landform: Terraces

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Marine sediments

Typical profile

H1 - 0 to 8 inches: loamy sand

H2 - 8 to 45 inches: loamy sand

H3 - 45 to 85 inches: sand

Properties and qualities

Slope: 6 to 35 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat excessively drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): High to very high (1.98 to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A

Hydric soil rating: No

Data Source Information

Soil Survey Area: Accomack County, Virginia

Survey Area Data: Version 16, Jun 3, 2020